



Software Version: 23.06.1602

FR1 N77 MIMO-ANT(4+6)**Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-0.46dB**

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	ANT4 Power(dBm)	ANT6 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	21.05	20.81	23.94	23.48	0.2229
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	21.36	20.29	23.87	23.41	0.2192
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	19.54	18.71	22.16	21.70	0.1477
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	21.33	20.61	24.00	23.54	0.2257
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	21.11	20	23.60	23.14	0.2061
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	19.29	18.51	21.93	21.47	0.1402
77	30	20	636000	3540	CP-OFDM QPSK	1@1	21.66	20.47	24.12	23.66	0.2321
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	21.35	19.93	23.71	23.25	0.2113
77	30	20	636000	3540	CP-OFDM 64 QAM	1@1	19.48	18.42	21.99	21.53	0.1423
77	30	30	631000	3465	CP-OFDM QPSK	1@1	21.05	20.46	23.78	23.32	0.2146
77	30	30	631000	3465	CP-OFDM 16 QAM	1@1	21.43	20.37	23.94	23.48	0.2230
77	30	30	631000	3465	CP-OFDM 64 QAM	1@1	19.62	18.87	22.27	21.81	0.1518
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	21.59	20.74	24.20	23.74	0.2364
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	21.2	20.24	23.76	23.30	0.2136
77	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	19.41	18.65	22.06	21.60	0.1444
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	21.68	20.59	24.18	23.72	0.2355
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	21.45	20.03	23.81	23.35	0.2162
77	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	19.54	18.55	22.08	21.62	0.1453
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	21.56	20.23	23.96	23.50	0.2237
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	21.44	20.27	23.90	23.44	0.2210
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	19.63	18.88	22.28	21.82	0.1521
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	21.61	20.35	24.04	23.58	0.2278
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	21.28	20.28	23.82	23.36	0.2167
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	19.47	18.74	22.13	21.67	0.1469
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	21.7	20.66	24.22	23.76	0.2378
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	21.48	20.06	23.84	23.38	0.2177
77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	19.54	18.62	22.11	21.65	0.1464
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	21.57	20.74	24.19	23.73	0.2358
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	21.34	20.21	23.82	23.36	0.2169
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	19.4	18.71	22.08	21.62	0.1452
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	21.52	20.63	24.11	23.65	0.2316
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	21.18	20.16	23.71	23.25	0.2114
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	19.36	18.61	22.01	21.55	0.1429
77	30	50	635000	3525	CP-OFDM QPSK	1@1	21.5	20.51	24.04	23.58	0.2282
77	30	50	635000	3525	CP-OFDM 16 QAM	1@1	21.19	19.96	23.63	23.17	0.2074
77	30	50	635000	3525	CP-OFDM 64 QAM	1@1	19.33	18.51	21.95	21.49	0.1409



77	30	60	632000	3480	CP-OFDM QPSK	1@1	21.57	20.67	24.15	23.69	0.2341
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	21.34	20.16	23.80	23.34	0.2158
77	30	60	632000	3480	CP-OFDM 64 QAM	1@1	19.45	18.56	22.04	21.58	0.1438
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.55	20.61	24.12	23.66	0.2320
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	21.22	20.05	23.68	23.22	0.2101
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	19.33	18.59	21.99	21.53	0.1421
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.34	20.64	24.01	23.55	0.2267
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	21.14	20.09	23.66	23.20	0.2088
77	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	19.26	18.56	21.93	21.47	0.1404
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	21.48	20.55	24.05	23.59	0.2286
77	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	21.11	20.04	23.62	23.16	0.2069
77	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	19.26	18.54	21.93	21.47	0.1401
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	21.44	20.5	24.01	23.55	0.2262
77	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	21.06	19.97	23.56	23.10	0.2041
77	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	19.28	18.48	21.91	21.45	0.1396
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	21.34	20.54	23.97	23.51	0.2243
77	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	20.97	19.91	23.48	23.02	0.2006
77	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	19.1	18.52	21.83	21.37	0.1371
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.44	20.49	24.00	23.54	0.2260
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	21.12	19.99	23.60	23.14	0.2062
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	19.23	18.49	21.89	21.43	0.1389
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.44	20.53	24.02	23.56	0.2269
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	21.13	20	23.61	23.15	0.2066
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	19.25	18.54	21.92	21.46	0.1400
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.35	20.63	24.02	23.56	0.2267
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	21.1	20.01	23.60	23.14	0.2060
77	30	80	634000	3510	CP-OFDM 64 QAM	1@1	19.14	18.51	21.85	21.39	0.1376
77	30	90	633000	3495	CP-OFDM QPSK	1@1	21.32	20.55	23.96	23.50	0.2240
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	20.93	20.04	23.52	23.06	0.2022
77	30	90	633000	3495	CP-OFDM 64 QAM	1@1	19.18	18.56	21.89	21.43	0.1390
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	21.45	20.55	24.03	23.57	0.2277
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	21.09	19.96	23.57	23.11	0.2047
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	19.29	18.54	21.94	21.48	0.1407
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	21.49	20.59	24.07	23.61	0.2298
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	21.12	20.05	23.63	23.17	0.2074
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	19.27	18.62	21.97	21.51	0.1415
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.14	20.26	23.73	23.27	0.2124
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.52	21.22	24.38	23.92	0.2468
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.11	20.05	23.62	23.16	0.2071
77	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	20.73	19.76	23.28	22.82	0.1915
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.05	19.98	23.56	23.10	0.2041
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	20.73	19.59	23.21	22.75	0.1883
77	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	19.18	18.25	21.75	21.29	0.1346
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	19.21	18.55	21.90	21.44	0.1394
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	19.02	17.95	21.53	21.07	0.1279



77	30	100	633334	3500.01	CP-OFDM 256 QAM 137@68	16.16	15.24	18.73	18.27	0.0672
77	30	100	633334	3500.01	CP-OFDM 256 QAM 1@1	16.15	15.63	18.91	18.45	0.0700
77	30	100	633334	3500.01	CP-OFDM 256 QAM 1@271	15.82	15.04	18.46	18.00	0.0631



FR1 N77 MIMO-ANT(4+6)_ANT4

Frequency Stability

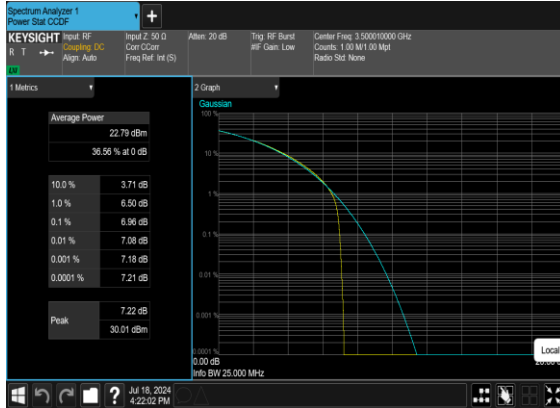
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0011	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0027	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0009	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0044	PASS	-30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0025	PASS	-20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	-10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0015	PASS	0℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0017	PASS	10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0019	PASS	20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0011	PASS	30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0020	PASS	40℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0022	PASS	50℃



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	6.96	13	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	6.64	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	6.93	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	6.49	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_16 QAM_Edge_1RB_Left_Mid_CH



**Occupied Bandwidth**

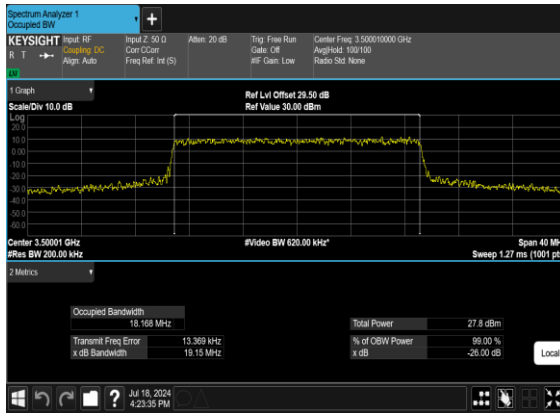
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.168	19.15
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.194	19.11
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.178	19.09
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.227	19.11
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.869	28.98
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.773	28.85
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.881	28.87
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.816	28.78
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.879	39.11
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.79	39.22
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.778	39.16
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.815	39.15
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.496	49.06
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.468	48.99
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.552	49.17
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.44	49.02
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.867	59.69
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.837	59.71
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.774	59.88
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.987	59.67
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.481	69.84
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.53	69.63
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.676	69.66



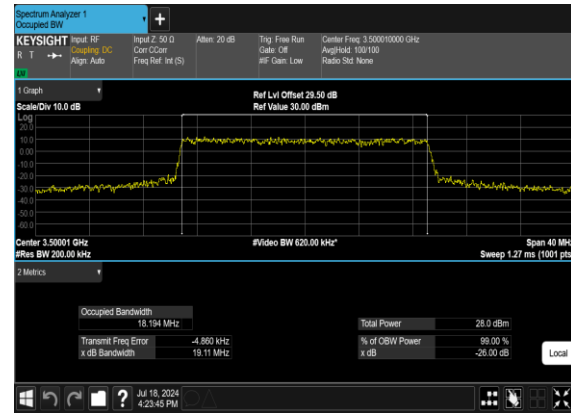
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.354	69.7
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.487	79.84
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.515	80.03
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.458	80.07
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.617	79.91
77	30	90	633334	3549.99	CP-OFDM QPSK	245@0	87.577	90.35
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.485	90.35
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.333	90.25
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.313	90.36
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.43	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.313	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	96.992	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.42	100.6



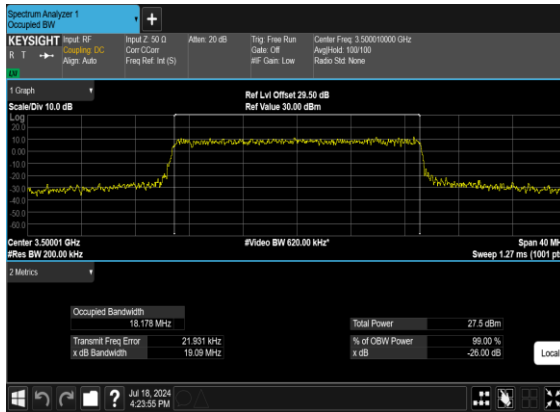
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OFDM_QPSK_Outer_Full_Mid_CH



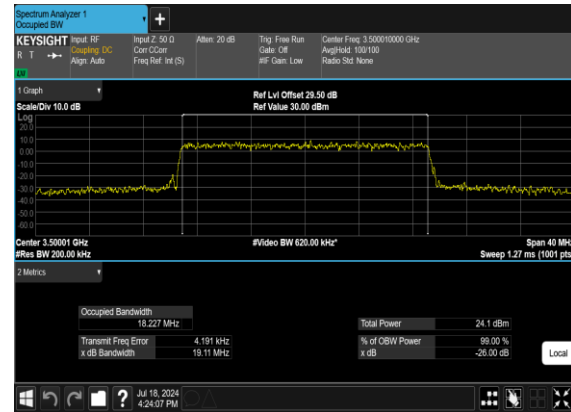
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

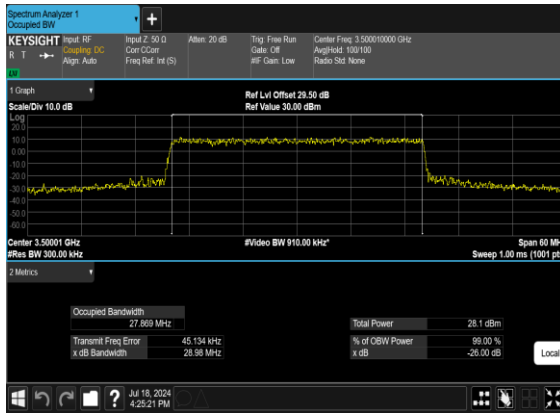


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

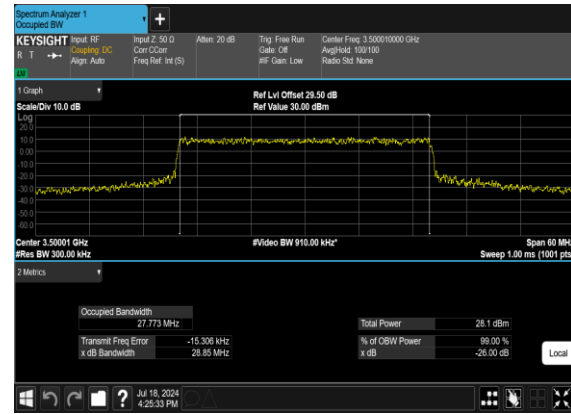




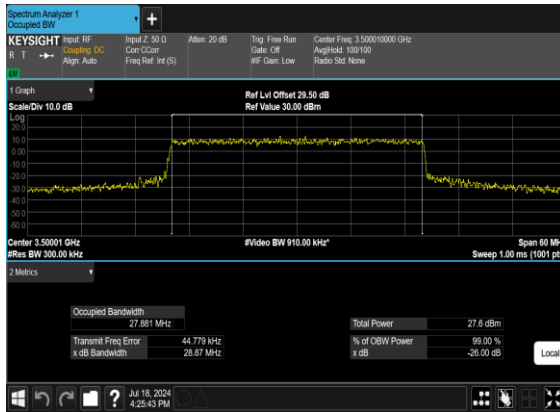
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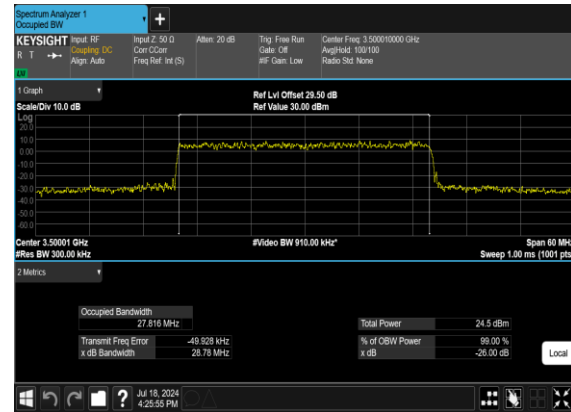
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

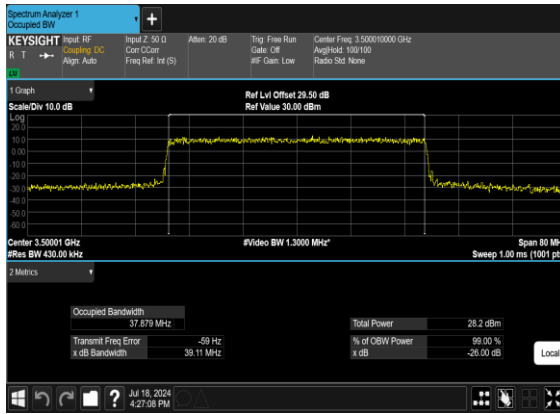


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QAM_Outer_Full_Mid_CH

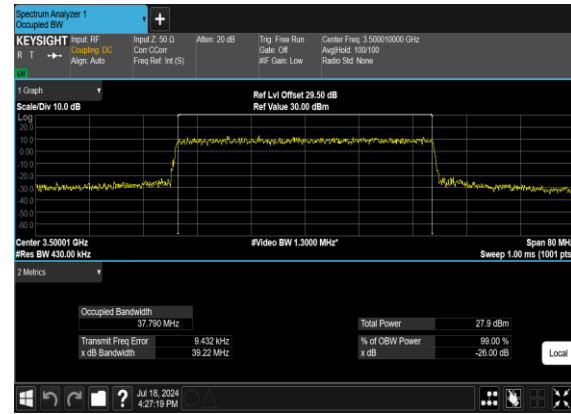




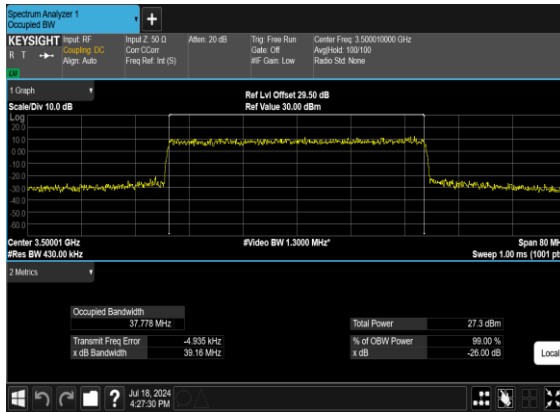
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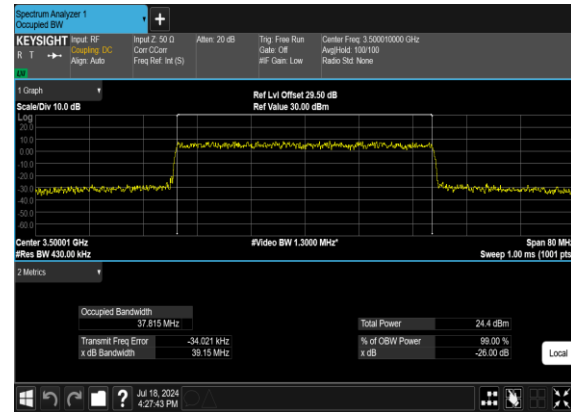
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

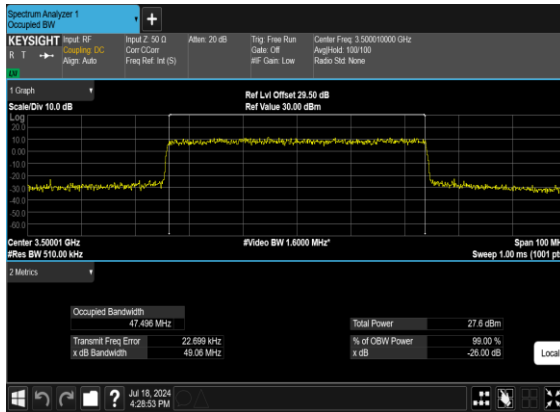


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QAM_Outer_Full_Mid_CH

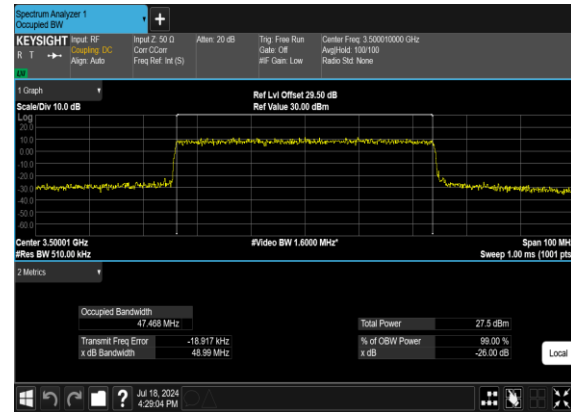




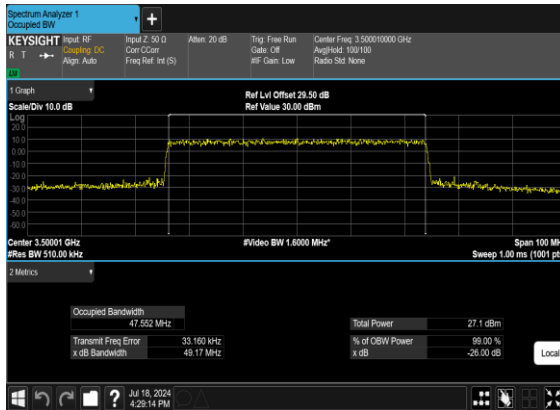
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OFDM_QPSK_Outer_Full_Mid_CH



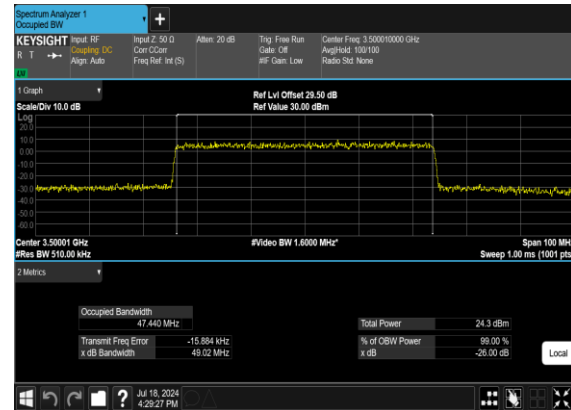
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QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

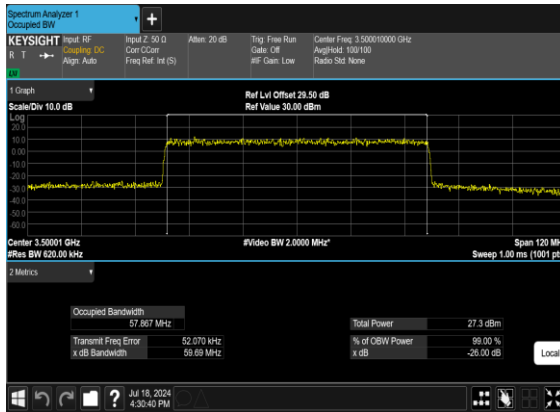


N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

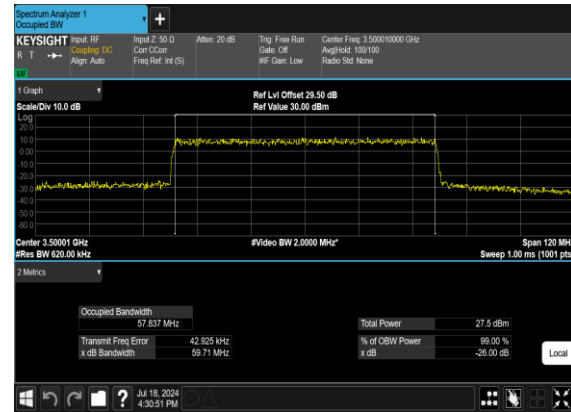




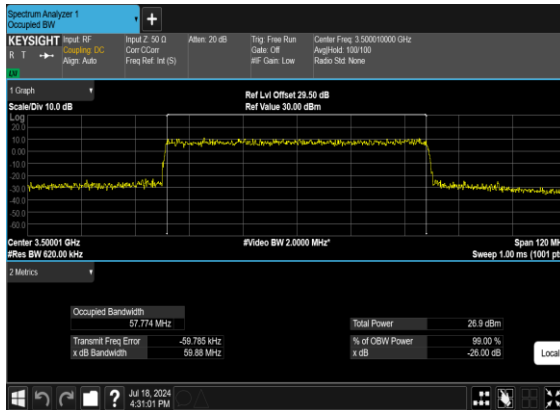
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



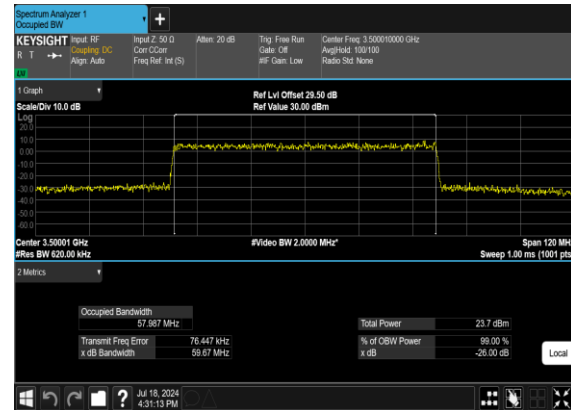
N77(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

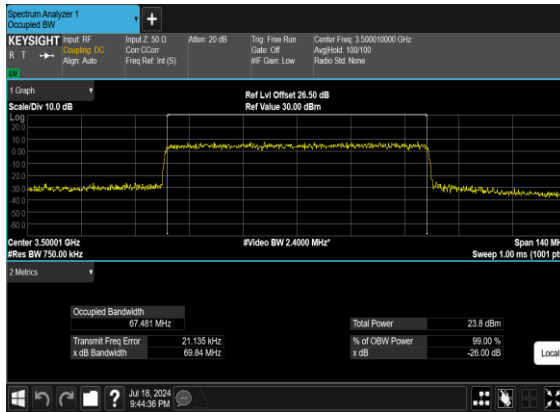


N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

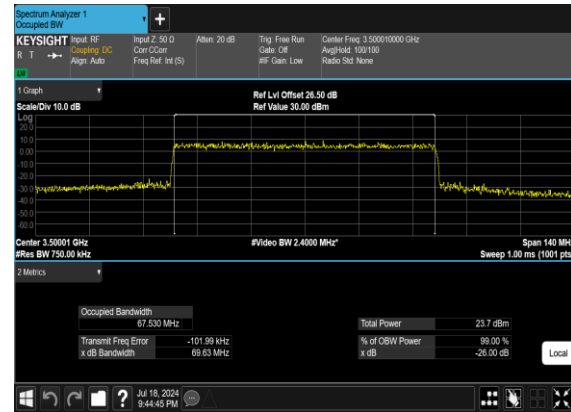




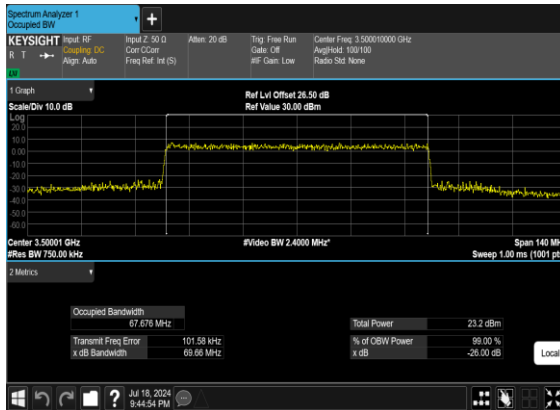
N77(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



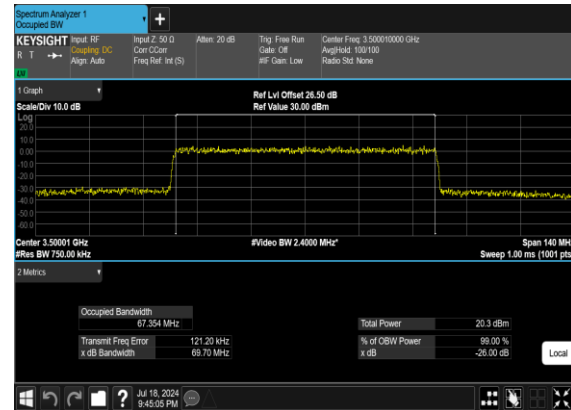
N77(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

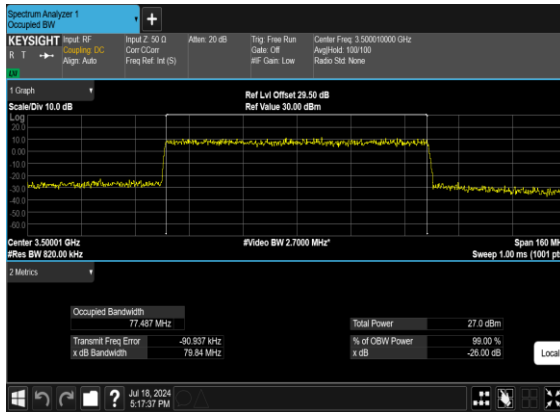


N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

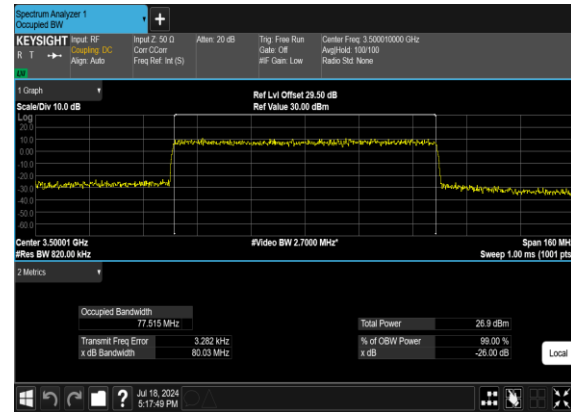




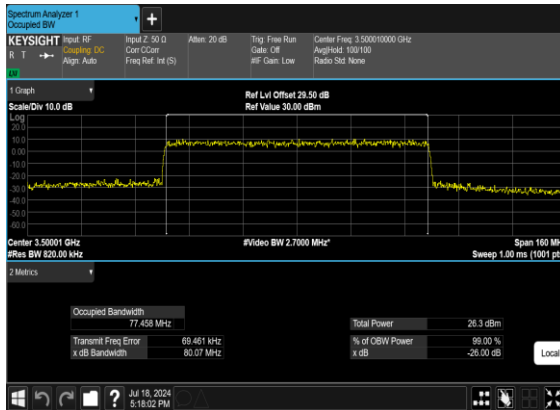
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



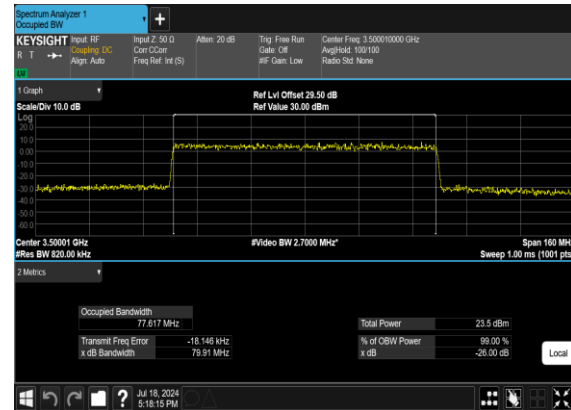
N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

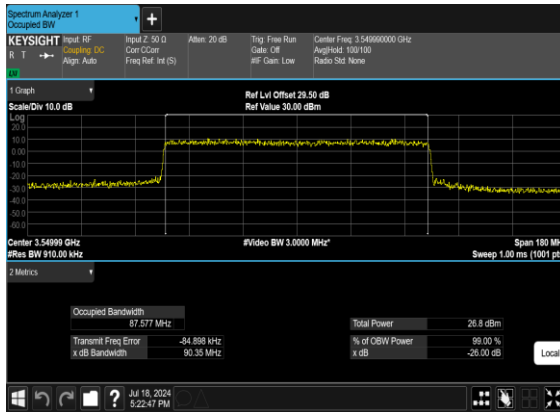


N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

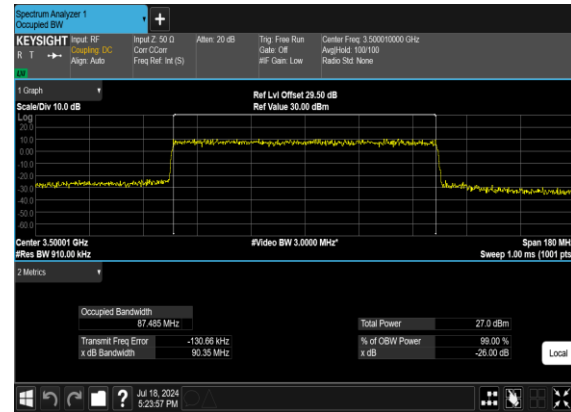




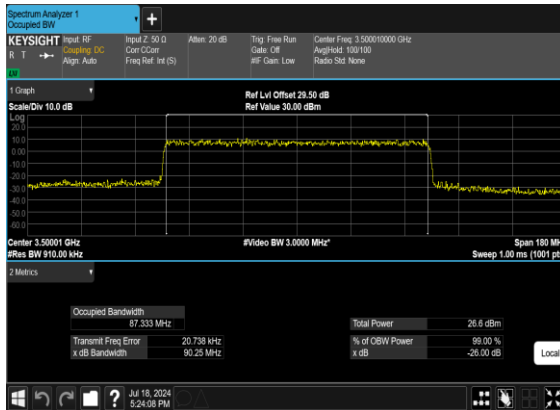
N77(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



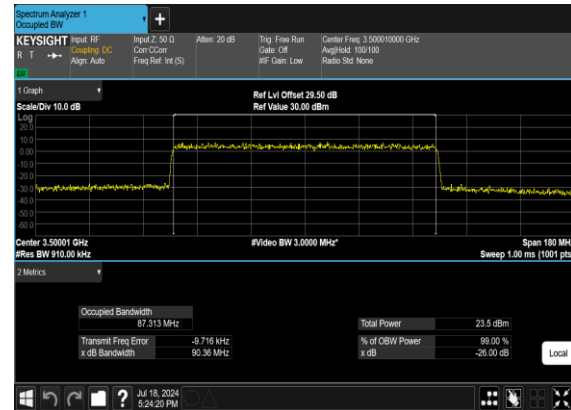
N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

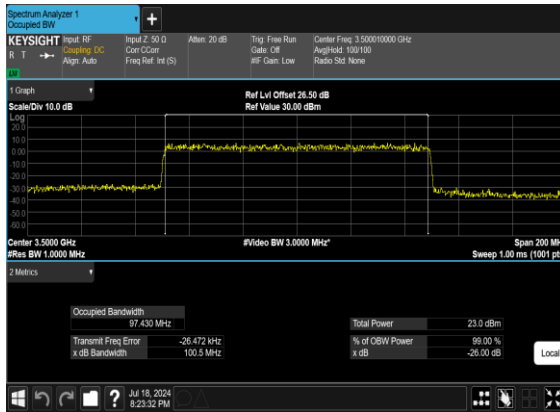


N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

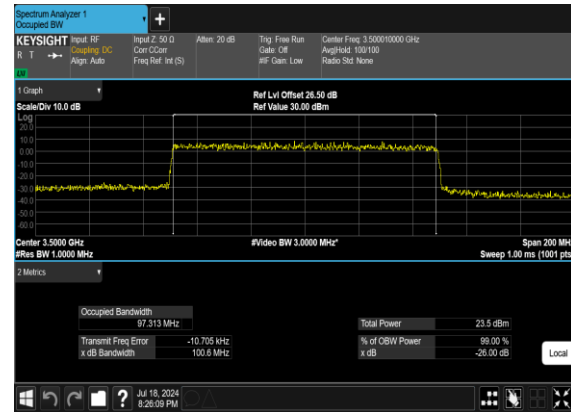




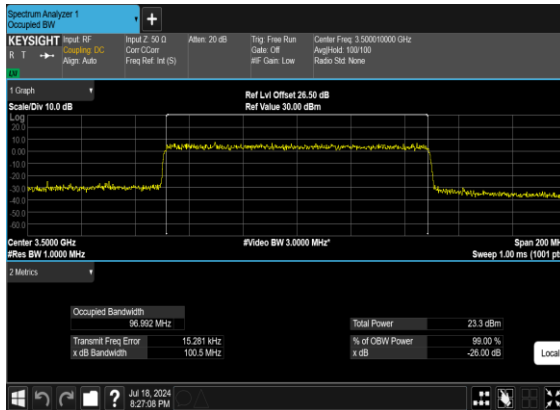
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



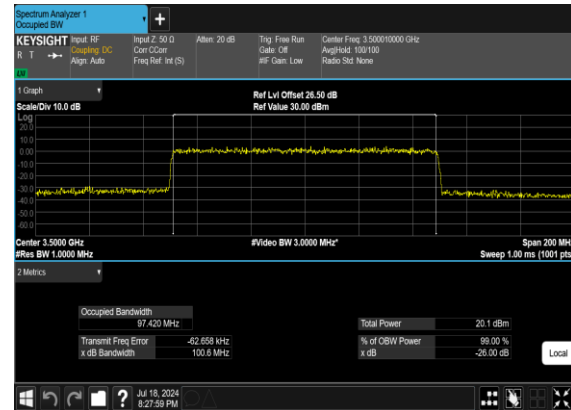
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

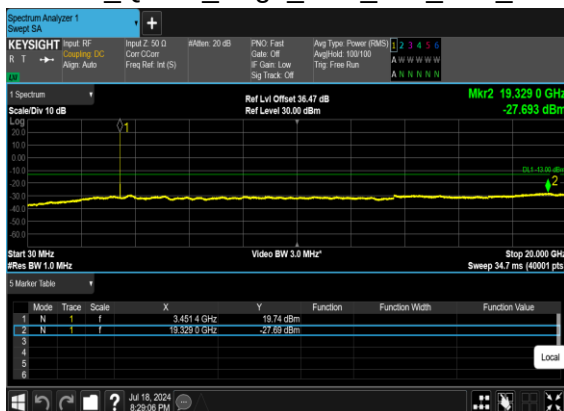
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	---
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	---
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	---
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	---
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS



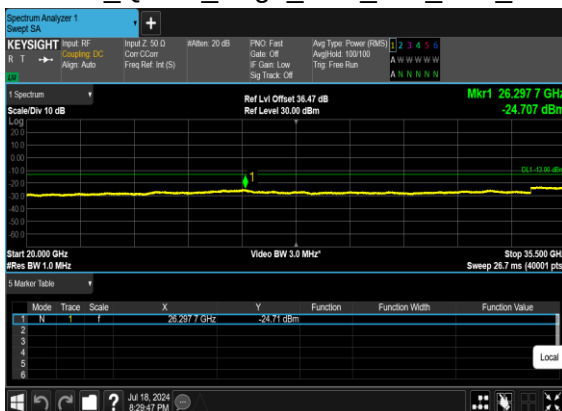
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	---
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@0	see graph	---
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	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
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



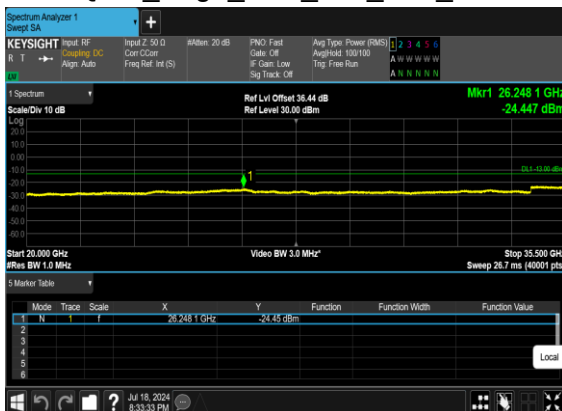
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

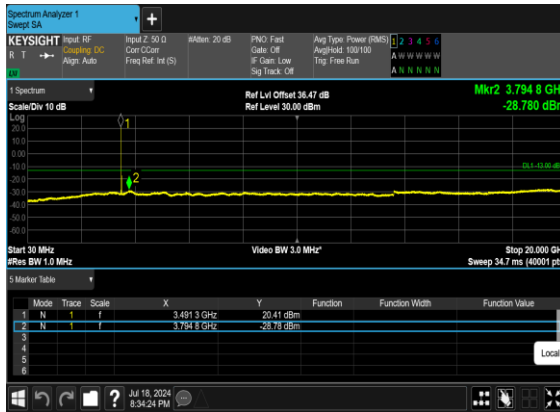


N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

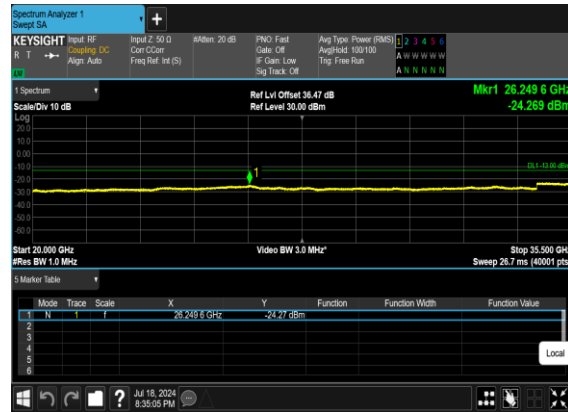




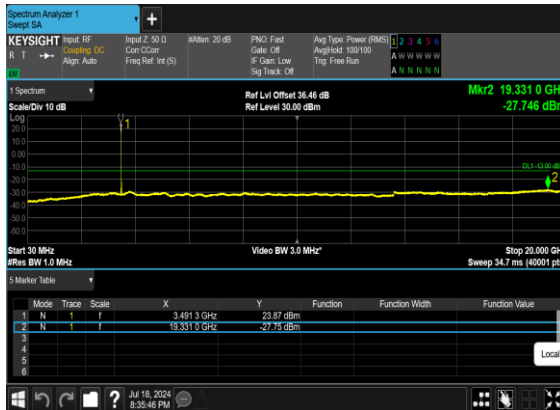
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



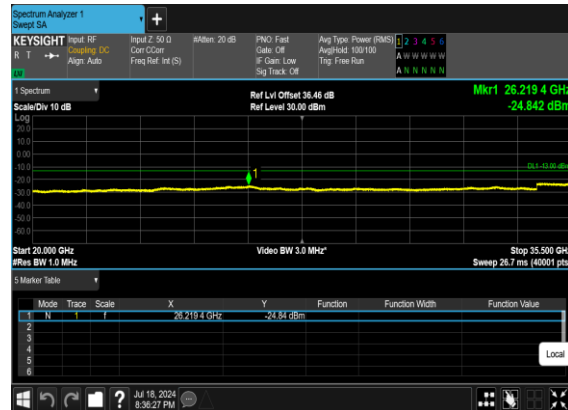
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

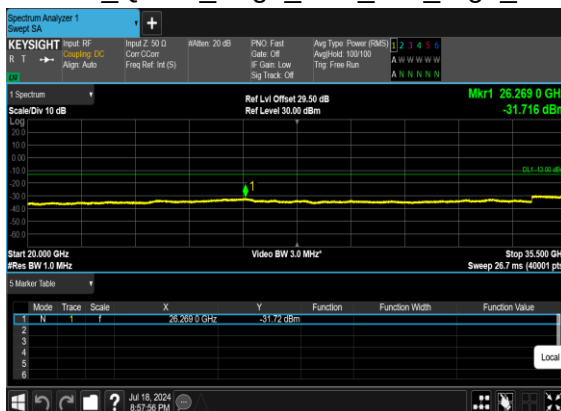




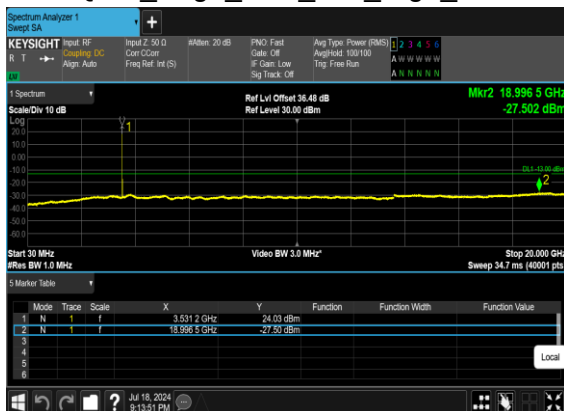
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



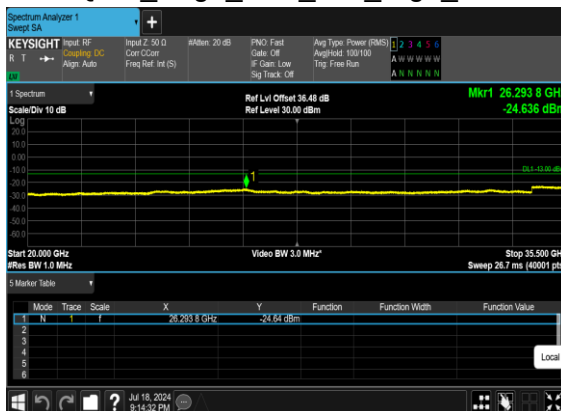
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

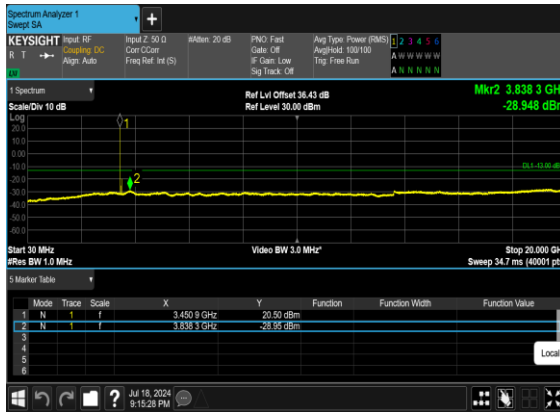


N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

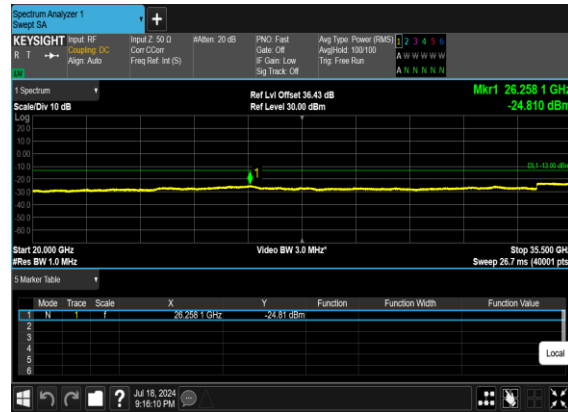




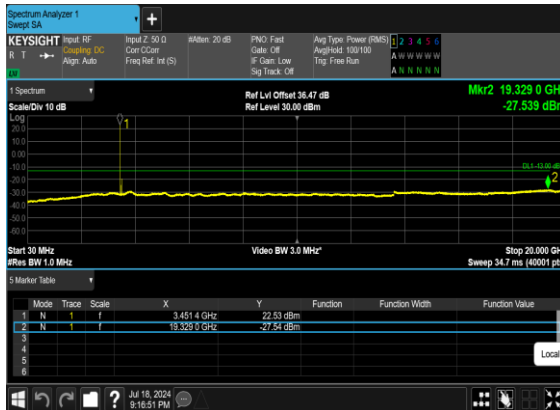
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



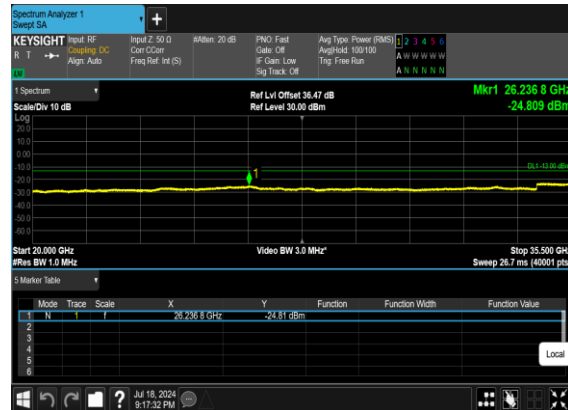
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

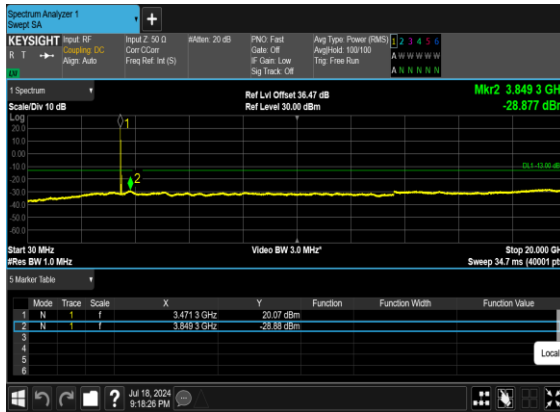


N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

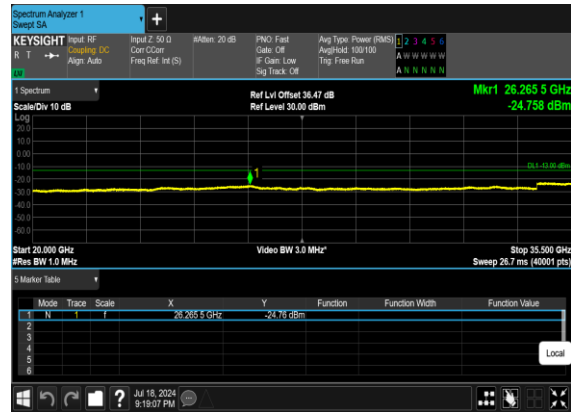




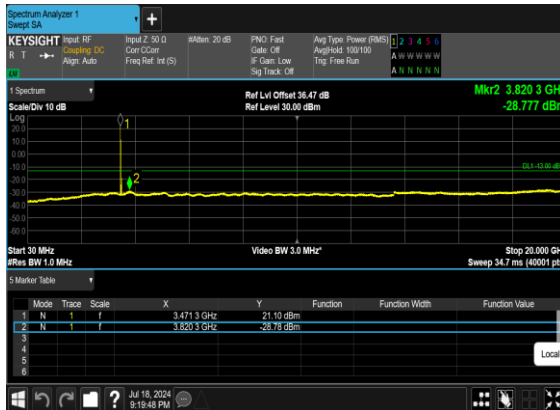
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



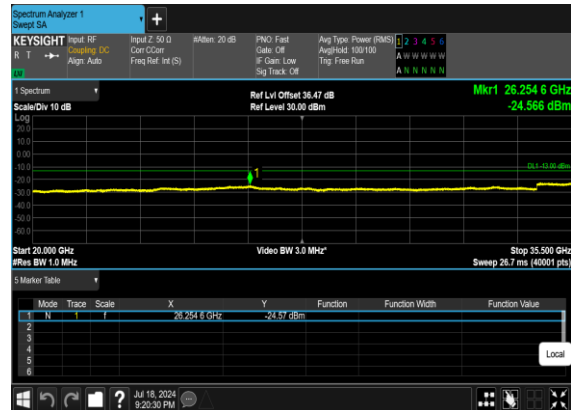
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

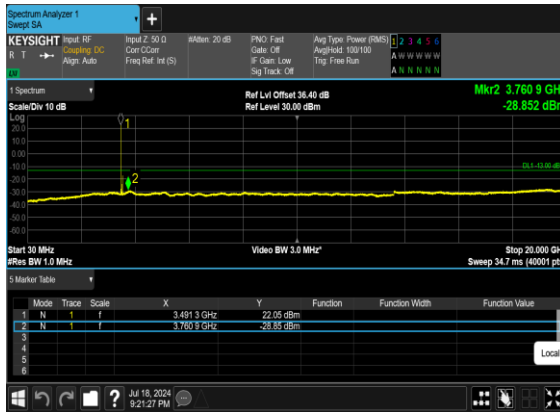


N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH





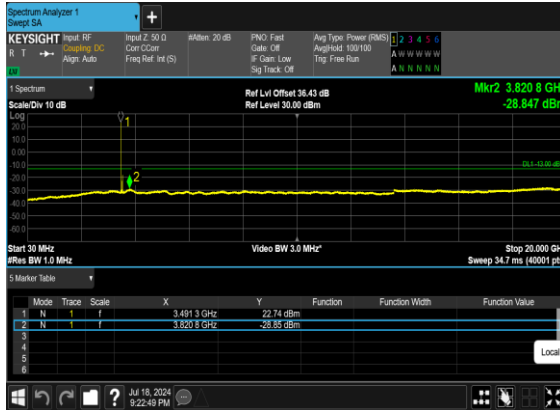
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



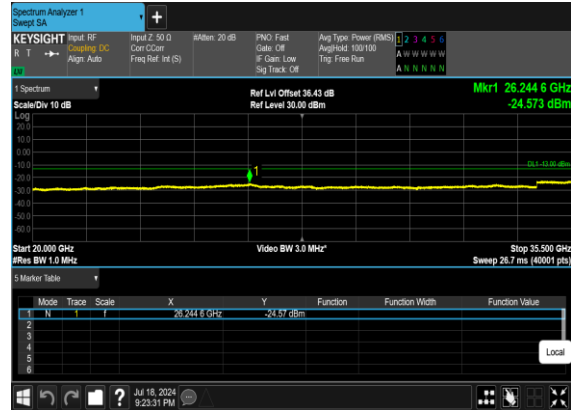
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

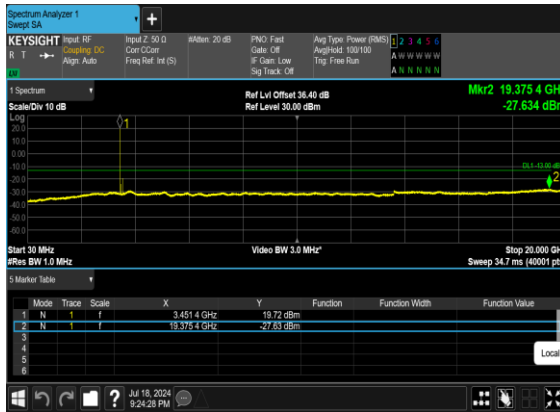


N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

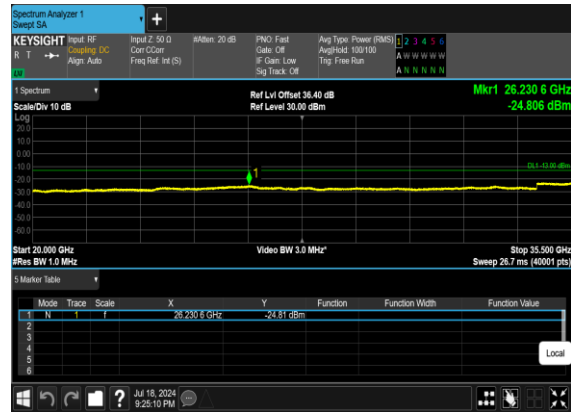




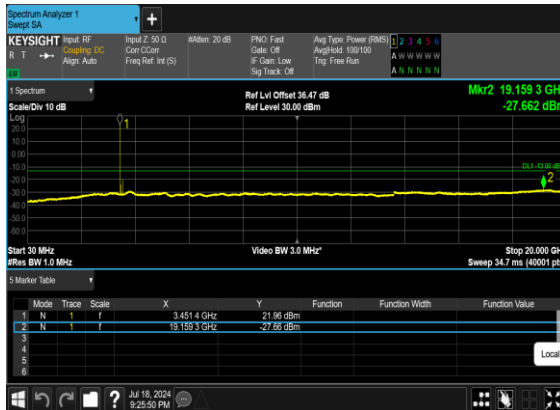
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



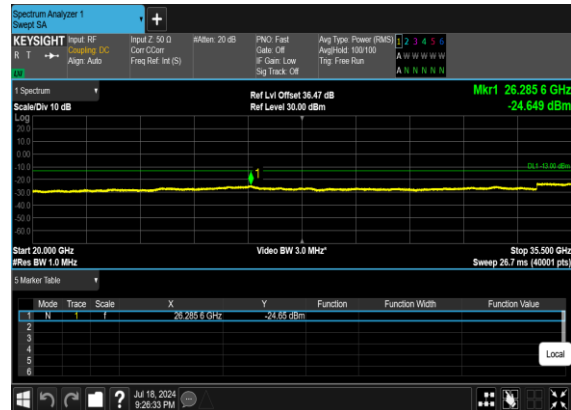
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



N77(100M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

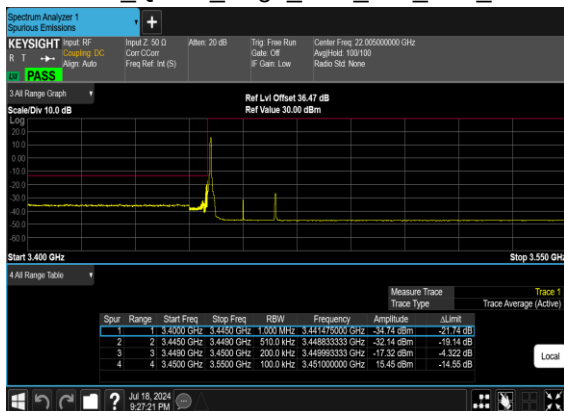


**Conducted Band Edge**

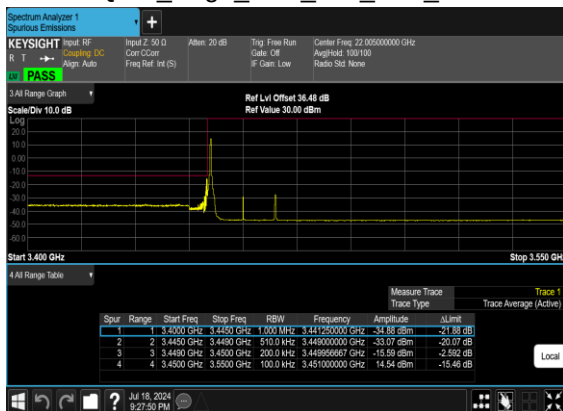
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	see graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	51@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@50	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	see graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	51@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	162@0	see graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	162@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@161	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	162@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 16 QAM	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 16 QAM	1@272	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	see graph	PASS



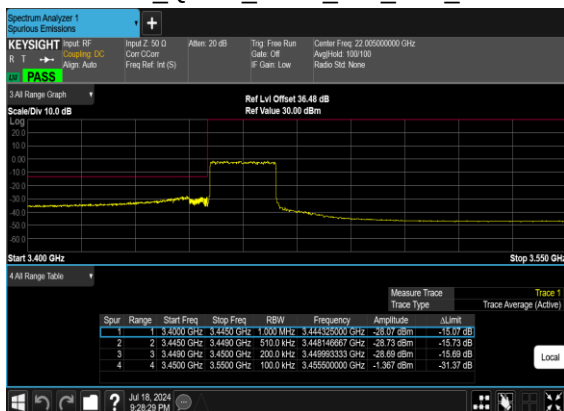
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



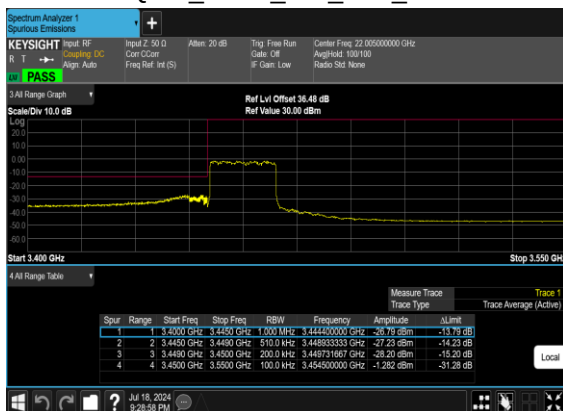
N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

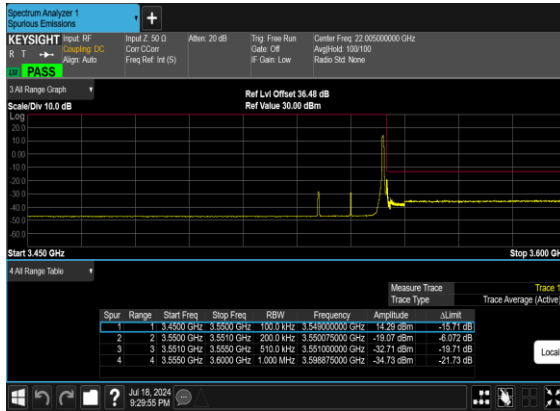


N77(20M)_CP-OFDM_16
QAM_Outer_Full_Low_CH

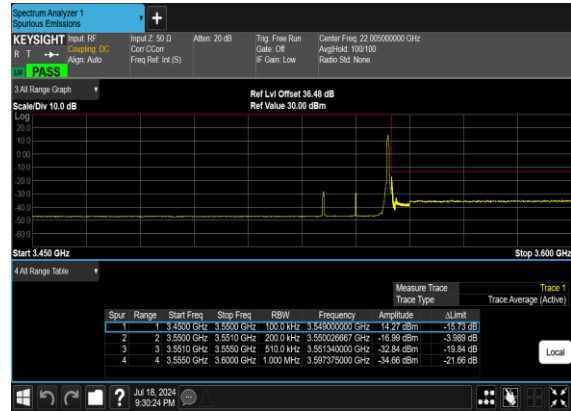




N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Right_High_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH

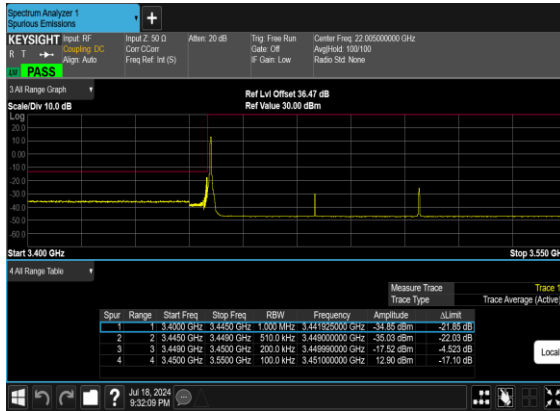


N77(20M)_CP-OFDM_16
QAM_Outer_Full_High_CH

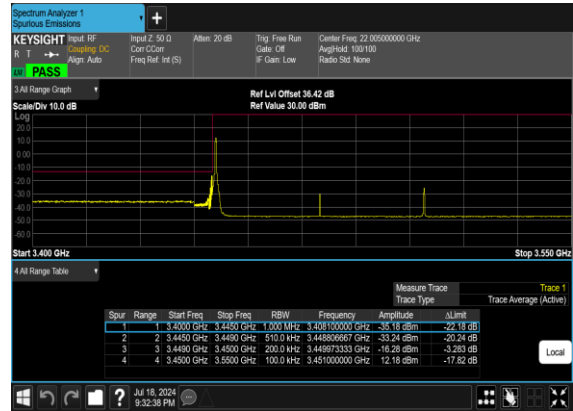




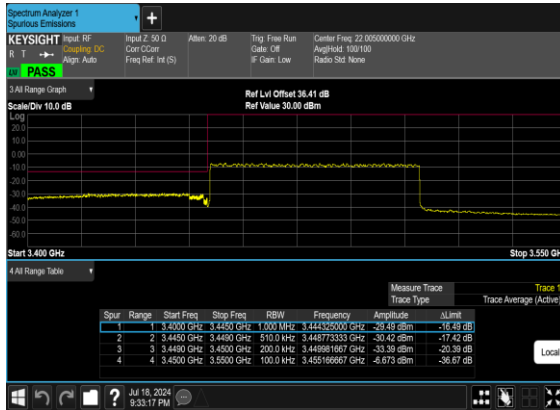
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



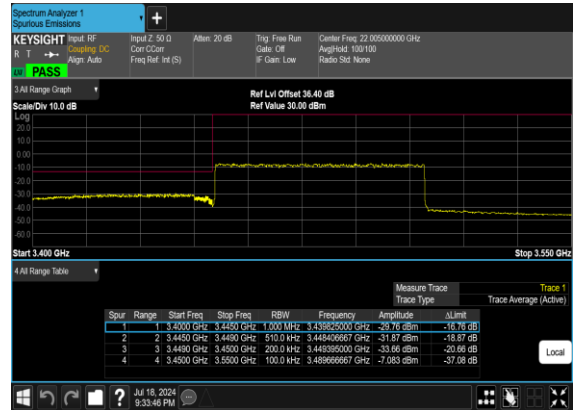
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



N77(60M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

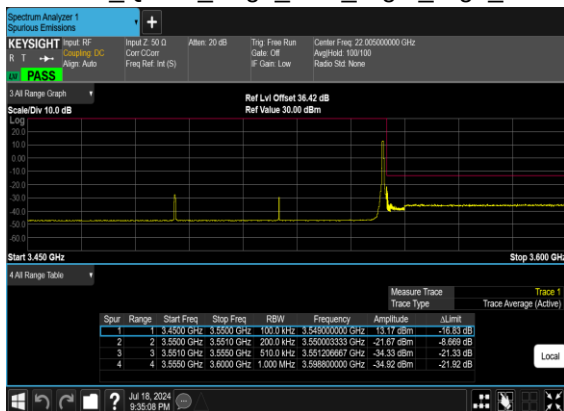


N77(60M)_CP-OFDM_16
QAM_Outer_Full_Low_CH

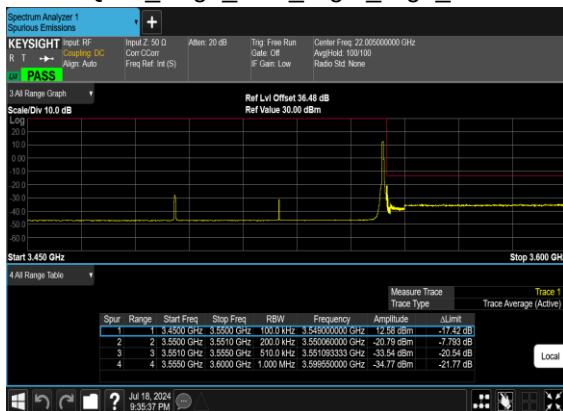




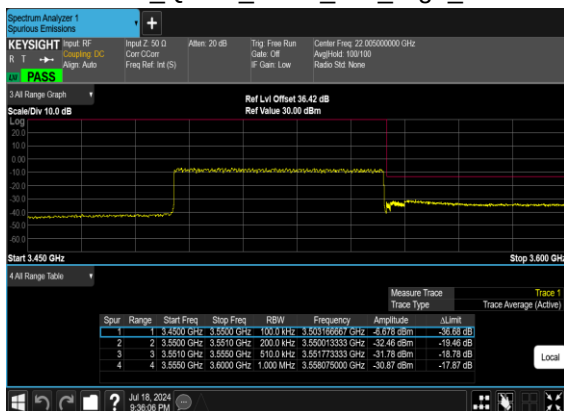
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



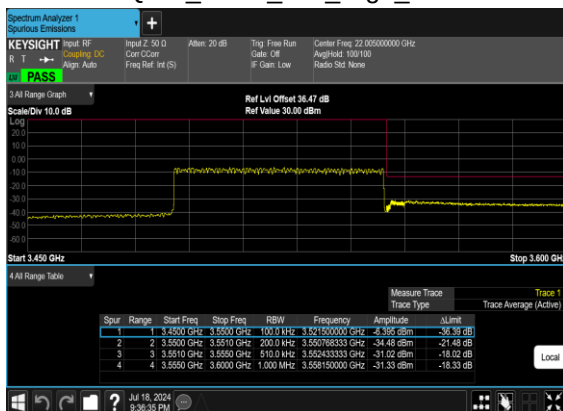
N77(60M)_CP-OFDM_16
QAM_Edge_1RB_Right_High_CH



N77(60M)_CP-
OFDM_QPSK_Outer_Full_High_CH

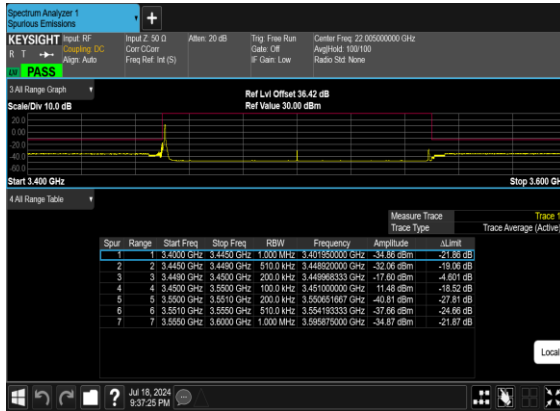


N77(60M)_CP-OFDM_16
QAM_Outer_Full_High_CH

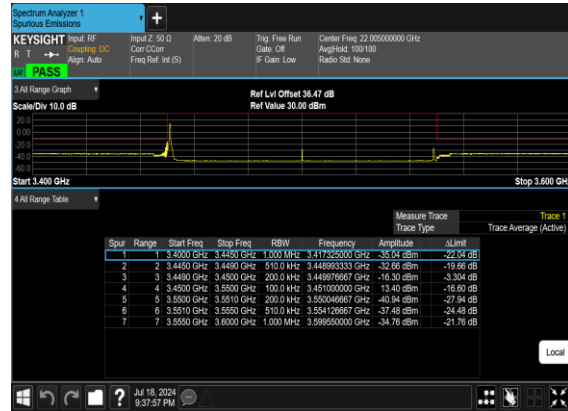




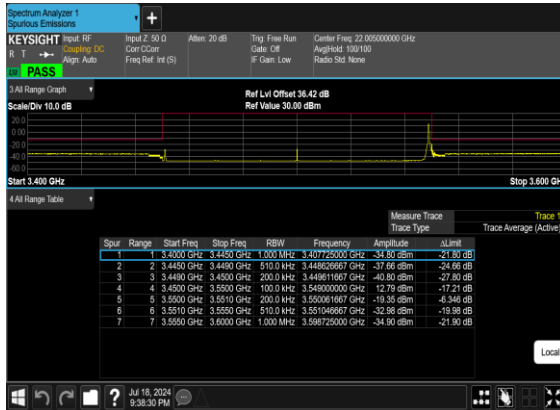
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



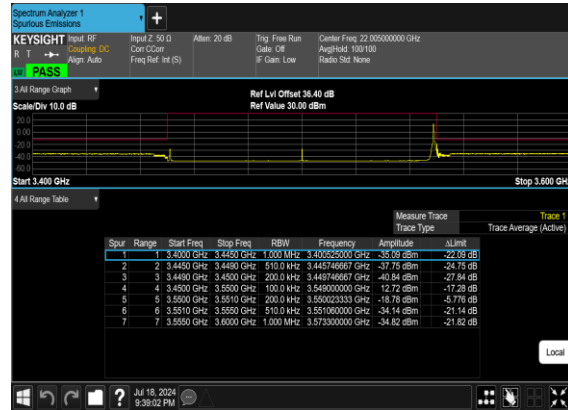
N77(100M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

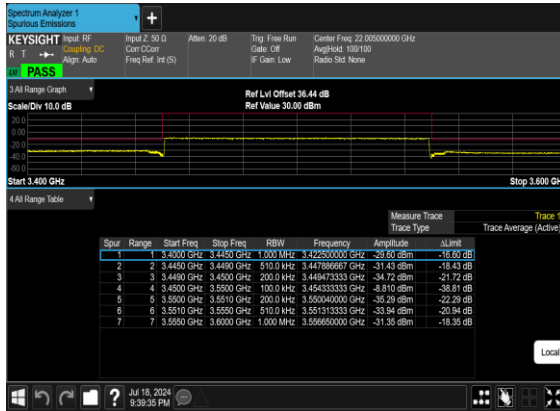


N77(100M)_CP-OFDM_16
QAM_Edge_1RB_Right_Mid_CH

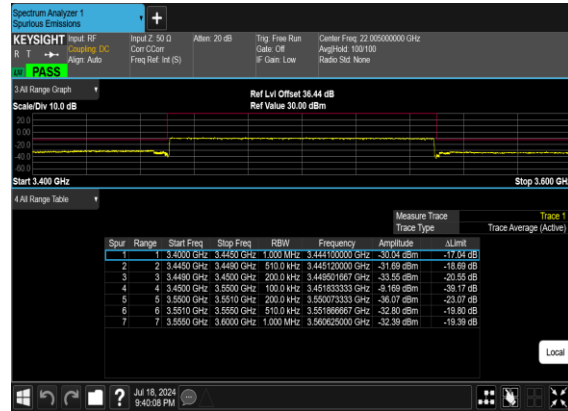




N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 N77 MIMO-ANT(4+6)_ANT6

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	-0.0012	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0021	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0006	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0033	PASS	-30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0005	PASS	-20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0019	PASS	-10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	0℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0028	PASS	10℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0007	PASS	20℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0021	PASS	30℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0013	PASS	40℃
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0010	PASS	50℃



Peak to Average Ratio

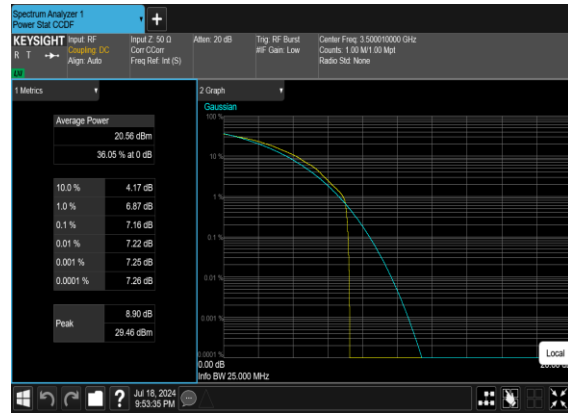
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	8.07	13	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	7.16	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	6.76	13	PASS
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	7.46	13	PASS



N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



**Occupied Bandwidth**

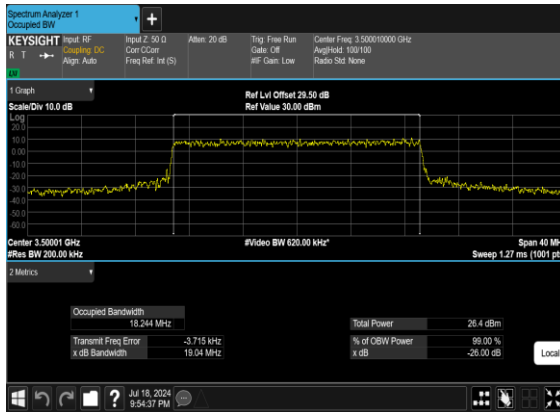
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.244	19.04
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.198	19.11
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.194	19.29
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.174	19.32
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.877	29.19
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.874	29.15
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.861	28.8
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.783	29.03
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.754	39.41
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.869	39.41
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.901	39.14
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.778	39.11
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.38	49.03
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.492	48.96
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.424	49.06
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.334	49.07
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.807	59.75
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	58.069	59.61
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.629	59.62
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.949	59.67
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.475	69.67
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.594	69.69
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.309	69.71



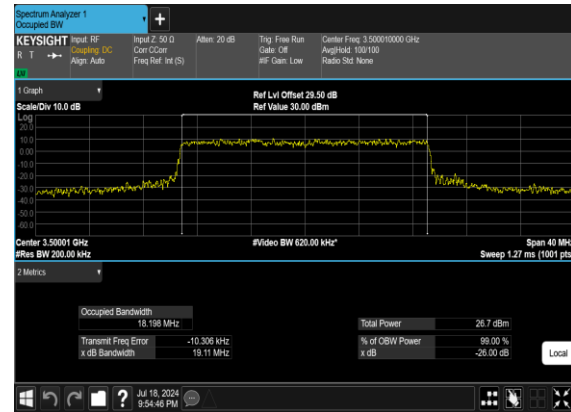
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.518	69.6
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.566	79.83
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.557	79.88
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.484	79.94
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.525	79.93
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.31	90.39
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.338	90.35
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.427	90.27
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.341	90.15
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.568	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.569	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.489	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.611	100.7



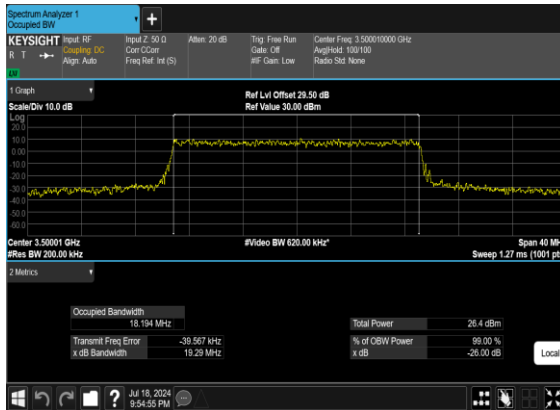
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



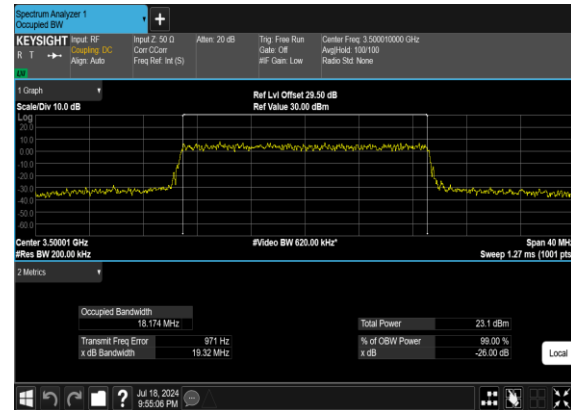
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

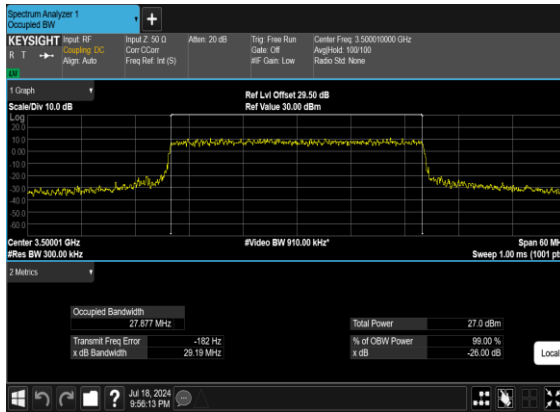


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

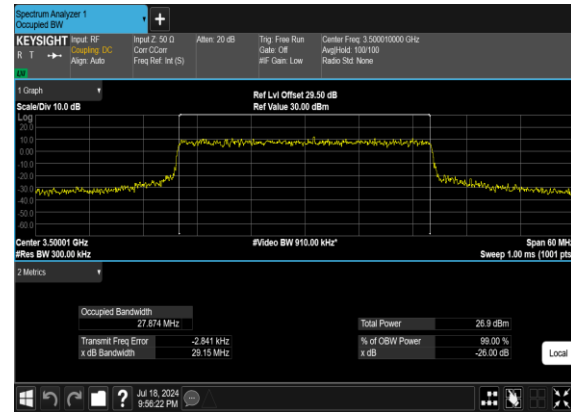




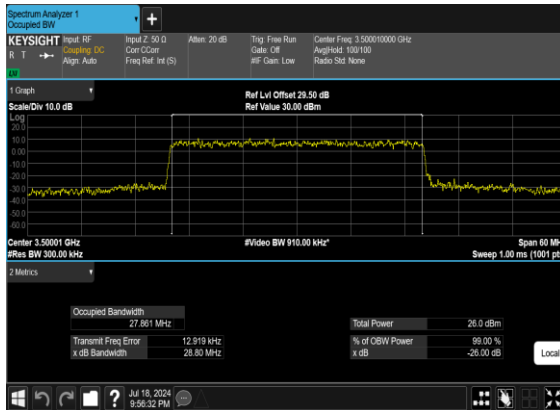
N77(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

