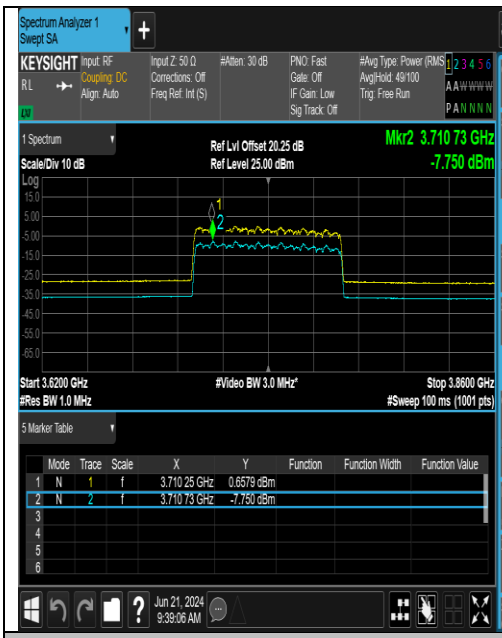

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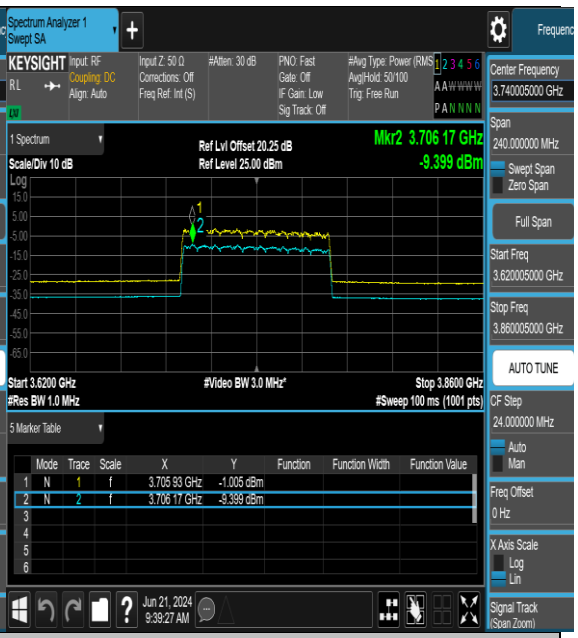

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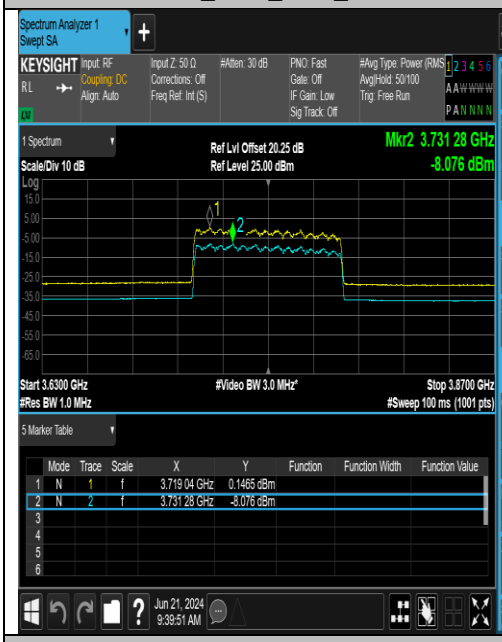

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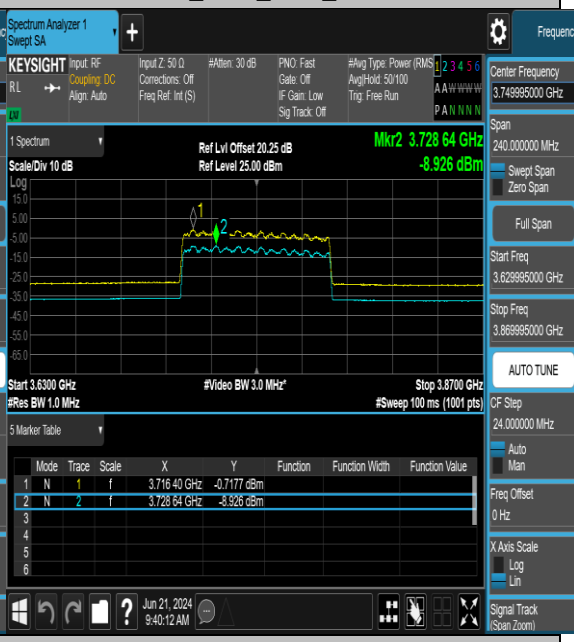

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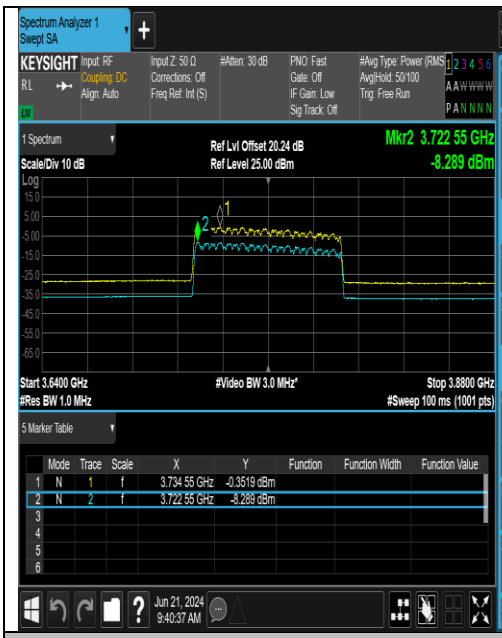

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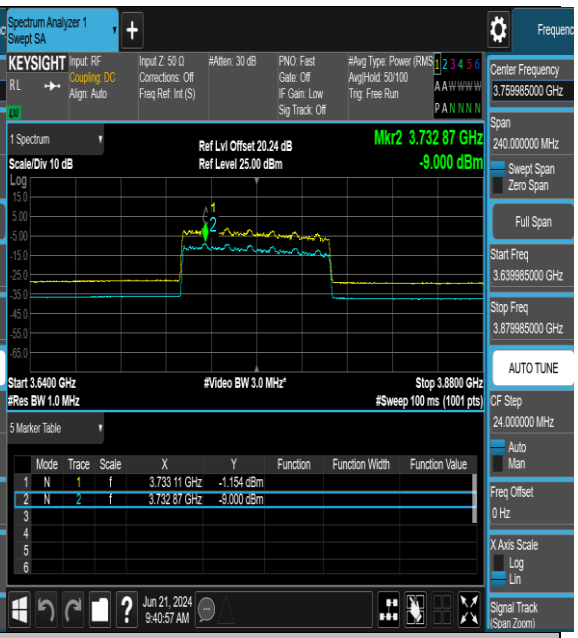

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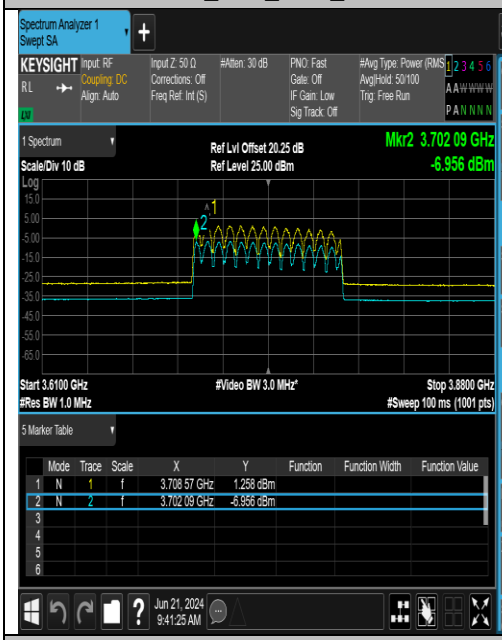

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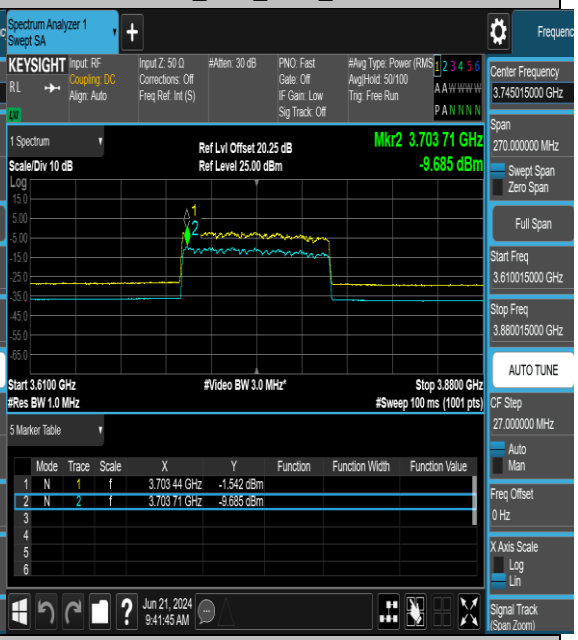

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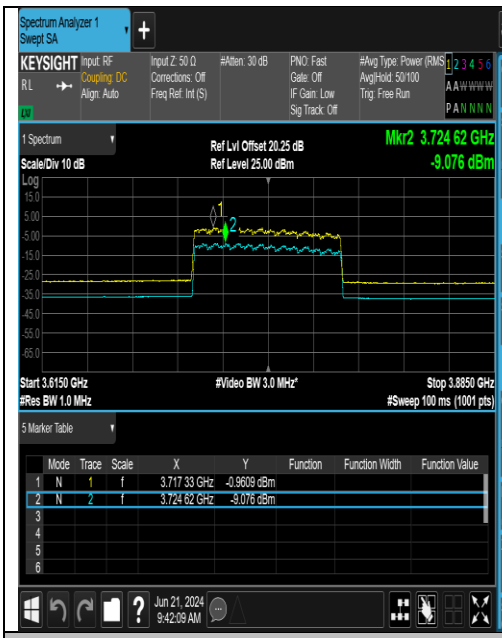

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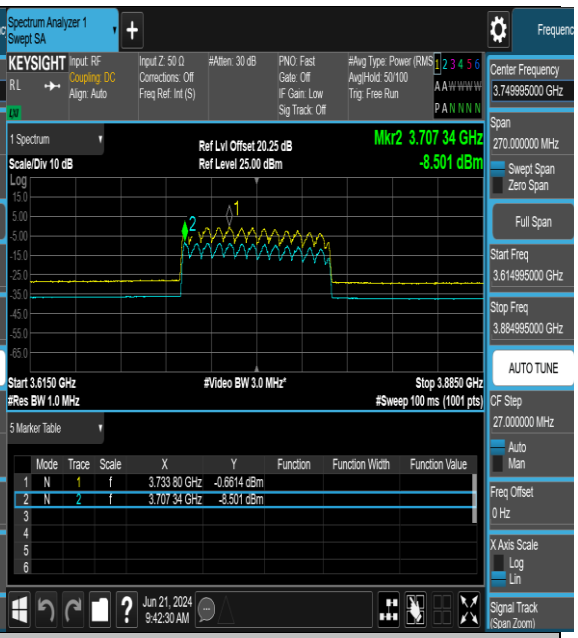

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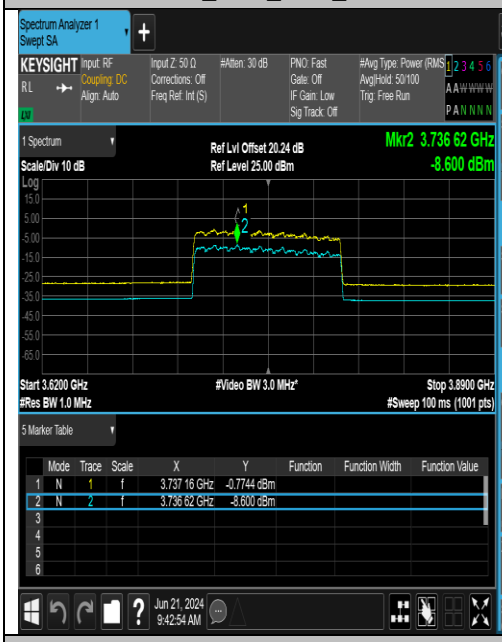

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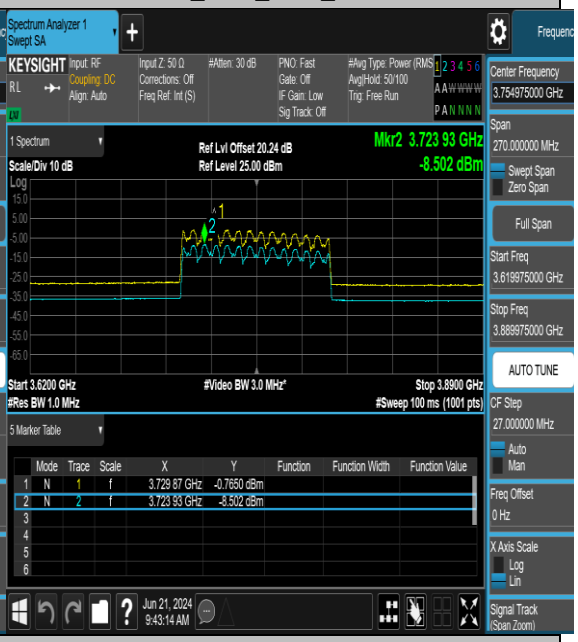

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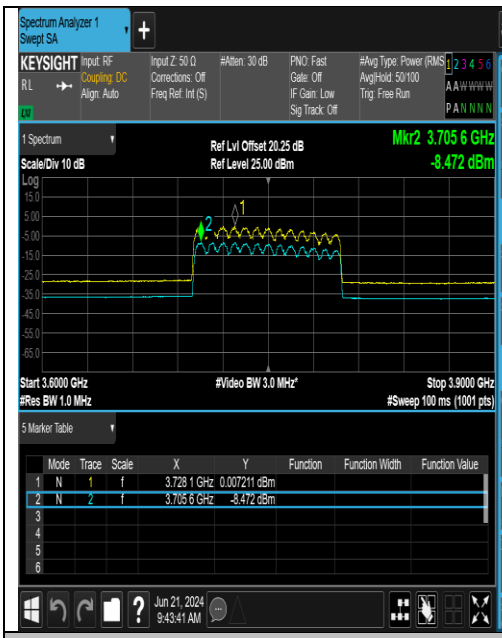

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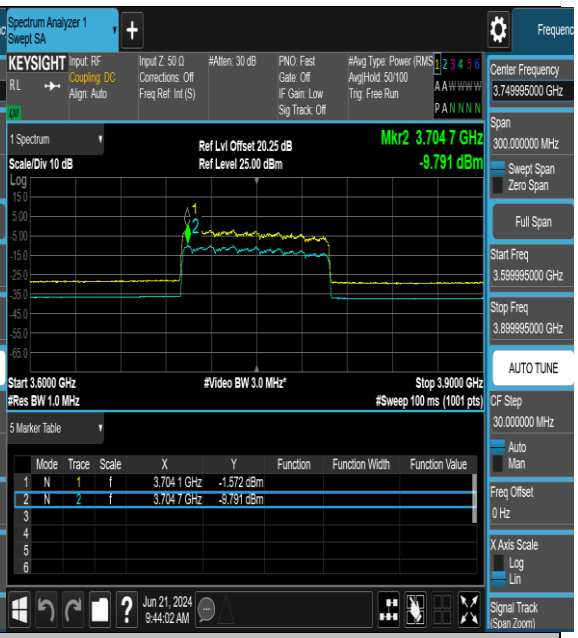

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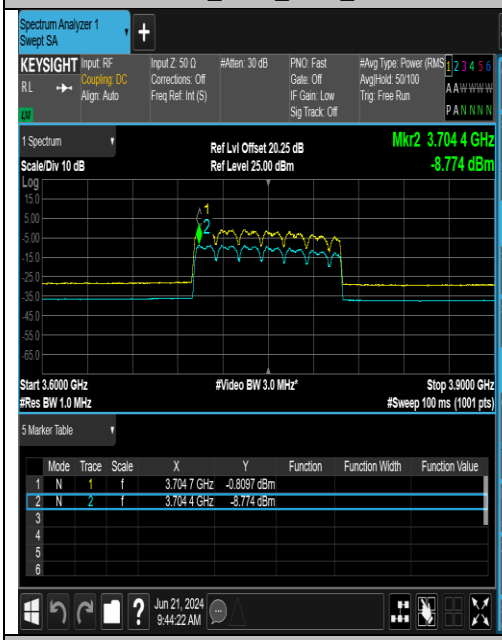

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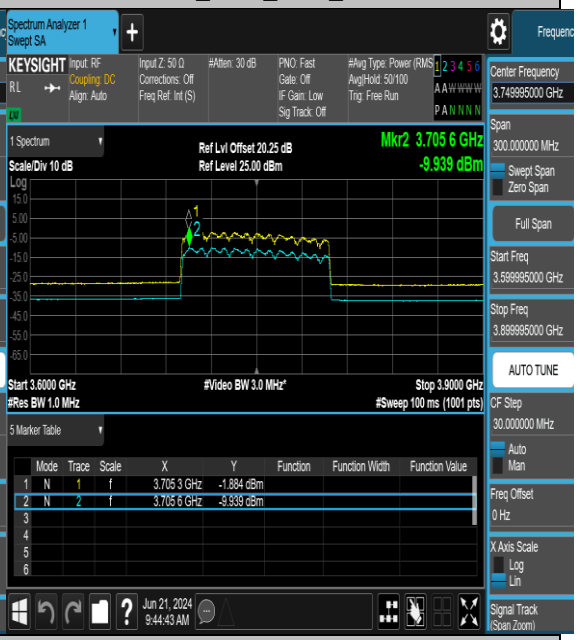

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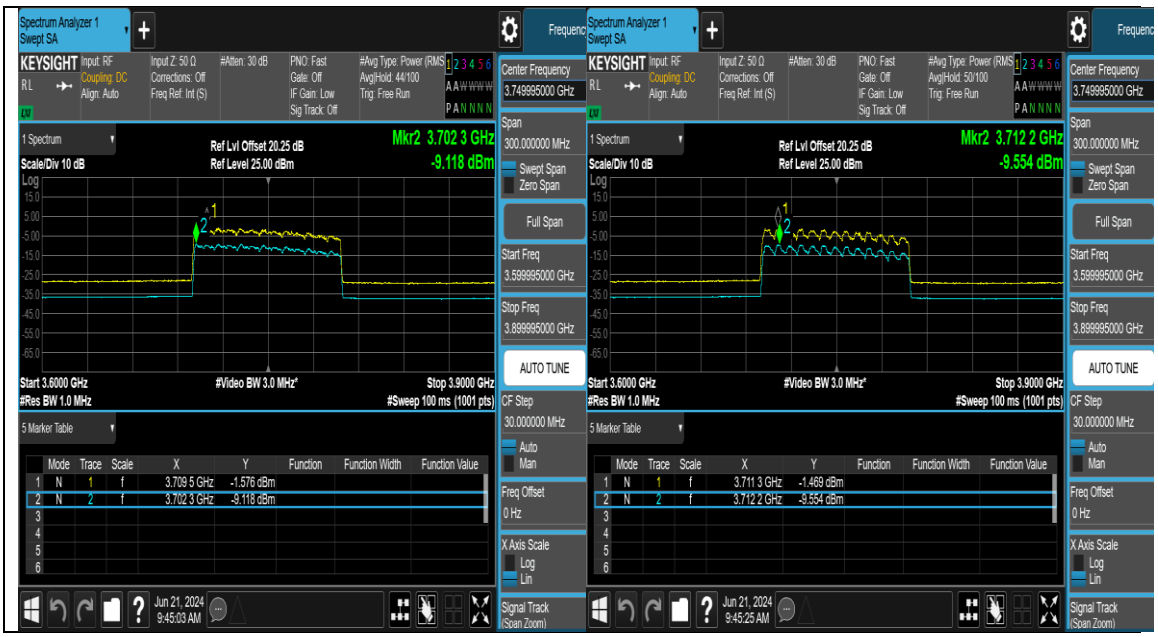
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Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 44/100
Trig: Free Run
Center Frequency
3.749995000 GHz
Span
300.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
3.599995000 GHz
Stop Freq
3.899995000 GHz
AUTO TUNE
CF Step
30.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
1 Spectrum
Ref Lvl Offset 20.25 dB
Ref Level 25.00 dBm
Mkr2 3.702 3 GHz
-9.118 dBm
Scale/Div 10 dB
Log
Start 3.6000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 3.9000 GHz
#Sweep 100 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 3.709 5 GHz -1.576 dBm
2 N 2 f 3.702 3 GHz -9.118 dBm
Jun 21, 2024
9:45:03 AM
Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 50/100
Trig: Free Run
Center Frequency
3.749995000 GHz
Span
300.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
3.599995000 GHz
Stop Freq
3.899995000 GHz
AUTO TUNE
CF Step
30.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
1 Spectrum
Ref Lvl Offset 20.25 dB
Ref Level 25.00 dBm
Mkr2 3.712 2 GHz
-9.554 dBm
Scale/Div 10 dB
Log
Start 3.6000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 3.9000 GHz
#Sweep 100 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 3.711 3 GHz -1.469 dBm
2 N 2 f 3.712 2 GHz -9.554 dBm
Jun 21, 2024
9:45:25 AM

Appendix C: 26dB Bandwidth and Occupied Bandwidth for NSA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
DC_71A_n78A-3700-3800	30	5+10	DFT-QPSK	M+L	Outer_Full	8.6011	9.875	PASS
DC_71A_n78A-3700-3800	30	5+10	DFT-16QAM	M+L	Outer_Full	8.5985	9.939	PASS
DC_71A_n78A-3700-3800	30	5+10	DFT-QPSK	M+M	Outer_Full	8.5907	9.629	PASS
DC_71A_n78A-3700-3800	30	5+10	DFT-16QAM	M+M	Outer_Full	8.5922	9.689	PASS
DC_71A_n78A-3700-3800	30	5+10	DFT-QPSK	M+H	Outer_Full	8.6056	9.850	PASS
DC_71A_n78A-3700-3800	30	5+10	DFT-16QAM	M+H	Outer_Full	8.6002	9.733	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-QPSK	M+L	Outer_Full	12.878	14.18	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-16QAM	M+L	Outer_Full	12.875	14.11	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-QPSK	M+M	Outer_Full	12.868	14.29	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-16QAM	M+M	Outer_Full	12.896	14.16	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-QPSK	M+H	Outer_Full	12.881	14.23	PASS
DC_71A_n78A-3700-3800	30	5+15	DFT-16QAM	M+H	Outer_Full	12.875	14.19	PASS
DC_71A_n78A-3700-3800	30	5+20	DFT-QPSK	M+L	Outer_Full	17.872	19.34	PASS
DC_71A_n78A-3700-3800	30	5+20	DFT-16QAM	M+L	Outer_Full	17.862	19.42	PASS
DC_71A_n78A-3700-3800	30	5+20	DFT-QPSK	M+M	Outer_Full	17.879	19.30	PASS
DC_71A_n78A-3700-3800	30	5+20	DFT-16QAM	M+M	Outer_Full	17.863	19.28	PASS
DC_71A_n78A-3700-3800	30	5+20	DFT-QPSK	M+H	Outer_Full	17.870	19.40	PASS

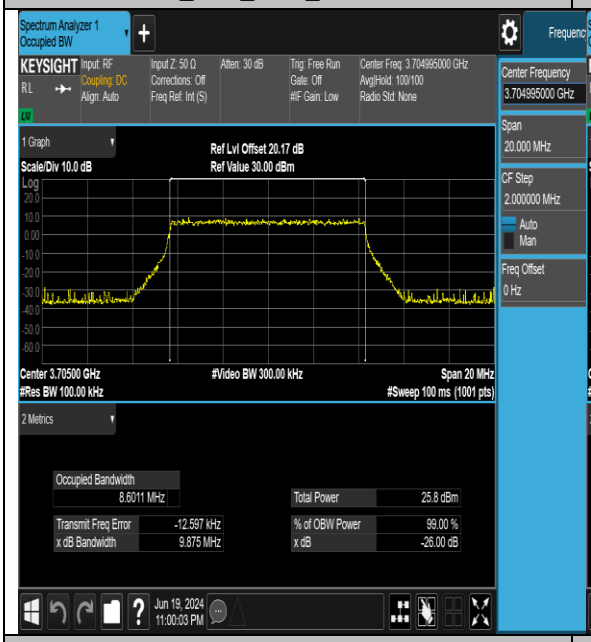
DC_71A_n78A-3700-3800	30	5+20	DFT-16QAM	M+H	Outer_Full	17.891	19.36	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-QPSK	M+L	Outer_Full	26.809	28.51	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-16QAM	M+L	Outer_Full	26.795	28.42	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-QPSK	M+M	Outer_Full	26.746	28.39	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-16QAM	M+M	Outer_Full	26.820	28.82	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-QPSK	M+H	Outer_Full	26.798	28.74	PASS
DC_71A_n78A-3700-3800	30	5+30	DFT-16QAM	M+H	Outer_Full	26.801	28.40	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-QPSK	M+L	Outer_Full	35.714	37.67	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-16QAM	M+L	Outer_Full	35.696	37.61	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-QPSK	M+M	Outer_Full	35.691	37.68	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-16QAM	M+M	Outer_Full	35.708	37.74	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-QPSK	M+H	Outer_Full	35.668	37.75	PASS
DC_71A_n78A-3700-3800	30	5+40	DFT-16QAM	M+H	Outer_Full	35.742	37.63	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-QPSK	M+L	Outer_Full	45.656	48.00	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-16QAM	M+L	Outer_Full	45.687	47.91	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-QPSK	M+M	Outer_Full	45.687	47.78	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-16QAM	M+M	Outer_Full	45.645	47.99	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-QPSK	M+H	Outer_Full	45.686	47.81	PASS
DC_71A_n78A-3700-3800	30	5+50	DFT-16QAM	M+H	Outer_Full	45.679	47.79	PASS
DC_71A_n78A-3700-3800	30	5+60	DFT-QPSK	M+L	Outer_Full	57.729	60.28	PASS
DC_71A_n78A-3700-3800	30	5+60	DFT-16QAM	M+L	Outer_Full	57.816	60.34	PASS

DC_71A_n78A-3700-3800	30	5+60	DFT-QPSK	M+M	Outer_Full	57.716	60.22	PASS
DC_71A_n78A-3700-3800	30	5+60	DFT-16QAM	M+M	Outer_Full	57.746	60.40	PASS
DC_71A_n78A-3700-3800	30	5+60	DFT-QPSK	M+H	Outer_Full	57.779	60.42	PASS
DC_71A_n78A-3700-3800	30	5+60	DFT-16QAM	M+H	Outer_Full	57.889	60.41	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-QPSK	M+L	Outer_Full	64.159	67.09	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-16QAM	M+L	Outer_Full	64.172	66.74	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-QPSK	M+M	Outer_Full	64.203	66.76	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-16QAM	M+M	Outer_Full	64.110	66.91	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-QPSK	M+H	Outer_Full	64.136	66.71	PASS
DC_71A_n78A-3700-3800	30	5+70	DFT-16QAM	M+H	Outer_Full	64.191	66.70	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-QPSK	M+L	Outer_Full	76.953	80.08	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-16QAM	M+L	Outer_Full	76.965	80.18	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-QPSK	M+M	Outer_Full	77.004	79.95	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-16QAM	M+M	Outer_Full	76.956	80.11	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-QPSK	M+H	Outer_Full	76.941	80.01	PASS
DC_71A_n78A-3700-3800	30	5+80	DFT-16QAM	M+H	Outer_Full	76.890	79.97	PASS
DC_71A_n78A-3700-3800	30	5+90	DFT-QPSK	M+L	Outer_Full	86.457	89.94	PASS
DC_71A_n78A-3700-3800	30	5+90	DFT-16QAM	M+L	Outer_Full	86.546	89.86	PASS
DC_71A_n78A-3700-3800	30	5+90	DFT-QPSK	M+M	Outer_Full	86.510	89.98	PASS
DC_71A_n78A-3700-3800	30	5+90	DFT-16QAM	M+M	Outer_Full	86.518	90.01	PASS
DC_71A_n78A-3700-3800	30	5+90	DFT-QPSK	M+H	Outer_Full	86.304	89.66	PASS

DC_71A_n78A-3700-3800	30	5+90	DFT-16QAM	M+H	Outer_Full	86.327	89.69	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-QPSK	M+L	Outer_Full	96.020	99.72	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-16QAM	M+L	Outer_Full	96.009	99.60	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-QPSK	M+M	Outer_Full	96.009	99.72	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-16QAM	M+M	Outer_Full	96.163	99.72	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-QPSK	M+H	Outer_Full	95.949	99.88	PASS
DC_71A_n78A-3700-3800	30	5+100	DFT-16QAM	M+H	Outer_Full	96.006	99.68	PASS

Test Graphs

NTNV_DC_71A_n78A-3700-3800_PC2_30_5+10_M+L_TID1_Ant1#1



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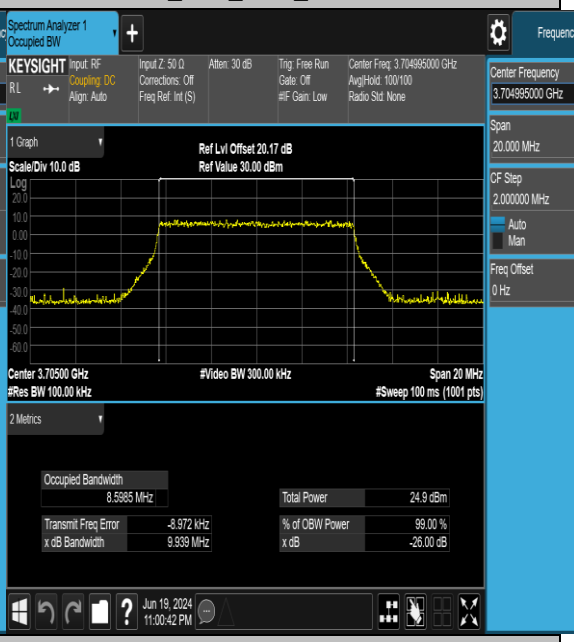

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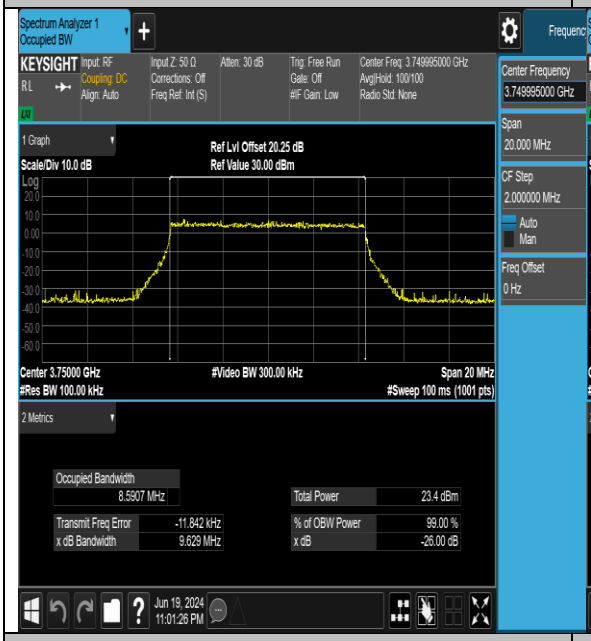

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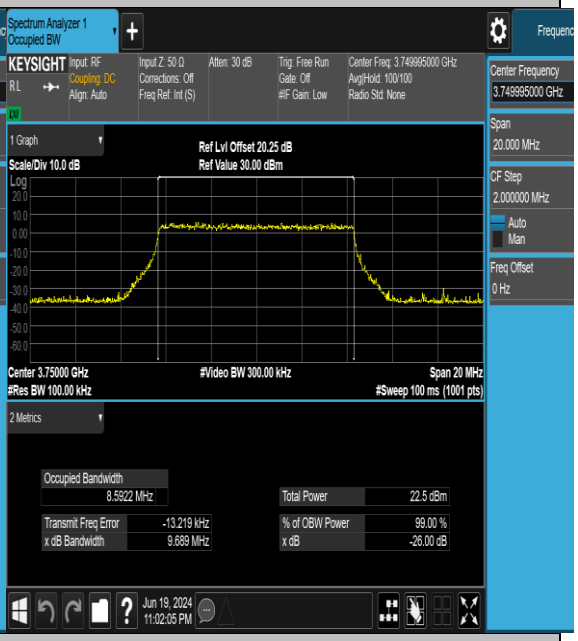

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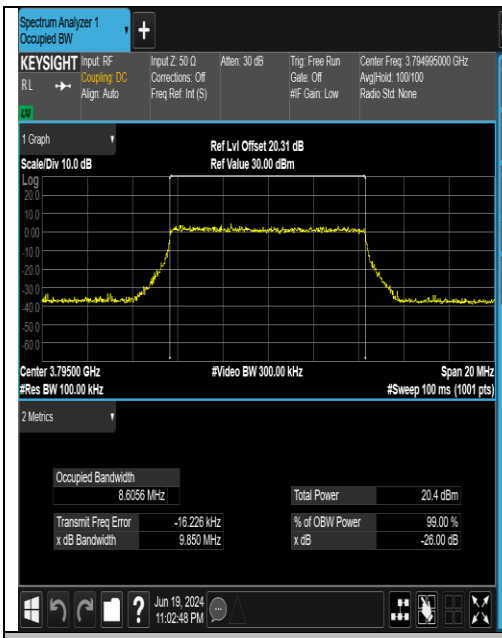

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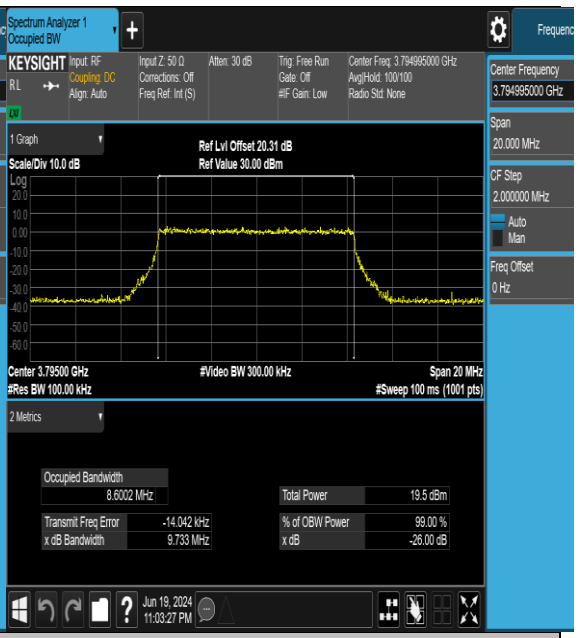

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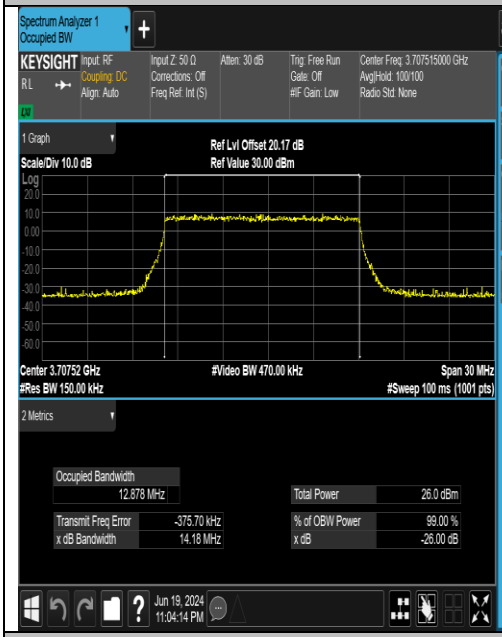

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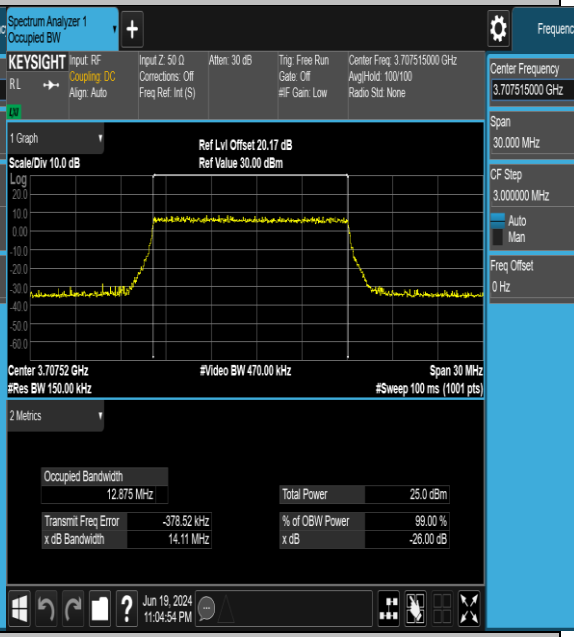

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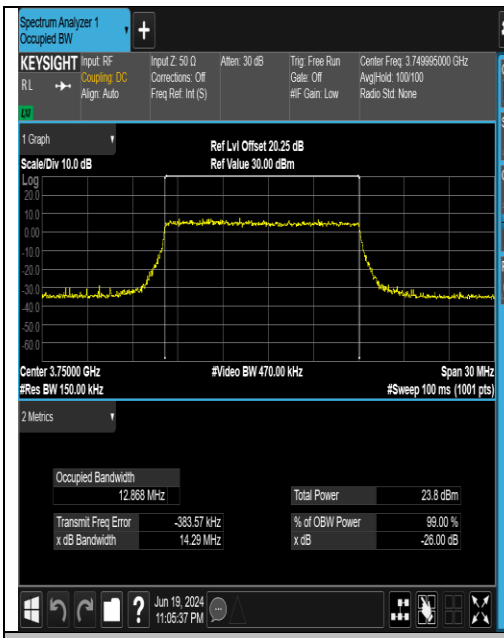

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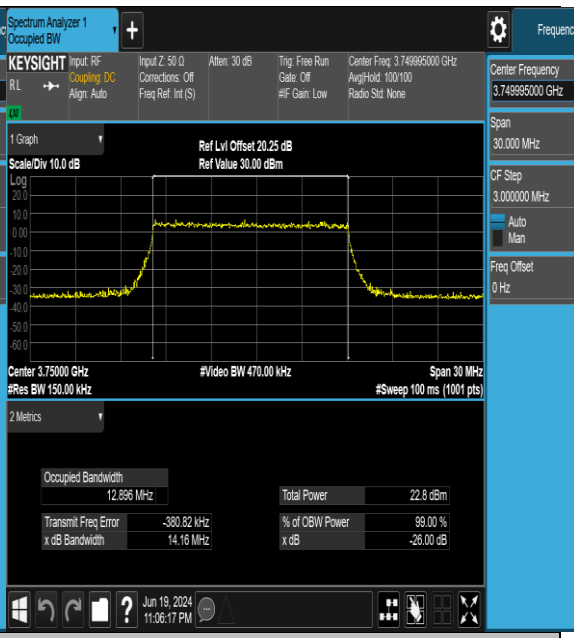

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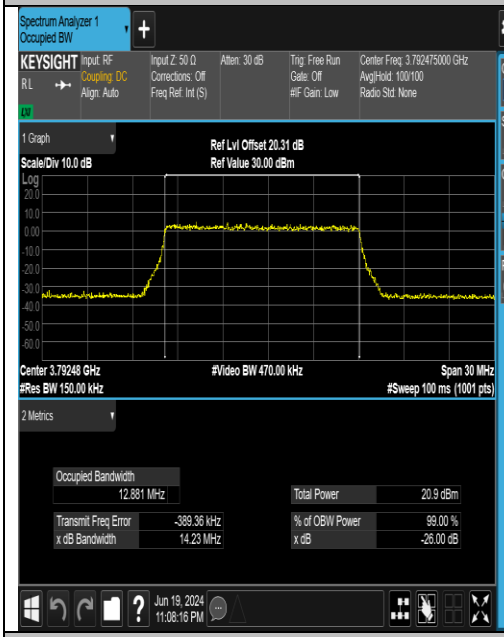

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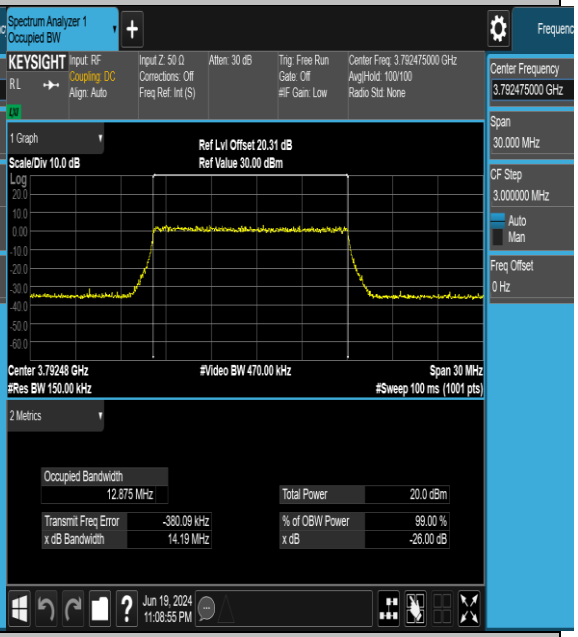

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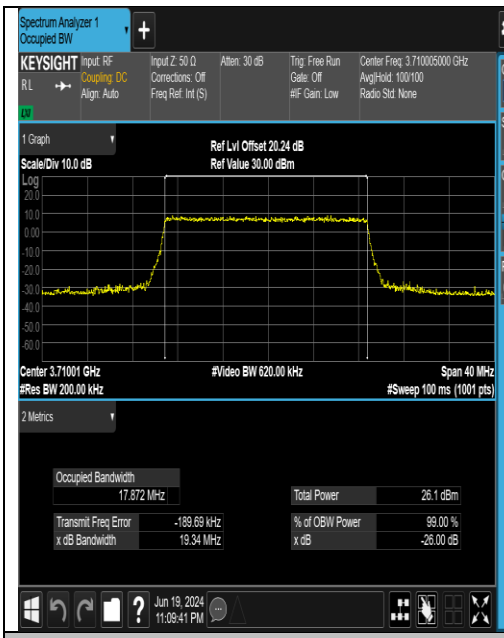

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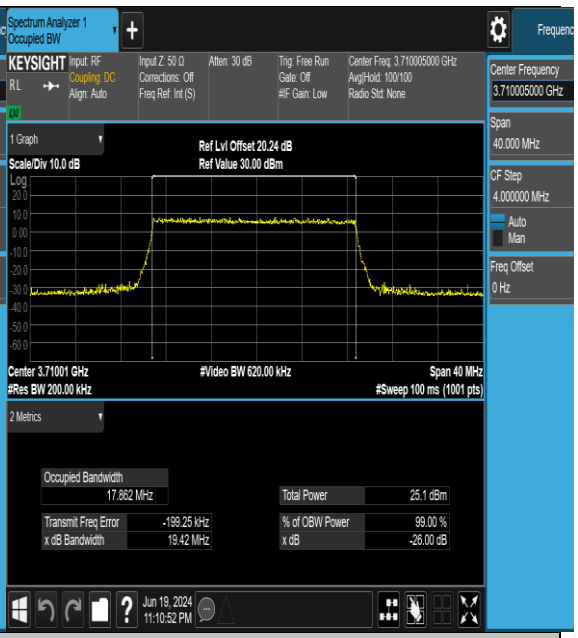

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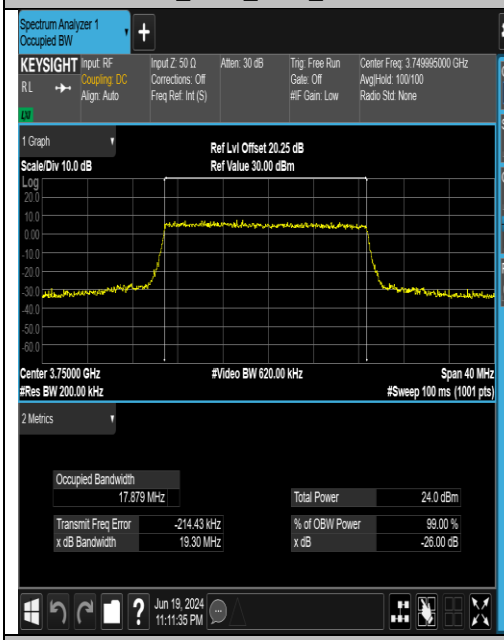

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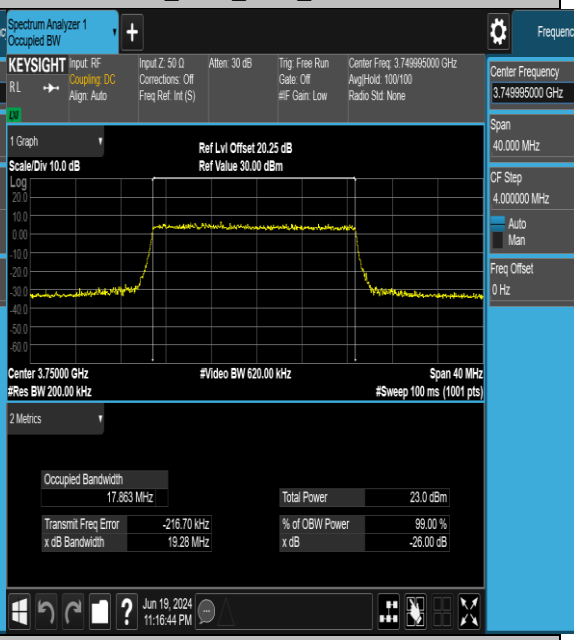

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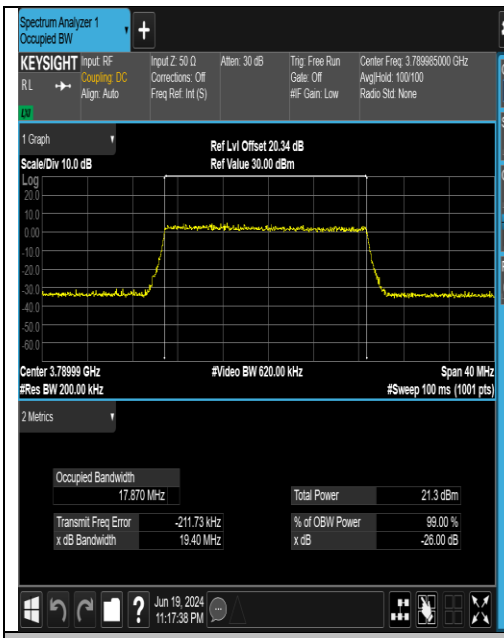

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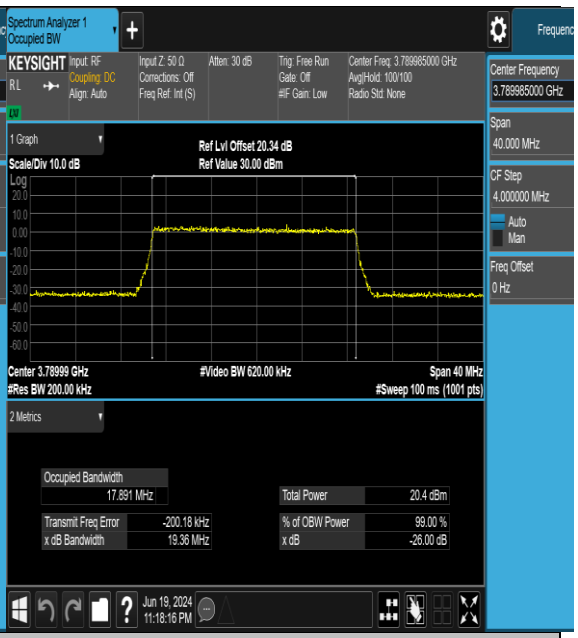

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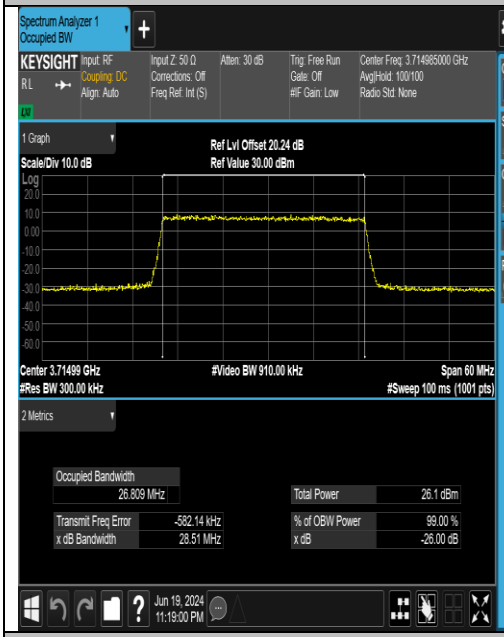

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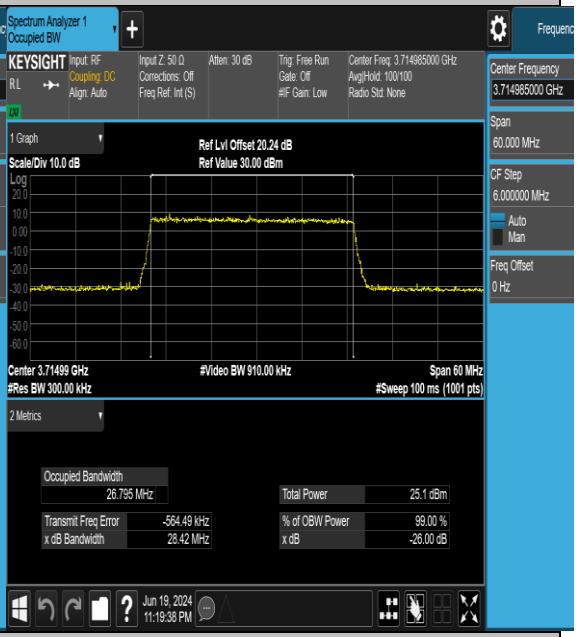

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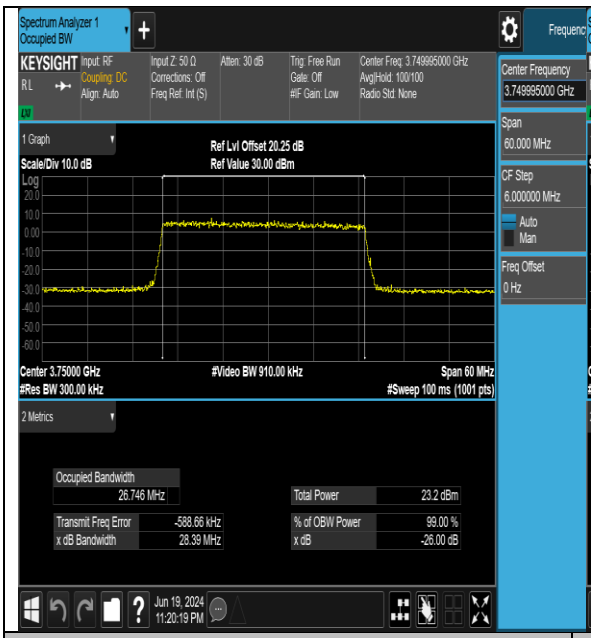

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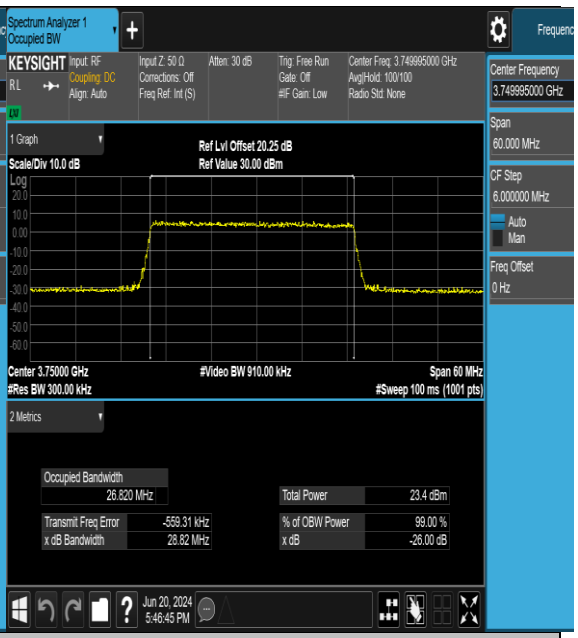

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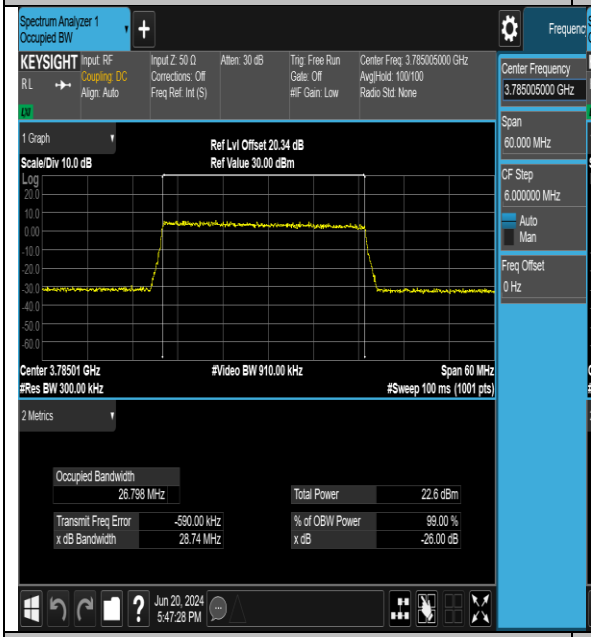

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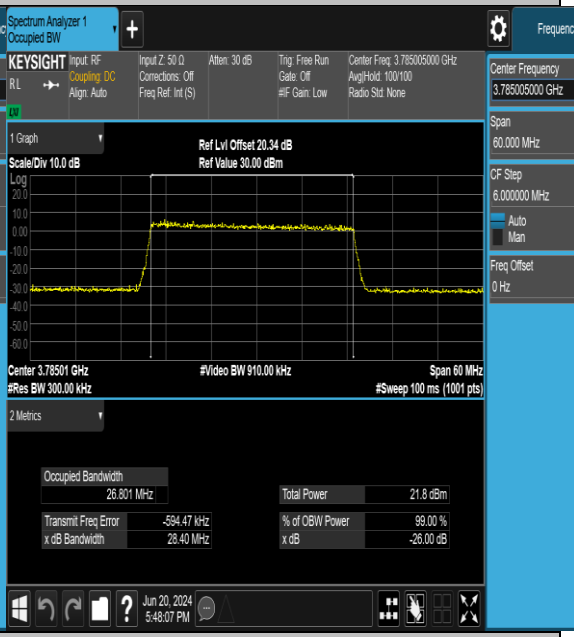

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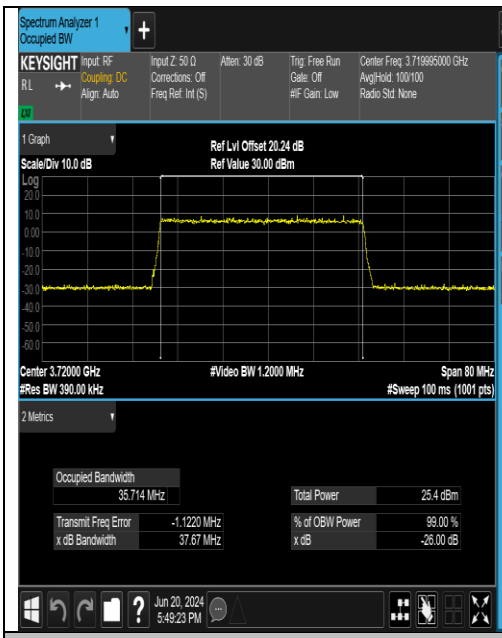

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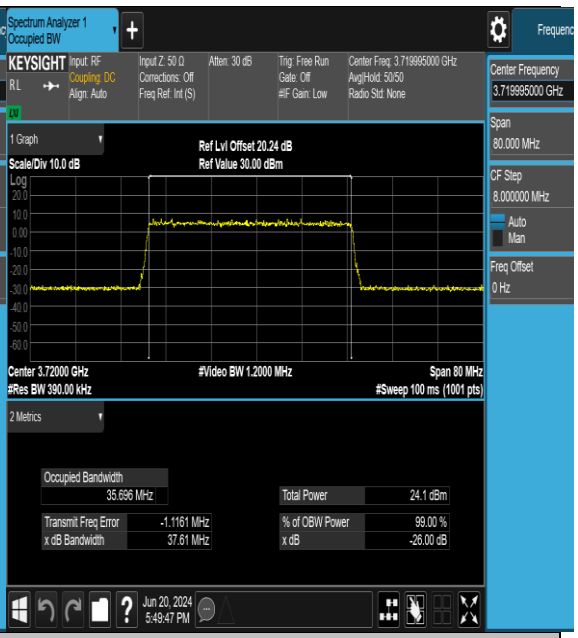

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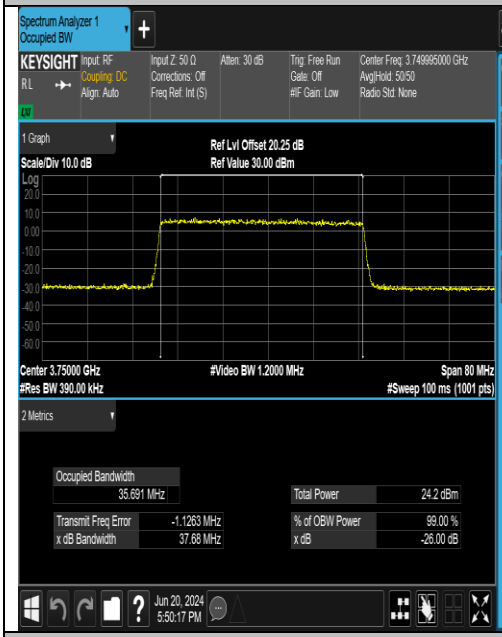

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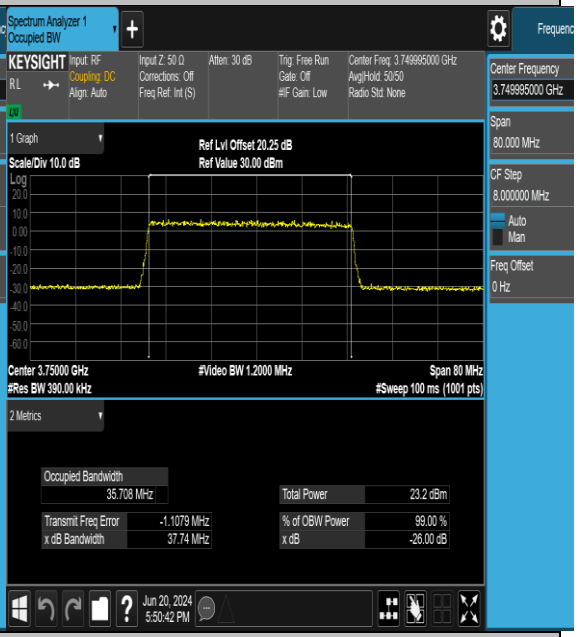

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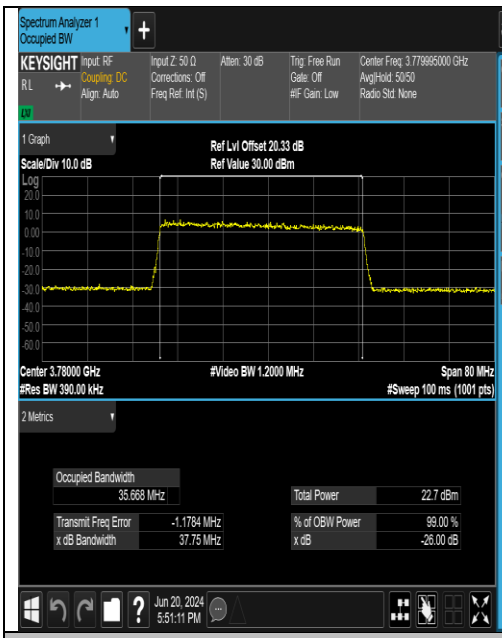

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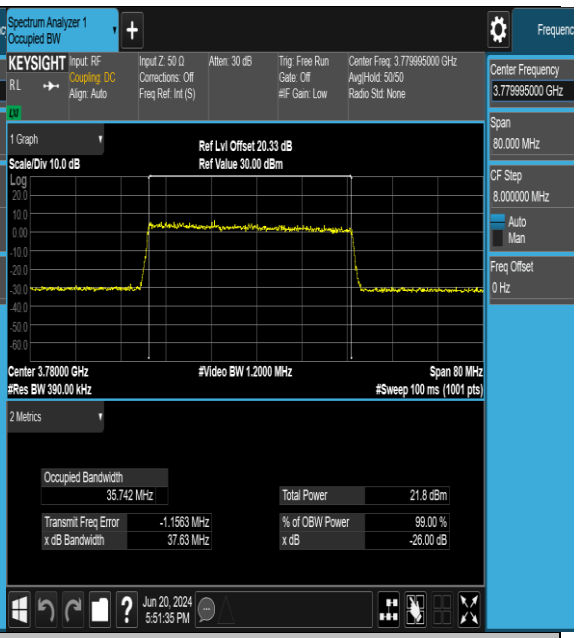

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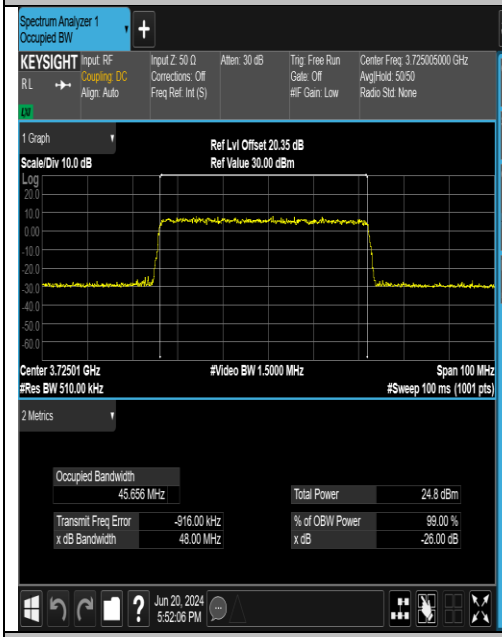

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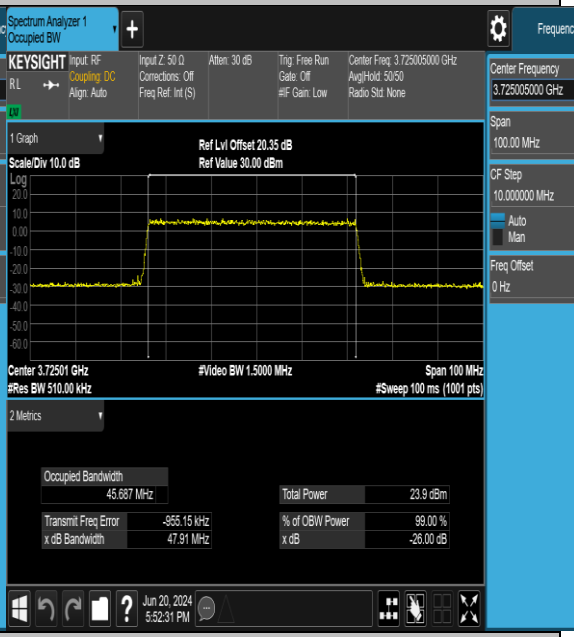

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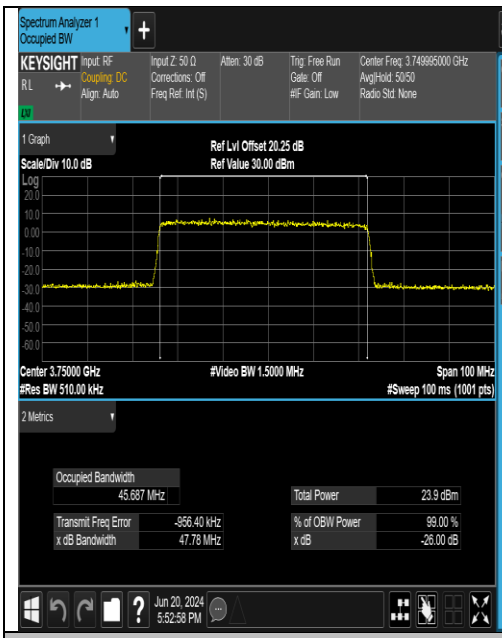

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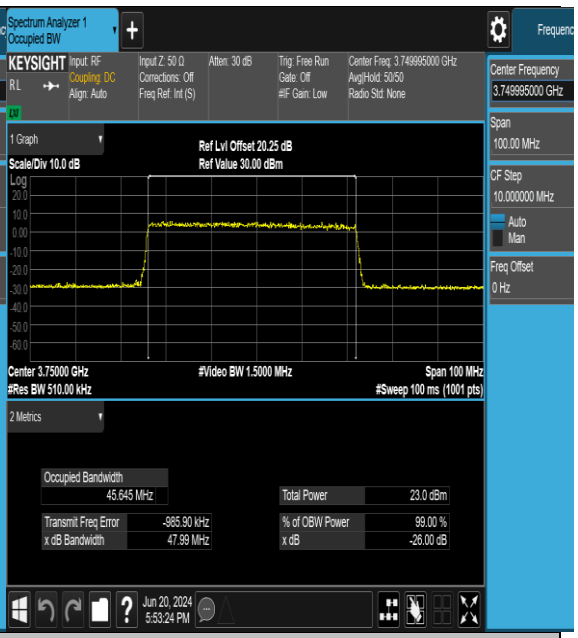

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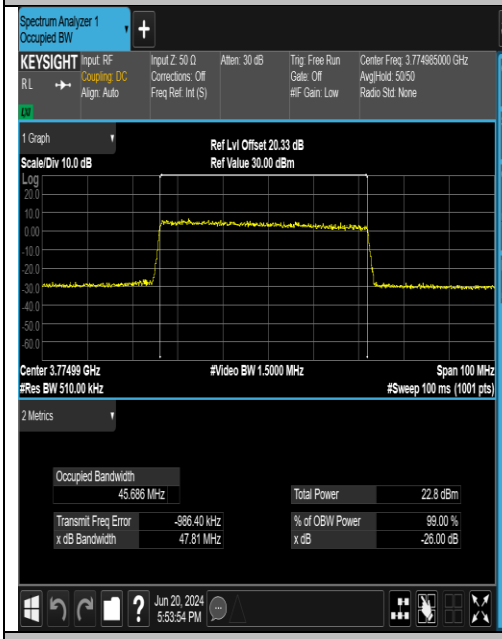

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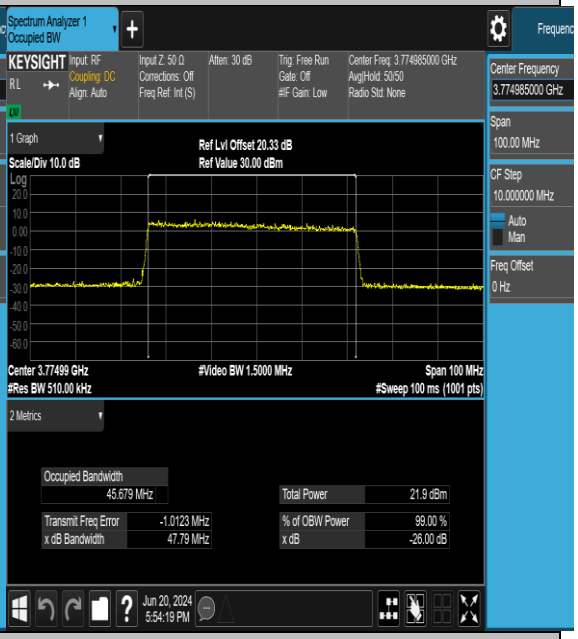

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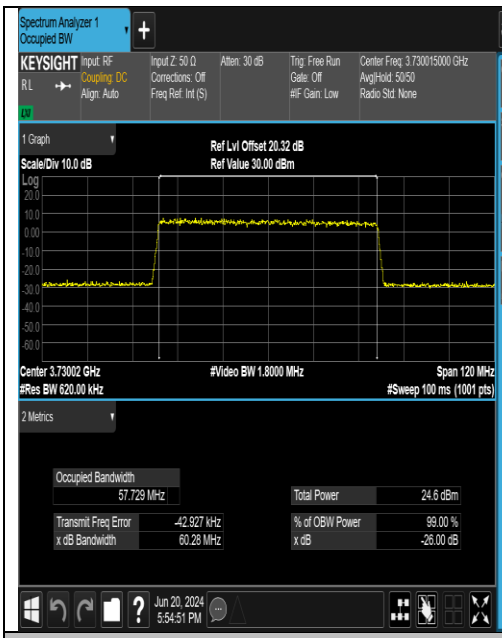

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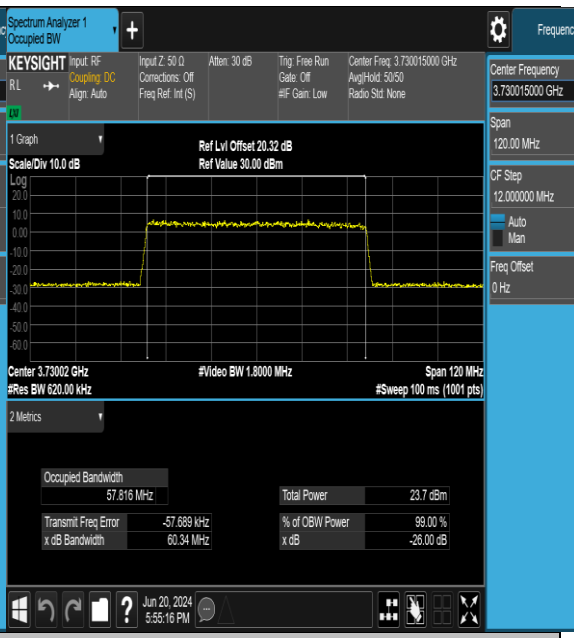

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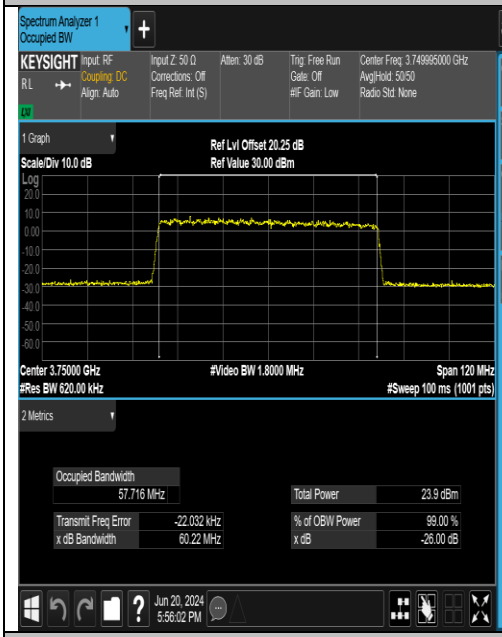

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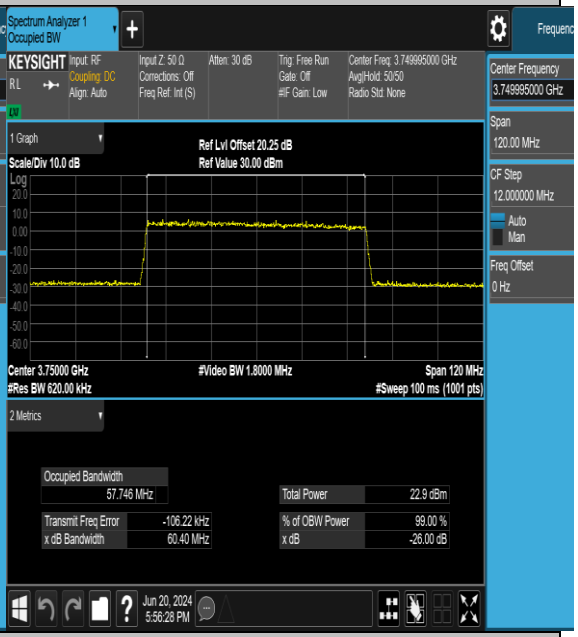

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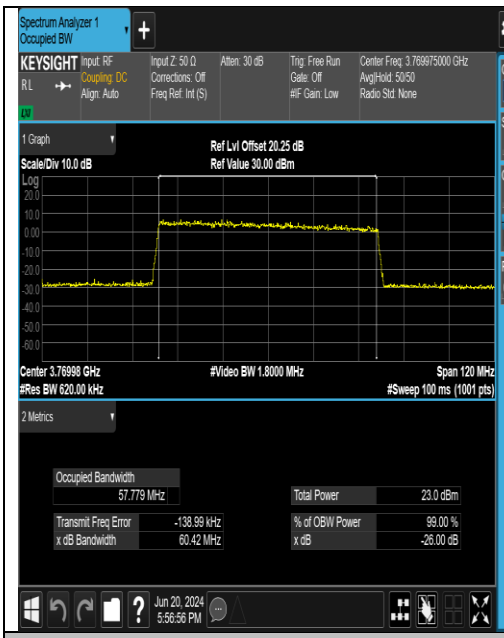

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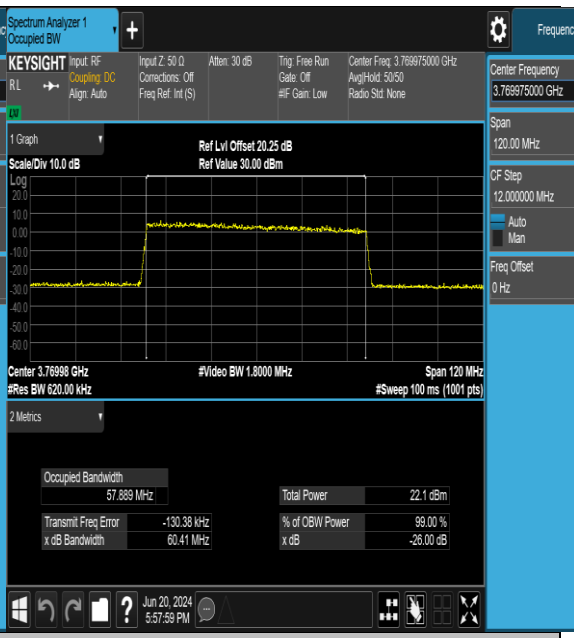

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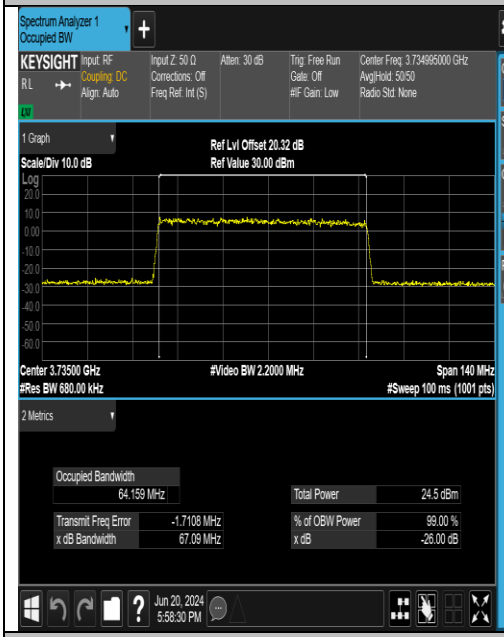

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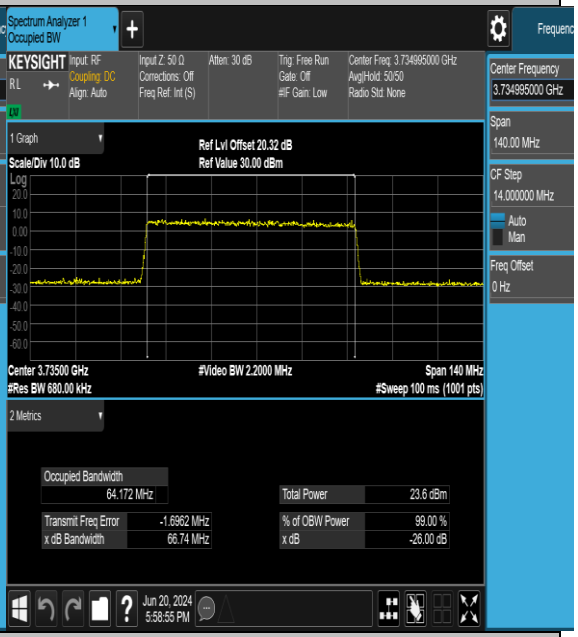

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