

Spectrum Analyzer 1
Channel Power

KEYSIGHT Input RF Output 1C
R T → Align Auto Corr CCor Freq Ref. av (S) #PNC Fast Tap Free Run Gate Off #F Gain Low Center Freq. 1.70875000 GHz ApplHd: 500500 Radio Stz None

1 Graph
Scale/Div 10.0 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 1.708750 GHz
#Video BW 11.000 kHz*
Span 800 kHz
Sweep 1.20 ms (1001 pts)
2 Metrics
Total Channel Power -30.60 dBm / 430 kHz
Total Power Spectral Density -66.93 dBm/Hz

Mar 07, 2024
11:07:19 AM

KEYSIGHT Spectrum Analyzer 1
 R T **PASS**
 3 All Range Graph
 Scale Div 10.0 dB
 Log
 20
10
0
-10
-20
-30
-40
-50
-60
 Start 1.700 GHz
 3 All Range Table
 Measure Trace
 Trace Type
 Trace Average (Active)
 Spur Range Start Freq Stop Freq RBW Frequency Amplitude dBm
 1 1.7000 GHz 1.7000 GHz 1.000 MHz 1.709835000 GHz -32.83 dBm -19.83 dB
 2 1.7000 GHz 1.7100 GHz 430.0 MHz 1.709915000 GHz -29.92 dBm -16.92 dB
 3 1.7100 GHz 1.7200 GHz 100.0 MHz 1.711366667 GHz -2.733 dBm -32.73 dB
 Mar 07, 2024
 11:07:47 AM

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF
R T $\rightarrow$ **Clipping DC**
Align: Auto

Input: 2.50 dB
Corr: CC-CT
Freq Ref: 1x (S)

Att: 40 dB

Trig: Free Run
Gate: Off
IF: Chan: Low

Center Freq: 22.005000000 GHz
Amp/Hz: 100/100
Ratio Std: None

dB PASS

3 All Range Graph

Scale/Div: 10.0 dB

Log

Start: 1.700 GHz Stop: 1.720 GHz

Ref List Offset: 8.00 dB
Ref Value: 30.00 dBm

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	1.7000 GHz	1.7000 GHz	1.000 MHz	1.709555000 GHz	-34.43 dBm	-24.43 dB
2	1	1.7090 GHz	1.7100 GHz	430.0 MHz	1.70991667 GHz	-30.93 dBm	-17.93 dB
3	3	1.7100 GHz	1.7200 GHz	100.0 MHz	1.711500000 GHz	-3.306 dBm	-33.31 dB

Trace Type: Measure Trace
Trace Average: (Active)

Mar 07, 2024
11:08:05 AM

The screenshot displays the Keysight Spectrum Analyzer 1 interface. The top panel shows the input signal as 'Input 2: 50 D' and the center frequency is set to 22.000000000 GHz. The frequency range is from 1.770 GHz to 1.790 GHz. The signal is a narrowband peak at 1.780 GHz with a power level of approximately -10 dBm. The bottom panel shows a table of measured signals.

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.77935667 GHz	20.08 dBm	-3.922 dB
2	2	1.7800 GHz	1.7810 GHz	430.0 kHz	1.7801667 GHz	-17.10 dBm	-4.101 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.781000000 GHz	-32.53 dBm	-19.53 dB

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input Ref: **Clamping DC**
R T $\rightarrow$ **Auto**
Amps: Auto

Input Z: 50 Ω
Cen C/Car: **Freq Ref: Int (S)**

Att: 40 dB

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.00000000 GHz
Avg/Hold: 100/Std
Radio Std: None

IN PASS

3 All Range Graph

Scale/Div: 10.0 dB

Ref Lvl Offset: 8.00 dB
Ref Value: 38.00 dBm

Log

Start: 1.770 GHz Stop: 1.790 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.7793200000 GHz	19.83 dBm	-10.47 dB
2	2	1.7800 GHz	1.7810 GHz	430.0 kHz	1.7800000000 GHz	-16.69 dBm	-3.691 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.7820200000 GHz	-32.95 dBm	-19.95 dB

Measure Trace
Trace Type

Trace 1
Trace Average (Active)

Mar 07, 2004
11:10:39 AM

Screenshot of Keysight Spectrum Analyzer showing a signal at 1.780 GHz. The display shows a sharp peak at 1.780 GHz with a power level of approximately -30 dBm. The frequency range is set from 1.770 GHz to 1.790 GHz. The resolution bandwidth (RBW) is 100 kHz. The video bandwidth (VBW) is 1 MHz. The sweep time is 100 ms. The center frequency is 1.780 GHz. The span is 20 MHz. The reference level is 0 dBm. The trace is labeled 'Trace 1'.

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	1.7700 GHz	1.7800 GHz	100 kHz	1.77950000 GHz	-2.360 dBm	-32.36 dB
2	2	1.7800 GHz	1.7810 GHz	430 kHz	1.78008333 GHz	-30.25 dBm	-17.25 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.78179500 GHz	-33.60 dBm	-20.80 dB

N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N71

Transmitter Conducted Output Power And ERP, ($G_T - L_C$)=-2.00dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP (dBm)	ERP (W)
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@1	23.9	19.75	0.0944
71	15	5	133100	665.5	DFT-s-OFDM 16 QAM	1@1	22.95	18.8	0.0759
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@1	24.03	19.88	0.0973
71	15	5	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.86	18.71	0.0743
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@1	24.06	19.91	0.0979
71	15	5	139100	695.5	DFT-s-OFDM 16 QAM	1@1	23.04	18.89	0.0774
71	15	10	133600	668	DFT-s-OFDM QPSK	1@1	23.85	19.7	0.0933
71	15	10	133600	668	DFT-s-OFDM 16 QAM	1@1	22.9	18.75	0.0750
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@1	23.9	19.75	0.0944
71	15	10	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.83	18.68	0.0738
71	15	10	138600	693	DFT-s-OFDM QPSK	1@1	23.91	19.76	0.0946
71	15	10	138600	693	DFT-s-OFDM 16 QAM	1@1	22.91	18.76	0.0752
71	15	15	134100	670.5	DFT-s-OFDM QPSK	1@1	23.81	19.66	0.0925
71	15	15	134100	670.5	DFT-s-OFDM 16 QAM	1@1	22.85	18.7	0.0741
71	15	15	136100	680.5	DFT-s-OFDM QPSK	1@1	23.99	19.84	0.0964
71	15	15	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.87	18.72	0.0745
71	15	15	138100	690.5	DFT-s-OFDM QPSK	1@1	23.9	19.75	0.0944
71	15	15	138100	690.5	DFT-s-OFDM 16 QAM	1@1	22.94	18.79	0.0757
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	50@25	24.15	20	0.1000
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	1@1	23.95	19.8	0.0955
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	1@104	23.96	19.81	0.0957
71	15	20	134600	673	DFT-s-OFDM QPSK	50@25	24.04	19.89	0.0975
71	15	20	134600	673	DFT-s-OFDM QPSK	1@1	23.86	19.71	0.0935
71	15	20	134600	673	DFT-s-OFDM QPSK	1@104	23.84	19.69	0.0931
71	15	20	134600	673	DFT-s-OFDM 16 QAM	50@25	23.04	18.89	0.0774
71	15	20	134600	673	DFT-s-OFDM 16 QAM	1@1	22.84	18.69	0.0740
71	15	20	134600	673	DFT-s-OFDM 16 QAM	1@104	22.84	18.69	0.0740
71	15	20	134600	673	DFT-s-OFDM 64 QAM	50@25	21.55	17.4	0.0550
71	15	20	134600	673	DFT-s-OFDM 64 QAM	1@1	21.31	17.16	0.0520
71	15	20	134600	673	DFT-s-OFDM 64 QAM	1@104	21.4	17.25	0.0531
71	15	20	134600	673	DFT-s-OFDM 256 QAM	50@25	19.53	15.38	0.0345
71	15	20	134600	673	DFT-s-OFDM 256 QAM	1@1	19.32	15.17	0.0329
71	15	20	134600	673	DFT-s-OFDM 256 QAM	1@104	19.23	15.08	0.0322
71	15	20	134600	673	CP-OFDM QPSK	53@26	22.5	18.35	0.0684
71	15	20	134600	673	CP-OFDM QPSK	1@1	22.32	18.17	0.0656
71	15	20	134600	673	CP-OFDM QPSK	1@104	22.52	18.37	0.0687
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	50@25	24.17	20.02	0.1005

71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@1	24.01	19.86	0.0968
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@104	24.02	19.87	0.0971
71	15	20	136100	680.5	DFT-s-OFDM QPSK	50@25	24.05	19.9	0.0977
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@1	23.96	19.81	0.0957
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@104	23.96	19.81	0.0957
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	50@25	23.02	18.87	0.0771
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.95	18.8	0.0759
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	1@104	22.88	18.73	0.0746
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	50@25	21.48	17.33	0.0541
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	1@1	21.5	17.35	0.0543
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	1@104	21.54	17.39	0.0548
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	50@25	19.55	15.4	0.0347
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	1@1	19.28	15.13	0.0326
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	1@104	19.42	15.27	0.0337
71	15	20	136100	680.5	CP-OFDM QPSK	53@26	22.52	18.37	0.0687
71	15	20	136100	680.5	CP-OFDM QPSK	1@1	22.58	18.43	0.0697
71	15	20	136100	680.5	CP-OFDM QPSK	1@104	22.44	18.29	0.0675
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	50@25	24.09	19.94	0.0986
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	1@1	23.97	19.82	0.0959
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	1@104	23.97	19.82	0.0959
71	15	20	137600	688	DFT-s-OFDM QPSK	50@25	24.08	19.93	0.0984
71	15	20	137600	688	DFT-s-OFDM QPSK	1@1	24.02	19.87	0.0971
71	15	20	137600	688	DFT-s-OFDM QPSK	1@104	23.95	19.8	0.0955
71	15	20	137600	688	DFT-s-OFDM 16 QAM	50@25	23.05	18.9	0.0776
71	15	20	137600	688	DFT-s-OFDM 16 QAM	1@1	22.97	18.82	0.0762
71	15	20	137600	688	DFT-s-OFDM 16 QAM	1@104	22.86	18.71	0.0743
71	15	20	137600	688	DFT-s-OFDM 64 QAM	50@25	21.53	17.38	0.0547
71	15	20	137600	688	DFT-s-OFDM 64 QAM	1@1	21.4	17.25	0.0531
71	15	20	137600	688	DFT-s-OFDM 64 QAM	1@104	21.5	17.35	0.0543
71	15	20	137600	688	DFT-s-OFDM 256 QAM	50@25	19.53	15.38	0.0345
71	15	20	137600	688	DFT-s-OFDM 256 QAM	1@1	19.2	15.05	0.0320
71	15	20	137600	688	DFT-s-OFDM 256 QAM	1@104	19.31	15.16	0.0328
71	15	20	137600	688	CP-OFDM QPSK	53@26	22.46	18.31	0.0678
71	15	20	137600	688	CP-OFDM QPSK	1@1	22.51	18.36	0.0685
71	15	20	137600	688	CP-OFDM QPSK	1@104	22.56	18.41	0.0693

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0060	PASS	NV
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0041	PASS	LV
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0021	PASS	HV
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0042	PASS	-30°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0062	PASS	-20°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0053	PASS	-10°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0070	PASS	0°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0027	PASS	10°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0060	PASS	20°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0035	PASS	30°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0060	PASS	40°C
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	0.0028	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	100@0	3.97	13	PASS
71	15	20	136100	680.5	DFT-s-OFDM QPSK	100@0	4.49	13	PASS

N71(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



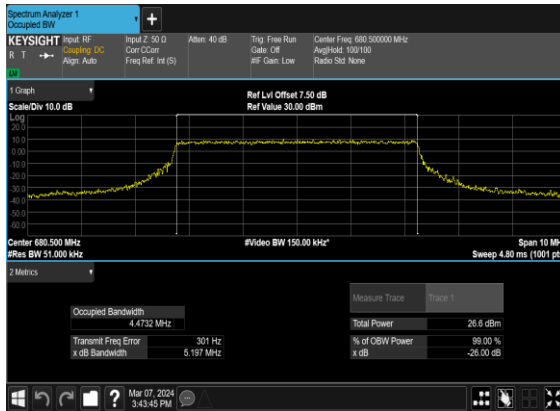
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OFDM_QPSK_Outer_Full_Mid_CH



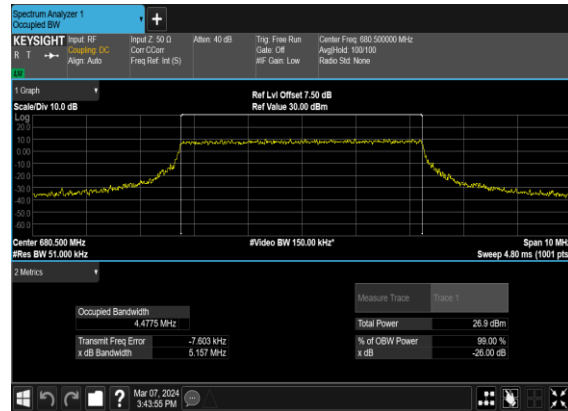
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
71	15	5	136100	680.5	CP-OFDM QPSK	25@0	4.4732	5.197
71	15	5	136100	680.5	CP-OFDM 16 QAM	25@0	4.4775	5.157
71	15	5	136100	680.5	CP-OFDM 64 QAM	25@0	4.4598	5.07
71	15	5	136100	680.5	CP-OFDM 256 QAM	25@0	4.4672	4.978
71	15	10	136100	680.5	CP-OFDM QPSK	52@0	9.2749	10.22
71	15	10	136100	680.5	CP-OFDM 16 QAM	52@0	9.2933	9.868
71	15	10	136100	680.5	CP-OFDM 64 QAM	52@0	9.2783	9.981
71	15	10	136100	680.5	CP-OFDM 256 QAM	52@0	9.2745	9.96
71	15	15	136100	680.5	CP-OFDM QPSK	79@0	14.061	14.78
71	15	15	136100	680.5	CP-OFDM 16 QAM	79@0	14.068	14.77
71	15	15	136100	680.5	CP-OFDM 64 QAM	79@0	14.095	14.85
71	15	15	136100	680.5	CP-OFDM 256 QAM	79@0	14.074	14.83
71	15	20	136100	680.5	CP-OFDM QPSK	106@0	18.877	19.88
71	15	20	136100	680.5	CP-OFDM 16 QAM	106@0	18.898	19.82
71	15	20	136100	680.5	CP-OFDM 64 QAM	106@0	18.883	19.93
71	15	20	136100	680.5	CP-OFDM 256 QAM	106@0	18.894	19.62

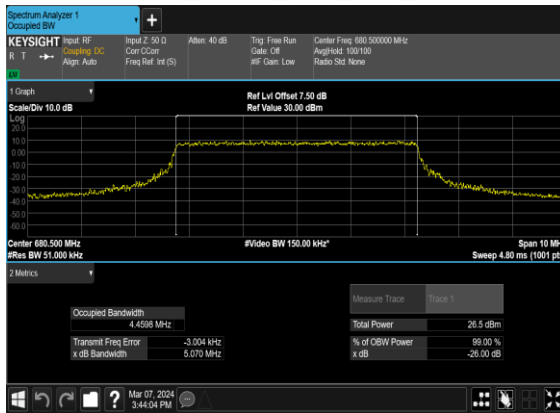
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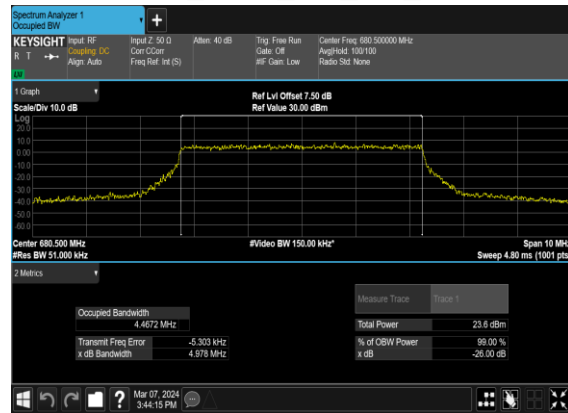
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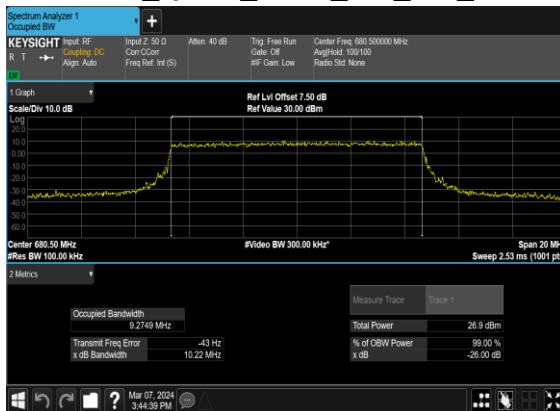
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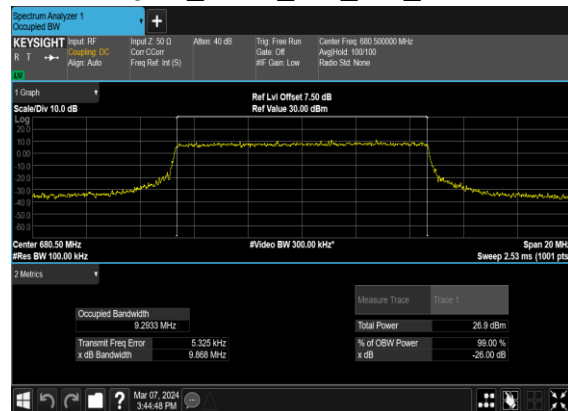
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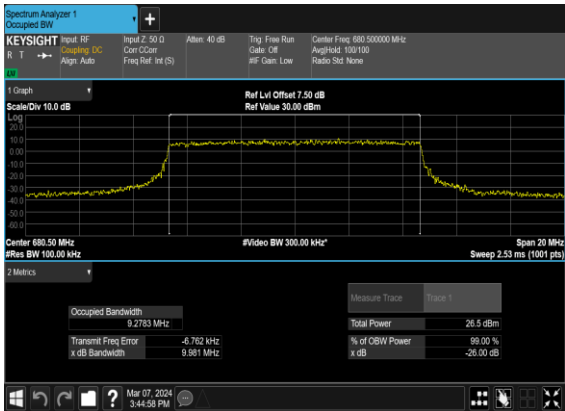
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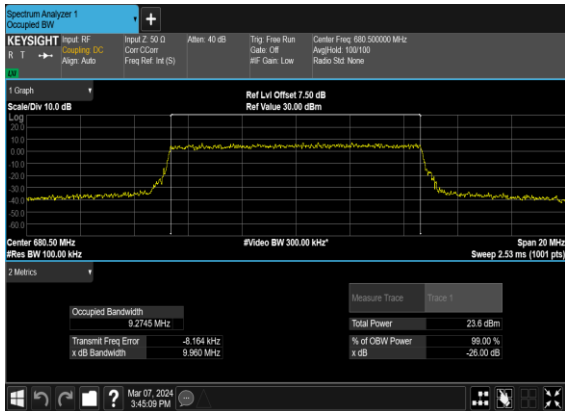
N71(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N71(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



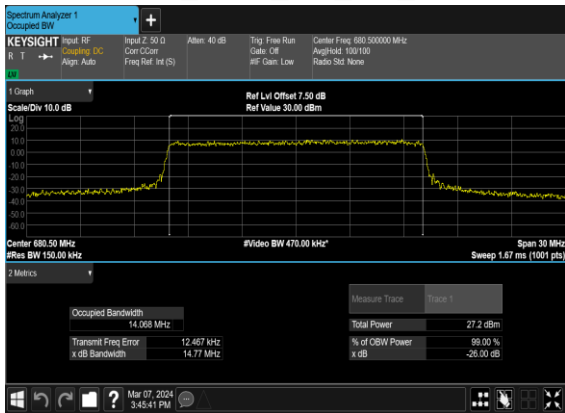
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QAM_Outer_Full_Mid_CH



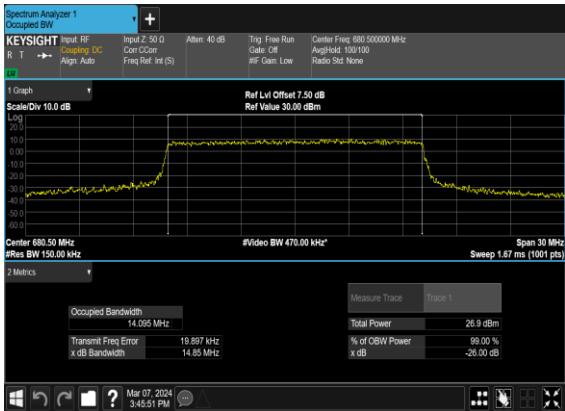
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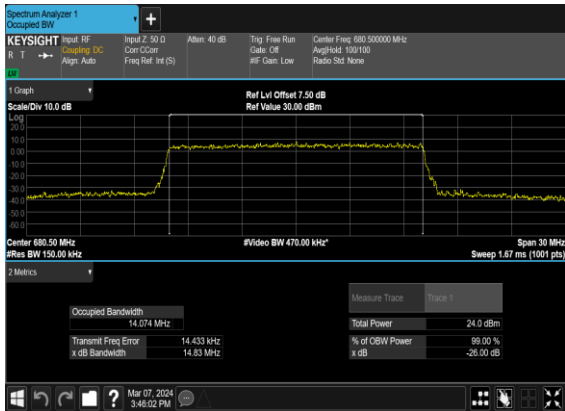
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QAM_Outer_Full_Mid_CH



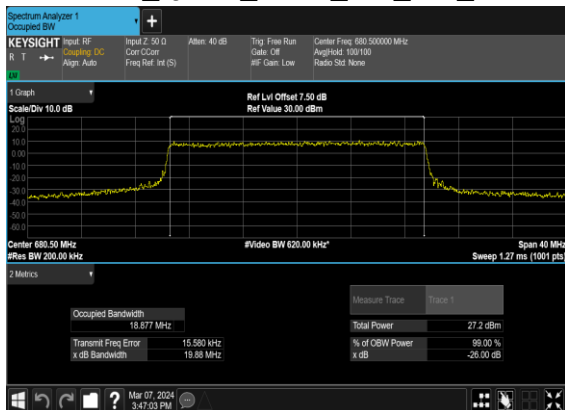
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QAM_Outer_Full_Mid_CH



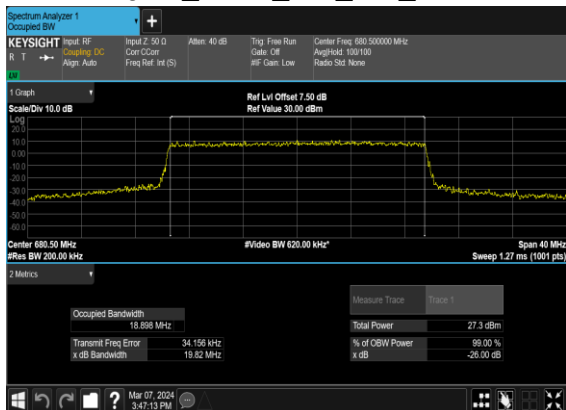
N71(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N71(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



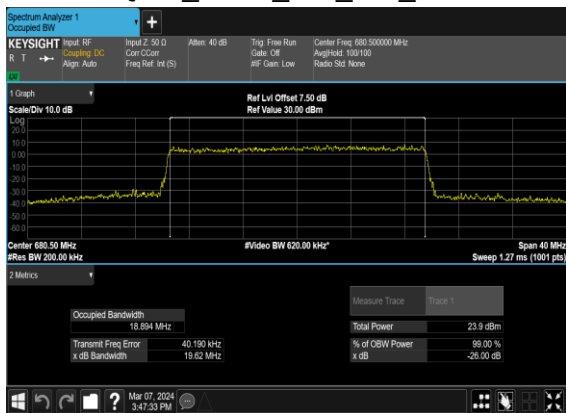
N71(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N71(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N71(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

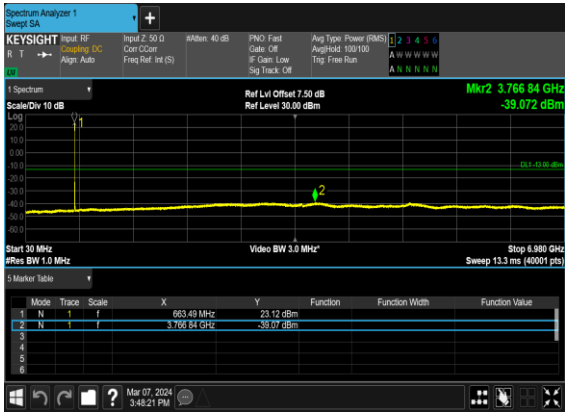


Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	20	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@0	see graph	---

71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

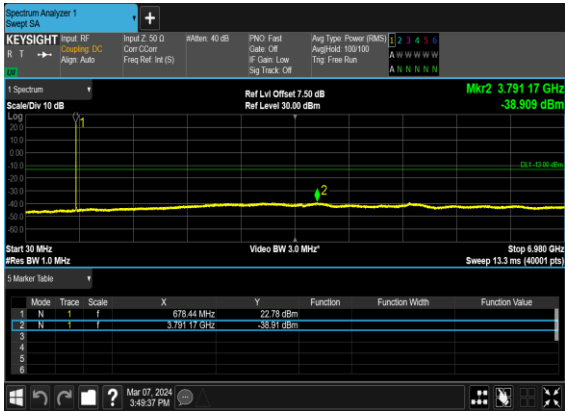
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N71(5M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



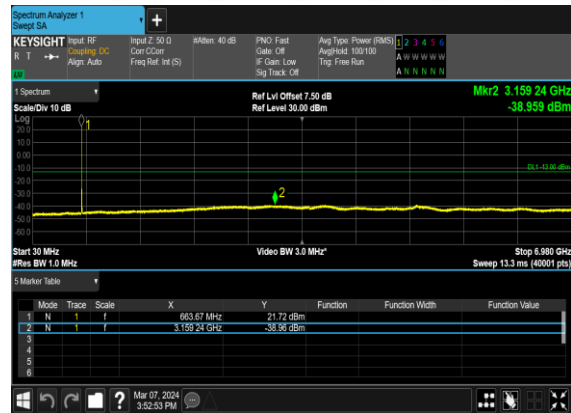
N71(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



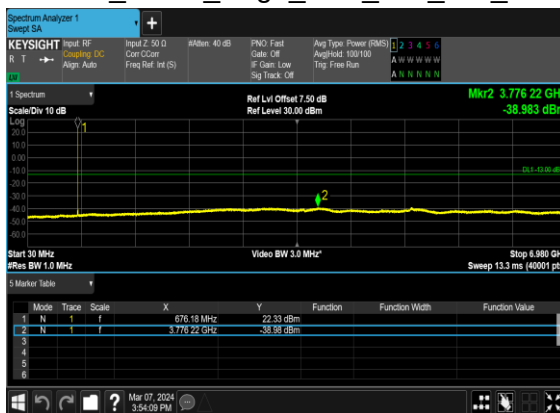
N71(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



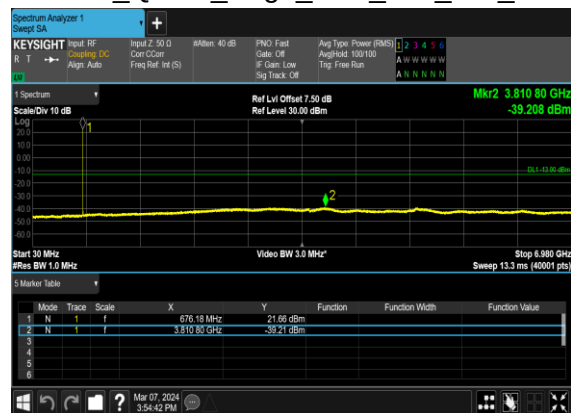
N71(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



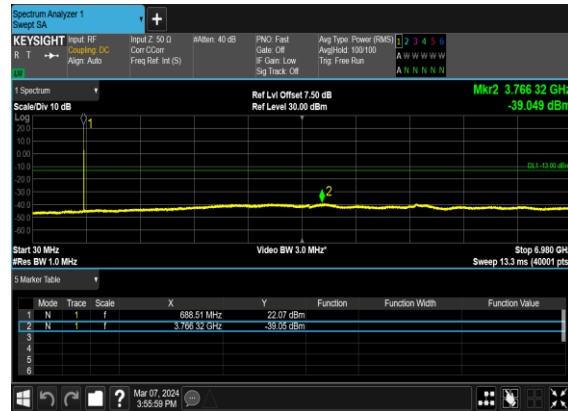
N71(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N71(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



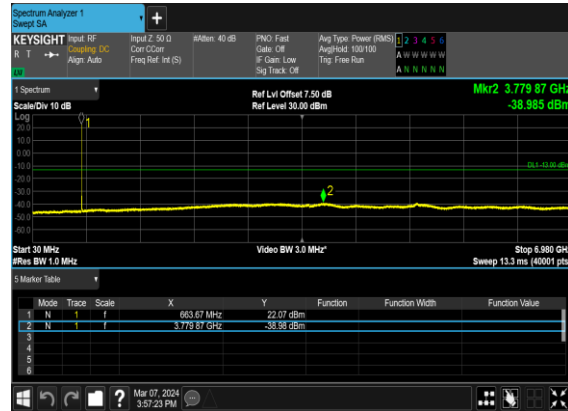
N71(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



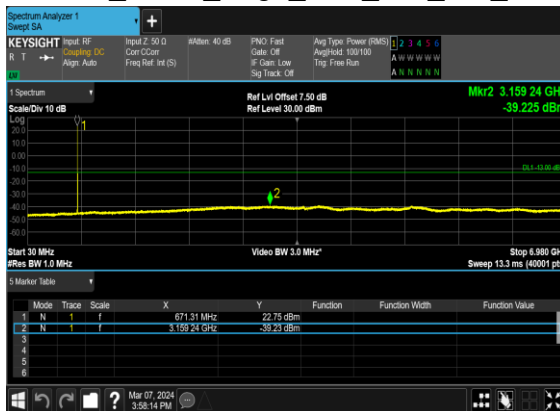
N71(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



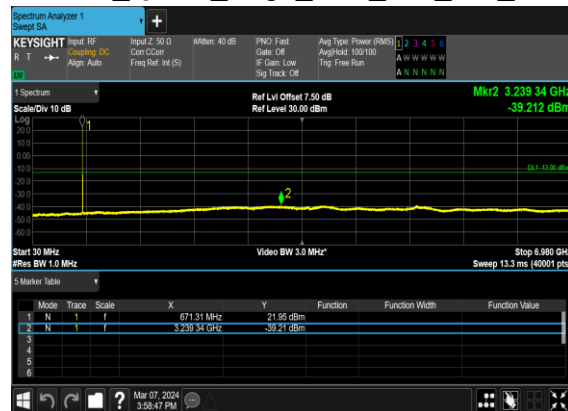
N71(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



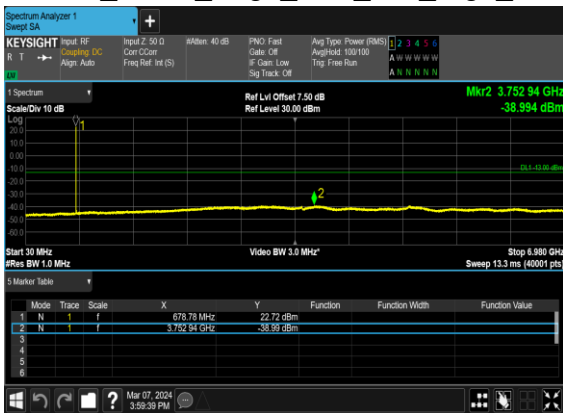
N71(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



N71(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



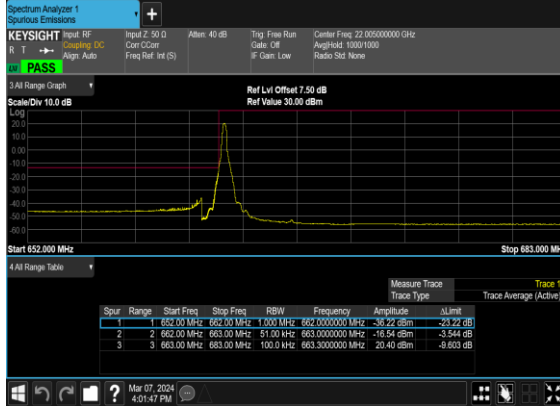
N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



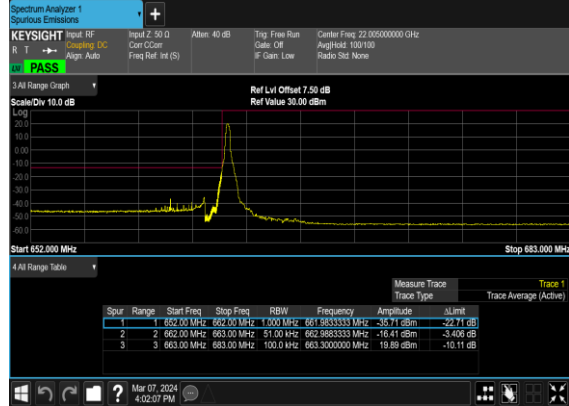
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

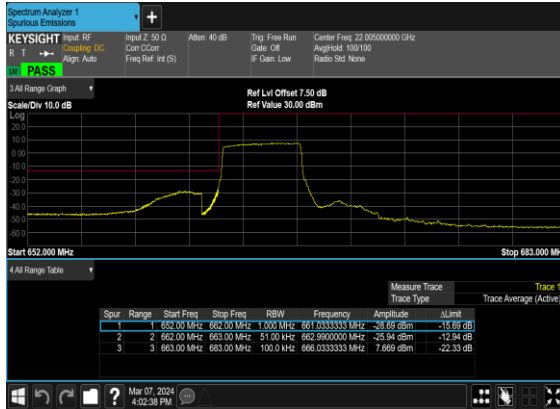
N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N71(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



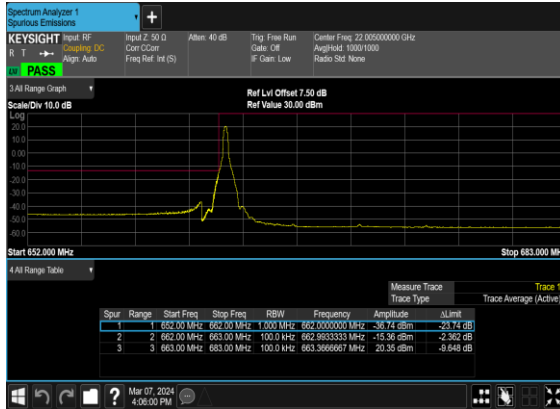
N71(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N71(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



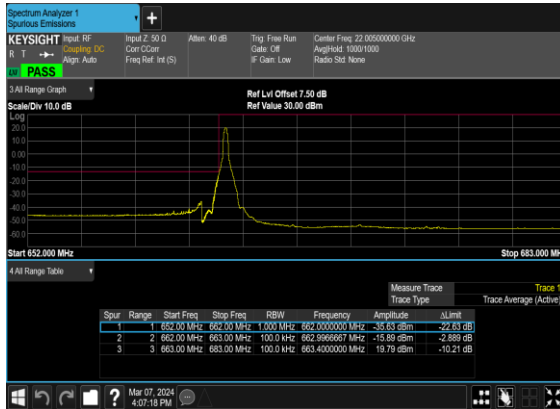
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



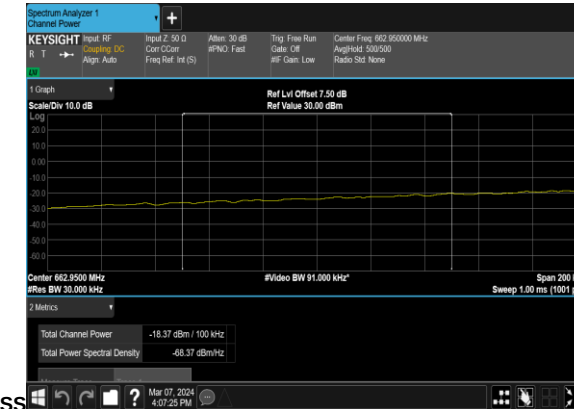
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS



N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



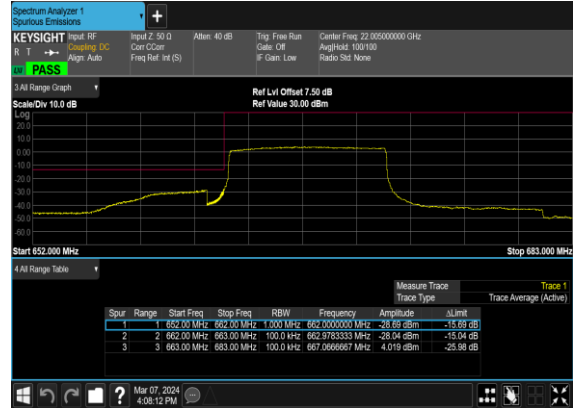
N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA



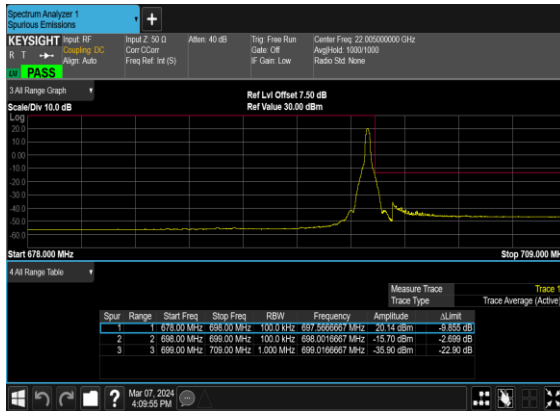
N71(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



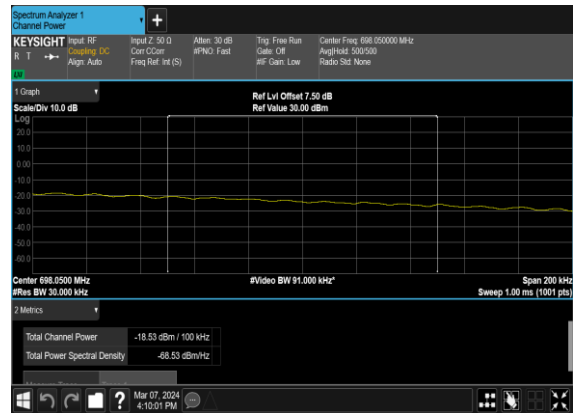
N71(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



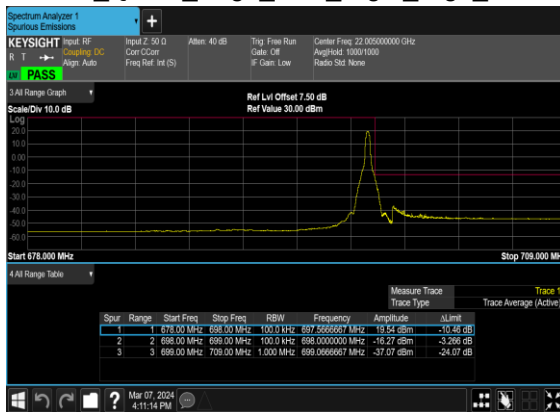
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



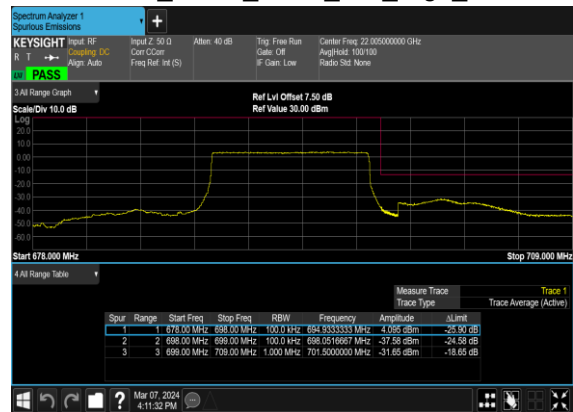
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_P
ASS



N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



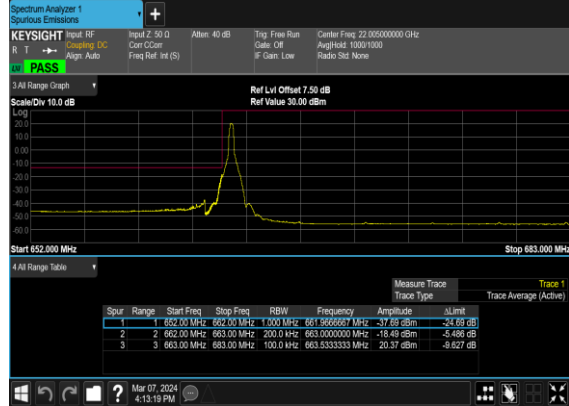
N71(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



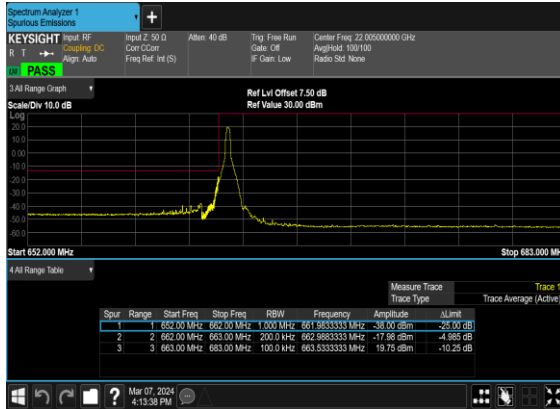
N71(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



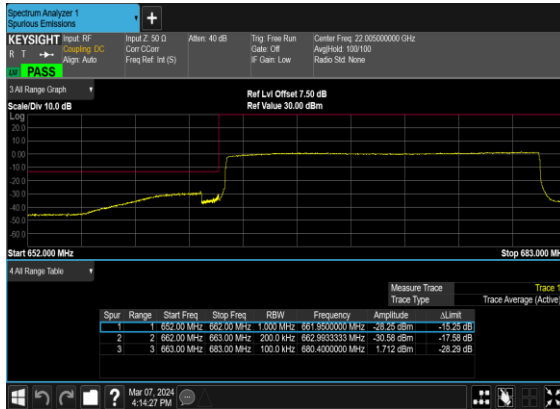
N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



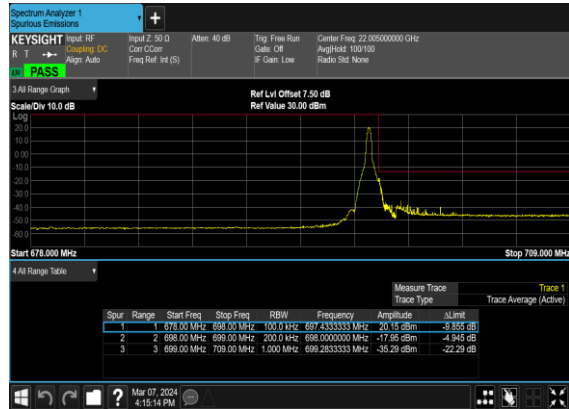
N71(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N71(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N71(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N71(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

n2 SA / NR 40MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3722	-53.36	-13	-40.36	-75.97	-60.11	5.85	12.60	H
	5583	-57.23	-13	-44.23	-81.88	-63.03	7.30	13.10	H
	7444	-54.90	-13	-41.90	-82.12	-58.05	8.35	11.50	H
	3722	-54.45	-13	-41.45	-79.91	-61.20	5.85	12.60	V
	5583	-55.97	-13	-42.97	-81.32	-61.77	7.30	13.10	V
	7444	-54.92	-13	-41.92	-82.12	-58.07	8.35	11.50	V

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

N5 SA / NR 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654.5	-64.91	-13	-51.91	-77.04	-68.16	4.00	9.40	H
	2481.75	-59.70	-13	-46.70	-78.95	-63.27	4.88	10.60	H
	3309	-58.56	-13	-45.56	-79.71	-63.49	5.52	12.60	H
	1654.5	-63.95	-13	-50.95	-76.72	-67.20	4.00	9.40	V
	2481.75	-58.89	-13	-45.89	-78.46	-62.46	4.88	10.60	V
	3309	-57.73	-13	-44.73	-79.58	-62.66	5.52	12.60	V

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

N41 SA / NR 100MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5089.00	-57.41	-25	-32.41	-81.69	-62.97	7.14	12.70	H
	7633.50	-55.40	-25	-30.40	-81.94	-58.70	8.30	11.60	H
	10178.00	-52.51	-25	-27.51	-83.53	-54.03	10.48	12.00	H
	5089.00	-56.41	-25	-31.41	-81.67	-61.97	7.14	12.70	V
	7633.50	-54.53	-25	-29.53	-81.75	-57.83	8.30	11.60	V
	10178.00	-51.00	-25	-26.00	-83.24	-52.52	10.48	12.00	V

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



N66 SA / NR 40MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3452.5	-58.28	-13	-45.28	-79.73	-65.13	5.65	12.50	H
	5178.74	-57.26	-13	-44.26	-82.02	-62.93	7.13	12.80	H
	6905	-55.72	-13	-42.72	-81.93	-59.12	8.40	11.80	H
	3452.5	-58.34	-13	-45.34	-80.73	-65.19	5.65	12.50	V
	5178.74	-56.97	-13	-43.97	-82.12	-62.64	7.13	12.80	V
	6905	-54.27	-13	-41.27	-81.76	-57.67	8.40	11.80	V

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

N71 SA / NR 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1342	-65.02	-13	-52.02	-76.03	-68.27	4.00	9.40	H
	2013	-61.17	-13	-48.17	-78.88	-64.74	4.88	10.60	H
	2684	-59.48	-13	-46.48	-79.11	-64.41	5.52	12.60	H
	1342	-64.26	-13	-51.26	-76.22	-67.51	4.00	9.40	V
	2013	-60.76	-13	-47.76	-78.36	-64.33	4.88	10.60	V
	2684	-59.27	-13	-46.27	-79.36	-64.20	5.52	12.60	V

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