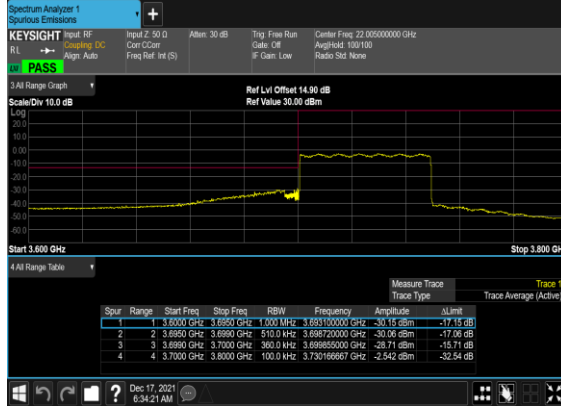
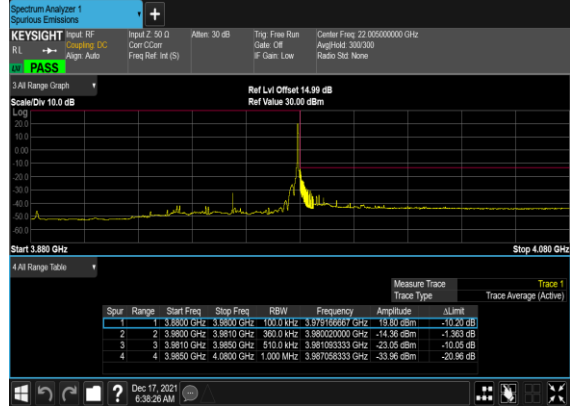


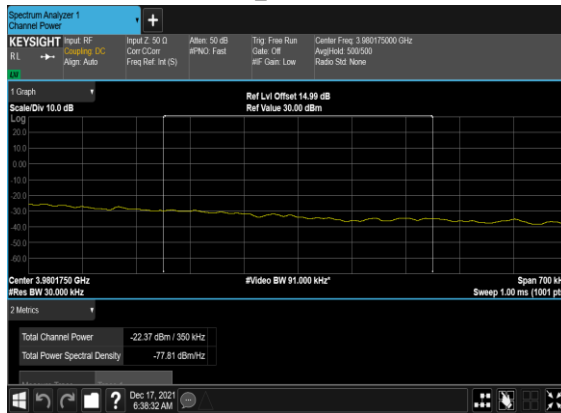
N77(50M)_CP- OFDM_QPSK_Outer_Full_Low_CH



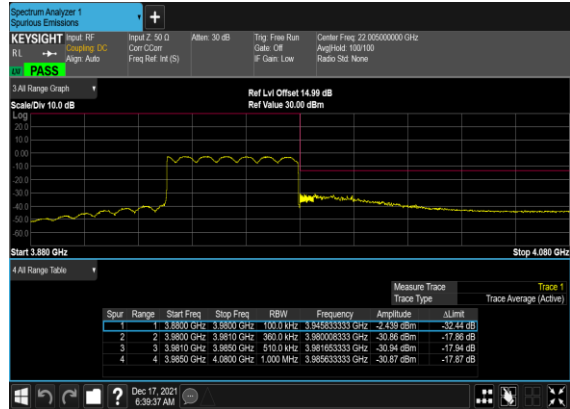
N77(50M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH_CHP _PASS



N77(50M)_CP- OFDM_QPSK_Outer_Full_High_CH



FR1 N77(MIMO ANT6) – SCS 15kHz

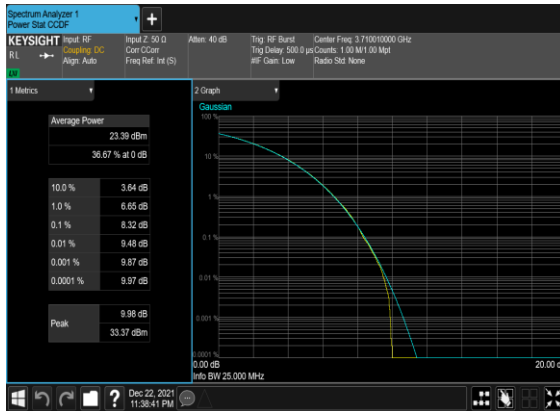
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0423	PASS	NV
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0592	PASS	LV
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0063	PASS	HV
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0477	PASS	-30°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0493	PASS	-20°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0206	PASS	-10°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0441	PASS	0°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0541	PASS	10°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0414	PASS	20°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0362	PASS	30°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0244	PASS	40°C
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	0.0489	PASS	50°C

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	15	20	647334	3710.01	CP-OFDM QPSK	106@0	8.32	13	PASS
77	15	20	647334	3710.01	CP-OFDM QPSK	1@0	8.68	13	PASS
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	8.04	13	PASS
77	15	20	656000	3840.0	CP-OFDM QPSK	1@0	7.85	13	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	106@0	7.88	13	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	1@0	8.9	13	PASS

N77(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



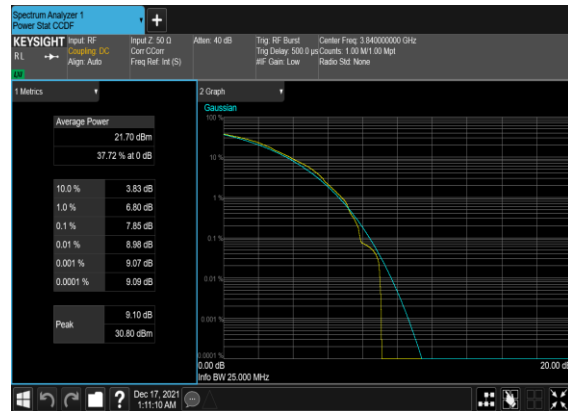
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



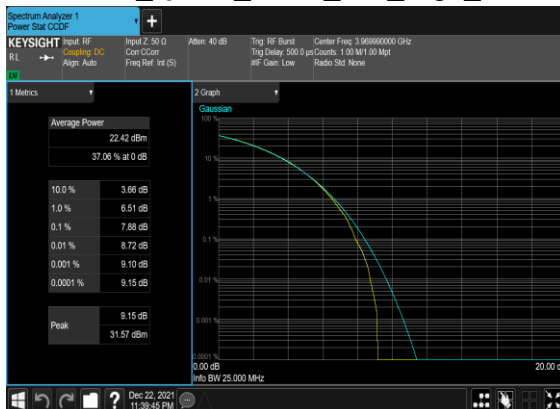
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



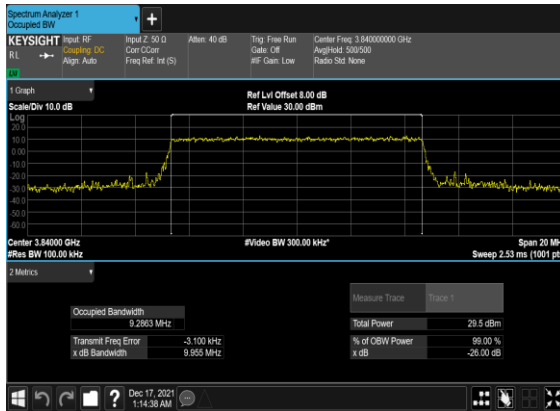
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



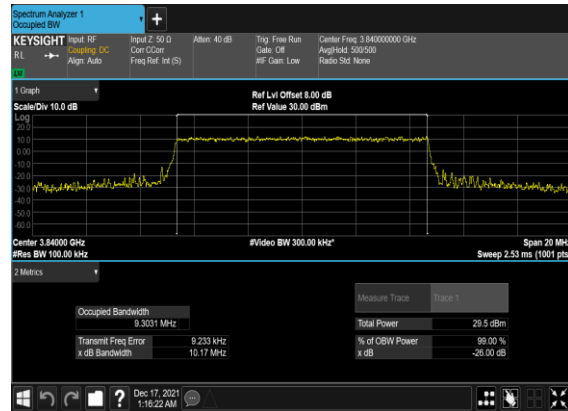
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	15	10	656000	3840.0	CP-OFDM QPSK	52@0	9.2863	9.955
77	15	10	656000	3840.0	CP-OFDM 16 QAM	52@0	9.3031	10.17
77	15	10	656000	3840.0	CP-OFDM 64 QAM	52@0	9.2792	9.826
77	15	10	656000	3840.0	CP-OFDM 256 QAM	52@0	9.2748	9.853
77	15	15	656000	3840.0	CP-OFDM QPSK	79@0	14.066	14.78
77	15	15	656000	3840.0	CP-OFDM 16 QAM	79@0	14.067	14.71
77	15	15	656000	3840.0	CP-OFDM 64 QAM	79@0	14.082	14.69
77	15	15	656000	3840.0	CP-OFDM 256 QAM	79@0	14.091	14.7
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	18.894	19.78
77	15	20	656000	3840.0	CP-OFDM 16 QAM	106@0	18.914	19.77
77	15	20	656000	3840.0	CP-OFDM 64 QAM	106@0	18.886	19.8
77	15	20	656000	3840.0	CP-OFDM 256 QAM	106@0	18.912	19.83
77	15	40	656000	3840.0	CP-OFDM QPSK	216@0	38.594	40.05
77	15	40	656000	3840.0	CP-OFDM 16 QAM	216@0	38.46	40.03
77	15	40	656000	3840.0	CP-OFDM 64 QAM	216@0	38.451	39.99
77	15	40	656000	3840.0	CP-OFDM 256 QAM	216@0	38.533	40.01
77	15	50	656000	3840.0	CP-OFDM QPSK	270@0	48.184	49.72
77	15	50	656000	3840.0	CP-OFDM 16 QAM	270@0	48.065	49.8
77	15	50	656000	3840.0	CP-OFDM 64 QAM	270@0	48.071	49.86
77	15	50	656000	3840.0	CP-OFDM 256 QAM	270@0	48.134	49.78

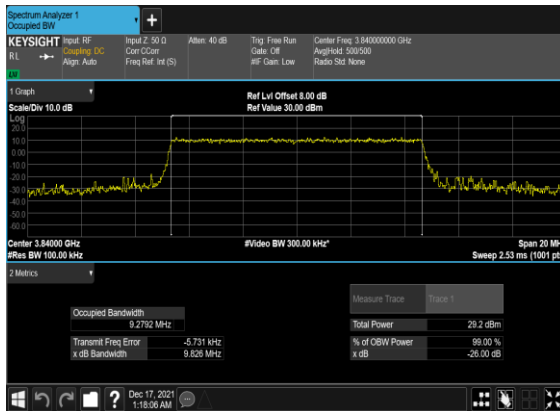
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



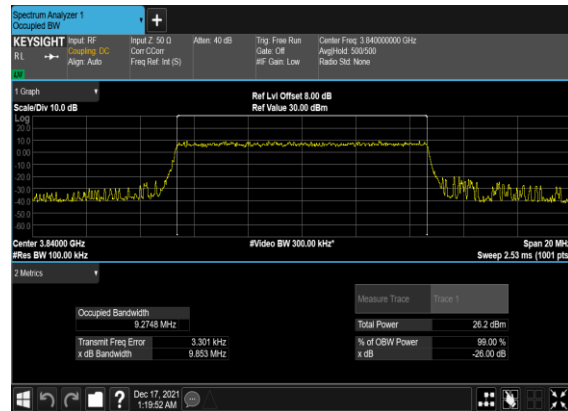
N77(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



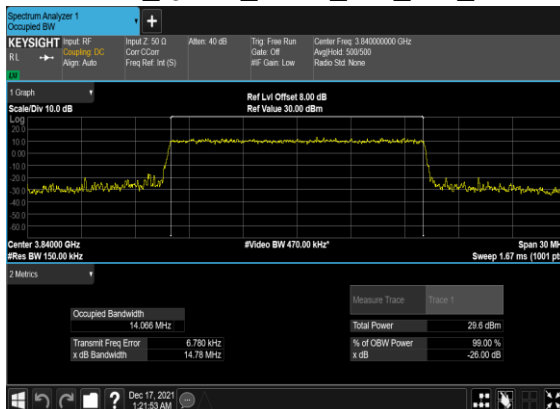
N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



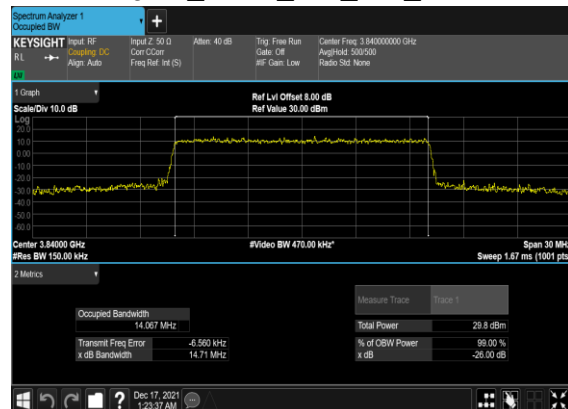
N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



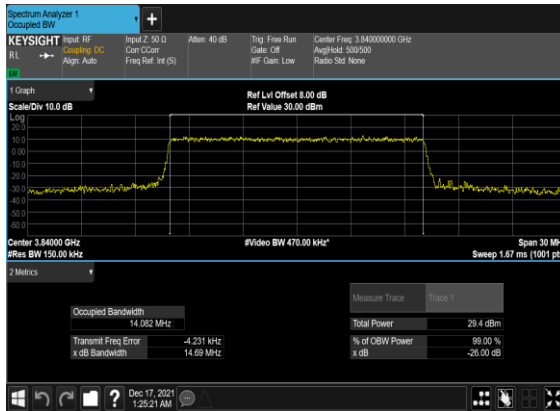
N77(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



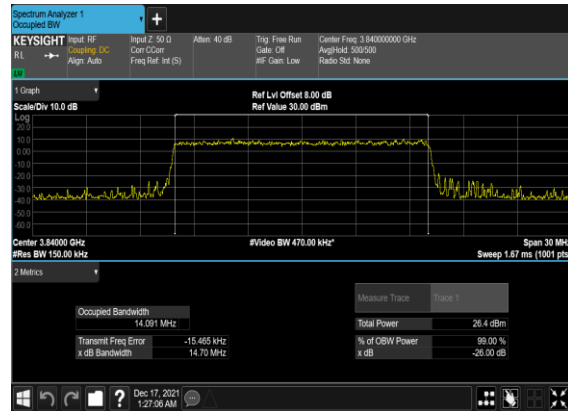
N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



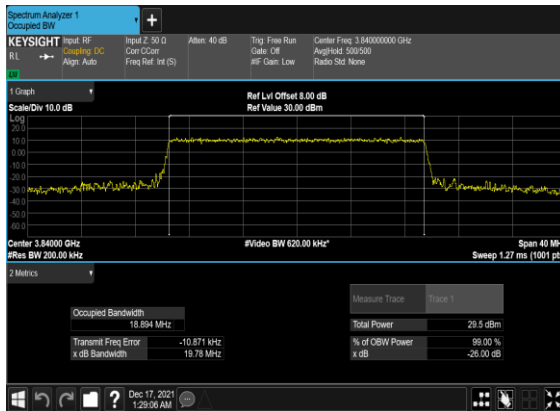
N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



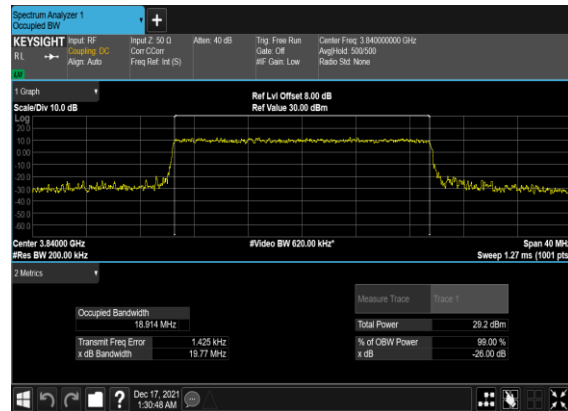
N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



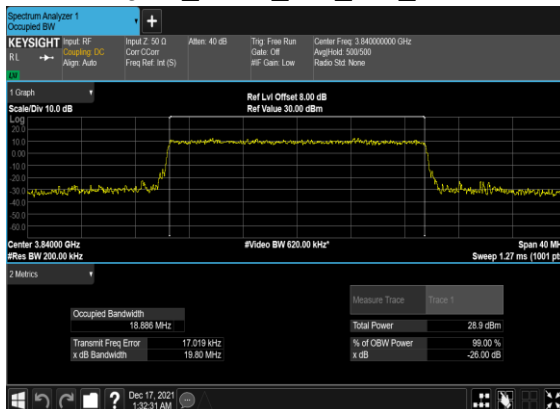
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



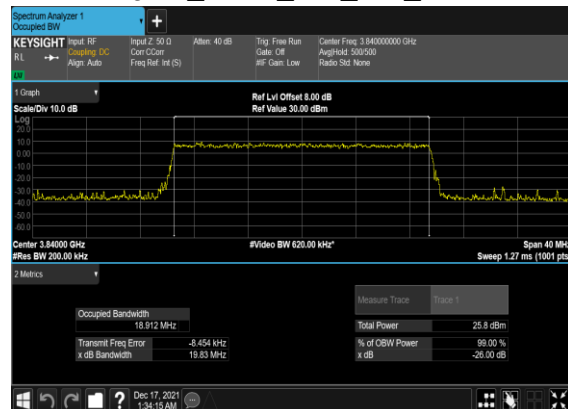
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



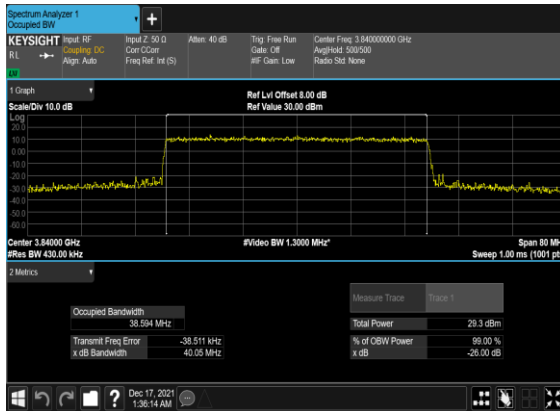
N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



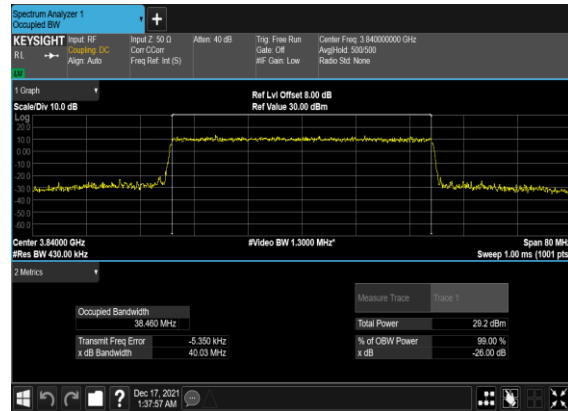
N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



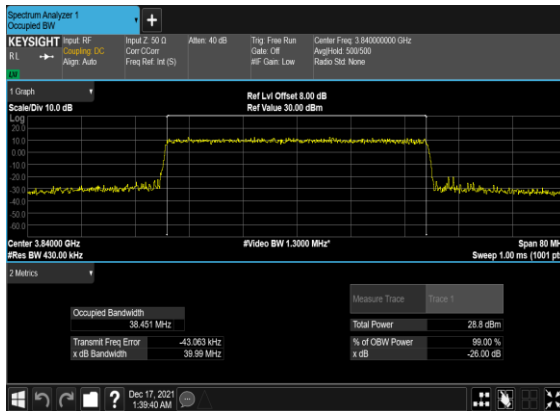
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



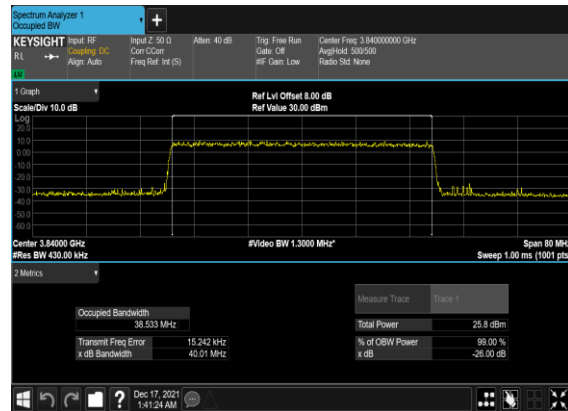
N77(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



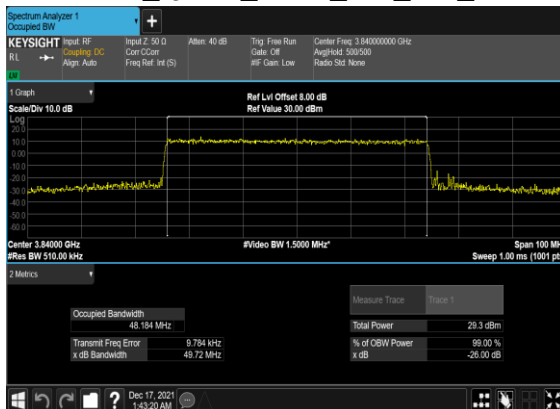
N77(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



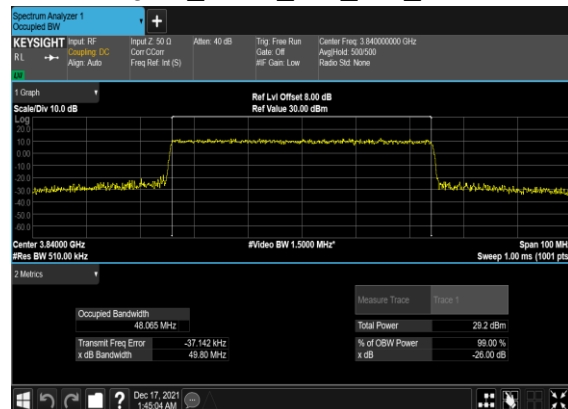
N77(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



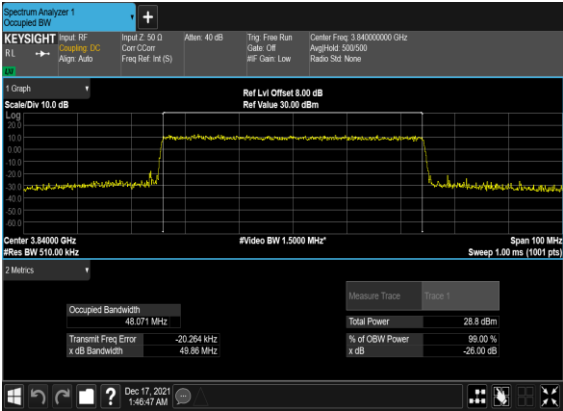
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



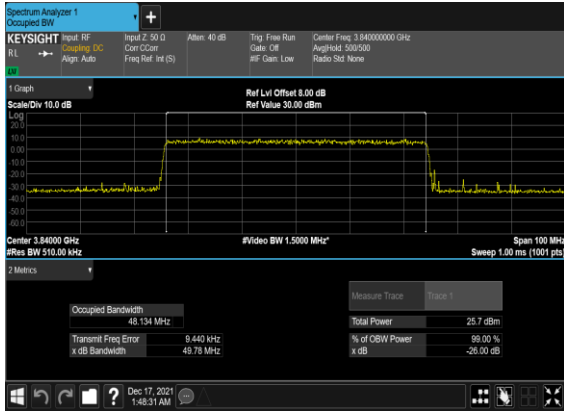
N77(50M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

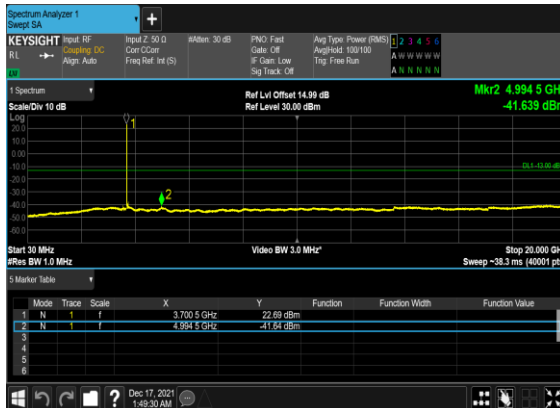


Conducted Spurious Emissions

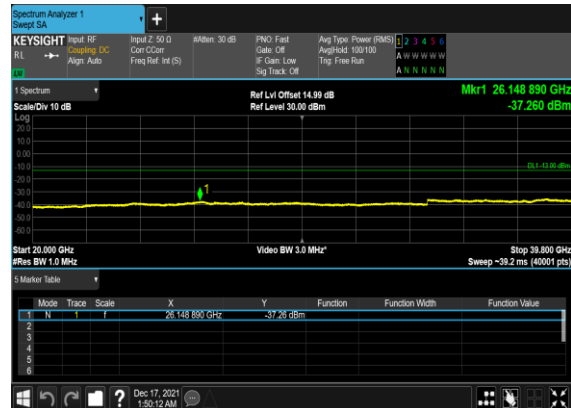
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	647000	3705.0	CP-OFDM QPSK	1@0	see graph	---
77	15	10	647000	3705.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	647000	3705.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---
77	15	10	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	665000	3975.0	CP-OFDM QPSK	1@0	see graph	---
77	15	10	665000	3975.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	665000	3975.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	---
77	15	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---
77	15	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	---
77	15	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	CP-OFDM QPSK	1@0	see graph	---
77	15	50	648334	3725.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---

77	15	50	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	CP-OFDM QPSK	1@0	see graph	---
77	15	50	663666	3954.99	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	663666	3954.99	CP-OFDM QPSK	1@0	see graph	PASS

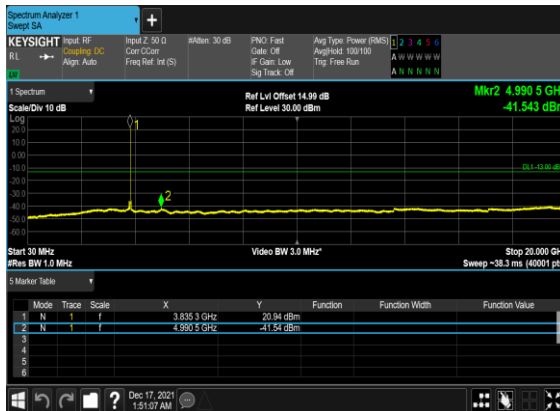
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



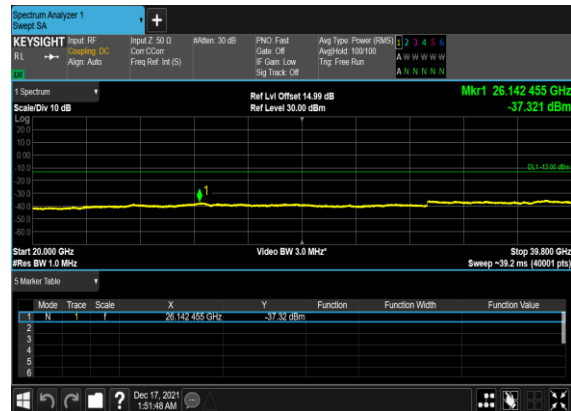
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



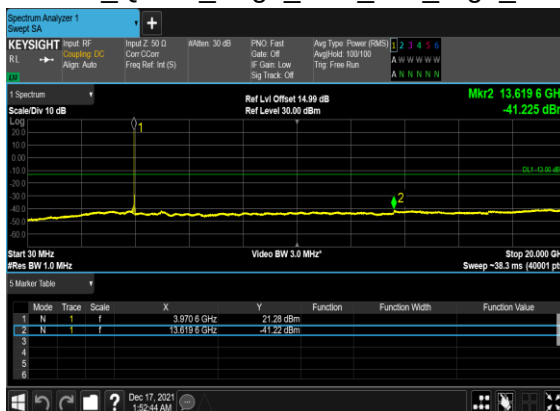
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



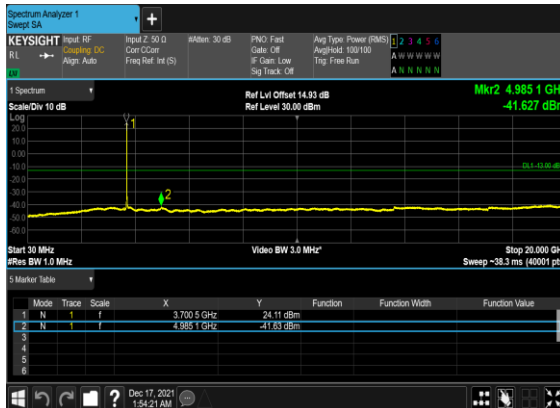
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



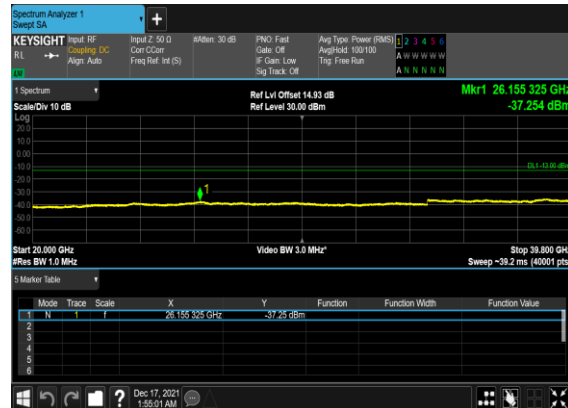
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



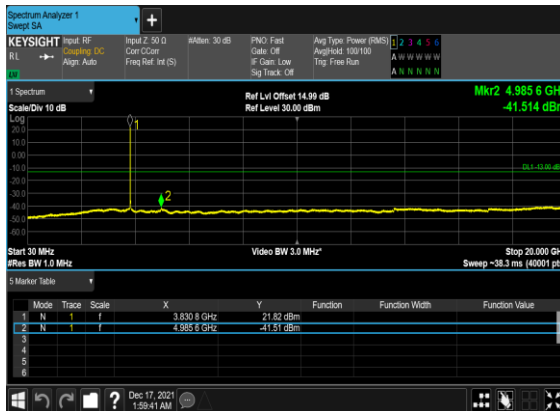
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



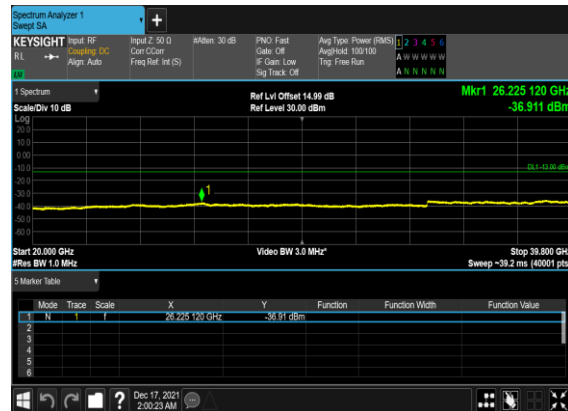
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



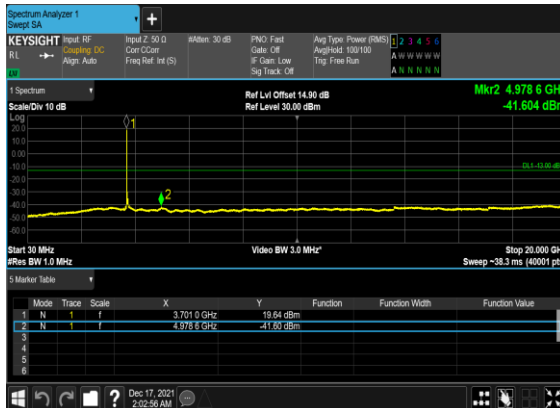
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



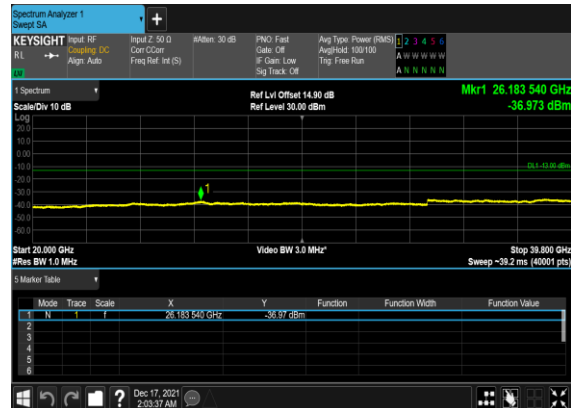
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



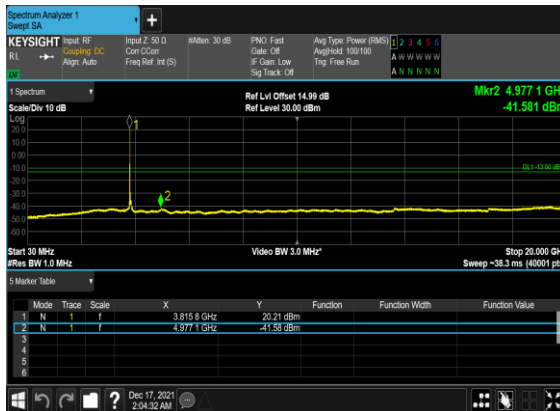
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



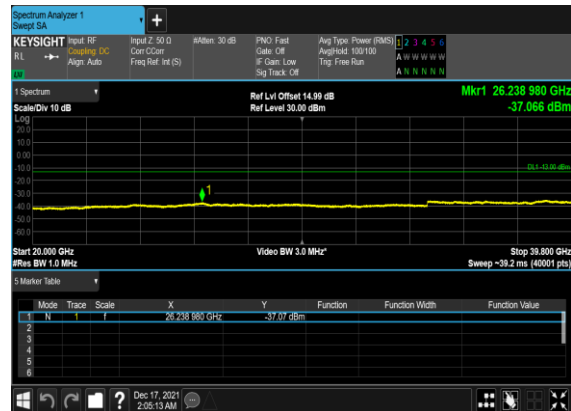
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



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



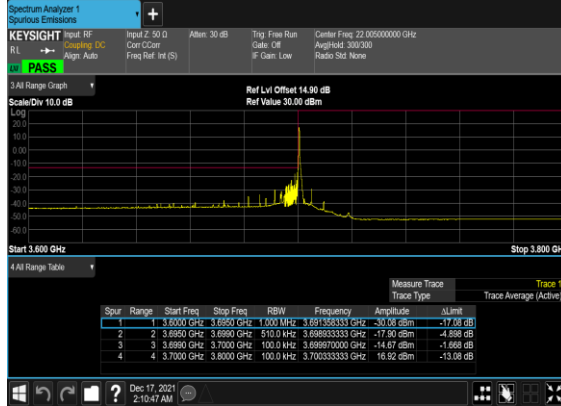
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	647000	3705.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	647000	3705.0	CP-OFDM QPSK	52@0	see graph	PASS
77	15	10	665000	3975.0	CP-OFDM QPSK	1@51	see graph	PASS
77	15	10	665000	3975.0	CP-OFDM QPSK	52@0	see graph	PASS
77	15	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	20	647334	3710.01	CP-OFDM QPSK	106@0	see graph	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	1@105	see graph	PASS
77	15	20	664666	3969.99	CP-OFDM QPSK	106@0	see graph	PASS
77	15	50	648334	3725.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	648334	3725.01	CP-OFDM QPSK	270@0	see graph	PASS
77	15	50	663666	3954.99	CP-OFDM QPSK	1@269	see graph	PASS
77	15	50	663666	3954.99	CP-OFDM QPSK	270@0	see graph	PASS

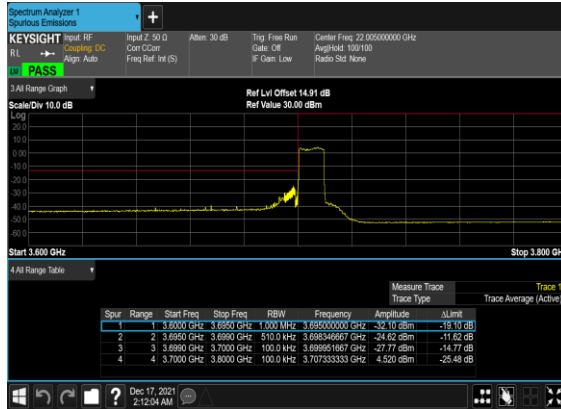
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



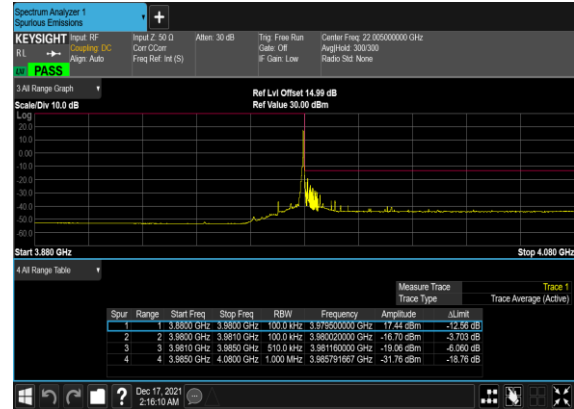
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_P
ASS



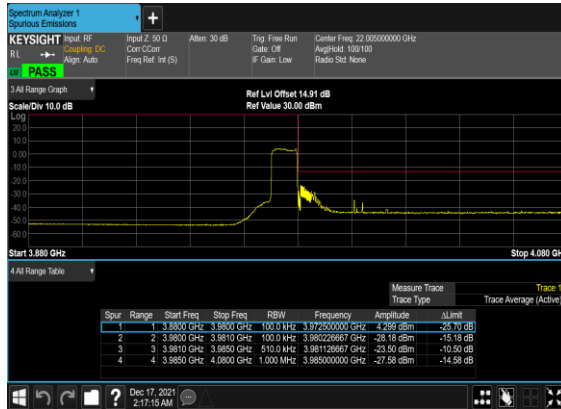
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



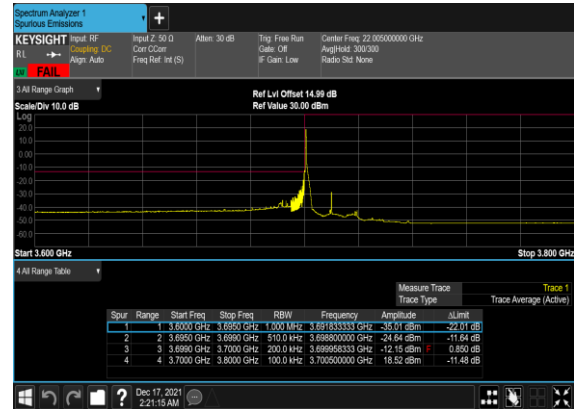
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



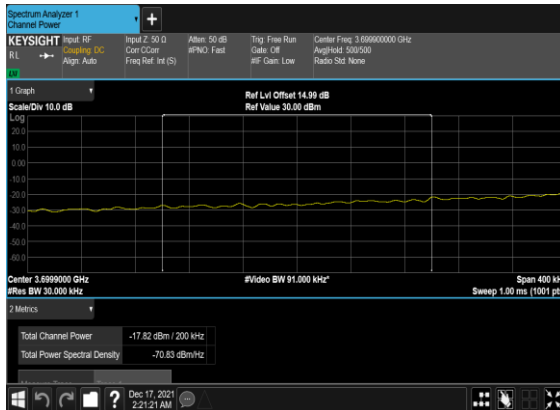
N77(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH



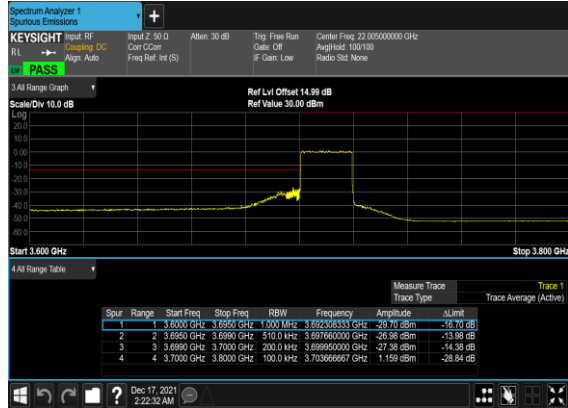
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



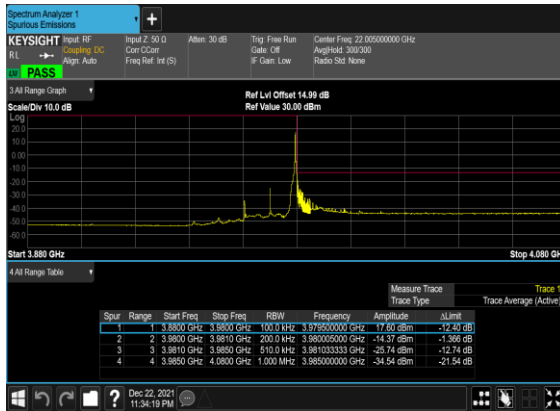
N77(20M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH_chp _PASS



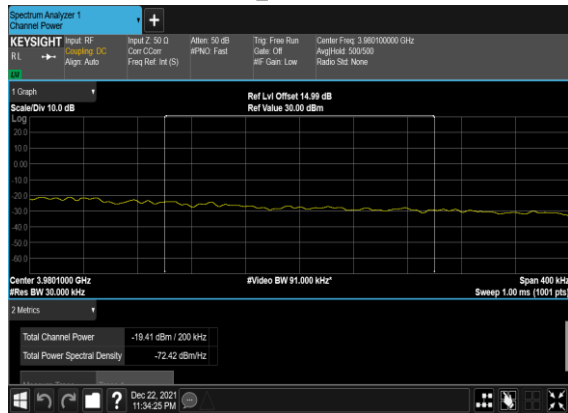
N77(20M)_CP- OFDM_QPSK_Outer_Full_Low_CH



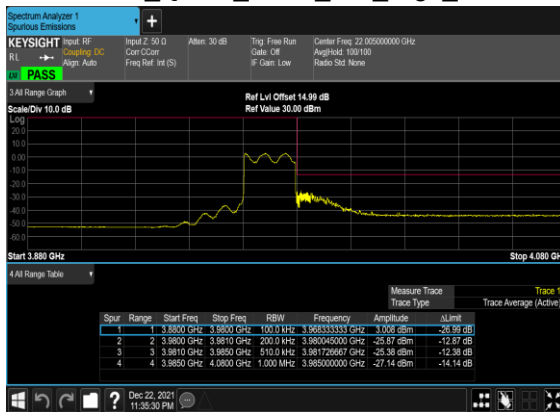
N77(20M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



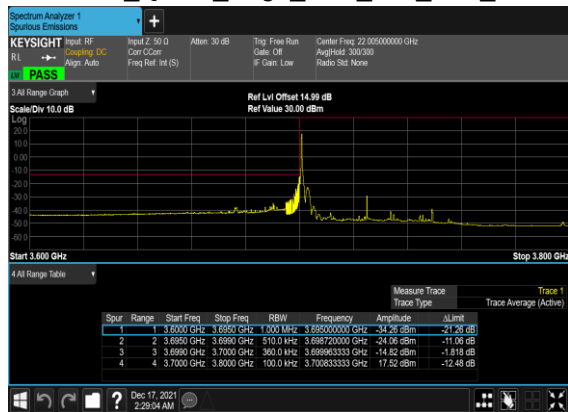
N77(20M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH_chp _PASS



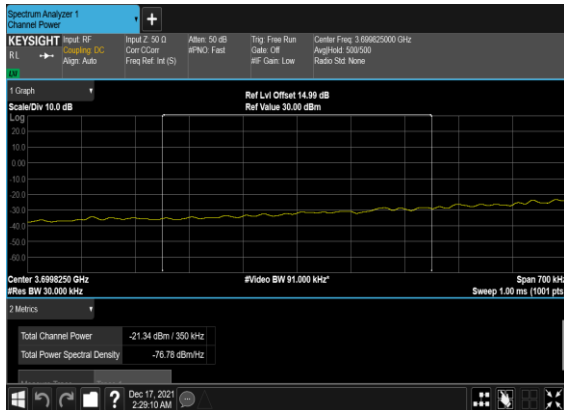
N77(20M)_CP- OFDM_QPSK_Outer_Full_High_CH



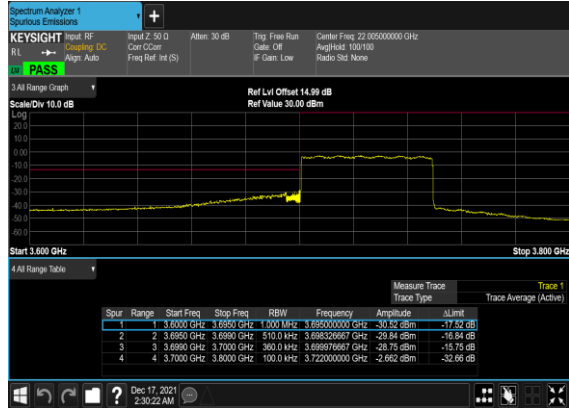
N77(50M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



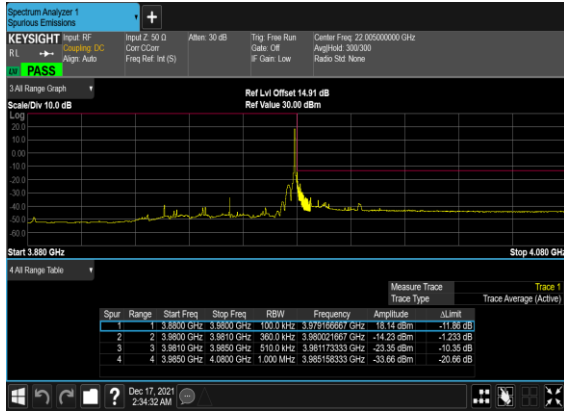
N77(50M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH_chp _PASS



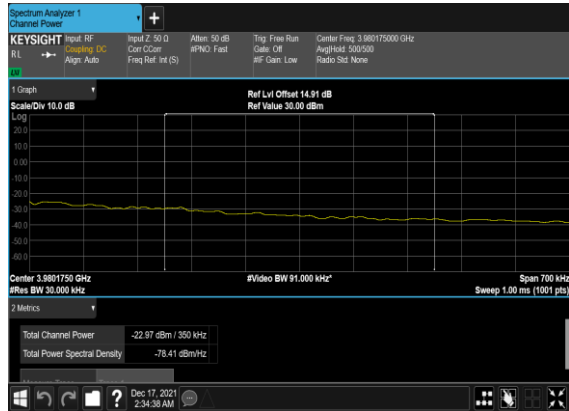
N77(50M)_CP- OFDM_QPSK_Outer_Full_Low_CH



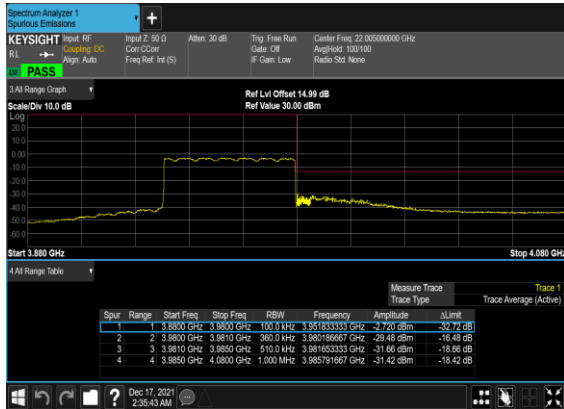
N77(50M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH_chp _PASS



N77(50M)_CP- OFDM_QPSK_Outer_Full_High_CH



FR1 N77(MIMO ANT5+6) – SCS 30kHz

Transmitter Conducted Output Power And EIRP, (GT - LC)=6.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT1 Power(dBm)	ANT2 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	CP-OFDM QPSK	12@6	21.8	22.02	24.92	30.92	1.2364
77	30	10	647000	3705	CP-OFDM QPSK	1@1	21.75	21.96	24.87	30.87	1.2208
77	30	10	647000	3705	CP-OFDM QPSK	1@22	21.74	22	24.88	30.88	1.2252
77	30	10	647000	3705	CP-OFDM 16 QAM	12@6	21.27	21.47	24.38	30.38	1.0918
77	30	10	647000	3705	CP-OFDM 16 QAM	1@1	21.37	21.42	24.41	30.41	1.0978
77	30	10	647000	3705	CP-OFDM 16 QAM	1@22	21.38	21.44	24.42	30.42	1.1016
77	30	10	647000	3705	CP-OFDM 64 QAM	12@6	19.79	19.99	22.90	28.90	0.7765
77	30	10	647000	3705	CP-OFDM 64 QAM	1@1	19.56	19.95	22.77	28.77	0.7533
77	30	10	647000	3705	CP-OFDM 64 QAM	1@22	19.56	19.97	22.78	28.78	0.7551
77	30	10	647000	3705	CP-OFDM 256 QAM	12@6	16.68	16.99	19.85	25.85	0.3844
77	30	10	647000	3705	CP-OFDM 256 QAM	1@1	16.72	17.01	19.88	25.88	0.3871
77	30	10	647000	3705	CP-OFDM 256 QAM	1@22	16.66	17.04	19.86	25.86	0.3859
77	30	10	656000	3840	CP-OFDM QPSK	12@6	21.8	22	24.91	30.91	1.2335
77	30	10	656000	3840	CP-OFDM QPSK	1@1	21.73	21.96	24.86	30.86	1.2181
77	30	10	656000	3840	CP-OFDM QPSK	1@22	21.73	22.02	24.89	30.89	1.2268
77	30	10	656000	3840	CP-OFDM 16 QAM	12@6	21.23	21.51	24.38	30.38	1.0921
77	30	10	656000	3840	CP-OFDM 16 QAM	1@1	21.41	21.55	24.49	30.49	1.1197
77	30	10	656000	3840	CP-OFDM 16 QAM	1@22	21.41	21.63	24.53	30.53	1.1302
77	30	10	656000	3840	CP-OFDM 64 QAM	12@6	19.8	20.23	23.03	29.03	0.7999
77	30	10	656000	3840	CP-OFDM 64 QAM	1@1	19.57	20.17	22.89	28.89	0.7746
77	30	10	656000	3840	CP-OFDM 64 QAM	1@22	19.63	20.23	22.95	28.95	0.7854
77	30	10	656000	3840	CP-OFDM 256 QAM	12@6	16.74	17.16	19.97	25.97	0.3949
77	30	10	656000	3840	CP-OFDM 256 QAM	1@1	16.65	17.06	19.87	25.87	0.3864
77	30	10	656000	3840	CP-OFDM 256 QAM	1@22	16.63	17.18	19.92	25.92	0.3912
77	30	10	665000	3975	CP-OFDM QPSK	12@6	21.89	22.41	25.17	31.17	1.3086
77	30	10	665000	3975	CP-OFDM QPSK	1@1	21.81	22.26	25.05	31.05	1.2738
77	30	10	665000	3975	CP-OFDM QPSK	1@22	21.78	22.34	25.08	31.08	1.2821
77	30	10	665000	3975	CP-OFDM 16 QAM	12@6	21.42	21.78	24.61	30.61	1.1519

77	30	10	665000	3975	CP-OFDM 16 QAM	1@1	21.39	21.72	24.57	30.57	1.1398
77	30	10	665000	3975	CP-OFDM 16 QAM	1@22	21.43	21.83	24.64	30.64	1.1601
77	30	10	665000	3975	CP-OFDM 64 QAM	12@6	19.94	20.35	23.16	29.16	0.8242
77	30	10	665000	3975	CP-OFDM 64 QAM	1@1	19.76	20.27	23.03	29.03	0.8003
77	30	10	665000	3975	CP-OFDM 64 QAM	1@22	19.78	20.38	23.10	29.10	0.8130
77	30	10	665000	3975	CP-OFDM 256 QAM	12@6	16.91	17.32	20.13	26.13	0.4102
77	30	10	665000	3975	CP-OFDM 256 QAM	1@1	16.84	17.2	20.03	26.03	0.4012
77	30	10	665000	3975	CP-OFDM 256 QAM	1@22	16.79	17.33	20.08	26.08	0.4054
77	30	15	647168	3975	CP-OFDM QPSK	19@9	20.49	20.86	23.69	29.69	0.9309
77	30	15	647168	3975	CP-OFDM QPSK	1@1	21.82	22.25	25.05	31.05	1.2737
77	30	15	647168	3975	CP-OFDM QPSK	1@36	21.81	22.27	25.06	31.06	1.2754
77	30	15	647168	3975	CP-OFDM 16 QAM	19@9	20.54	20.84	23.70	29.70	0.9339
77	30	15	647168	3975	CP-OFDM 16 QAM	1@1	21.56	21.8	24.69	30.69	1.1727
77	30	15	647168	3975	CP-OFDM 16 QAM	1@36	21.48	21.81	24.66	30.66	1.1637
77	30	15	647168	3975	CP-OFDM 64 QAM	19@9	19.94	20.42	23.20	29.20	0.8312
77	30	15	647168	3975	CP-OFDM 64 QAM	1@1	19.82	20.34	23.10	29.10	0.8125
77	30	15	647168	3975	CP-OFDM 64 QAM	1@36	19.81	20.33	23.09	29.09	0.8106
77	30	15	647168	3707.52	CP-OFDM 256 QAM	19@9	16.68	16.98	19.84	25.84	0.3840
77	30	15	647168	3707.52	CP-OFDM 256 QAM	1@1	16.59	16.91	19.76	25.76	0.3770
77	30	15	647168	3707.52	CP-OFDM 256 QAM	1@36	16.52	16.99	19.77	25.77	0.3777
77	30	15	656000	3707.52	CP-OFDM QPSK	19@9	21.76	22.08	24.93	30.93	1.2397
77	30	15	656000	3707.52	CP-OFDM QPSK	1@1	21.74	21.95	24.86	30.86	1.2180
77	30	15	656000	3707.52	CP-OFDM QPSK	1@36	21.75	22.05	24.91	30.91	1.2339
77	30	15	656000	3840	CP-OFDM 16 QAM	19@9	21.31	21.71	24.52	30.52	1.1285
77	30	15	656000	3840	CP-OFDM 16 QAM	1@1	21.38	21.54	24.47	30.47	1.1146
77	30	15	656000	3840	CP-OFDM 16 QAM	1@36	21.28	21.79	24.55	30.55	1.1357
77	30	15	656000	3840	CP-OFDM 64 QAM	19@9	19.76	20.27	23.03	29.03	0.8003
77	30	15	656000	3840	CP-OFDM 64 QAM	1@1	20.01	20.13	23.08	29.08	0.8092
77	30	15	656000	3840	CP-OFDM 64 QAM	1@36	20.03	20.34	23.20	29.20	0.8314
77	30	15	656000	3840	CP-OFDM 256 QAM	19@9	16.8	17.19	20.01	26.01	0.3990
77	30	15	656000	3840	CP-OFDM 256 QAM	1@1	16.58	17.1	19.86	25.86	0.3853
77	30	15	656000	3840	CP-OFDM 256 QAM	1@36	16.66	17.33	20.02	26.02	0.3998
77	30	15	664832	3972.48	CP-OFDM QPSK	19@9	21.88	22.34	25.13	31.13	1.2961
77	30	15	664832	3972.48	CP-OFDM QPSK	1@1	21.7	22.19	24.96	30.96	1.2480

77	30	15	664832	3972.48	CP-OFDM QPSK	1@36	21.64	22.35	25.02	31.02	1.2647
77	30	15	664832	3972.48	CP-OFDM 16 QAM	19@9	21.28	21.87	24.60	30.60	1.1469
77	30	15	664832	3972.48	CP-OFDM 16 QAM	1@1	21.37	21.65	24.52	30.52	1.1279
77	30	15	664832	3972.48	CP-OFDM 16 QAM	1@36	21.35	21.8	24.59	30.59	1.1458
77	30	15	664832	3972.48	CP-OFDM 64 QAM	19@9	19.84	20.32	23.10	29.10	0.8123
77	30	15	664832	3972.48	CP-OFDM 64 QAM	1@1	19.76	20.23	23.01	29.01	0.7965
77	30	15	664832	3972.48	CP-OFDM 64 QAM	1@36	19.77	20.37	23.09	29.09	0.8111
77	30	15	664832	3972.48	CP-OFDM 256 QAM	19@9	16.91	17.25	20.09	26.09	0.4068
77	30	15	664832	3972.48	CP-OFDM 256 QAM	1@1	16.77	17.16	19.98	25.98	0.3962
77	30	15	664832	3972.48	CP-OFDM 256 QAM	1@36	16.74	17.3	20.04	26.04	0.4017
77	30	20	647334	3972.48	CP-OFDM QPSK	25@12	21.92	22.32	25.13	31.13	1.2986
77	30	20	647334	3972.48	CP-OFDM QPSK	1@1	21.64	22.09	24.88	30.88	1.2249
77	30	20	647334	3972.48	CP-OFDM QPSK	1@49	21.71	22.14	24.94	30.94	1.2418
77	30	20	647334	3972.48	CP-OFDM 16 QAM	25@12	21.3	21.84	24.59	30.59	1.1452
77	30	20	647334	3972.48	CP-OFDM 16 QAM	1@1	21.31	21.64	24.49	30.49	1.1190
77	30	20	647334	3710.01	CP-OFDM 16 QAM	1@49	21.33	21.39	24.37	30.37	1.0890
77	30	20	647334	3710.01	CP-OFDM 64 QAM	25@12	19.76	20.06	22.92	28.92	0.7803
77	30	20	647334	3710.01	CP-OFDM 64 QAM	1@1	19.48	19.93	22.72	28.72	0.7449
77	30	20	647334	3710.01	CP-OFDM 64 QAM	1@49	19.51	19.98	22.76	28.76	0.7519
77	30	20	647334	3710.01	CP-OFDM 256 QAM	25@12	16.65	16.92	19.80	25.80	0.3800
77	30	20	647334	3710.01	CP-OFDM 256 QAM	1@1	16.46	16.81	19.65	25.65	0.3672
77	30	20	647334	3710.01	CP-OFDM 256 QAM	1@49	16.57	16.88	19.74	25.74	0.3748
77	30	20	656000	3840	CP-OFDM QPSK	25@12	21.72	22.24	25.00	31.00	1.2584
77	30	20	656000	3840	CP-OFDM QPSK	1@1	21.61	22.05	24.85	30.85	1.2150
77	30	20	656000	3840	CP-OFDM QPSK	1@49	21.68	22.19	24.95	30.95	1.2453
77	30	20	656000	3840	CP-OFDM 16 QAM	25@12	21.29	21.74	24.53	30.53	1.1301
77	30	20	656000	3840	CP-OFDM 16 QAM	1@1	21.28	21.55	24.43	30.43	1.1034
77	30	20	656000	3840	CP-OFDM 16 QAM	1@49	21.32	21.71	24.53	30.53	1.1297
77	30	20	656000	3840	CP-OFDM 64 QAM	25@12	19.79	20.27	23.05	29.05	0.8030
77	30	20	656000	3840	CP-OFDM 64 QAM	1@1	19.52	20.1	22.83	28.83	0.7638
77	30	20	656000	3840	CP-OFDM 64 QAM	1@49	19.64	20.2	22.94	28.94	0.7833
77	30	20	656000	3840	CP-OFDM 256 QAM	25@12	16.73	17.14	19.95	25.95	0.3936
77	30	20	656000	3840	CP-OFDM 256 QAM	1@1	16.58	16.99	19.80	25.80	0.3802
77	30	20	656000	3840	CP-OFDM 256 QAM	1@49	16.6	17.15	19.89	25.89	0.3885

77	30	20	664666	3969.99	CP-OFDM QPSK	25@12	21.83	22.3	25.08	31.08	1.2828
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	21.69	22.15	24.94	30.94	1.2406
77	30	20	664666	3969.99	CP-OFDM QPSK	1@49	21.69	22.23	24.98	30.98	1.2528
77	30	20	664666	3969.99	CP-OFDM 16 QAM	25@12	21.29	21.81	24.57	30.57	1.1397
77	30	20	664666	3969.99	CP-OFDM 16 QAM	1@1	21.28	21.61	24.46	30.46	1.1113
77	30	20	664666	3969.99	CP-OFDM 16 QAM	1@49	21.46	21.68	24.58	30.58	1.1433
77	30	20	664666	3969.99	CP-OFDM 64 QAM	25@12	19.96	20.34	23.16	29.16	0.8250
77	30	20	664666	3969.99	CP-OFDM 64 QAM	1@1	19.87	20.15	23.02	29.02	0.7985
77	30	20	664666	3969.99	CP-OFDM 64 QAM	1@49	19.91	20.31	23.12	29.12	0.8175
77	30	20	664666	3969.99	CP-OFDM 256 QAM	25@12	16.82	17.17	20.01	26.01	0.3989
77	30	20	664666	3969.99	CP-OFDM 256 QAM	1@1	16.75	17.11	19.94	25.94	0.3930
77	30	20	664666	3969.99	CP-OFDM 256 QAM	1@49	16.76	17.13	19.96	25.96	0.3944
77	30	40	648000	3969.99	CP-OFDM QPSK	53@26	21.73	22.26	25.01	31.01	1.2628
77	30	40	648000	3969.99	CP-OFDM QPSK	1@1	21.67	22.09	24.90	30.90	1.2290
77	30	40	648000	3969.99	CP-OFDM QPSK	1@104	21.31	21.93	24.64	30.64	1.1591
77	30	40	648000	3969.99	CP-OFDM 16 QAM	53@26	21.26	21.69	24.49	30.49	1.1196
77	30	40	648000	3969.99	CP-OFDM 16 QAM	1@1	20.99	21.18	24.10	30.10	1.0224
77	30	40	648000	3969.99	CP-OFDM 16 QAM	1@104	20.93	21.37	24.17	30.17	1.0389
77	30	40	648000	3720	CP-OFDM 64 QAM	53@26	19.61	19.79	22.71	28.71	0.7432
77	30	40	648000	3720	CP-OFDM 64 QAM	1@1	19.13	19.42	22.29	28.29	0.6742
77	30	40	648000	3720	CP-OFDM 64 QAM	1@104	19.18	19.52	22.36	28.36	0.6861
77	30	40	648000	3720	CP-OFDM 256 QAM	53@26	16.56	16.76	19.67	25.67	0.3691
77	30	40	648000	3720	CP-OFDM 256 QAM	1@1	16.19	16.32	19.27	25.27	0.3362
77	30	40	648000	3720	CP-OFDM 256 QAM	1@104	16.26	16.5	19.39	25.39	0.3461
77	30	40	656000	3840	CP-OFDM QPSK	53@26	21.6	22	24.81	30.81	1.2064
77	30	40	656000	3840	CP-OFDM QPSK	1@1	21.13	21.5	24.33	30.33	1.0788
77	30	40	656000	3840	CP-OFDM QPSK	1@104	21.37	21.68	24.54	30.54	1.1319
77	30	40	656000	3840	CP-OFDM 16 QAM	53@26	21.24	21.47	24.37	30.37	1.0881
77	30	40	656000	3840	CP-OFDM 16 QAM	1@1	20.8	20.99	23.91	29.91	0.9787
77	30	40	656000	3840	CP-OFDM 16 QAM	1@104	20.93	21.2	24.08	30.08	1.0180
77	30	40	656000	3840	CP-OFDM 64 QAM	53@26	19.73	19.95	22.85	28.85	0.7677
77	30	40	656000	3840	CP-OFDM 64 QAM	1@1	19.1	19.57	22.35	28.35	0.6842
77	30	40	656000	3840	CP-OFDM 64 QAM	1@104	19.34	19.78	22.58	28.58	0.7204
77	30	40	656000	3840	CP-OFDM 256 QAM	53@26	16.69	16.96	19.84	25.84	0.3835

77	30	40	656000	3840	CP-OFDM 256 QAM	1@1	16.18	16.49	19.35	25.35	0.3426
77	30	40	656000	3840	CP-OFDM 256 QAM	1@104	16.47	16.7	19.60	25.60	0.3628
77	30	40	664000	3960	CP-OFDM QPSK	53@26	21.92	22	24.97	30.97	1.2504
77	30	40	664000	3960	CP-OFDM QPSK	1@1	21.5	21.52	24.52	30.52	1.1273
77	30	40	664000	3960	CP-OFDM QPSK	1@104	21.37	21.77	24.58	30.58	1.1442
77	30	40	664000	3960	CP-OFDM 16 QAM	53@26	21.42	21.54	24.49	30.49	1.1196
77	30	40	664000	3960	CP-OFDM 16 QAM	1@1	21.13	21.01	24.08	30.08	1.0188
77	30	40	664000	3960	CP-OFDM 16 QAM	1@104	20.97	21.27	24.13	30.13	1.0311
77	30	40	664000	3960	CP-OFDM 64 QAM	53@26	20.02	20	23.02	29.02	0.7981
77	30	40	664000	3960	CP-OFDM 64 QAM	1@1	19.59	19.6	22.61	28.61	0.7253
77	30	40	664000	3960	CP-OFDM 64 QAM	1@104	19.47	19.85	22.67	28.67	0.7370
77	30	40	664000	3960	CP-OFDM 256 QAM	53@26	16.91	16.95	19.94	25.94	0.3927
77	30	40	664000	3960	CP-OFDM 256 QAM	1@1	16.6	16.49	19.56	25.56	0.3594
77	30	40	664000	3960	CP-OFDM 256 QAM	1@104	16.51	16.79	19.66	25.66	0.3683
77	30	50	648334	3725.01	CP-OFDM QPSK	67@33	21.75	21.77	24.77	30.77	1.1941
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	21.65	21.53	24.60	30.60	1.1483
77	30	50	648334	3725.01	CP-OFDM QPSK	1@131	21.62	21.69	24.67	30.67	1.1656
77	30	50	648334	3725.01	CP-OFDM 16 QAM	67@33	21.23	21.24	24.25	30.25	1.0581
77	30	50	648334	3725.01	CP-OFDM 16 QAM	1@1	21.15	21.03	24.10	30.10	1.0235
77	30	50	648334	3725.01	CP-OFDM 16 QAM	1@131	21.16	21.22	24.20	30.20	1.0472
77	30	50	648334	3725.01	CP-OFDM 64 QAM	67@33	19.78	19.72	22.76	28.76	0.7517
77	30	50	648334	3725.01	CP-OFDM 64 QAM	1@1	19.48	19.53	22.52	28.52	0.7105
77	30	50	648334	3725.01	CP-OFDM 64 QAM	1@131	19.47	19.72	22.61	28.61	0.7256
77	30	50	648334	3725.01	CP-OFDM 256 QAM	67@33	16.65	16.75	19.71	25.71	0.3724
77	30	50	648334	3725.01	CP-OFDM 256 QAM	1@1	16.57	16.55	19.57	25.57	0.3606
77	30	50	648334	3725.01	CP-OFDM 256 QAM	1@131	16.52	16.79	19.67	25.67	0.3688
77	30	50	656000	3725.01	CP-OFDM QPSK	67@33	21.75	21.72	24.75	30.75	1.1872
77	30	50	656000	3725.01	CP-OFDM QPSK	1@1	21.6	21.49	24.56	30.56	1.1365
77	30	50	656000	3725.01	CP-OFDM QPSK	1@131	21.6	21.69	24.66	30.66	1.1629
77	30	50	656000	3840	CP-OFDM 16 QAM	67@33	21.29	21.56	24.44	30.44	1.1060
77	30	50	656000	3840	CP-OFDM 16 QAM	1@1	21.2	21.19	24.21	30.21	1.0484
77	30	50	656000	3840	CP-OFDM 16 QAM	1@131	21.3	21.44	24.38	30.38	1.0917
77	30	50	656000	3840	CP-OFDM 64 QAM	67@33	19.82	20	22.92	28.92	0.7801
77	30	50	656000	3840	CP-OFDM 64 QAM	1@1	19.4	19.79	22.61	28.61	0.7261

77	30	50	656000	3840	CP-OFDM 64 QAM	1@131	19.63	20	22.83	28.83	0.7637
77	30	50	656000	3840	CP-OFDM 256 QAM	67@33	16.76	17	19.89	25.89	0.3883
77	30	50	656000	3840	CP-OFDM 256 QAM	1@1	16.56	16.75	19.67	25.67	0.3687
77	30	50	656000	3840	CP-OFDM 256 QAM	1@131	16.81	17.08	19.96	25.96	0.3942
77	30	50	663666	3954.99	CP-OFDM QPSK	67@33	21.92	22.01	24.98	30.98	1.2519
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	21.73	21.75	24.75	30.75	1.1886
77	30	50	663666	3954.99	CP-OFDM QPSK	1@131	21.67	22.02	24.86	30.86	1.2187
77	30	50	663666	3954.99	CP-OFDM 16 QAM	67@33	21.45	21.52	24.50	30.50	1.1208
77	30	50	663666	3954.99	CP-OFDM 16 QAM	1@1	21.35	21.21	24.29	30.29	1.0693
77	30	50	663666	3954.99	CP-OFDM 16 QAM	1@131	21.24	21.47	24.37	30.37	1.0881
77	30	50	663666	3954.99	CP-OFDM 64 QAM	67@33	20.04	19.98	23.02	29.02	0.7981
77	30	50	663666	3954.99	CP-OFDM 64 QAM	1@1	19.72	19.78	22.76	28.76	0.7517
77	30	50	663666	3954.99	CP-OFDM 64 QAM	1@131	19.65	20.04	22.86	28.86	0.7691
77	30	50	663666	3954.99	CP-OFDM 256 QAM	67@33	16.97	16.94	19.97	25.97	0.3949
77	30	50	663666	3954.99	CP-OFDM 256 QAM	1@1	16.88	16.85	19.88	25.88	0.3868
77	30	50	663666	3954.99	CP-OFDM 256 QAM	1@131	16.82	17.02	19.93	25.93	0.3919
77	30	60	648668	3730.02	CP-OFDM QPSK	81@40	21.77	21.71	24.75	30.75	1.1886
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	21.46	21.25	24.37	30.37	1.0881
77	30	60	648668	3730.02	CP-OFDM QPSK	1@160	21.4	21.56	24.49	30.49	1.1197
77	30	60	648668	3730.02	CP-OFDM 16 QAM	81@40	21.27	21.21	24.25	30.25	1.0594
77	30	60	648668	3730.02	CP-OFDM 16 QAM	1@1	21.05	20.72	23.90	29.90	0.9769
77	30	60	648668	3730.02	CP-OFDM 16 QAM	1@160	21.02	21.04	24.04	30.04	1.0093
77	30	60	648668	3730.02	CP-OFDM 64 QAM	81@40	19.71	19.68	22.71	28.71	0.7422
77	30	60	648668	3730.02	CP-OFDM 64 QAM	1@1	19.26	19.28	22.28	28.28	0.6730
77	30	60	648668	3730.02	CP-OFDM 64 QAM	1@160	19.25	19.61	22.44	28.44	0.6989
77	30	60	648668	3730.02	CP-OFDM 256 QAM	81@40	16.66	16.68	19.68	25.68	0.3699
77	30	60	648668	3730.02	CP-OFDM 256 QAM	1@1	16.41	16.21	19.32	25.32	0.3405
77	30	60	648668	3730.02	CP-OFDM 256 QAM	1@160	16.34	16.55	19.46	25.46	0.3513
77	30	60	656000	3730.02	CP-OFDM QPSK	81@40	21.75	21.73	24.75	30.75	1.1886
77	30	60	656000	3730.02	CP-OFDM QPSK	1@1	21.45	21.2	24.34	30.34	1.0807
77	30	60	656000	3730.02	CP-OFDM QPSK	1@160	21.42	21.53	24.49	30.49	1.1183
77	30	60	656000	3730.02	CP-OFDM 16 QAM	81@40	21.27	21.25	24.27	30.27	1.0642
77	30	60	656000	3730.02	CP-OFDM 16 QAM	1@1	21.05	20.73	23.90	29.90	0.9780
77	30	60	656000	3730.02	CP-OFDM 16 QAM	1@160	21.01	21.07	24.05	30.05	1.0117

77	30	60	656000	3730.02	CP-OFDM 64 QAM	81@40	19.74	19.68	22.72	28.72	0.7448
77	30	60	656000	3730.02	CP-OFDM 64 QAM	1@1	19.83	19.53	22.69	28.69	0.7401
77	30	60	656000	3730.02	CP-OFDM 64 QAM	1@160	19.83	19.63	22.74	28.74	0.7484
77	30	60	656000	3840	CP-OFDM 256 QAM	81@40	16.75	16.91	19.84	25.84	0.3838
77	30	60	656000	3840	CP-OFDM 256 QAM	1@1	16.18	16.39	19.30	25.30	0.3386
77	30	60	656000	3840	CP-OFDM 256 QAM	1@160	16.59	16.72	19.67	25.67	0.3686
77	30	60	663332	3949.98	CP-OFDM QPSK	81@40	21.99	21.98	25.00	31.00	1.2576
77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	21.44	21.51	24.49	30.49	1.1183
77	30	60	663332	3949.98	CP-OFDM QPSK	1@160	21.55	21.86	24.72	30.72	1.1798
77	30	60	663332	3949.98	CP-OFDM 16 QAM	81@40	21.51	21.52	24.53	30.53	1.1286
77	30	60	663332	3949.98	CP-OFDM 16 QAM	1@1	21.12	20.92	24.03	30.03	1.0073
77	30	60	663332	3949.98	CP-OFDM 16 QAM	1@160	21.24	21.3	24.28	30.28	1.0667
77	30	60	663332	3949.98	CP-OFDM 64 QAM	81@40	20.11	19.94	23.04	29.04	0.8010
77	30	60	663332	3949.98	CP-OFDM 64 QAM	1@1	19.41	19.5	22.47	28.47	0.7023
77	30	60	663332	3949.98	CP-OFDM 64 QAM	1@160	19.58	19.95	22.78	28.78	0.7550
77	30	60	663332	3949.98	CP-OFDM 256 QAM	81@40	17.07	16.97	20.03	26.03	0.4009
77	30	60	663332	3949.98	CP-OFDM 256 QAM	1@1	16.49	16.45	19.48	25.48	0.3532
77	30	60	663332	3949.98	CP-OFDM 256 QAM	1@160	16.55	16.83	19.70	25.70	0.3718
77	30	80	649334	3740.01	CP-OFDM QPSK	109@54	21.74	21.7	24.73	30.73	1.1831
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	21.33	21.12	24.24	30.24	1.0560
77	30	80	649334	3740.01	CP-OFDM QPSK	1@215	21.26	21.51	24.40	30.40	1.0957
77	30	80	649334	3740.01	CP-OFDM 16 QAM	109@54	21.2	21.18	24.20	30.20	1.0472
77	30	80	649334	3740.01	CP-OFDM 16 QAM	1@1	20.91	20.6	23.77	29.77	0.9480
77	30	80	649334	3740.01	CP-OFDM 16 QAM	1@215	20.81	20.94	23.89	29.89	0.9740
77	30	80	649334	3740.01	CP-OFDM 64 QAM	109@54	19.71	19.6	22.67	28.67	0.7355
77	30	80	649334	3740.01	CP-OFDM 64 QAM	1@1	19.11	19.18	22.16	28.16	0.6539
77	30	80	649334	3740.01	CP-OFDM 64 QAM	1@215	19.06	19.52	22.31	28.31	0.6771
77	30	80	649334	3740.01	CP-OFDM 256 QAM	109@54	16.63	16.61	19.63	25.63	0.3656
77	30	80	649334	3740.01	CP-OFDM 256 QAM	1@1	16.19	16.01	19.11	25.11	0.3244
77	30	80	649334	3740.01	CP-OFDM 256 QAM	1@215	16.03	16.44	19.25	25.25	0.3350
77	30	80	656000	3740.01	CP-OFDM QPSK	109@54	21.71	21.69	24.71	30.71	1.1777
77	30	80	656000	3740.01	CP-OFDM QPSK	1@1	21.36	21.13	24.26	30.26	1.0609
77	30	80	656000	3740.01	CP-OFDM QPSK	1@215	21.22	21.49	24.37	30.37	1.0883
77	30	80	656000	3740.01	CP-OFDM 16 QAM	109@54	21.2	21.2	24.21	30.21	1.0496

77	30	80	656000	3840	CP-OFDM 16 QAM	1@1	20.86	20.78	23.83	29.83	0.9617
77	30	80	656000	3840	CP-OFDM 16 QAM	1@215	20.97	21.1	24.05	30.05	1.0106
77	30	80	656000	3840	CP-OFDM 64 QAM	109@54	19.87	19.92	22.91	28.91	0.7772
77	30	80	656000	3840	CP-OFDM 64 QAM	1@1	19.1	19.4	22.26	28.26	0.6703
77	30	80	656000	3840	CP-OFDM 64 QAM	1@215	19.48	19.65	22.58	28.58	0.7205
77	30	80	656000	3840	CP-OFDM 256 QAM	109@54	16.77	16.92	19.86	25.86	0.3851
77	30	80	656000	3840	CP-OFDM 256 QAM	1@1	16.18	16.34	19.27	25.27	0.3366
77	30	80	656000	3840	CP-OFDM 256 QAM	1@215	16.54	16.66	19.61	25.61	0.3640
77	30	80	662666	3939.99	CP-OFDM QPSK	109@54	21.67	21.98	24.84	30.84	1.2128
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	21.04	21.33	24.20	30.20	1.0466
77	30	80	662666	3939.99	CP-OFDM QPSK	1@215	21.2	21.59	24.41	30.41	1.0989
77	30	80	662666	3939.99	CP-OFDM 16 QAM	109@54	21.42	21.48	24.46	30.46	1.1118
77	30	80	662666	3939.99	CP-OFDM 16 QAM	1@1	20.61	20.79	23.71	29.71	0.9357
77	30	80	662666	3939.99	CP-OFDM 16 QAM	1@215	20.98	21.24	24.12	30.12	1.0285
77	30	80	662666	3939.99	CP-OFDM 64 QAM	109@54	20.05	19.98	23.03	29.03	0.7990
77	30	80	662666	3939.99	CP-OFDM 64 QAM	1@1	19.2	19.36	22.29	28.29	0.6747
77	30	80	662666	3939.99	CP-OFDM 64 QAM	1@215	19.47	19.77	22.63	28.63	0.7299
77	30	80	662666	3939.99	CP-OFDM 256 QAM	109@54	17.02	16.91	19.98	25.98	0.3959
77	30	80	662666	3939.99	CP-OFDM 256 QAM	1@1	16.3	16.31	19.32	25.32	0.3400
77	30	80	662666	3939.99	CP-OFDM 256 QAM	1@215	16.63	16.8	19.73	25.73	0.3738
77	30	90	649668	3745.02	CP-OFDM QPSK	123@61	21.76	21.72	24.75	30.75	1.1886
77	30	90	649668	3745.02	CP-OFDM QPSK	1@1	21.27	20.99	24.14	30.14	1.0334
77	30	90	649668	3745.02	CP-OFDM QPSK	1@243	21.17	21.44	24.32	30.32	1.0758
77	30	90	649668	3745.02	CP-OFDM 16 QAM	123@61	21.23	21.19	24.22	30.22	1.0520
77	30	90	649668	3745.02	CP-OFDM 16 QAM	1@1	20.84	20.46	23.66	29.66	0.9256
77	30	90	649668	3745.02	CP-OFDM 16 QAM	1@243	20.77	20.95	23.87	29.87	0.9708
77	30	90	649668	3745.02	CP-OFDM 64 QAM	123@61	19.71	19.62	22.68	28.68	0.7371
77	30	90	649668	3745.02	CP-OFDM 64 QAM	1@1	19.03	19.09	22.07	28.07	0.6413
77	30	90	649668	3745.02	CP-OFDM 64 QAM	1@243	18.97	19.49	22.25	28.25	0.6680
77	30	90	649668	3745.02	CP-OFDM 256 QAM	123@61	16.63	16.56	19.61	25.61	0.3635
77	30	90	649668	3745.02	CP-OFDM 256 QAM	1@1	16.09	15.85	18.98	24.98	0.3149
77	30	90	649668	3745.02	CP-OFDM 256 QAM	1@243	16.01	16.33	19.18	25.18	0.3299
77	30	90	656000	3840	CP-OFDM QPSK	123@61	21.67	21.98	24.84	30.84	1.2128
77	30	90	656000	3840	CP-OFDM QPSK	1@1	20.8	21.2	24.01	30.01	1.0034

77	30	90	656000	3840	CP-OFDM QPSK	1@243	21.21	21.53	24.38	30.38	1.0923
77	30	90	656000	3840	CP-OFDM 16 QAM	123@61	21.36	21.44	24.41	30.41	1.0991
77	30	90	656000	3840	CP-OFDM 16 QAM	1@1	20.69	20.72	23.72	29.72	0.9366
77	30	90	656000	3840	CP-OFDM 16 QAM	1@243	20.79	21.03	23.92	29.92	0.9822
77	30	90	656000	3840	CP-OFDM 64 QAM	123@61	19.83	19.85	22.85	28.85	0.7674
77	30	90	656000	3840	CP-OFDM 64 QAM	1@1	18.93	19.24	22.10	28.10	0.6454
77	30	90	656000	3840	CP-OFDM 64 QAM	1@243	19.32	19.57	22.46	28.46	0.7010
77	30	90	656000	3840	CP-OFDM 256 QAM	123@61	16.79	16.84	19.83	25.83	0.3824
77	30	90	656000	3840	CP-OFDM 256 QAM	1@1	15.94	16.07	19.02	25.02	0.3174
77	30	90	656000	3840	CP-OFDM 256 QAM	1@243	16.36	16.45	19.42	25.42	0.3480
77	30	90	662332	3934.98	CP-OFDM QPSK	123@61	21.69	21.91	24.81	30.81	1.2055
77	30	90	662332	3934.98	CP-OFDM QPSK	1@1	20.83	21.16	24.01	30.01	1.0019
77	30	90	662332	3934.98	CP-OFDM QPSK	1@243	21.23	21.51	24.38	30.38	1.0921
77	30	90	662332	3934.98	CP-OFDM 16 QAM	123@61	21.31	21.39	24.36	30.36	1.0865
77	30	90	662332	3934.98	CP-OFDM 16 QAM	1@1	20.21	20.21	23.22	29.22	0.8357
77	30	90	662332	3934.98	CP-OFDM 16 QAM	1@243	20.01	20.21	23.12	29.12	0.8169
77	30	90	662332	3934.98	CP-OFDM 64 QAM	123@61	20	20.21	23.12	29.12	0.8159
77	30	90	662332	3934.98	CP-OFDM 64 QAM	1@1	18.94	19.2	22.08	28.08	0.6430
77	30	90	662332	3934.98	CP-OFDM 64 QAM	1@243	19.24	19.59	22.43	28.43	0.6964
77	30	90	662332	3934.98	CP-OFDM 256 QAM	123@61	16.92	16.83	19.89	25.89	0.3878
77	30	90	662332	3934.98	CP-OFDM 256 QAM	1@1	15.99	16.07	19.04	25.04	0.3192
77	30	90	662332	3934.98	CP-OFDM 256 QAM	1@243	16.32	16.5	19.42	25.42	0.3484
77	30	100	650000	3750	CP-OFDM QPSK	137@68	20.46	20.41	23.45	29.45	0.8801
77	30	100	650000	3750	CP-OFDM QPSK	1@1	20.89	21.16	24.04	30.04	1.0086
77	30	100	650000	3750	CP-OFDM QPSK	1@271	21.01	20.95	23.99	29.99	0.9978
77	30	100	650000	3750	CP-OFDM 16 QAM	137@68	20.15	20.11	23.14	29.14	0.8204
77	30	100	650000	3750	CP-OFDM 16 QAM	1@1	20.84	20.43	23.65	29.65	0.9226
77	30	100	650000	3750	CP-OFDM 16 QAM	1@271	20.84	20.46	23.66	29.66	0.9256
77	30	100	650000	3750	CP-OFDM 64 QAM	137@68	19.67	19.61	22.65	28.65	0.7329
77	30	100	650000	3750	CP-OFDM 64 QAM	1@1	19.02	18.99	22.02	28.02	0.6332
77	30	100	650000	3750	CP-OFDM 64 QAM	1@271	19.02	19.01	22.03	28.03	0.6346
77	30	100	650000	3750	CP-OFDM 256 QAM	137@68	16.62	16.59	19.62	25.62	0.3644
77	30	100	650000	3750	CP-OFDM 256 QAM	1@1	15.8	15.81	18.82	24.82	0.3031
77	30	100	650000	3750	CP-OFDM 256 QAM	1@271	15.98	16.19	19.10	25.10	0.3233

77	30	100	656000	3840	CP-OFDM QPSK	137@68	21.64	21.9	24.78	30.78	1.1974
77	30	100	656000	3840	CP-OFDM QPSK	1@1	20.6	20.98	23.80	29.80	0.9560
77	30	100	656000	3840	CP-OFDM QPSK	1@271	20.98	21.32	24.16	30.16	1.0384
77	30	100	656000	3840	CP-OFDM 16 QAM	137@68	21.29	21.35	24.33	30.33	1.0790
77	30	100	656000	3840	CP-OFDM 16 QAM	1@1	20.45	20.49	23.48	29.48	0.8872
77	30	100	656000	3840	CP-OFDM 16 QAM	1@271	20.59	20.86	23.74	29.74	0.9413
77	30	100	656000	3840	CP-OFDM 64 QAM	137@68	19.76	19.88	22.83	28.83	0.7640
77	30	100	656000	3840	CP-OFDM 64 QAM	1@1	18.74	19.07	21.92	27.92	0.6192
77	30	100	656000	3840	CP-OFDM 64 QAM	1@271	19.16	19.36	22.27	28.27	0.6717
77	30	100	656000	3840	CP-OFDM 256 QAM	137@68	16.71	16.85	19.79	25.79	0.3794
77	30	100	656000	3840	CP-OFDM 256 QAM	1@1	16.52	16.21	19.38	25.38	0.3450
77	30	100	656000	3840	CP-OFDM 256 QAM	1@271	16.29	16.42	19.37	25.37	0.3440
77	30	100	662000	3840	CP-OFDM QPSK	137@68	16.63	16.21	19.44	25.44	0.3496

MIMO Gain= Maximum (Ant.5, Ant.6)=6.0dBi

FR1 N77(MIMO ANT5) – SCS 30kHz

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0638	PASS	NV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0488	PASS	LV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0407	PASS	HV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0688	PASS	-30°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0501	PASS	-20°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0614	PASS	-10°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0239	PASS	0°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0319	PASS	10°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0561	PASS	20°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0311	PASS	30°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0656	PASS	40°C
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0051	PASS	50°C

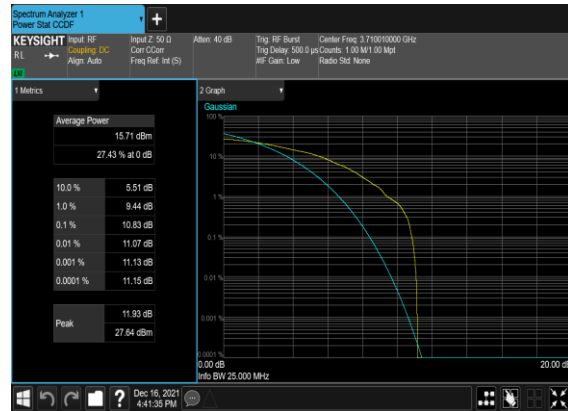
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	CP-OFDM QPSK	51@0	10.72	13	PASS
77	30	20	647334	3710.01	CP-OFDM QPSK	1@0	10.83	13	PASS
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	10.67	13	PASS
77	30	20	656000	3840.0	CP-OFDM QPSK	1@0	10.81	13	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	51@0	10.44	13	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	1@0	10.91	13	PASS

N77(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



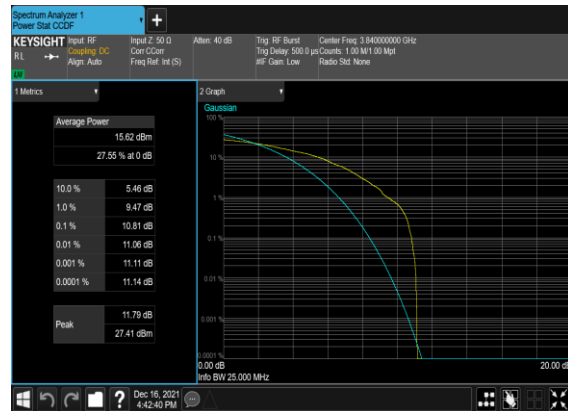
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



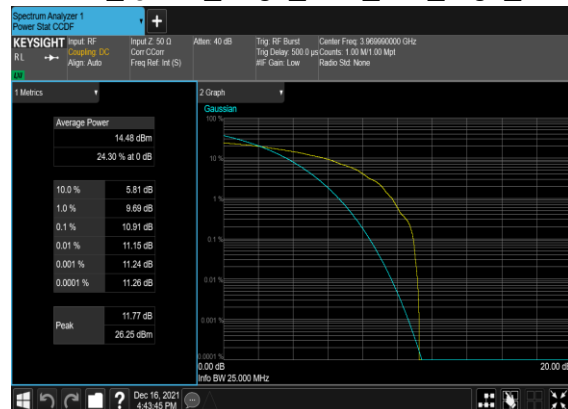
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

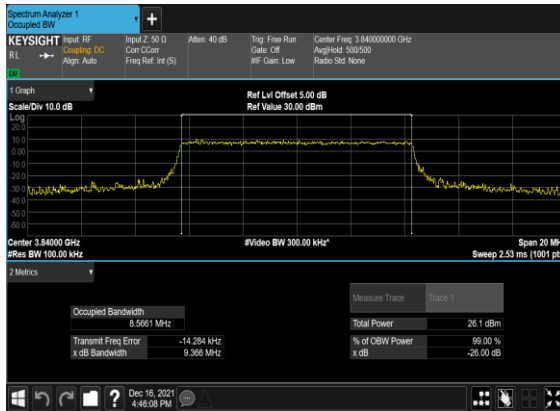


Occupied Bandwidth

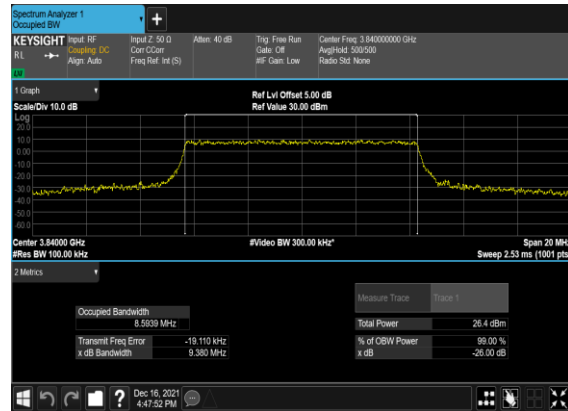
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5661	9.366
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5939	9.38
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5908	9.398
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5679	9.353
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.557	14.53
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.567	14.43
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.565	14.51
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.56	14.63
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.201	19.27
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.158	19.32
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.22	19.34
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.207	19.35
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.786	39.33
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.877	39.24
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.871	39.53
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.746	39.4
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.399	49.71
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.508	49.91
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.421	49.69
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.461	49.42
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.824	59.88
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.965	59.84
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.843	59.81
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.793	59.8
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.381	80.05

77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.409	79.9
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.372	80.12
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.459	79.97
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.456	90.36
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.49	90.36
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.39	90.39
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.253	90.24
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.23	100.3
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.464	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.106	100.4
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.268	100.4

N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



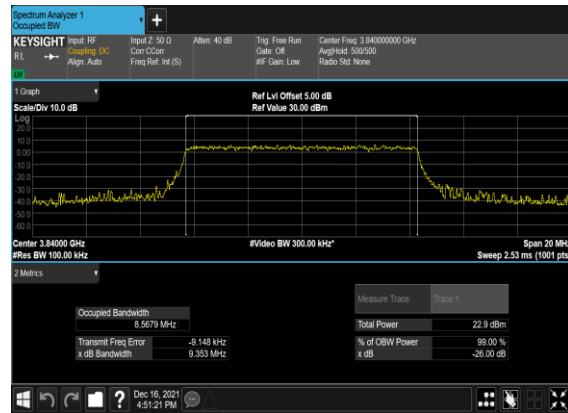
N77(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



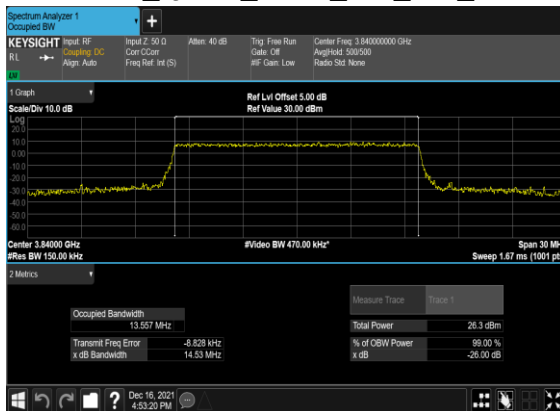
N77(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



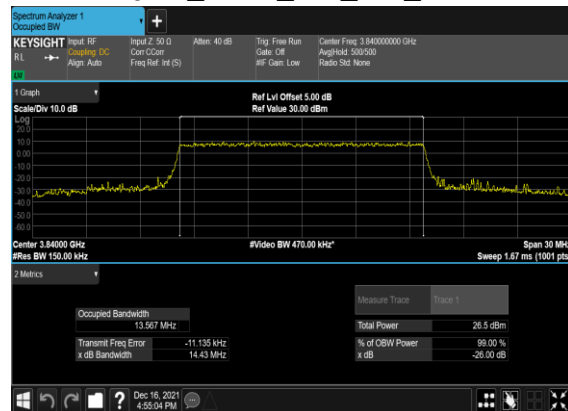
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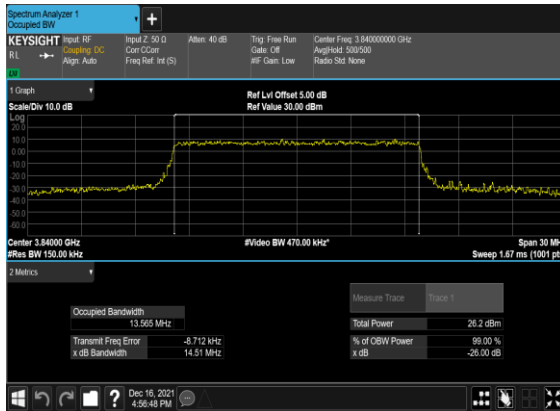
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



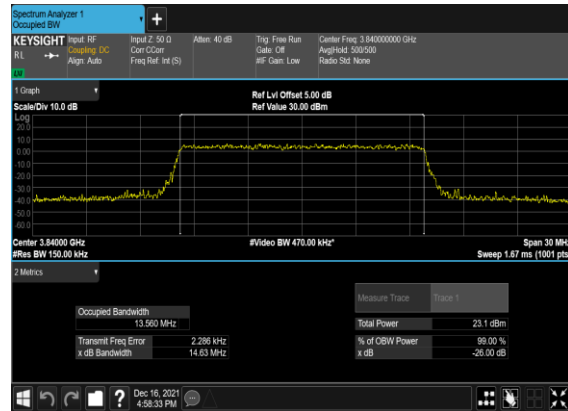
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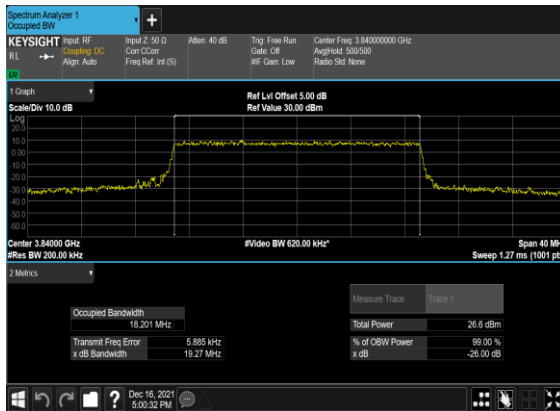
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QAM_Outer_Full_Mid_CH



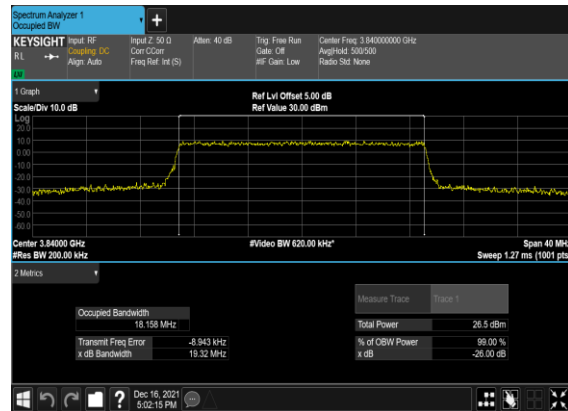
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QAM_Outer_Full_Mid_CH



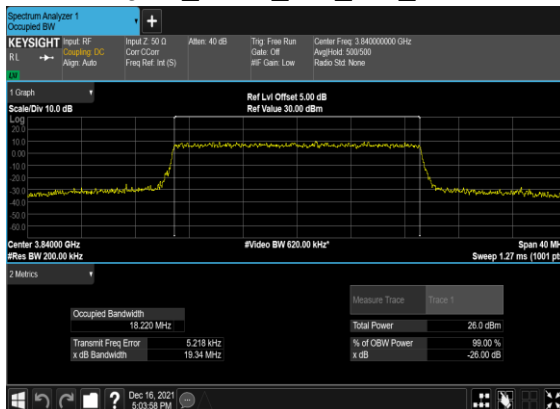
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OFDM_QPSK_Outer_Full_Mid_CH



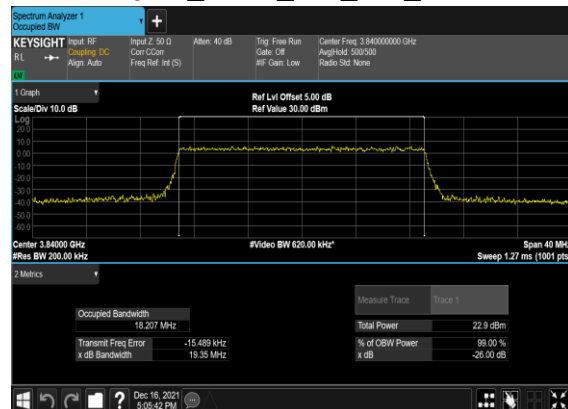
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



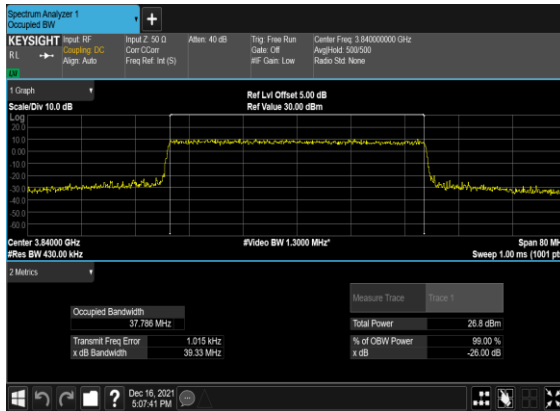
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QAM_Outer_Full_Mid_CH



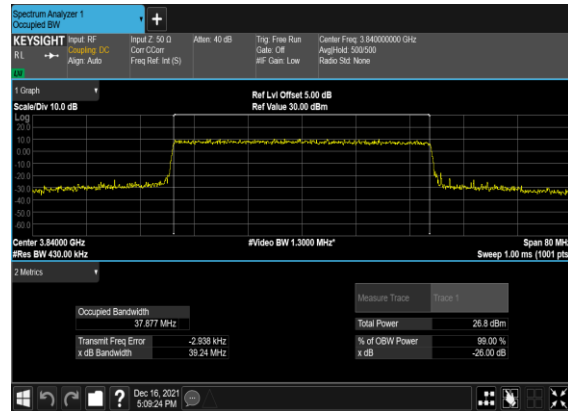
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QAM_Outer_Full_Mid_CH



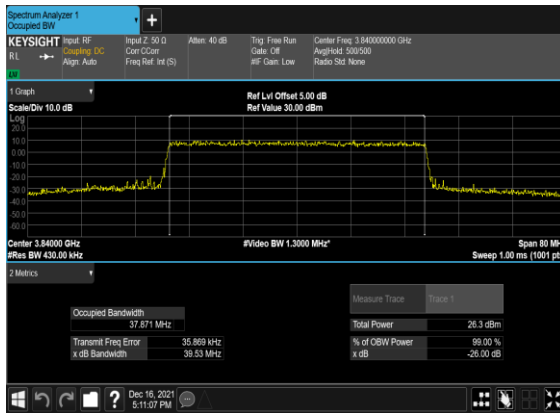
N77(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



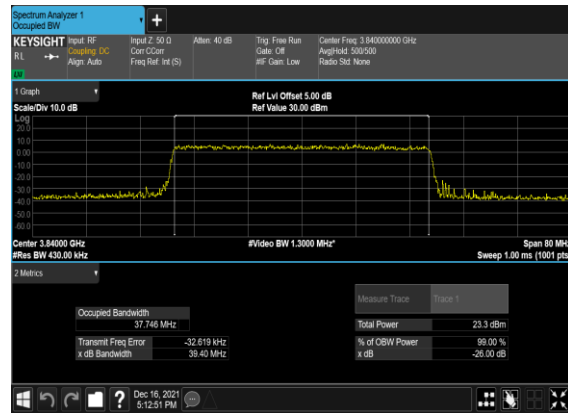
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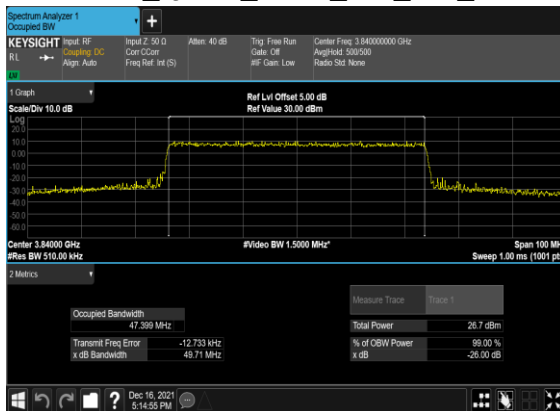
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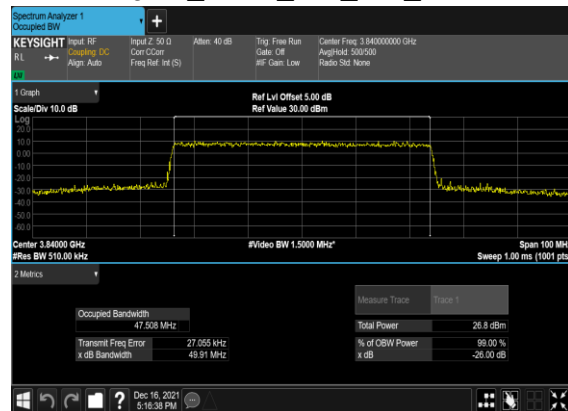
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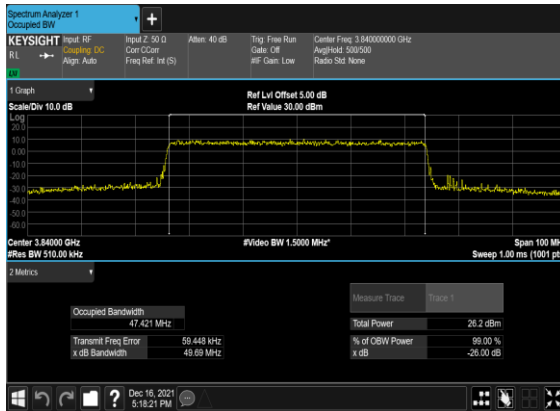
N77(50M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



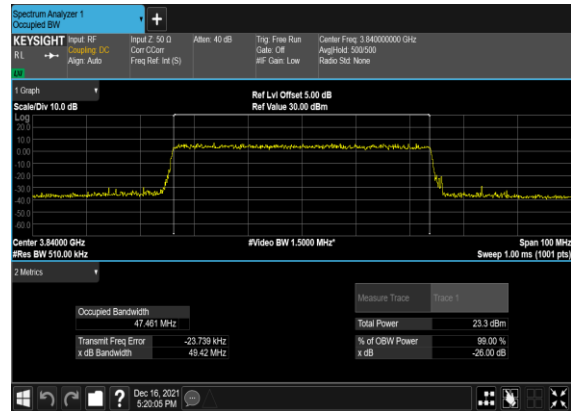
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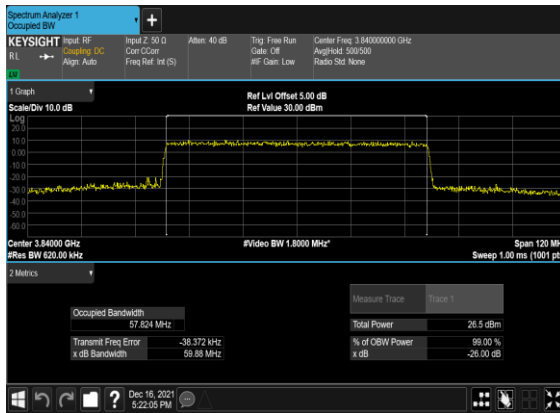
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QAM_Outer_Full_Mid_CH



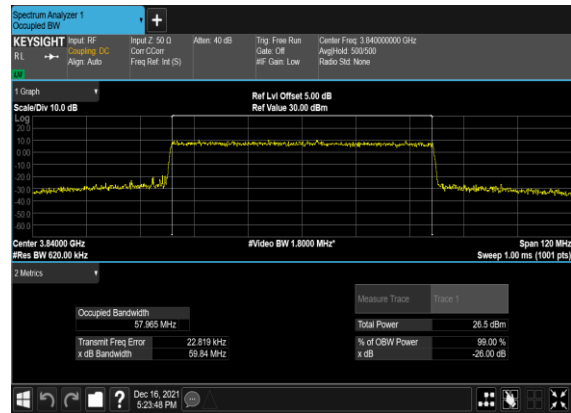
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QAM_Outer_Full_Mid_CH



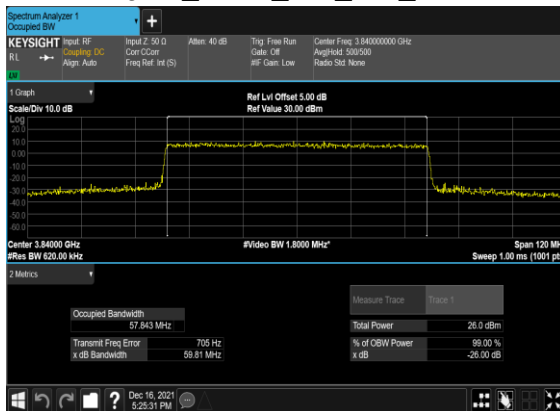
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



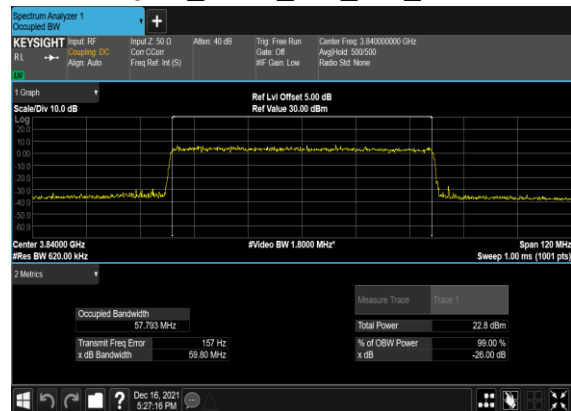
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QAM_Outer_Full_Mid_CH



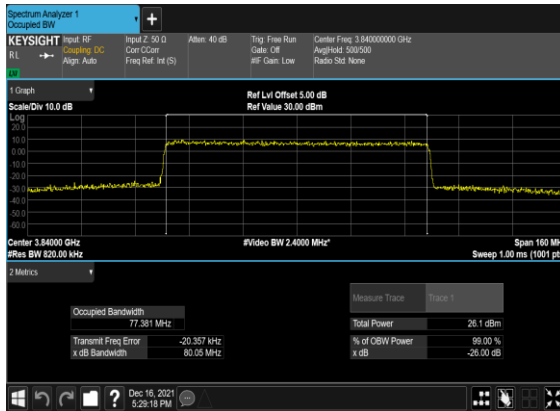
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QAM_Outer_Full_Mid_CH



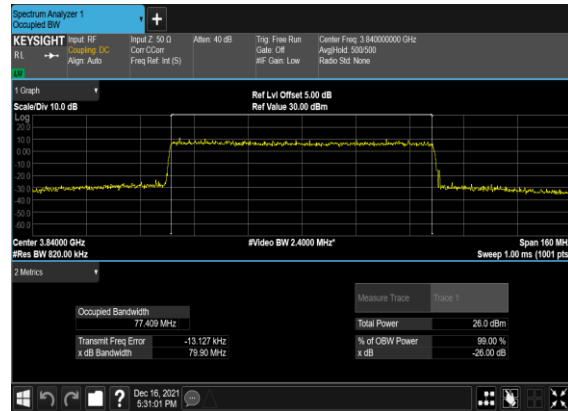
N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



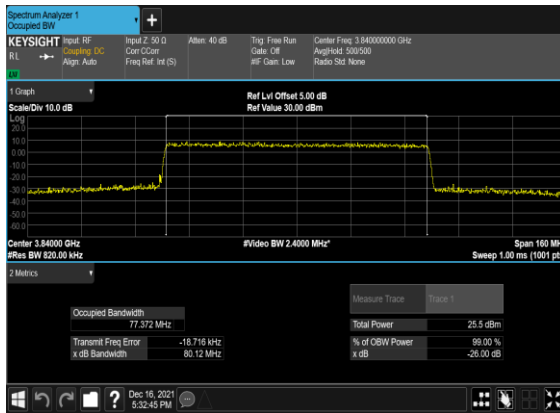
N77(80M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



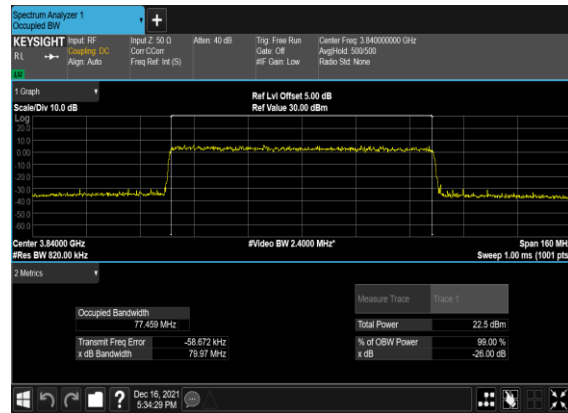
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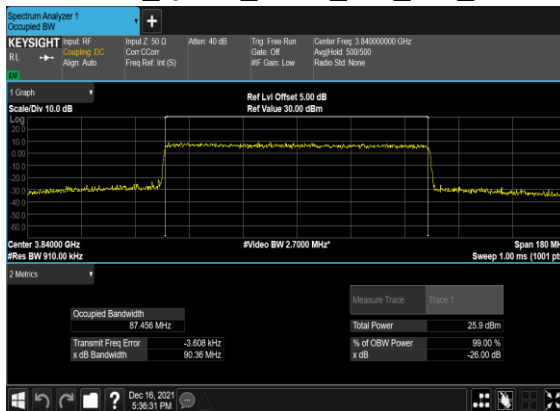
N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N77(90M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

