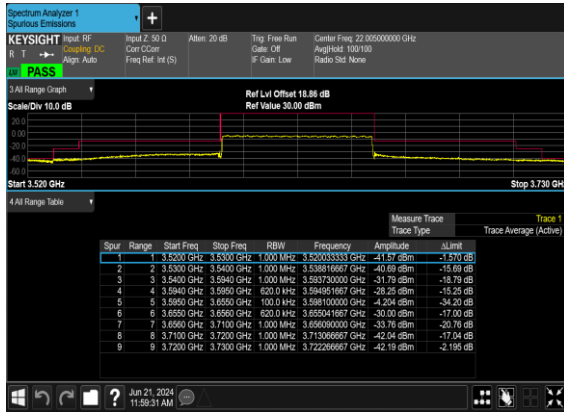
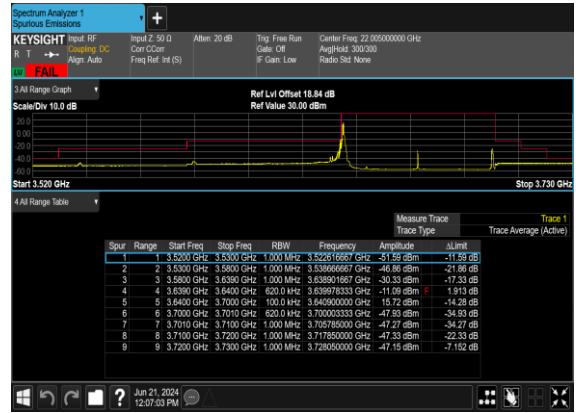




N77(60M)\_CP-
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



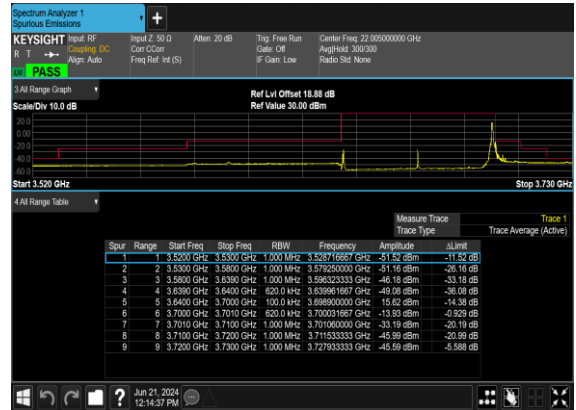
N77(60M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(60M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH\_CHP\_PASS

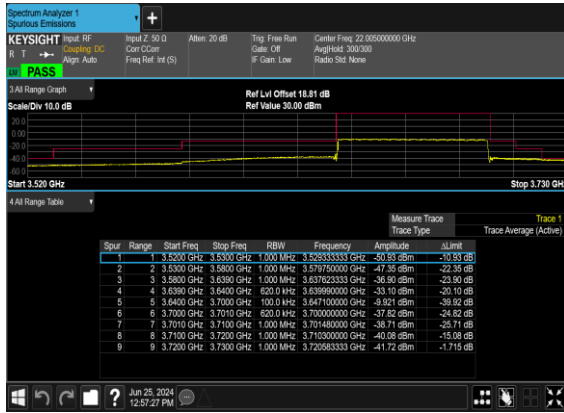


N77(60M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH

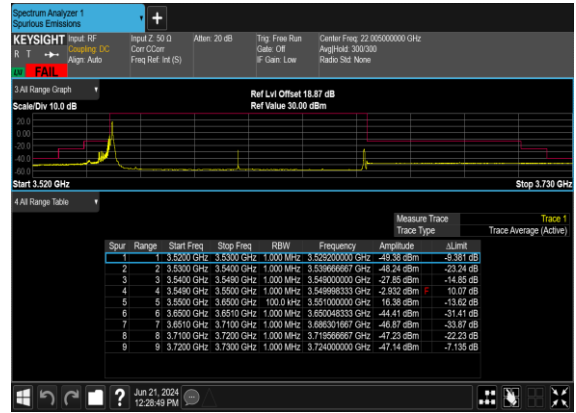




N77(60M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



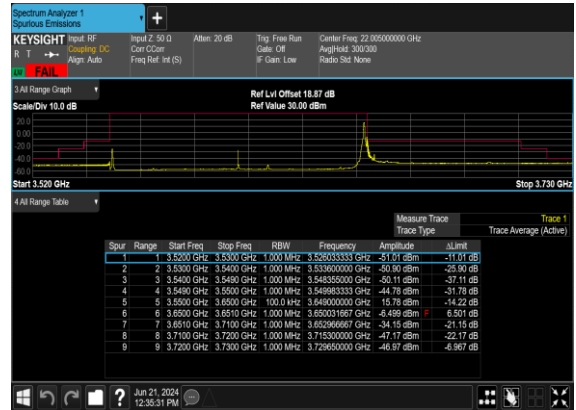
N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS

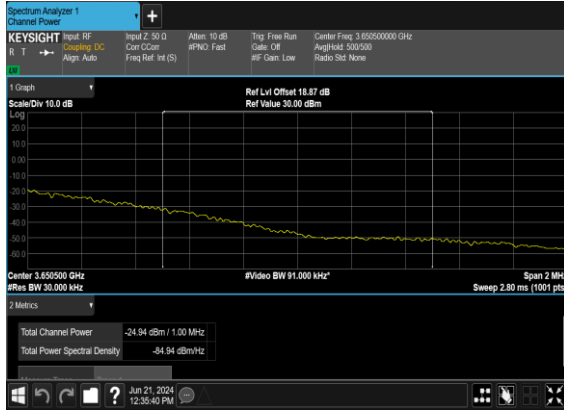


N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH

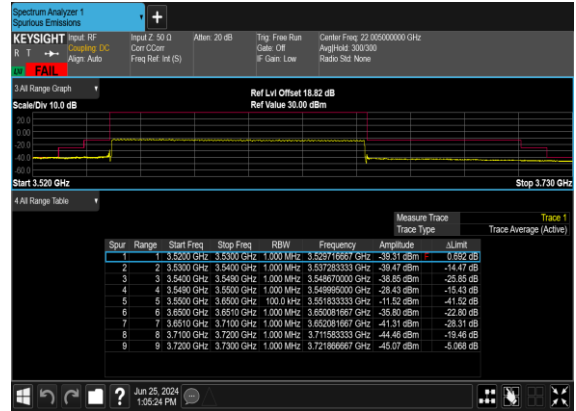




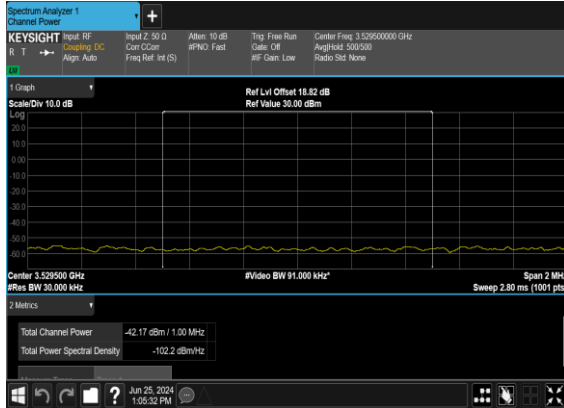
N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH\_CHP\_PASS



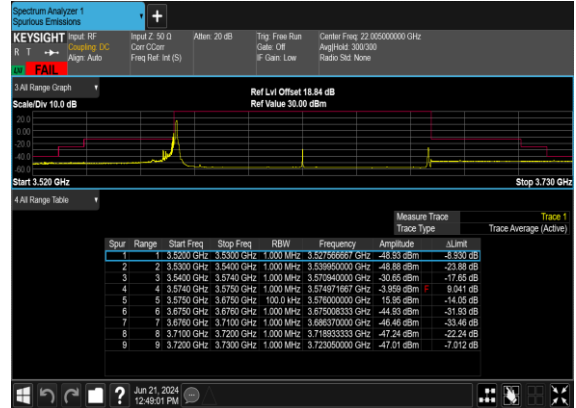
N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Low\_CH\_CHP\_PASS

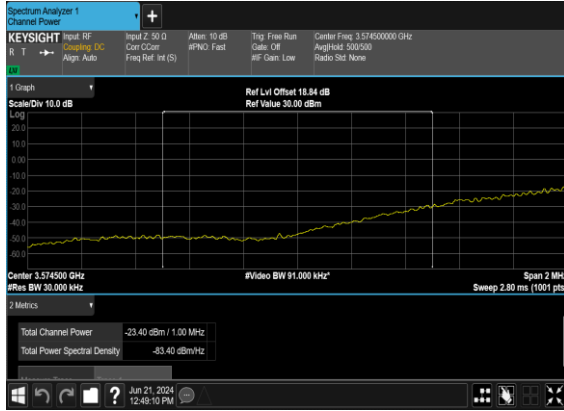


N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

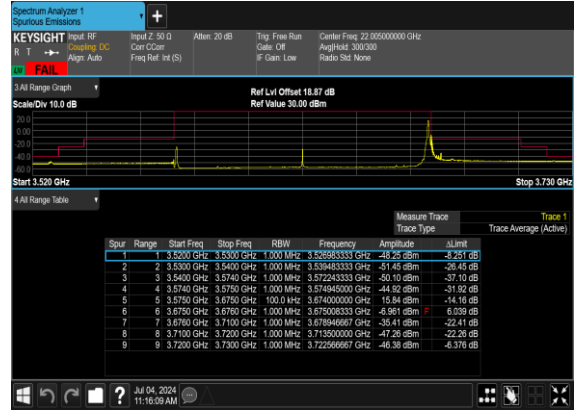




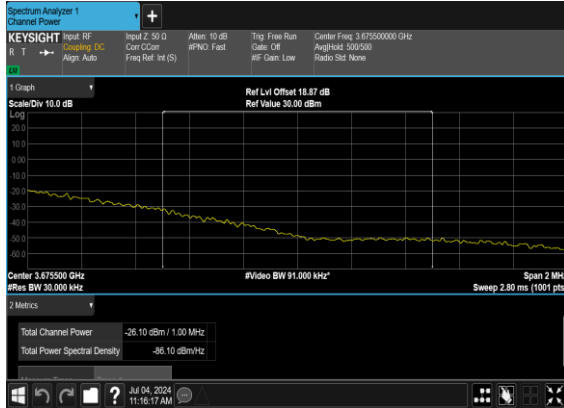
N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH\_CHP\_PASS



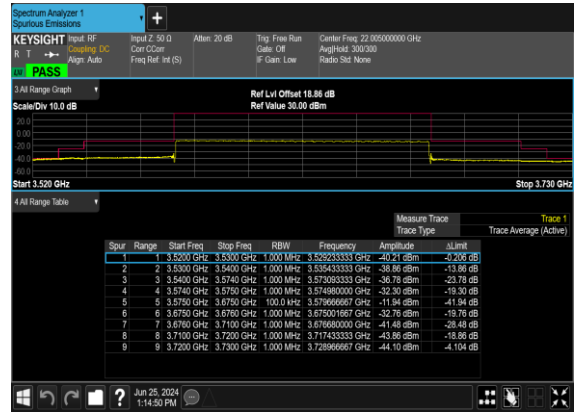
N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH\_CHP\_PASS

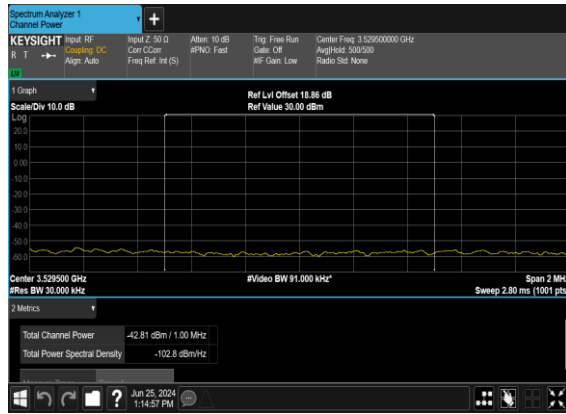


N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH

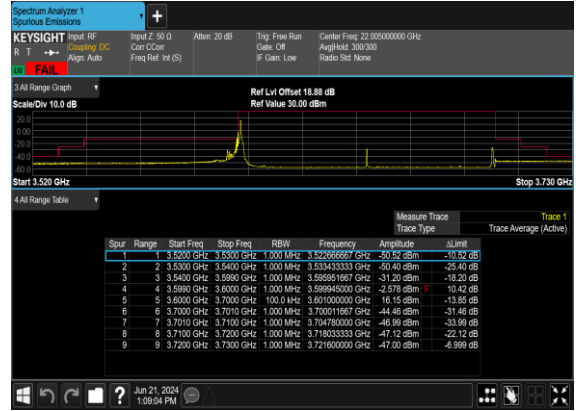




N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH\_CHP\_PASS



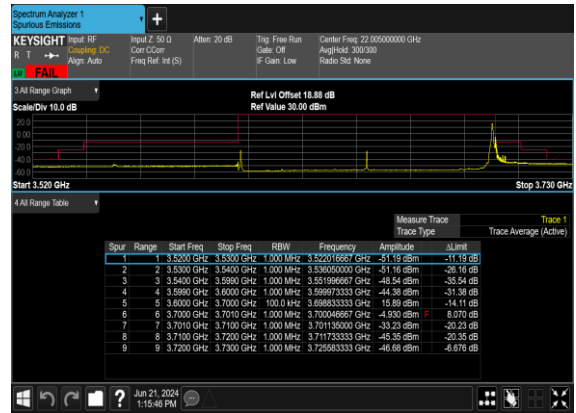
N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



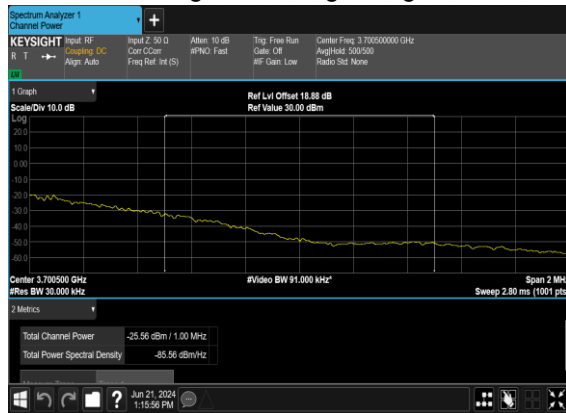
N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH\_CHP\_PASS



N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PASS



N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_High\_CH





Software Version: 23.06.1602

# FR1 N77 UL MIMO (Ant6)

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0038	PASS	NV
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0038	PASS	LV
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0070	PASS	HV
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0048	PASS	-30°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0033	PASS	-20°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0037	PASS	-10°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0044	PASS	0°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0032	PASS	10°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0038	PASS	20°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0061	PASS	30°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0062	PASS	40°C
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0061	PASS	50°C



### Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.217	19.21
77	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.184	19.03
77	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.185	18.98
77	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.19	19.05
77	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.763	28.76
77	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.858	28.95
77	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.774	28.87
77	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.893	29.2
77	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.855	39.48
77	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.813	39.19
77	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.671	39.42
77	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.808	39.22
77	30	50	641666	3624.99	CP-OFDM QPSK	133@0	47.371	48.96
77	30	50	641666	3624.99	CP-OFDM 16 QAM	133@0	47.499	49.12
77	30	50	641666	3624.99	CP-OFDM 64 QAM	133@0	47.402	49.2
77	30	50	641666	3624.99	CP-OFDM 256 QAM	133@0	47.384	49.22
77	30	60	641666	3624.99	CP-OFDM QPSK	162@0	57.908	59.74
77	30	60	641666	3624.99	CP-OFDM 16 QAM	162@0	57.795	59.7
77	30	60	641666	3624.99	CP-OFDM 64 QAM	162@0	57.758	59.7
77	30	60	641666	3624.99	CP-OFDM 256 QAM	162@0	57.699	59.68
77	30	70	641666	3624.99	CP-OFDM QPSK	189@0	67.371	69.7
77	30	70	641666	3624.99	CP-OFDM 16 QAM	189@0	67.467	69.67

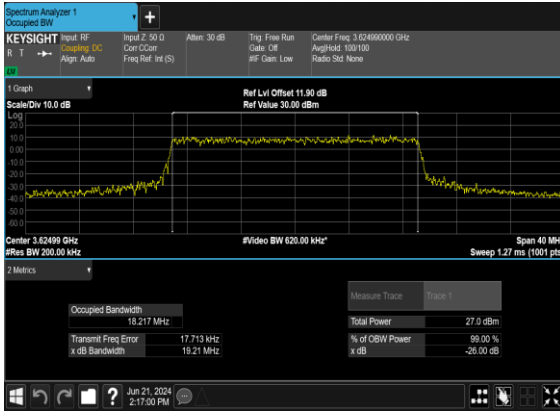


77	30	70	641666	3624.99	CP-OFDM 64 QAM	189@0	67.385	69.64
77	30	70	641666	3624.99	CP-OFDM 256 QAM	189@0	67.748	69.62
77	30	80	641666	3624.99	CP-OFDM QPSK	217@0	77.393	79.9
77	30	80	641666	3624.99	CP-OFDM 16 QAM	217@0	77.444	79.92
77	30	80	641666	3624.99	CP-OFDM 64 QAM	217@0	77.479	79.91
77	30	80	641666	3624.99	CP-OFDM 256 QAM	217@0	77.338	80.03
77	30	90	641666	3624.99	CP-OFDM QPSK	245@0	87.659	90.22
77	30	90	641666	3624.99	CP-OFDM 16 QAM	245@0	87.574	90.31
77	30	90	641666	3624.99	CP-OFDM 64 QAM	245@0	87.565	90.42
77	30	90	641666	3624.99	CP-OFDM 256 QAM	245@0	87.434	90.3
77	30	100	641666	3624.99	CP-OFDM QPSK	273@0	97.603	100.6
77	30	100	641666	3624.99	CP-OFDM 16 QAM	273@0	97.467	100.5
77	30	100	641666	3624.99	CP-OFDM 64 QAM	273@0	97.276	100.6
77	30	100	641666	3624.99	CP-OFDM 256 QAM	273@0	97.551	100.6

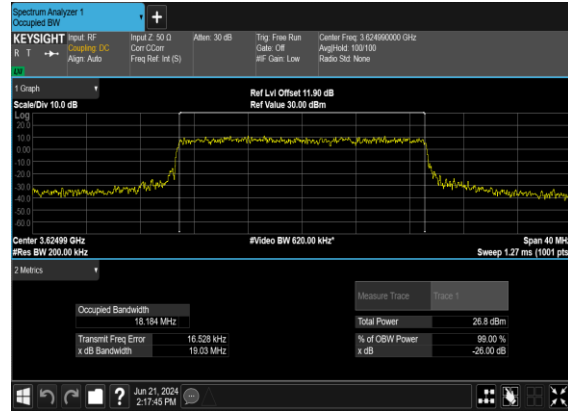




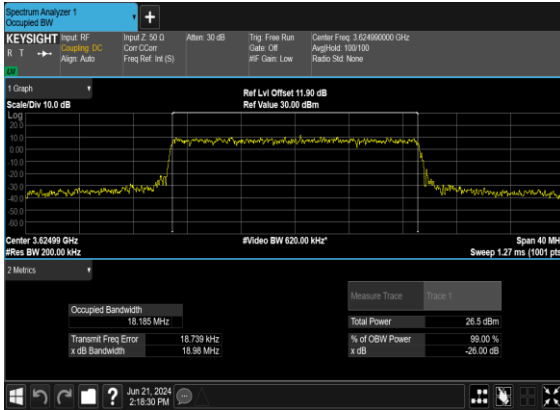
N77(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



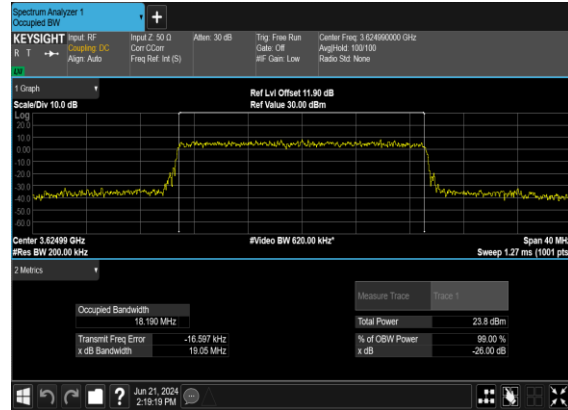
N77(20M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

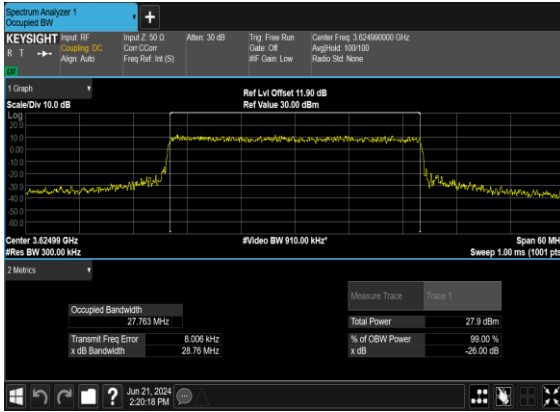


N77(20M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





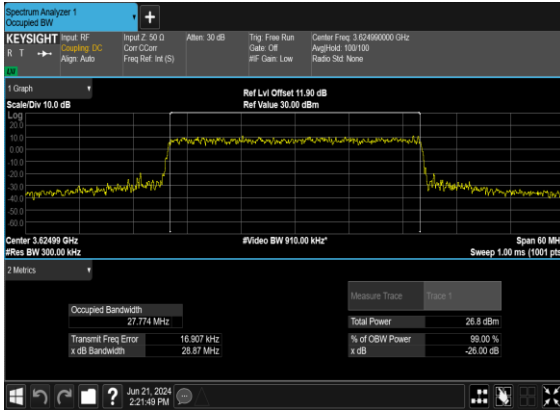
N77(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



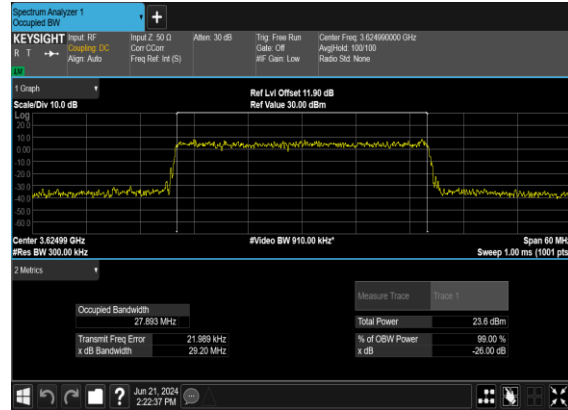
N77(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

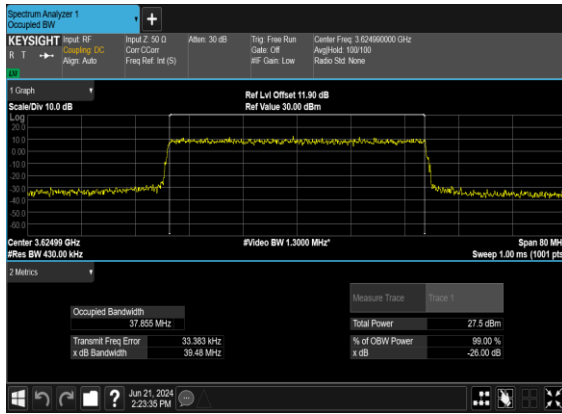


N77(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

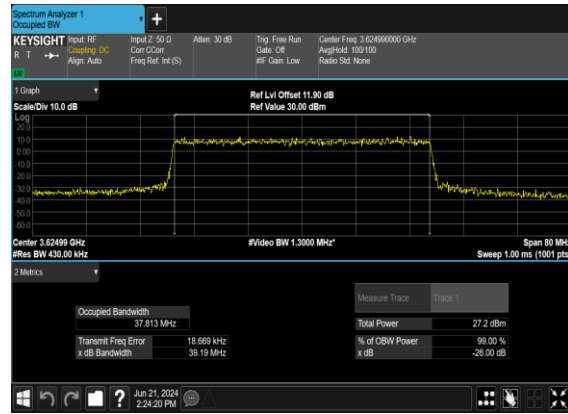




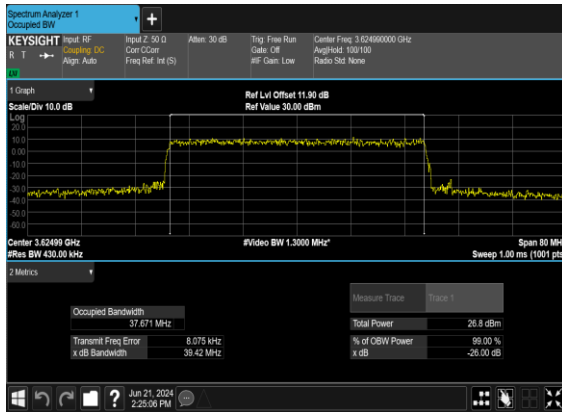
N77(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



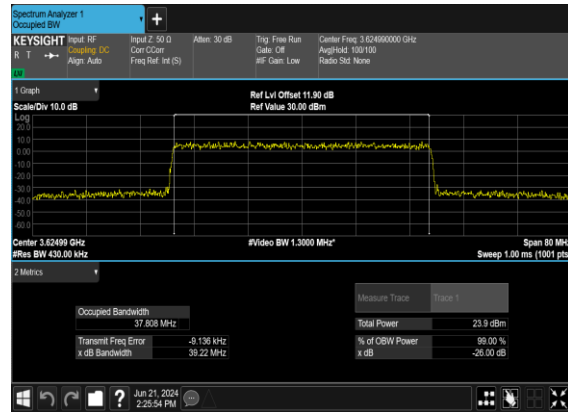
N77(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

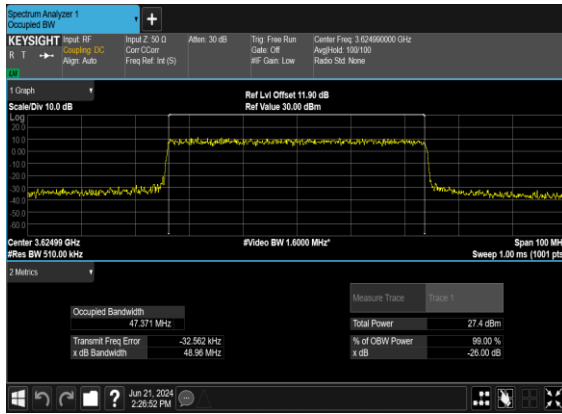


N77(40M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

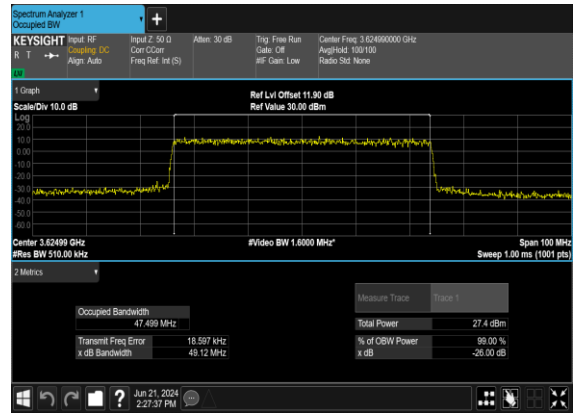




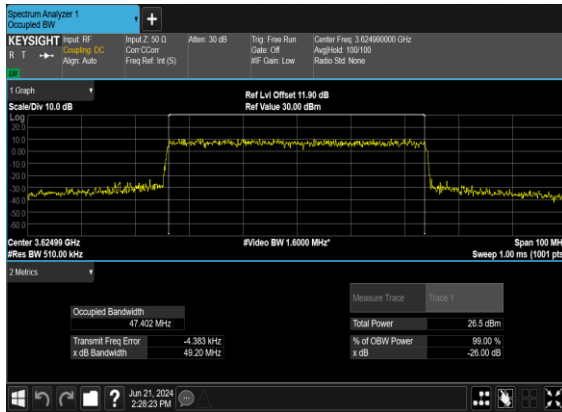
N77(50M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



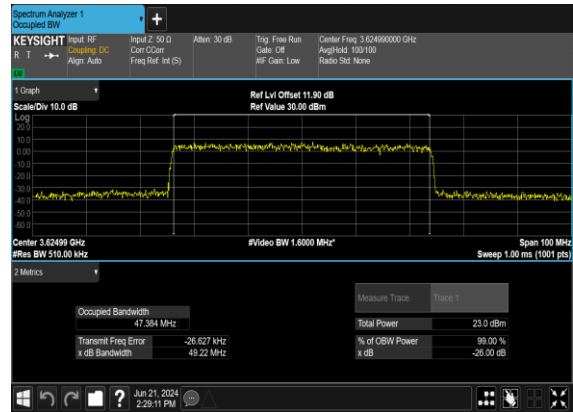
N77(50M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(50M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

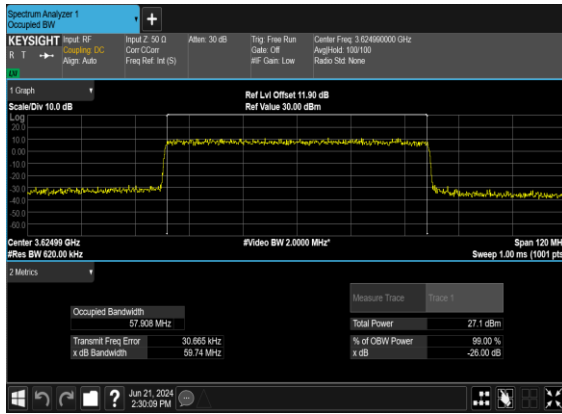


N77(50M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

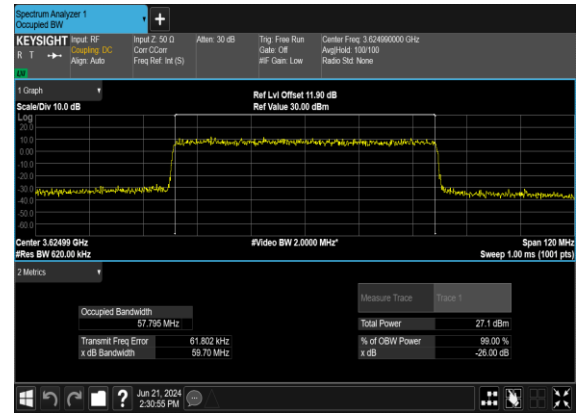




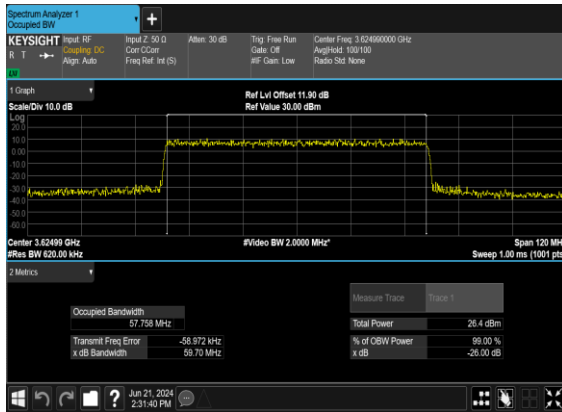
N77(60M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



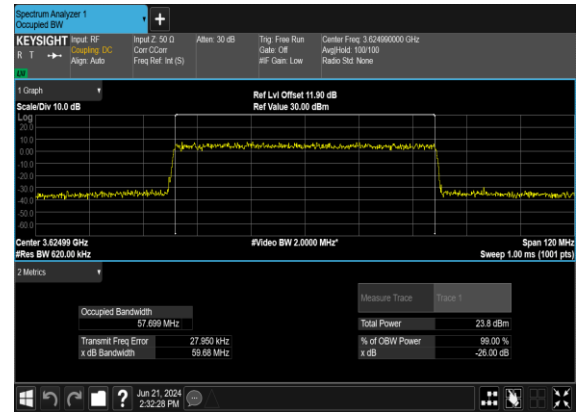
N77(60M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

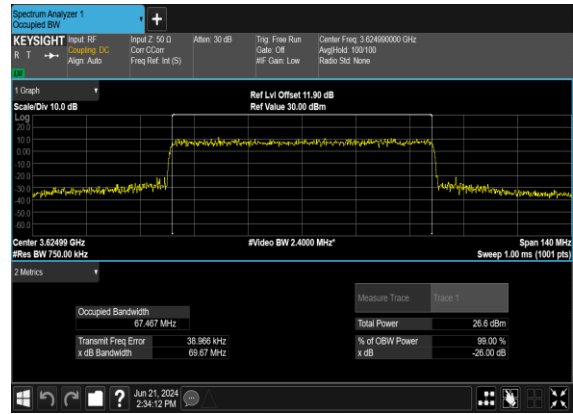




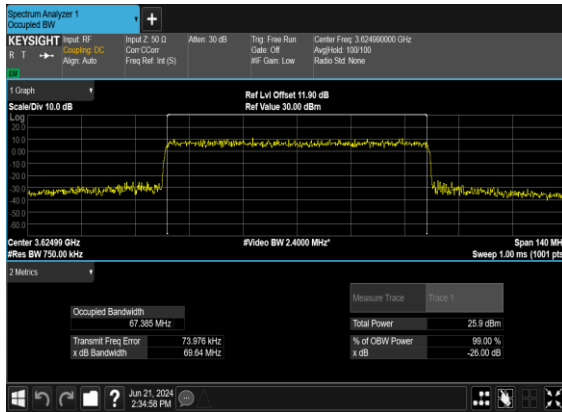
N77(70M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



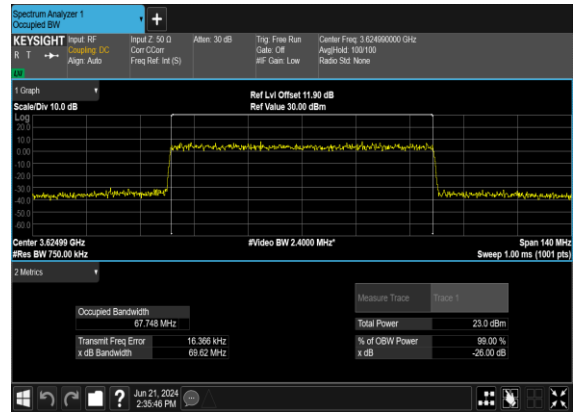
N77(70M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(70M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

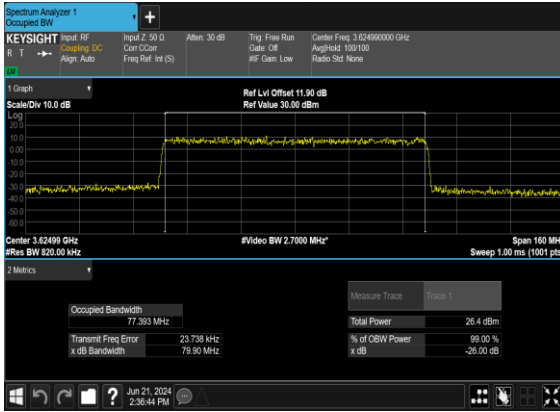


N77(70M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

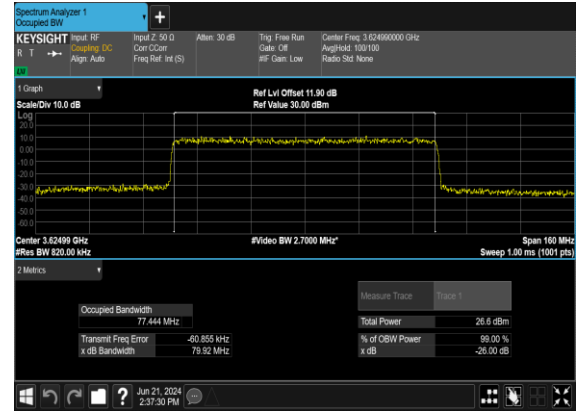




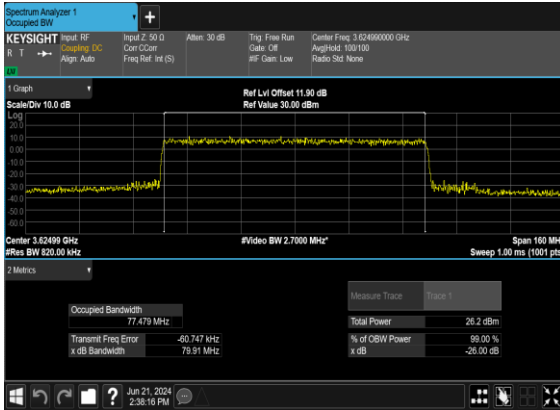
N77(80M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



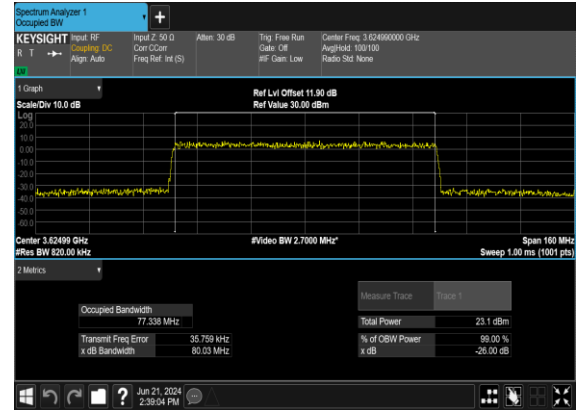
N77(80M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N77(80M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

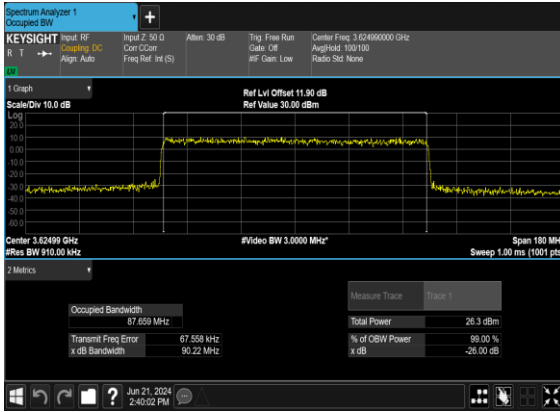


N77(80M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH





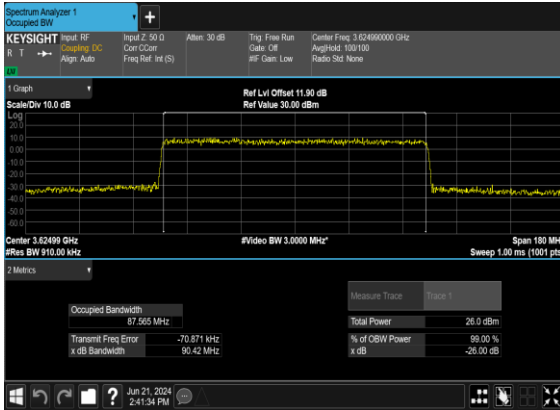
N77(90M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



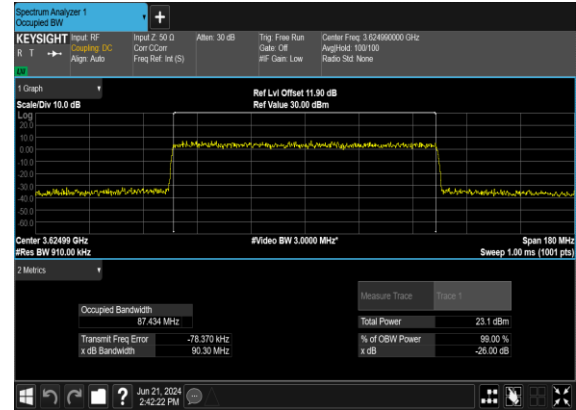
N77(90M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N77(90M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N77(90M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



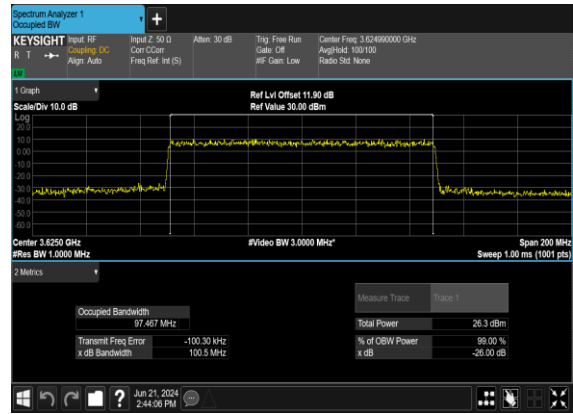




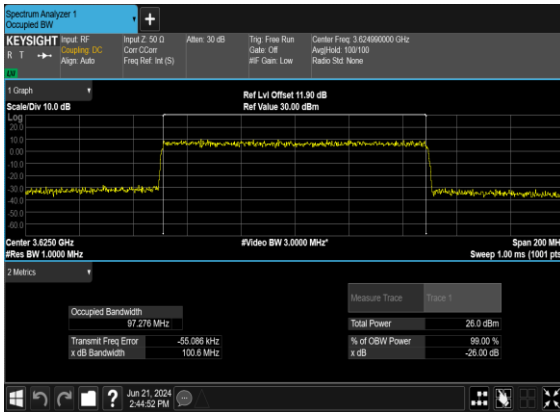
N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



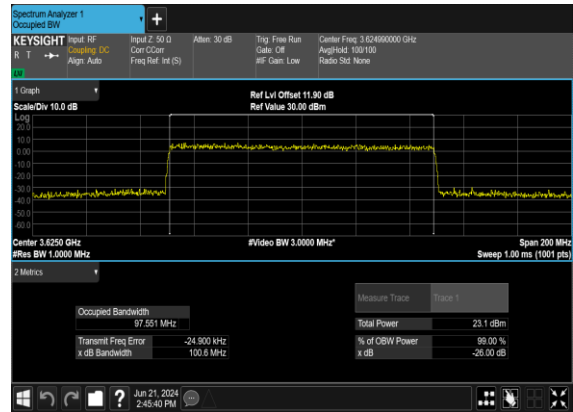
N77(100M)\_CP-OFDM\_16\_QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_64\_QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_256\_QAM\_Outer\_Full\_Mid\_CH





### Adjacent Channel Leakage Ratio

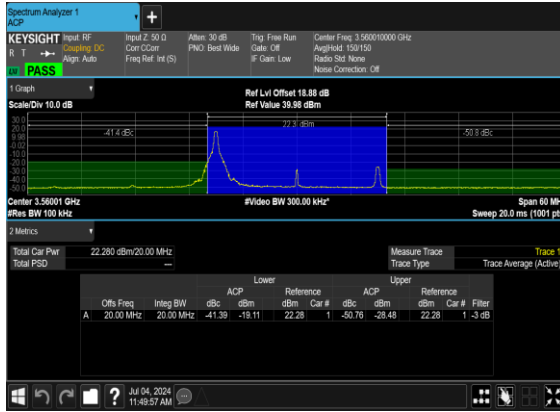
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
77	30	20	637334	3560.01	CP-OFDM QPSK	1@0	-11.39	-20.76	see graph	PASS
77	30	20	637334	3560.01	CP-OFDM QPSK	1@50	-22.47	-14.59	see graph	PASS
77	30	20	637334	3560.01	CP-OFDM QPSK	51@0	-9.78	-10.02	see graph	PASS
77	30	20	641666	3624.99	CP-OFDM QPSK	1@0	-11.05	-17.33	see graph	PASS
77	30	20	641666	3624.99	CP-OFDM QPSK	1@50	-16.46	-12.24	see graph	PASS
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	-8.36	-8.7	see graph	PASS
77	30	20	646000	3690.0	CP-OFDM QPSK	1@0	-11.61	-15.92	see graph	PASS
77	30	20	646000	3690.0	CP-OFDM QPSK	1@50	-16.19	-11.87	see graph	PASS
77	30	20	646000	3690.0	CP-OFDM QPSK	51@0	-7.81	-7.85	see graph	PASS
77	30	60	638668	3580.02	CP-OFDM QPSK	1@0	-12.31	-14.09	see graph	PASS
77	30	60	638668	3580.02	CP-OFDM QPSK	1@161	-16.35	-11.49	see graph	PASS
77	30	60	638668	3580.02	CP-OFDM QPSK	162@0	-8.17	-6.33	see graph	PASS
77	30	60	641666	3624.99	CP-OFDM QPSK	1@0	-10.16	-11.76	see graph	PASS
77	30	60	641666	3624.99	CP-OFDM QPSK	1@161	-11.65	-9.15	see graph	PASS
77	30	60	641666	3624.99	CP-OFDM QPSK	162@0	-5.51	-5.03	see graph	PASS
77	30	60	644666	3669.99	CP-OFDM QPSK	1@0	-10.55	-11.49	see graph	PASS
77	30	60	644666	3669.99	CP-OFDM QPSK	1@161	-12.73	-9.85	see graph	PASS
77	30	60	644666	3669.99	CP-OFDM QPSK	162@0	-5.16	-4.73	see graph	PASS
77	30	100	640000	3600.0	CP-OFDM QPSK	1@0	-10.2	-9.23	see graph	PASS
77	30	100	640000	3600.0	CP-OFDM QPSK	1@272	-13.72	-8.45	see graph	PASS



77	30	100	640000	3600.0	CP-OFDM QPSK	273@0	-6.02	-3.29	see graph	PASS
77	30	100	641666	3624.99	CP-OFDM QPSK	1@0	-11.35	-9.65	see graph	PASS
77	30	100	641666	3624.99	CP-OFDM QPSK	1@272	-12.97	-7.47	see graph	PASS
77	30	100	641666	3624.99	CP-OFDM QPSK	273@0	-5.46	-2.93	see graph	PASS
77	30	100	643332	3649.98	CP-OFDM QPSK	1@0	-9.65	-8.04	see graph	PASS
77	30	100	643332	3649.98	CP-OFDM QPSK	1@272	-13.18	-7.73	see graph	PASS
77	30	100	643332	3649.98	CP-OFDM QPSK	273@0	-5.14	-2.53	see graph	PASS



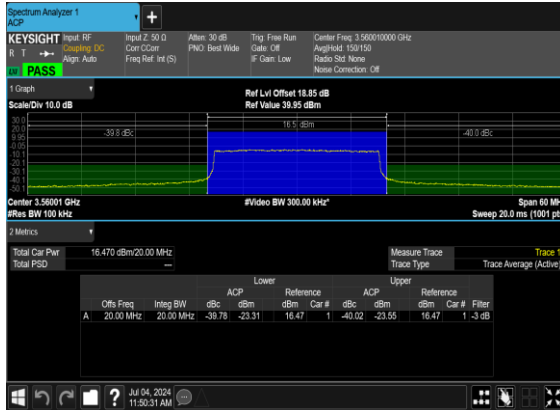
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



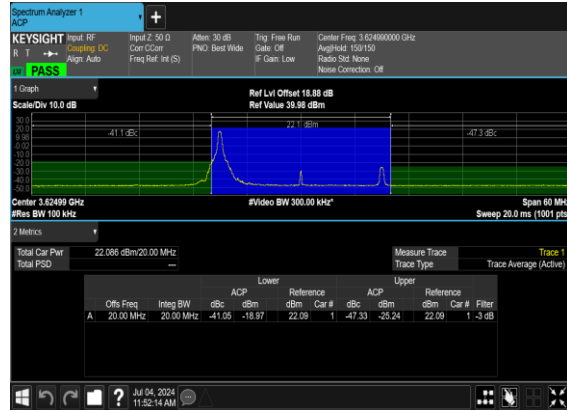
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH

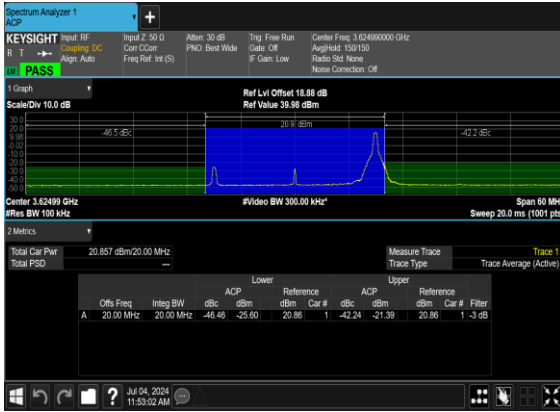


N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

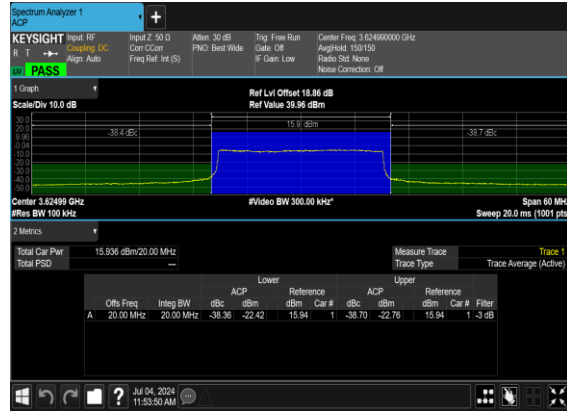




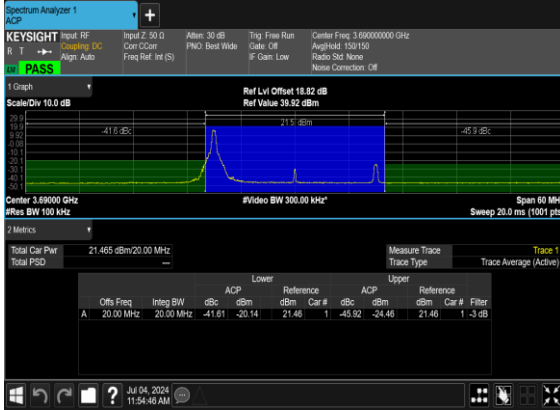
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

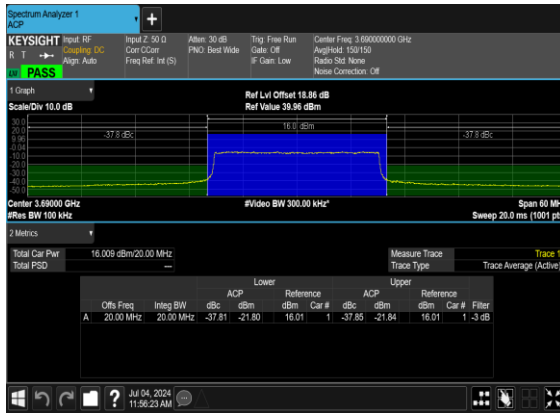


N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_C  
H





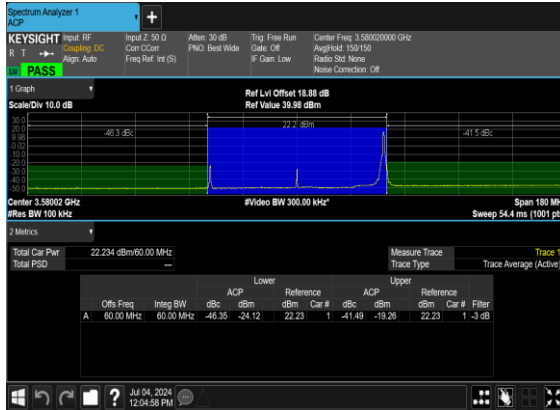
N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



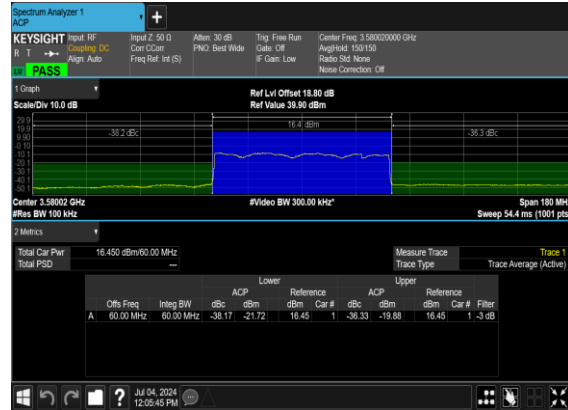
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH

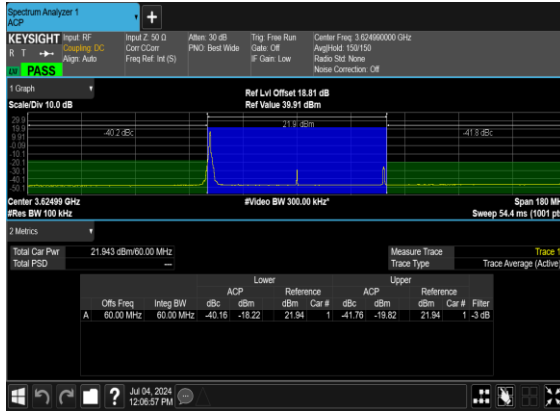


N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH

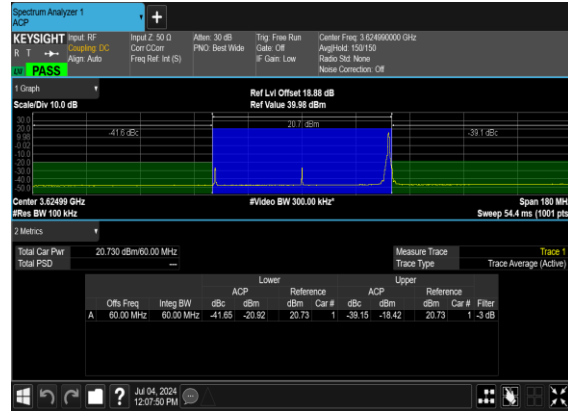




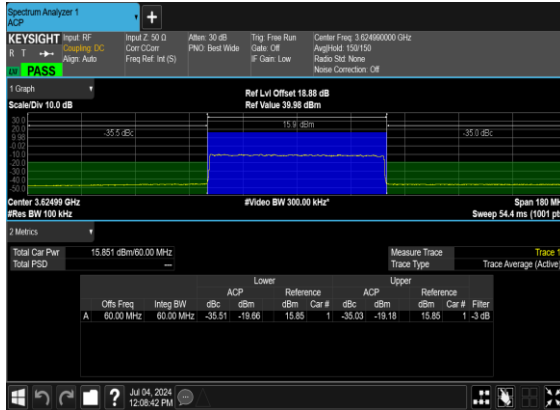
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



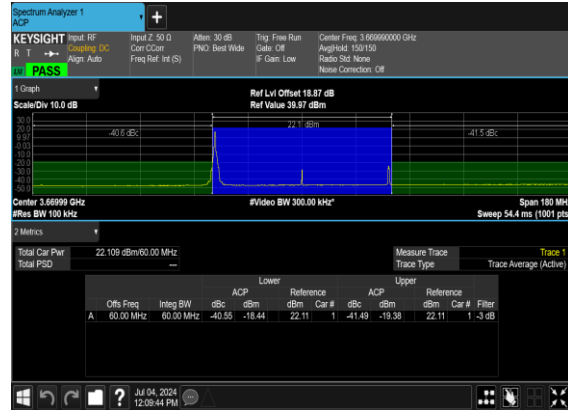
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH

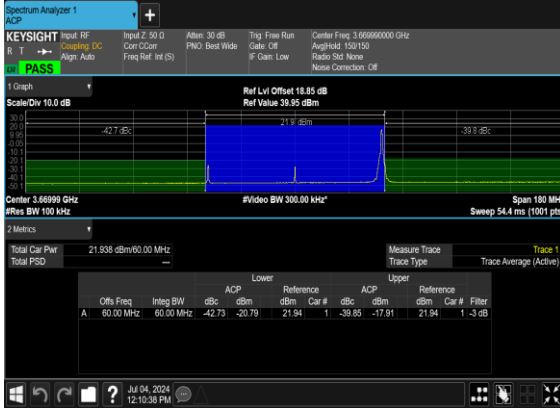


N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH





N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_C  
H



N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH







N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



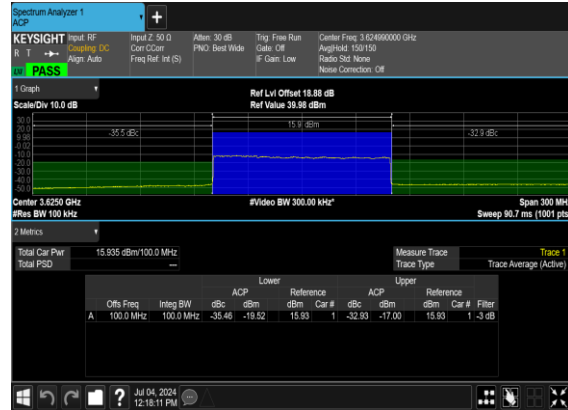
N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH





N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_C  
H



N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH





### Conducted Spurious Emissions

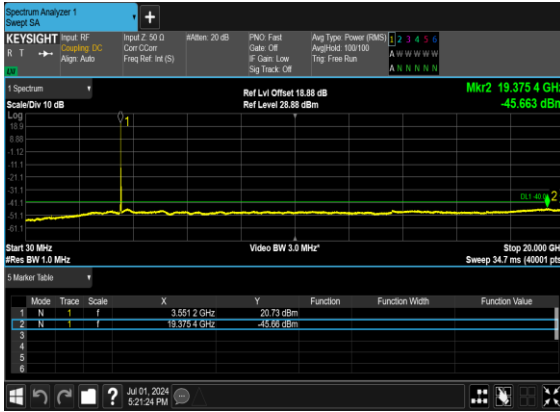
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	---
77	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
77	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	---
77	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	638668	3580.02	CP-OFDM QPSK	1@0	see graph	---
77	30	60	638668	3580.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	638668	3580.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
77	30	60	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	644666	3669.99	CP-OFDM QPSK	1@0	see graph	---
77	30	60	644666	3669.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	644666	3669.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	640000	3600.0	CP-OFDM QPSK	1@0	see graph	---
77	30	100	640000	3600.0	CP-OFDM QPSK	1@0	see graph	PASS



77	30	100	640000	3600.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
77	30	100	641666	3624.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	641666	3624.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	643332	3649.98	CP-OFDM QPSK	1@0	see graph	---
77	30	100	643332	3649.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	643332	3649.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



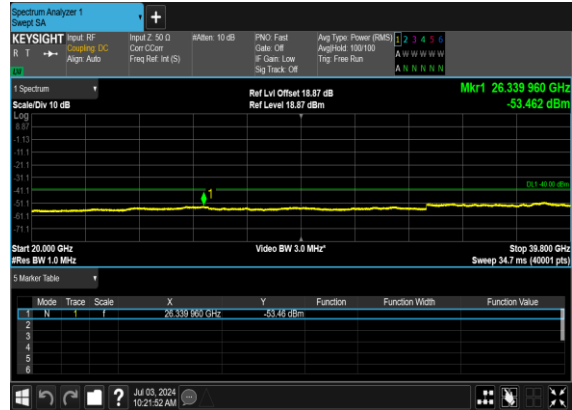
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

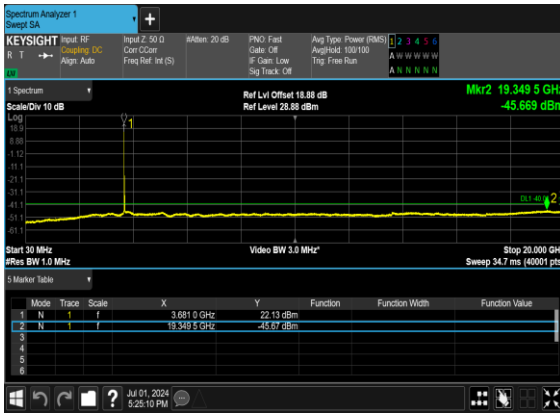


N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH





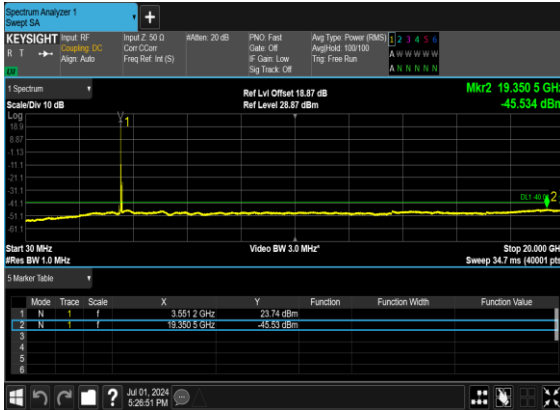
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

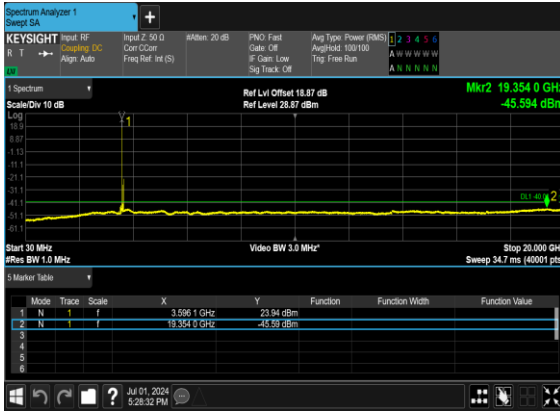


N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

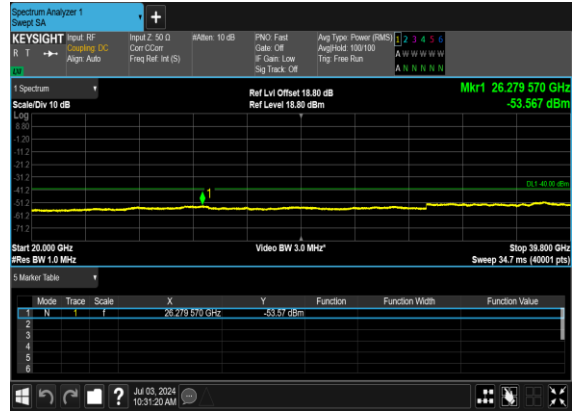




N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

