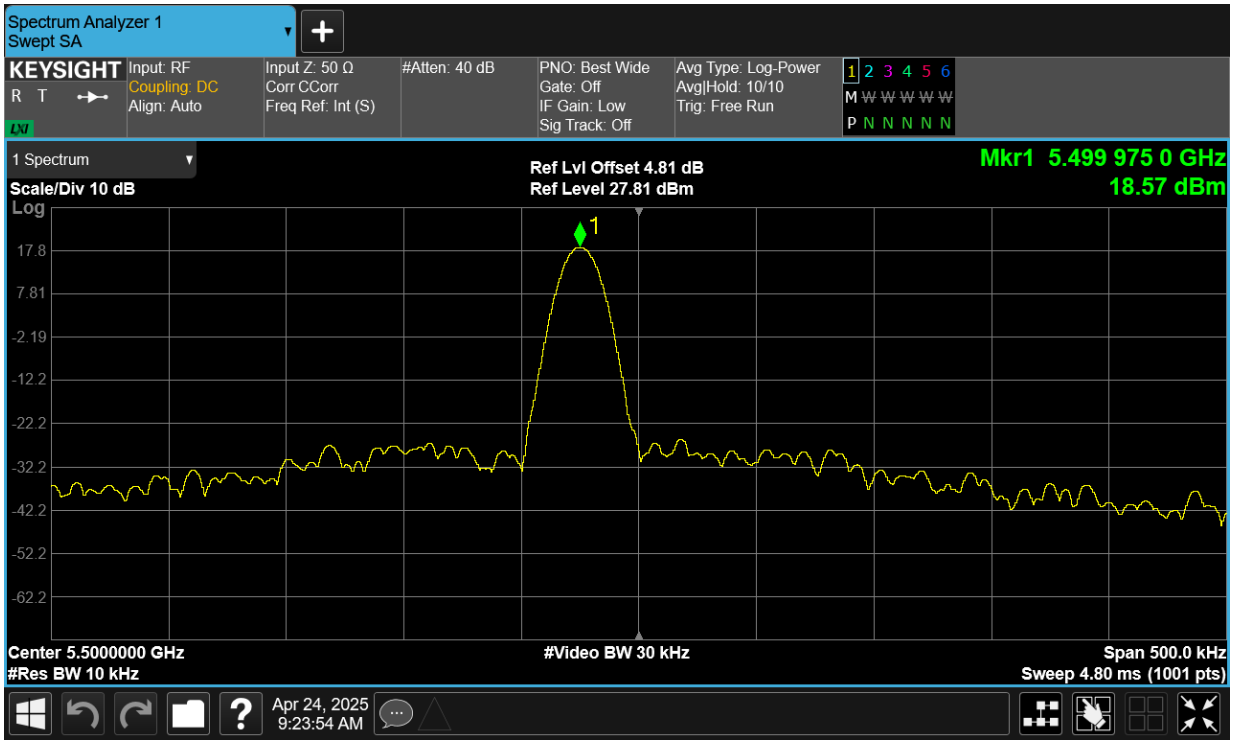
Test Data

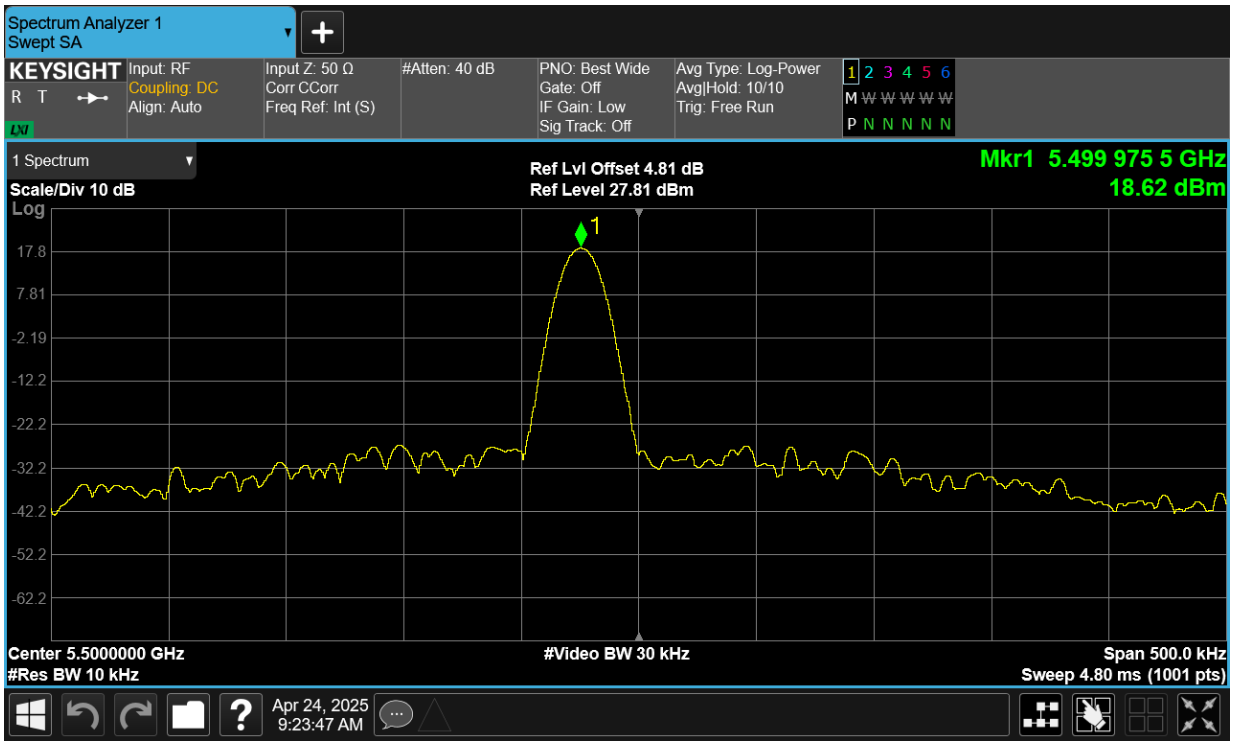
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5500	Ant1	5499.975	-4.55	Within authorized band	Pass
LVNT	a	5500	Ant1	5499.9755	-4.45		Pass
NVHT	a	5500	Ant1	5499.976	-4.36		Pass
NVLT	a	5500	Ant1	5499.9765	-4.27		Pass
NVNT	a	5500	Ant1	5499.977	-4.18		Pass
HVNT	ac80	5530	Ant1	5529.975	-4.52		Pass
LVNT	ac80	5530	Ant1	5529.975	-4.52		Pass
NVHT	ac80	5530	Ant1	5529.975	-4.52		Pass
NVLT	ac80	5530	Ant1	5529.975	-4.52		Pass
NVNT	ac80	5530	Ant1	5529.9745	-4.61		Pass
HVNT	n40	5510	Ant1	5509.9745	-4.63		Pass
LVNT	n40	5510	Ant1	5509.9755	-4.45		Pass
NVHT	n40	5510	Ant1	5509.9755	-4.45		Pass
NVLT	n40	5510	Ant1	5509.9755	-4.45		Pass
NVNT	n40	5510	Ant1	5509.9755	-4.45		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low. Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

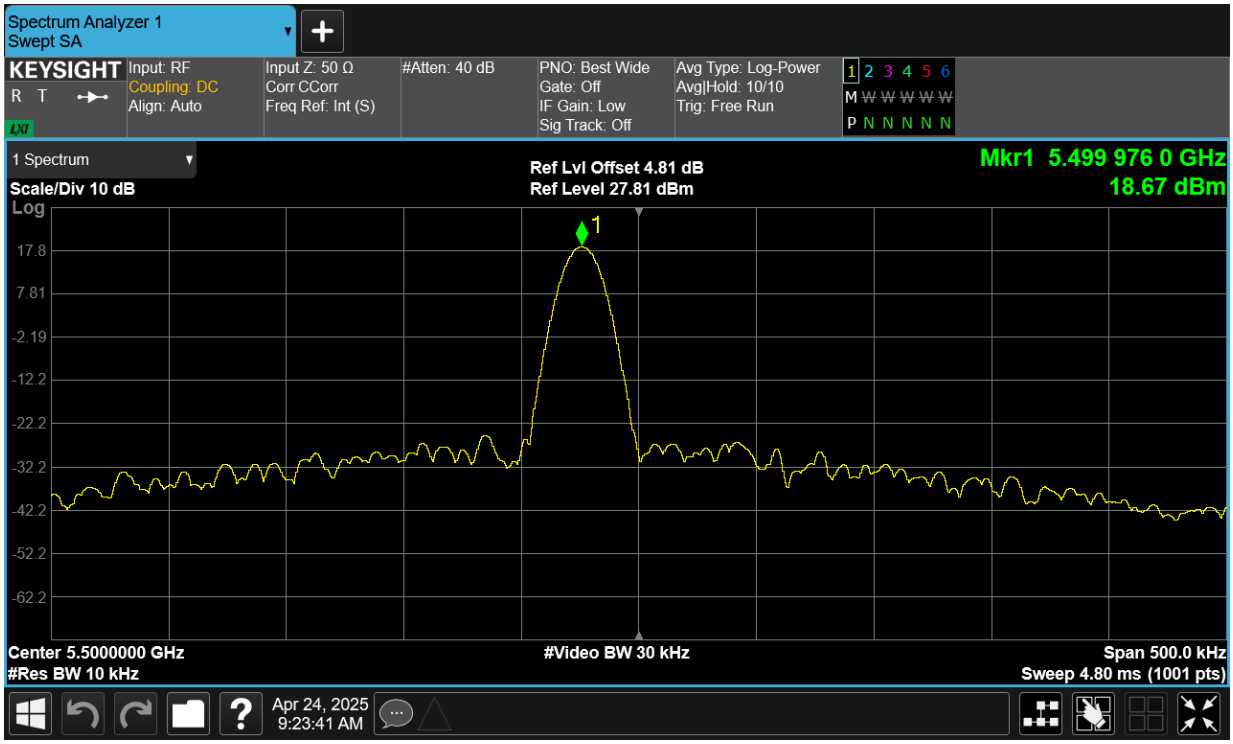
Test Graphs
Freq. Stability HVNT a 5500MHz Ant1



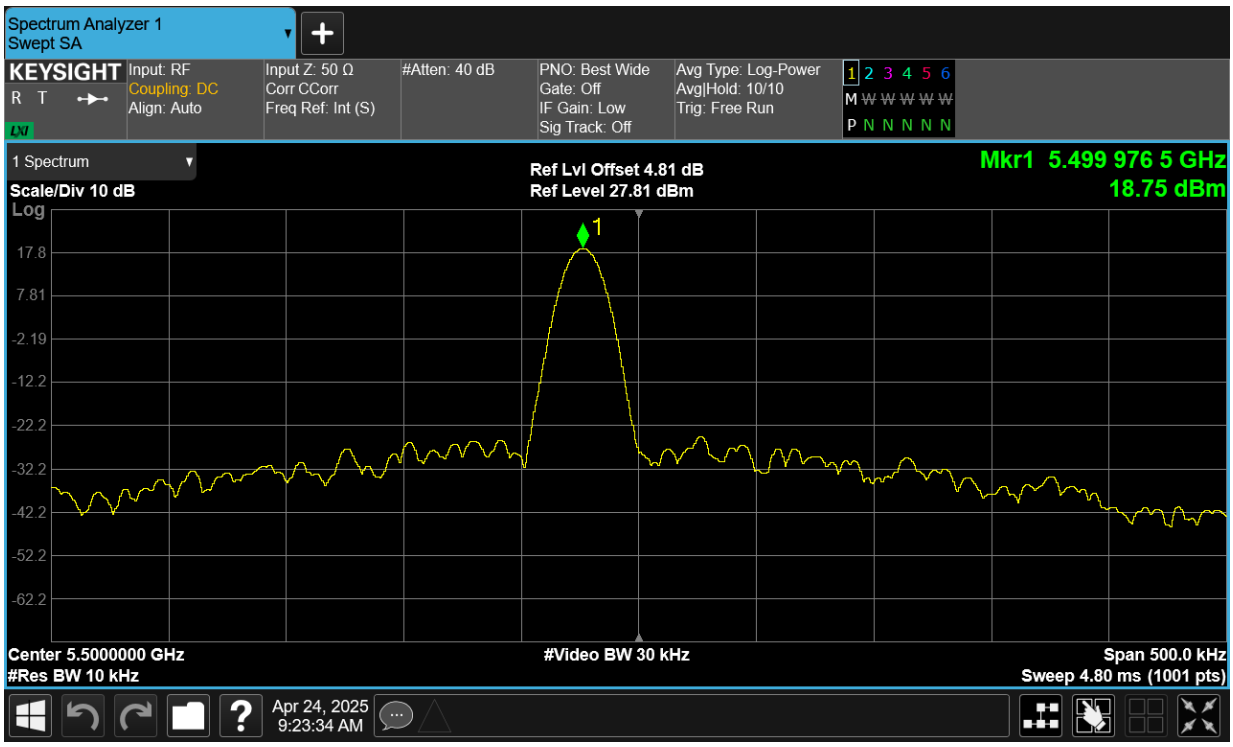
Freq. Stability LVNT a 5500MHz Ant1



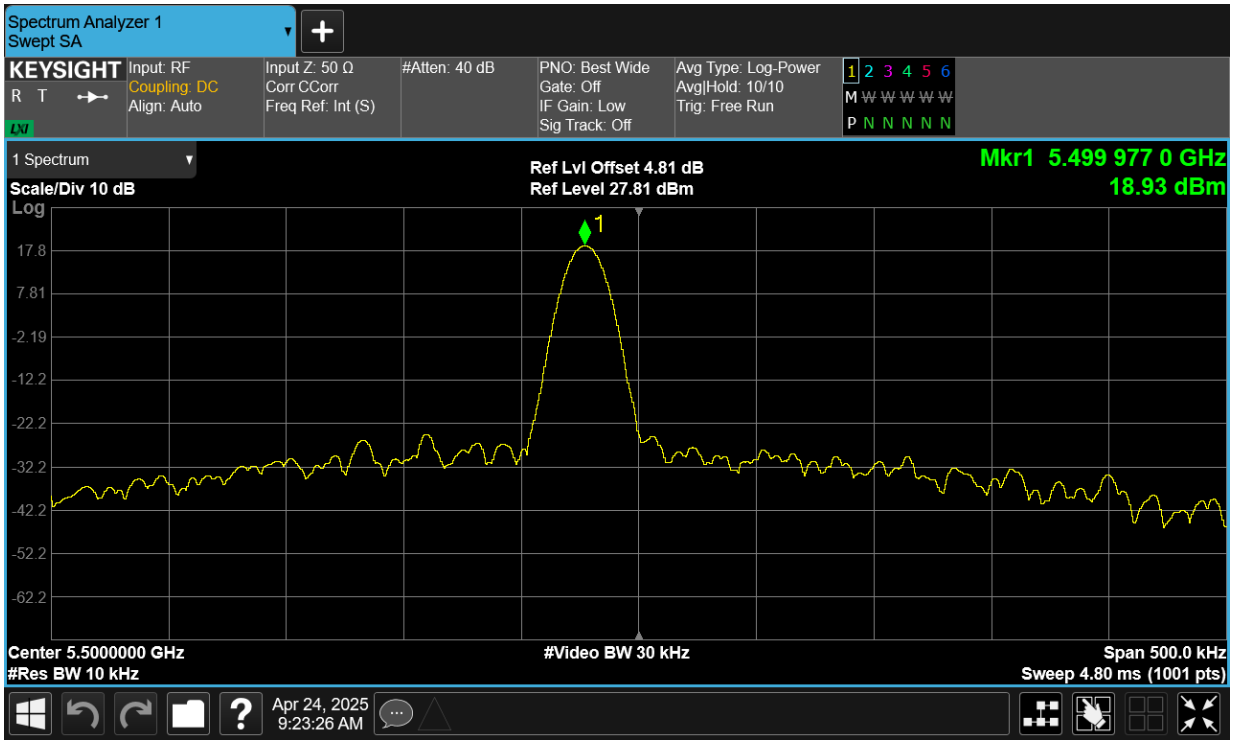
Freq. Stability NVHT a 5500MHz Ant1



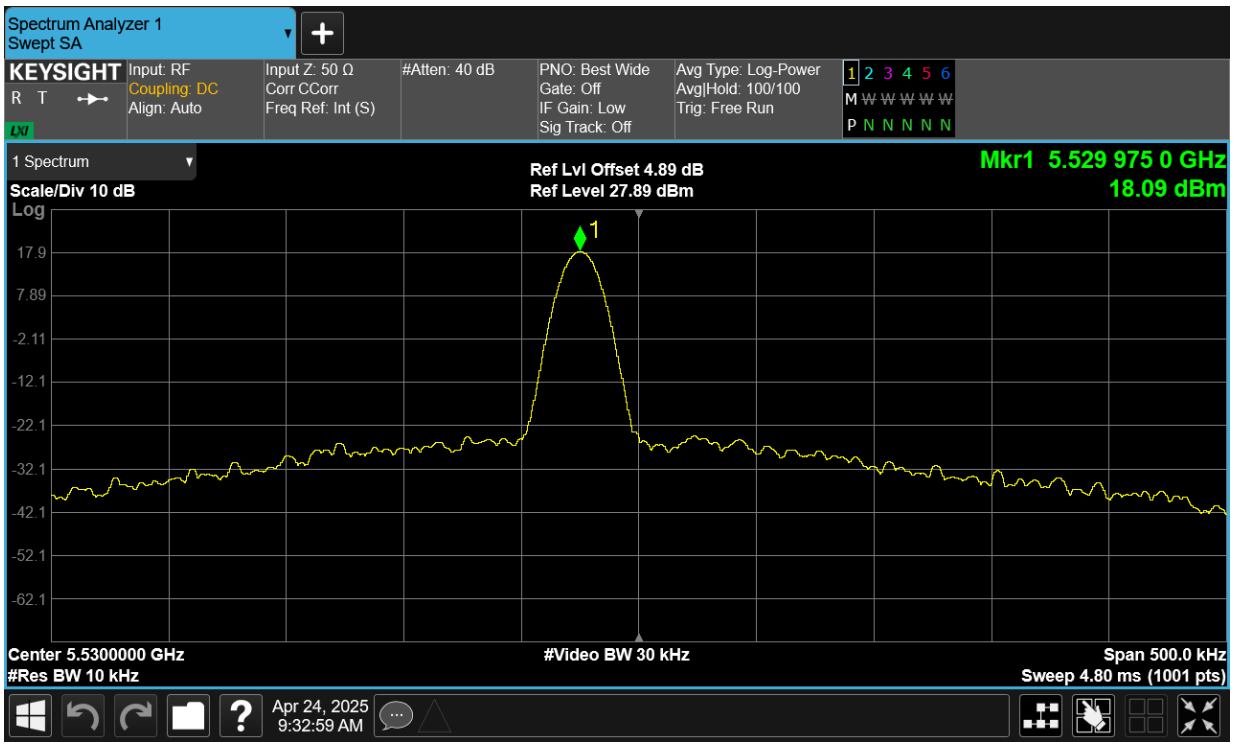
Freq. Stability NVLT a 5500MHz Ant1



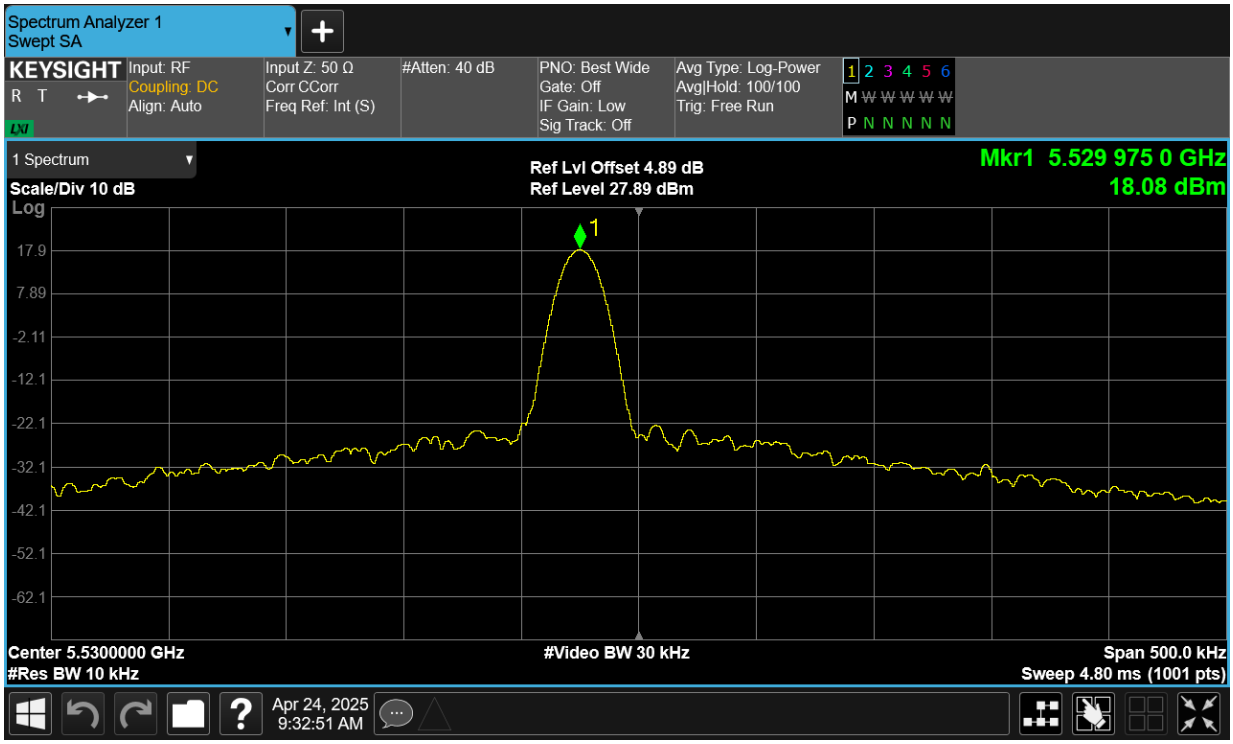
Freq. Stability NVNT a 5500MHz Ant1



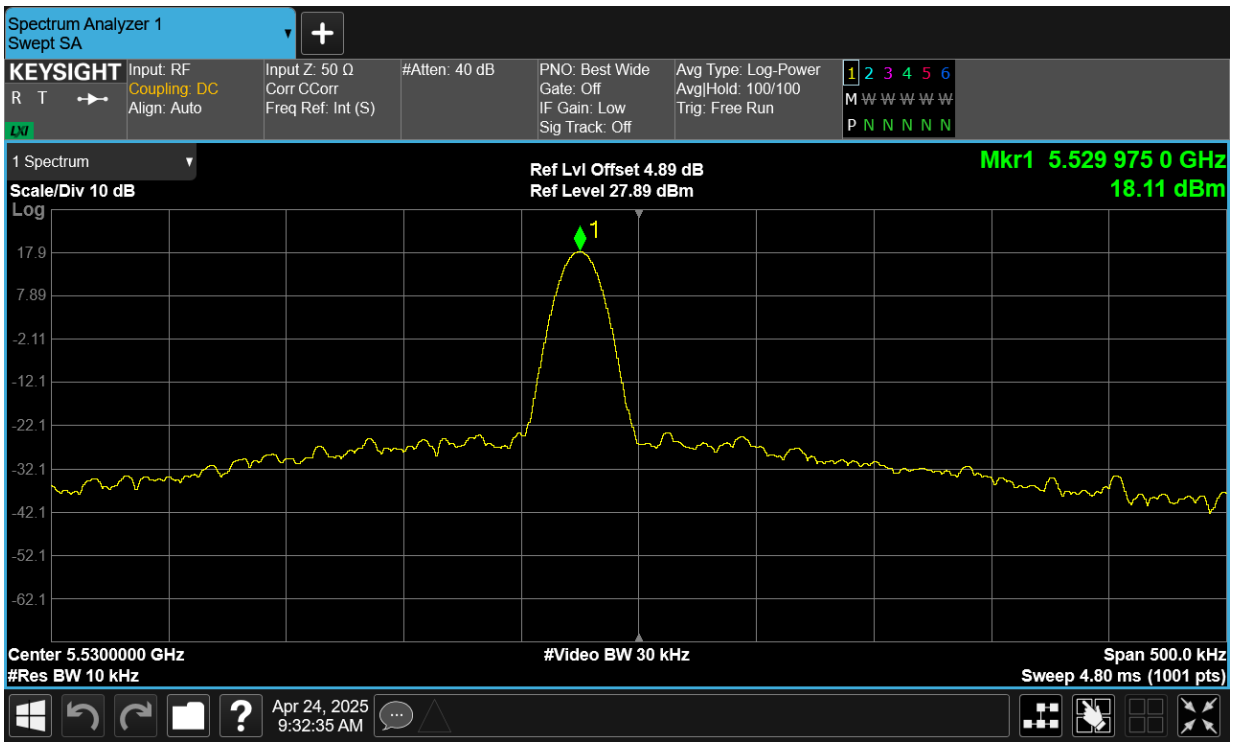
Freq. Stability HVNT ac80 5530MHz Ant1



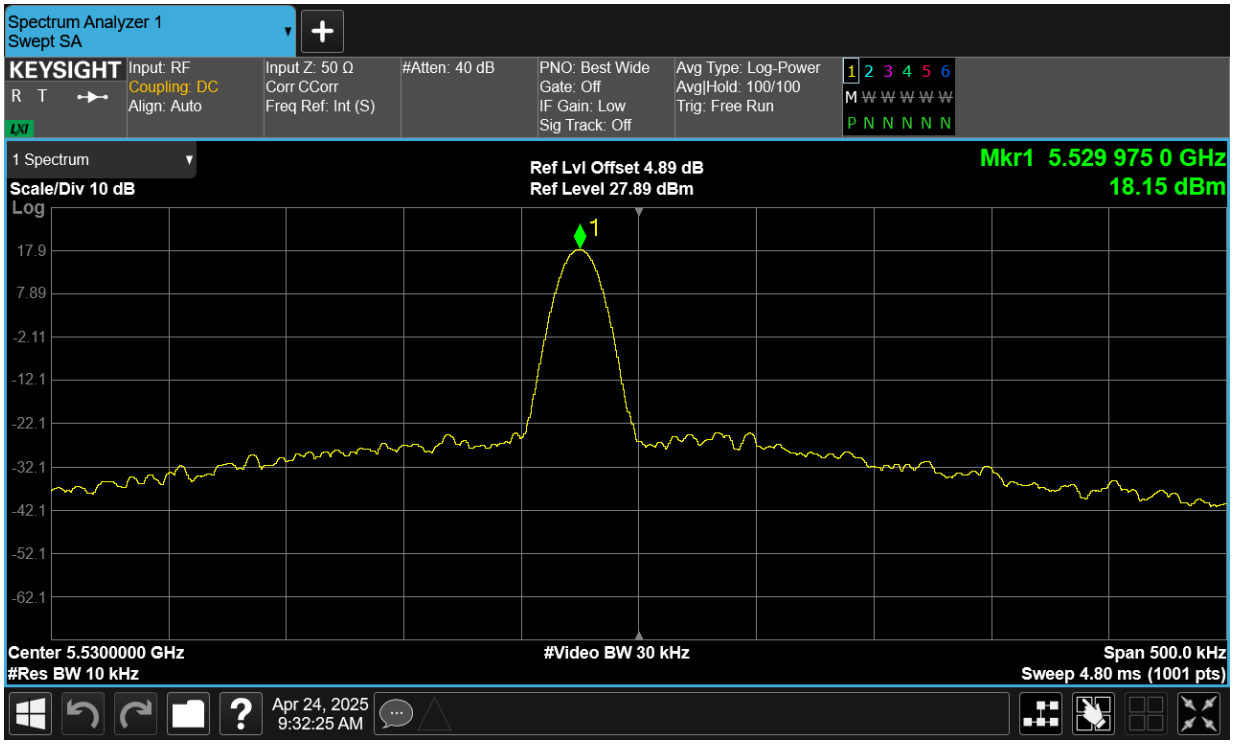
Freq. Stability LVNT ac80 5530MHz Ant1



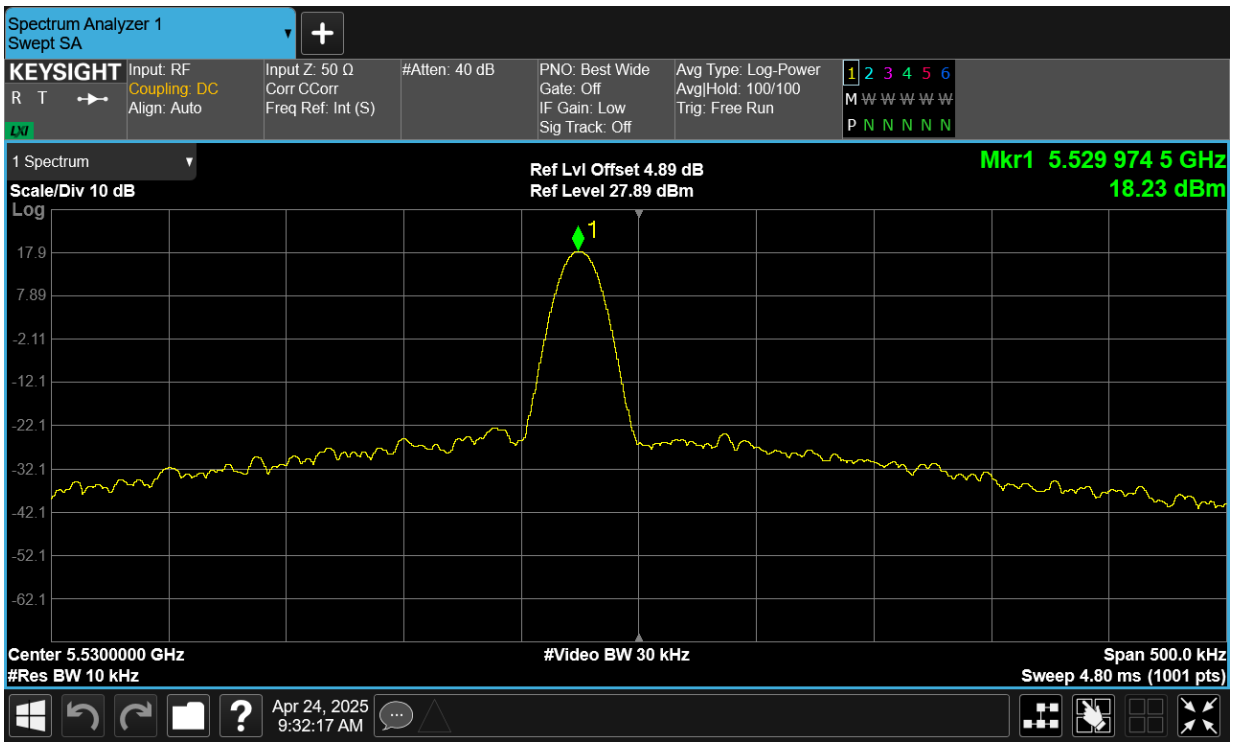
Freq. Stability NVHT ac80 5530MHz Ant1



Freq. Stability NVLT ac80 5530MHz Ant1

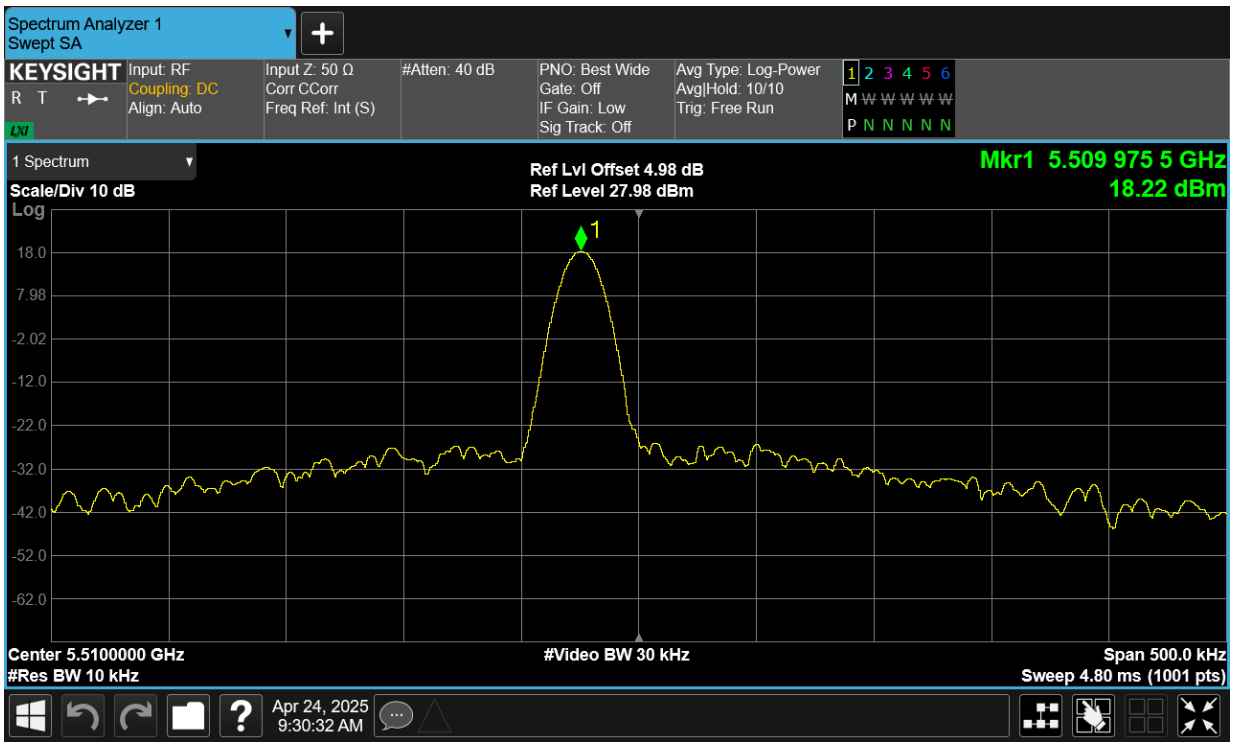


Freq. Stability NVNT ac80 5530MHz Ant1

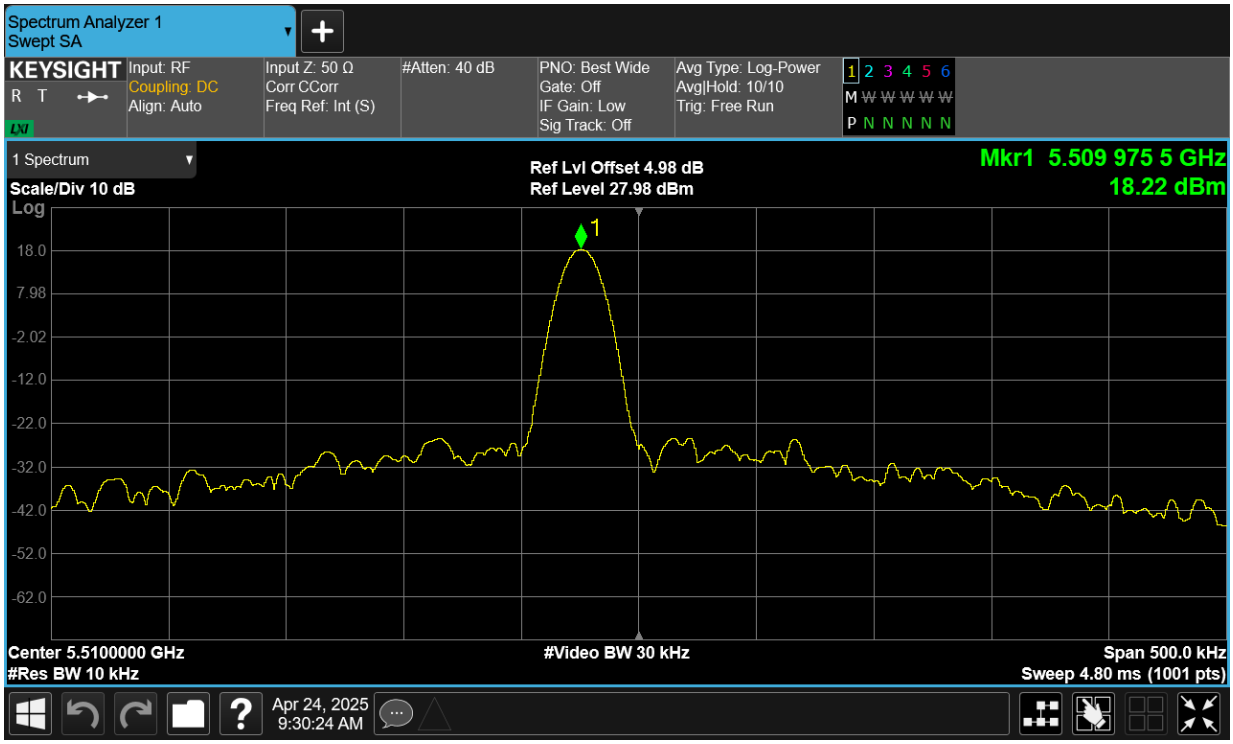


Freq. Stability HVNT n40 5510MHz Ant1

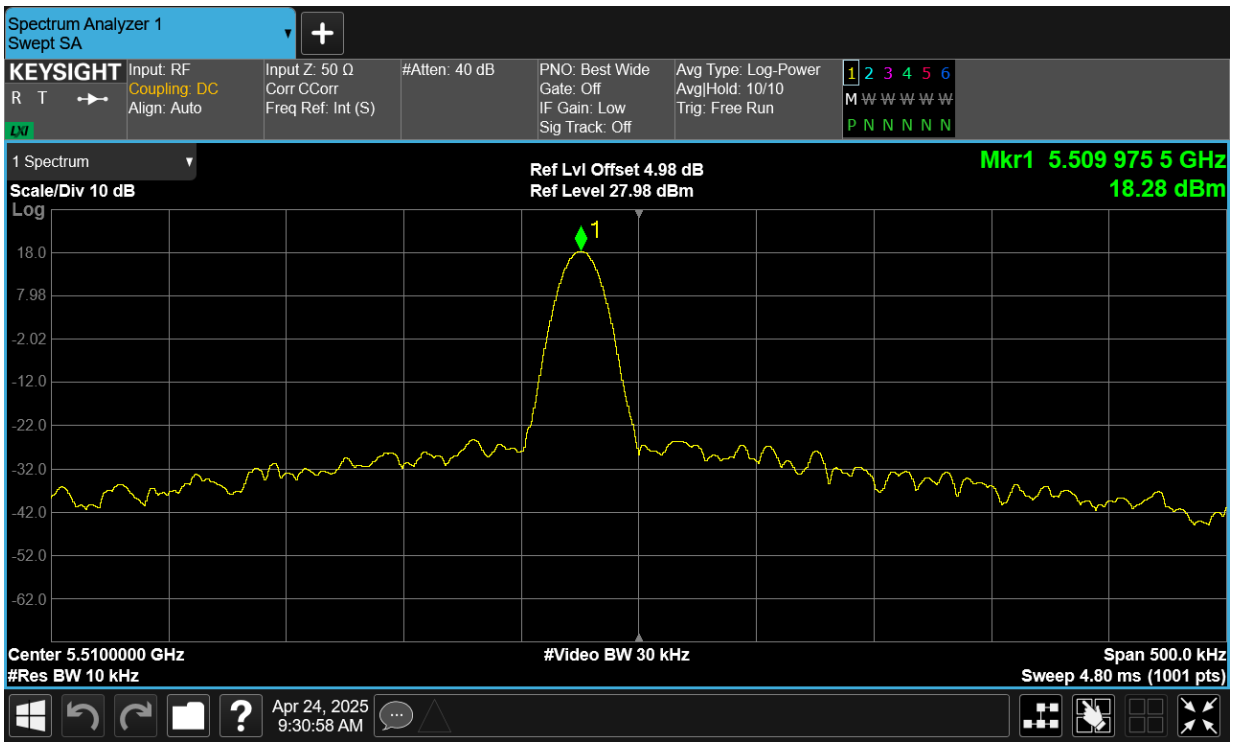
Freq. Stability LVNT n40 5510MHz Ant1



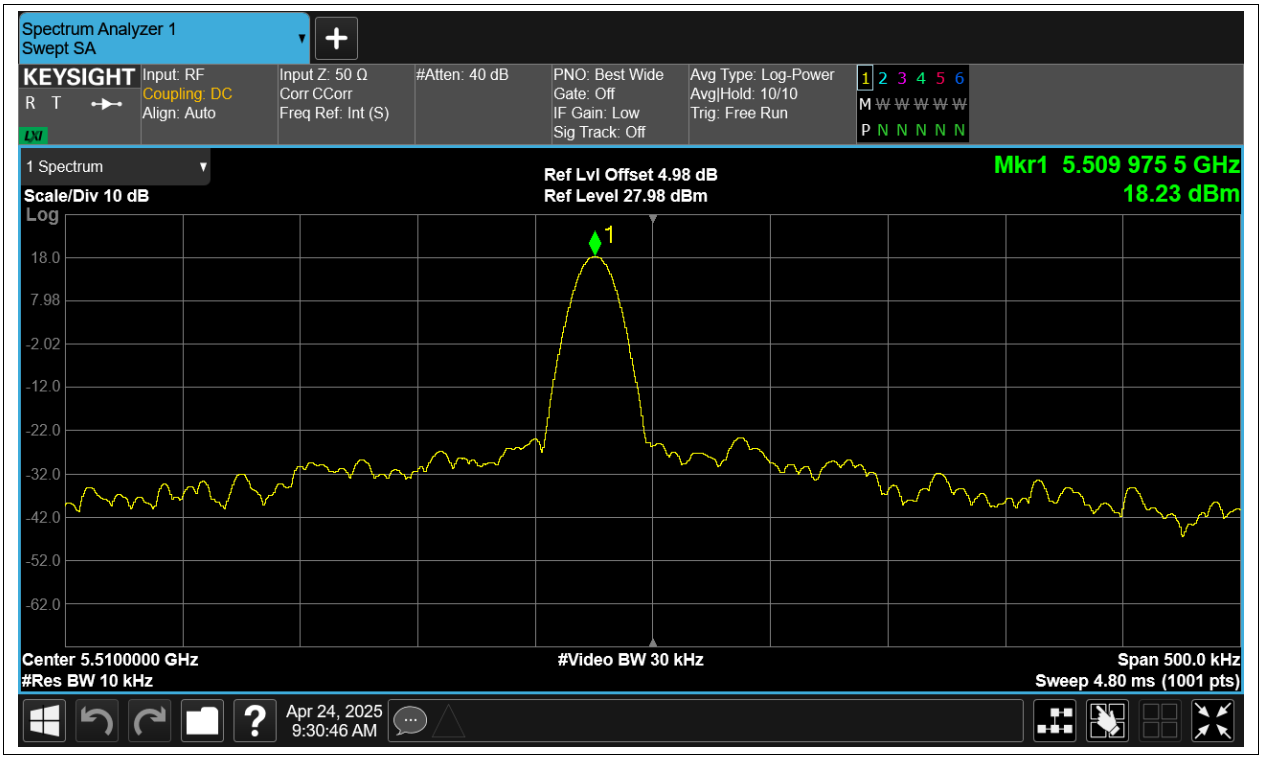
Freq. Stability NVHT n40 5510MHz Ant1



Freq. Stability NVLT n40 5510MHz Ant1



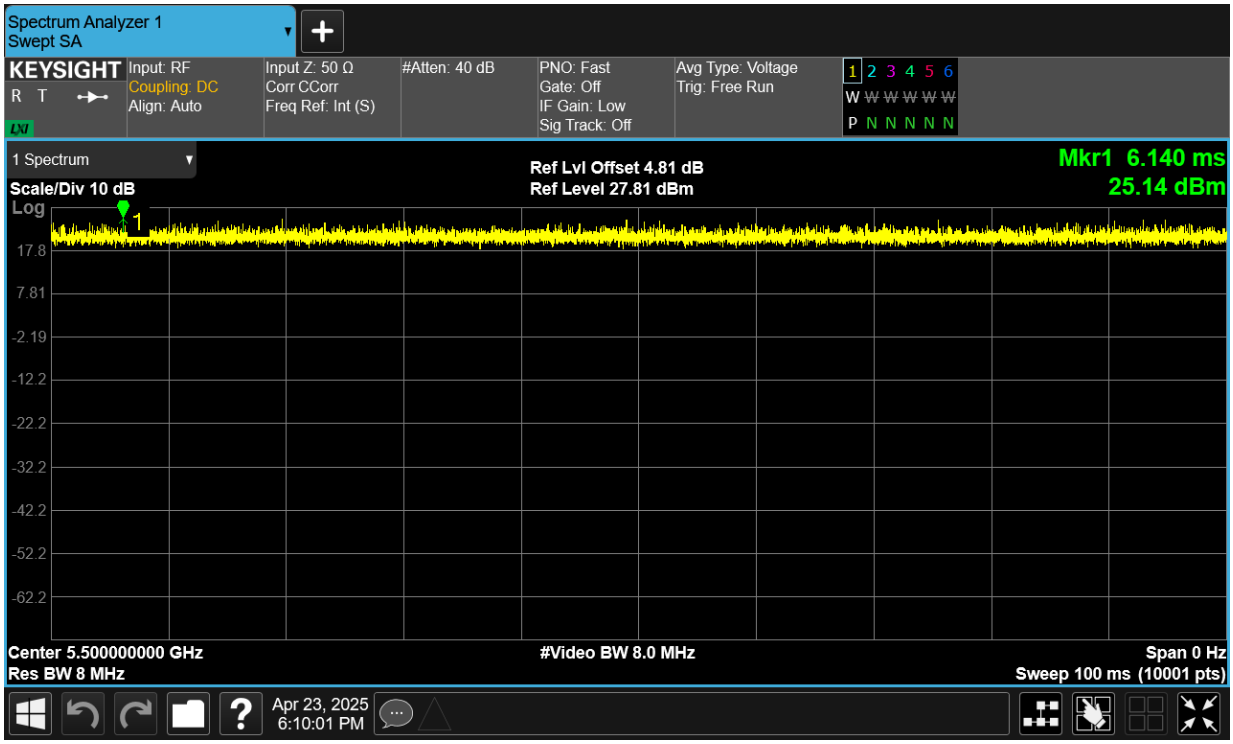
Freq. Stability NVNT n40 5510MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.98 dB
Ref Level 27.98 dBm
Mkr1 5.509 975 5 GHz
18.23 dBm
Log
18.0
7.98
-2.02
-12.0
-22.0
-32.0
-42.0
-52.0
-62.0
Center 5.5100000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Apr 24, 2025
9:30:46 AM

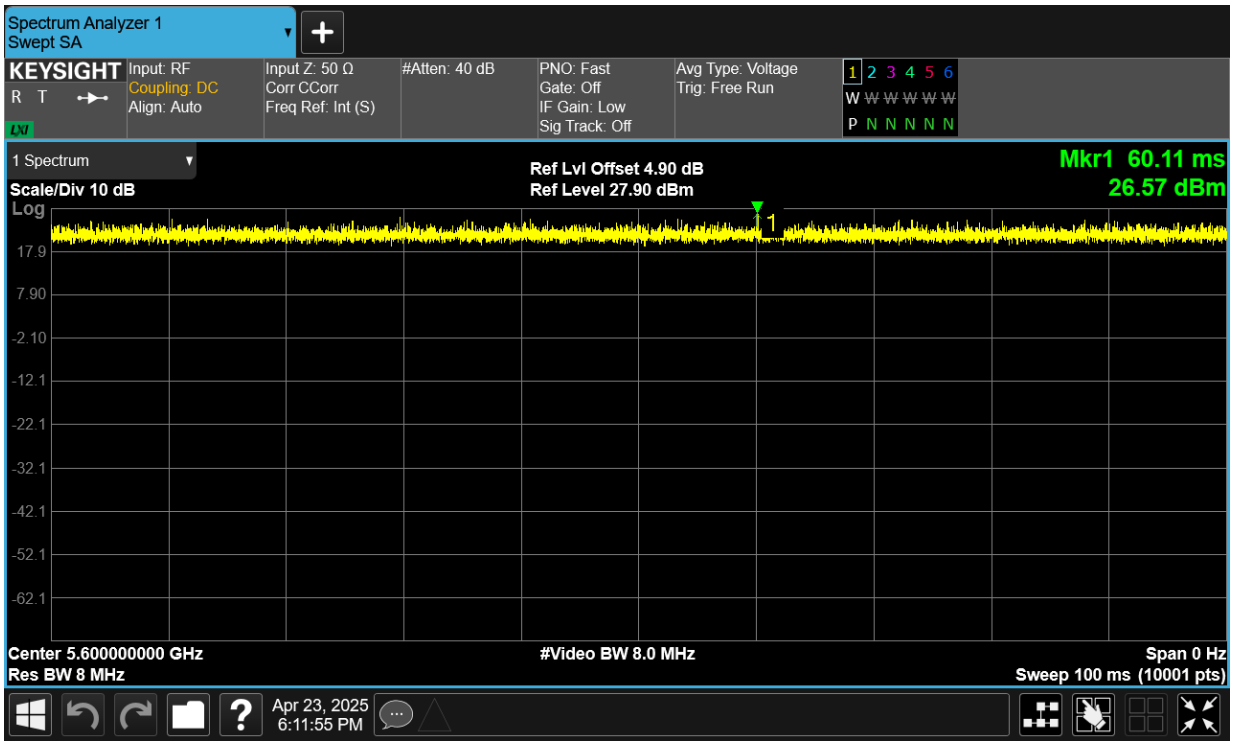
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant1	100	0
NVNT	a	5600	Ant1	100	0
NVNT	a	5700	Ant1	100	0
NVNT	ac20	5500	Ant1	100	0
NVNT	ac20	5600	Ant1	100	0
NVNT	ac20	5700	Ant1	100	0
NVNT	ac40	5510	Ant1	100	0
NVNT	ac40	5590	Ant1	100	0
NVNT	ac40	5670	Ant1	100	0
NVNT	ac80	5530	Ant1	100	0
NVNT	ac80	5610	Ant1	93.21	0.31
NVNT	n20	5500	Ant1	100	0
NVNT	n20	5600	Ant1	100	0
NVNT	n20	5700	Ant1	100	0
NVNT	n40	5510	Ant1	100	0
NVNT	n40	5590	Ant1	100	0
NVNT	n40	5670	Ant1	100	0

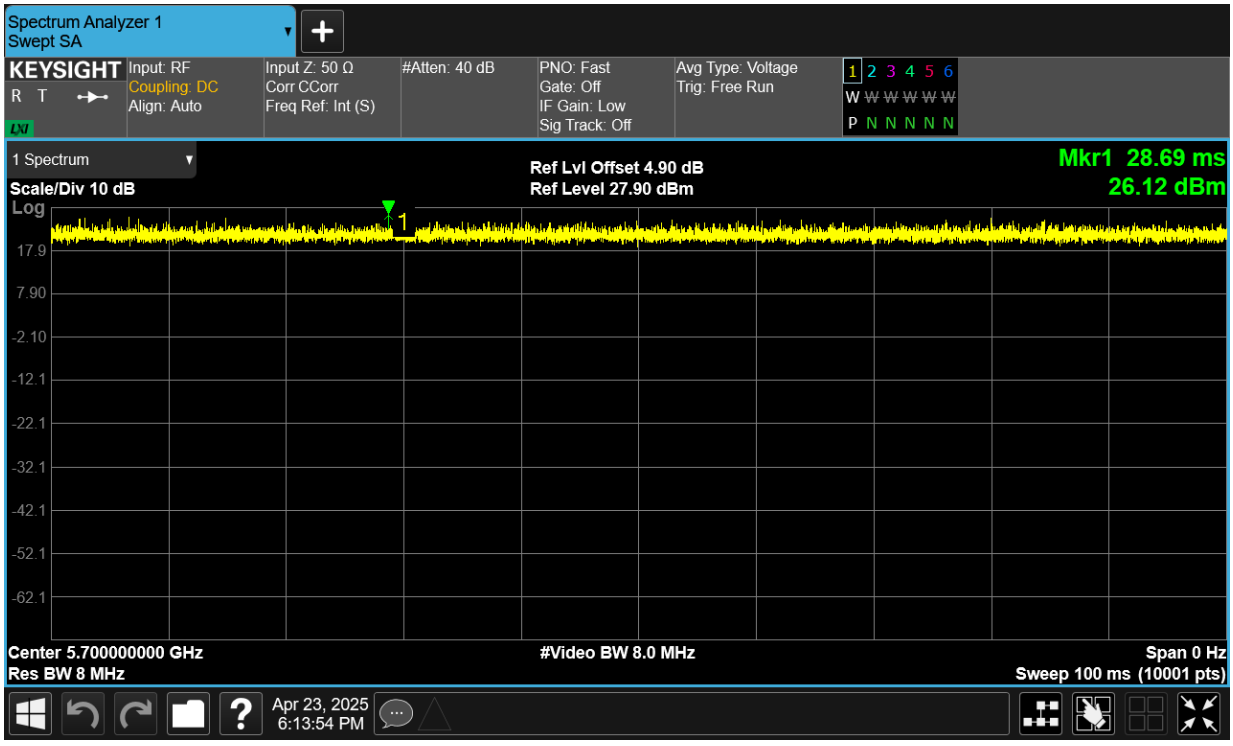
Test Graphs
Duty Cycle NVNT a 5500MHz Ant1



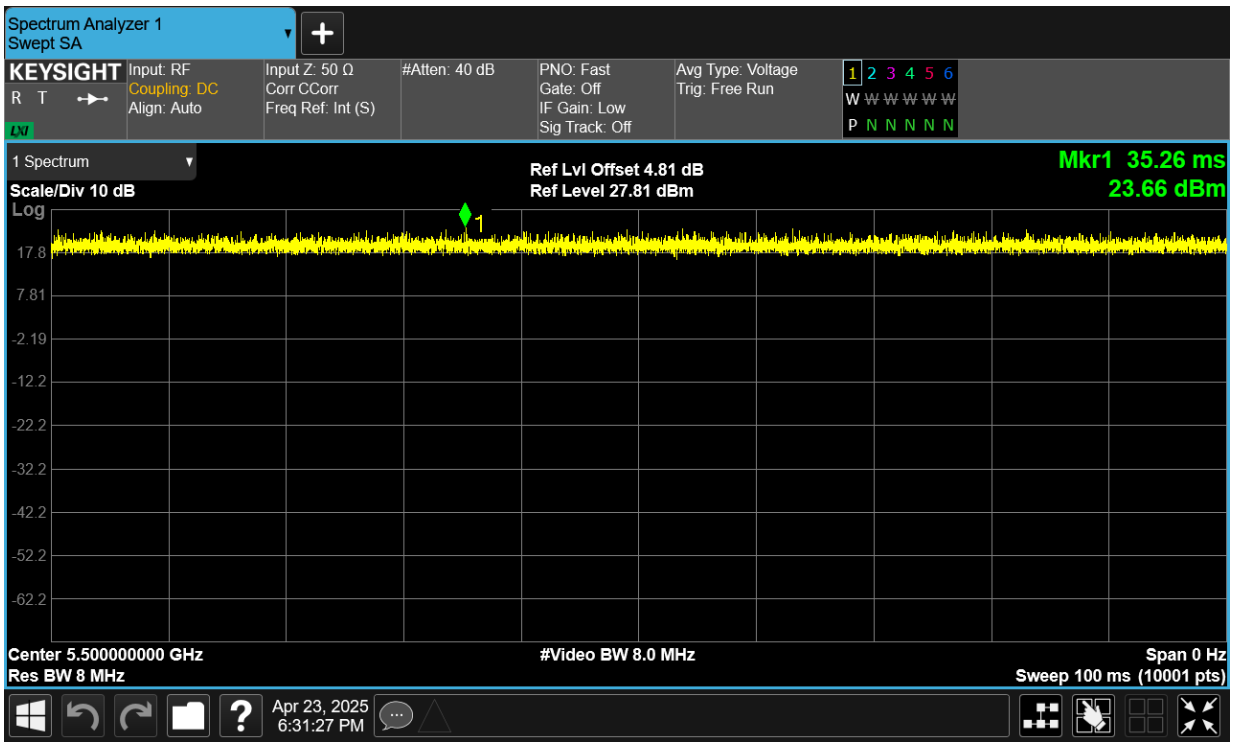
Duty Cycle NVNT a 5600MHz Ant1



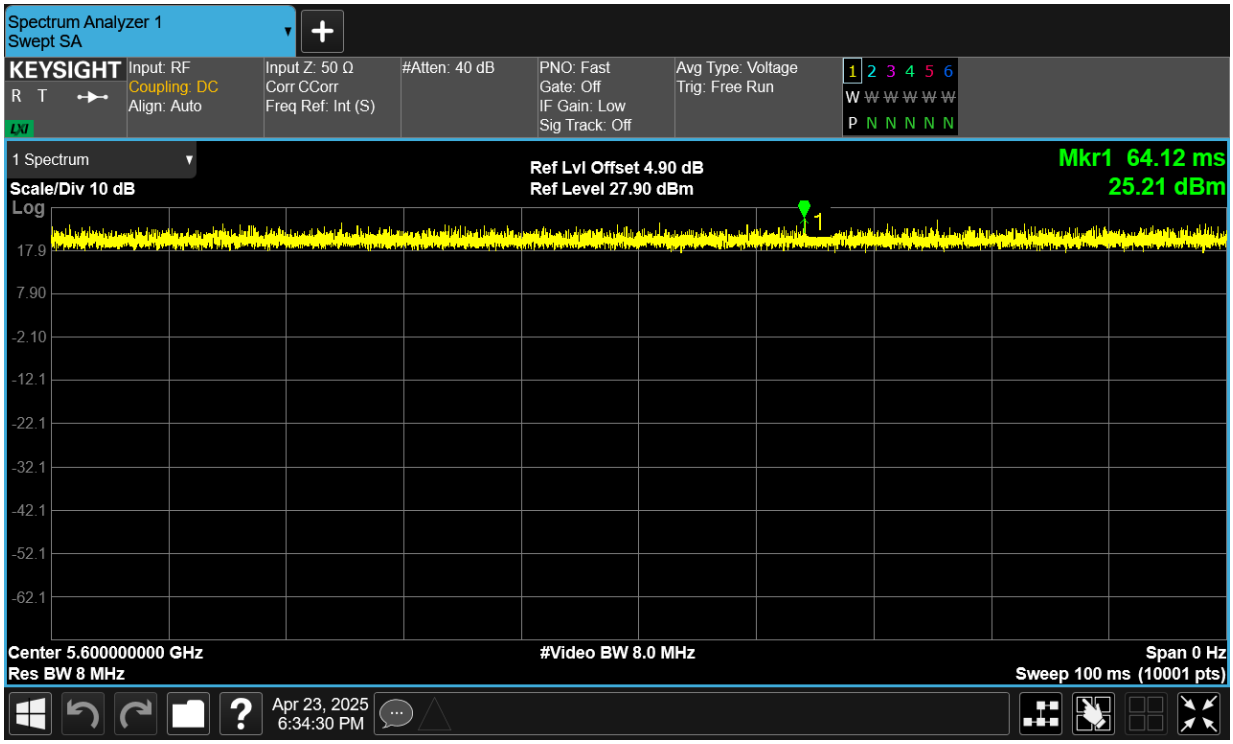
Duty Cycle NVNT a 5700MHz Ant1



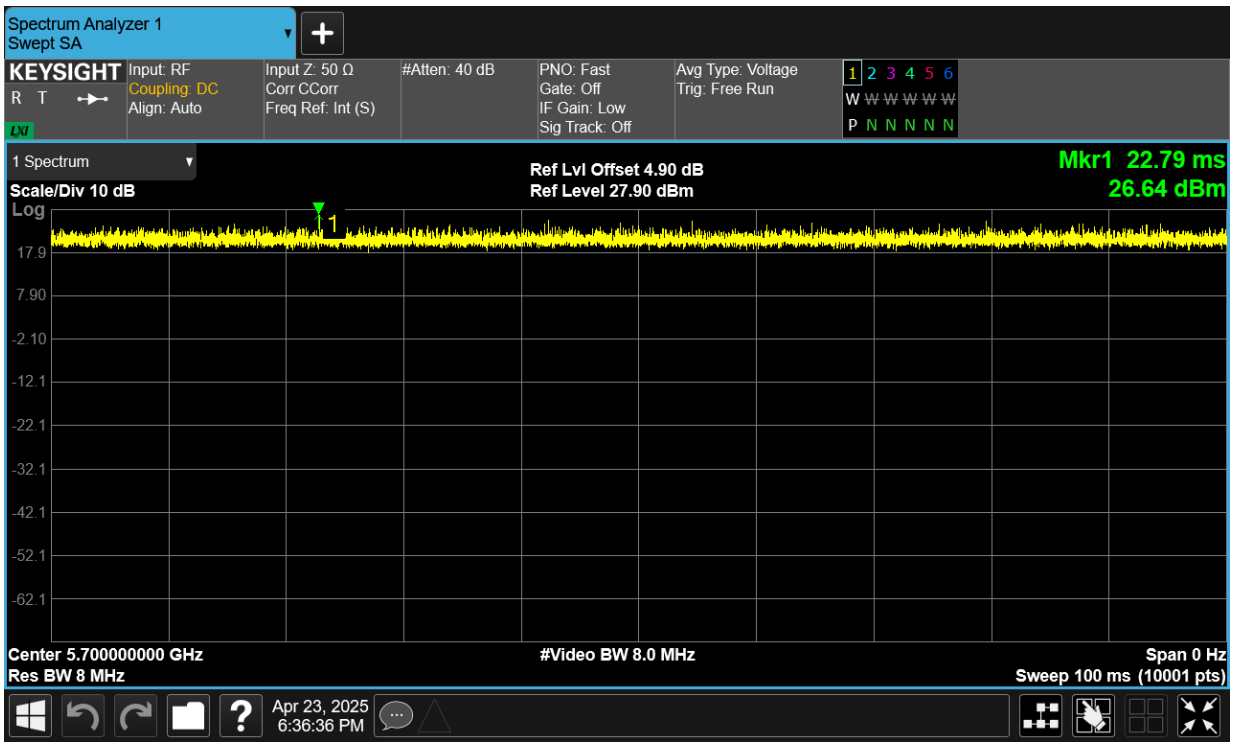
Duty Cycle NVNT ac20 5500MHz Ant1



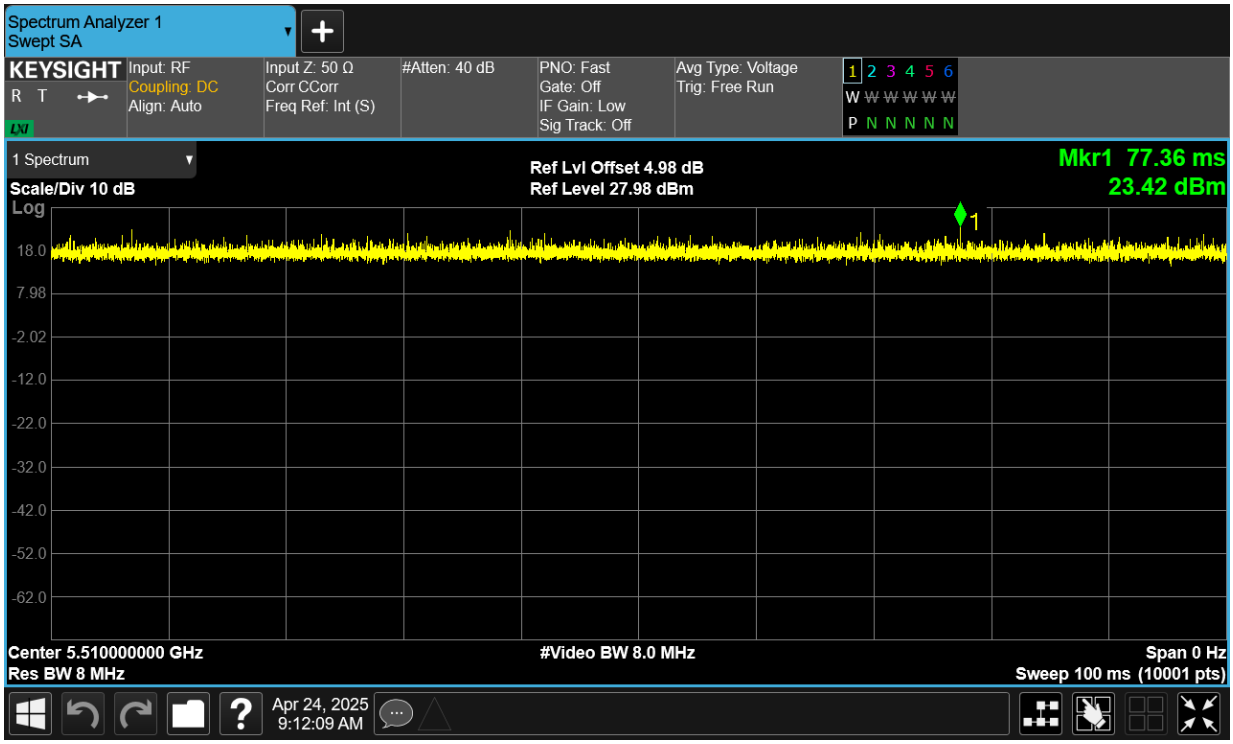
Duty Cycle NVNT ac20 5600MHz Ant1



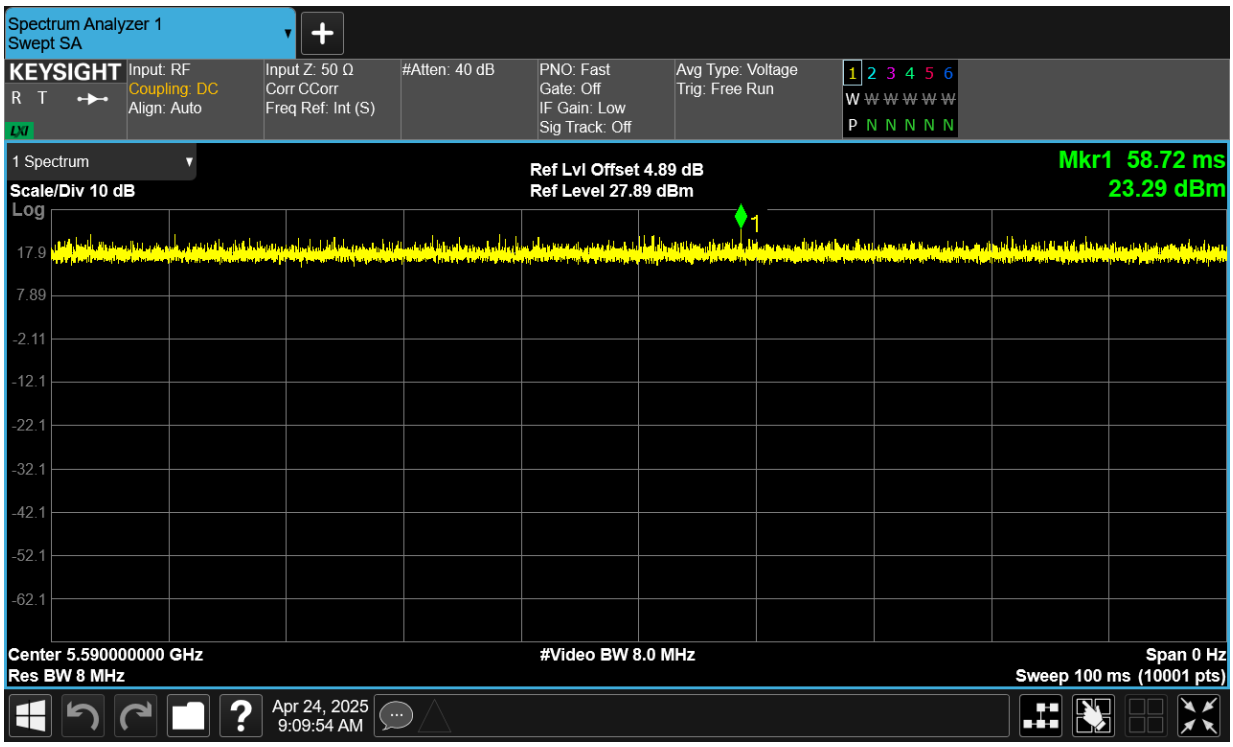
Duty Cycle NVNT ac20 5700MHz Ant1



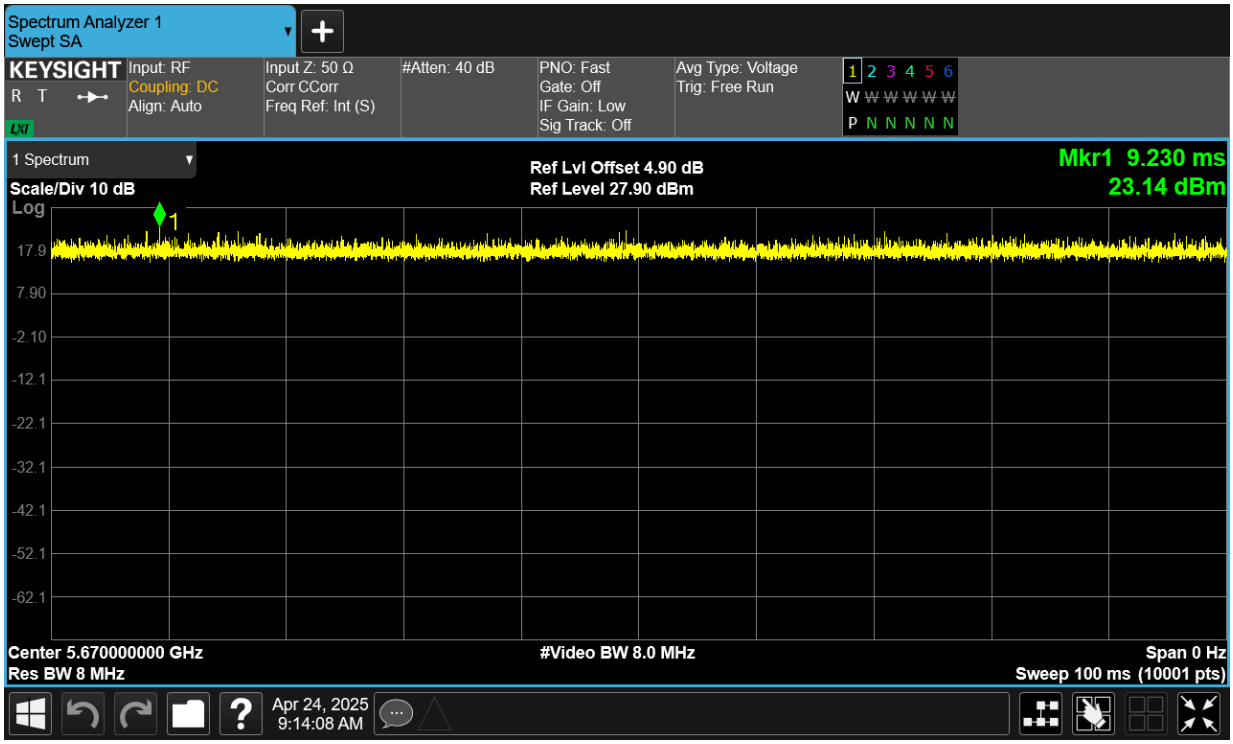
Duty Cycle NVNT ac40 5510MHz Ant1



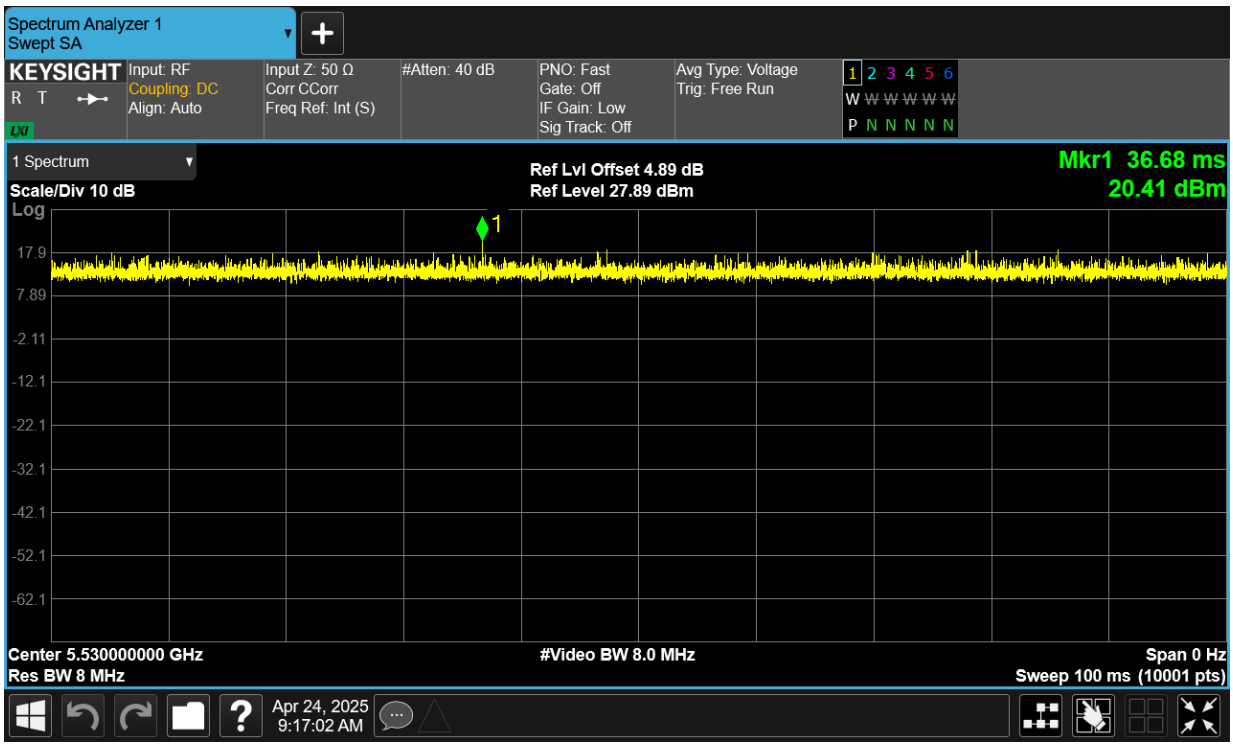
Duty Cycle NVNT ac40 5590MHz Ant1



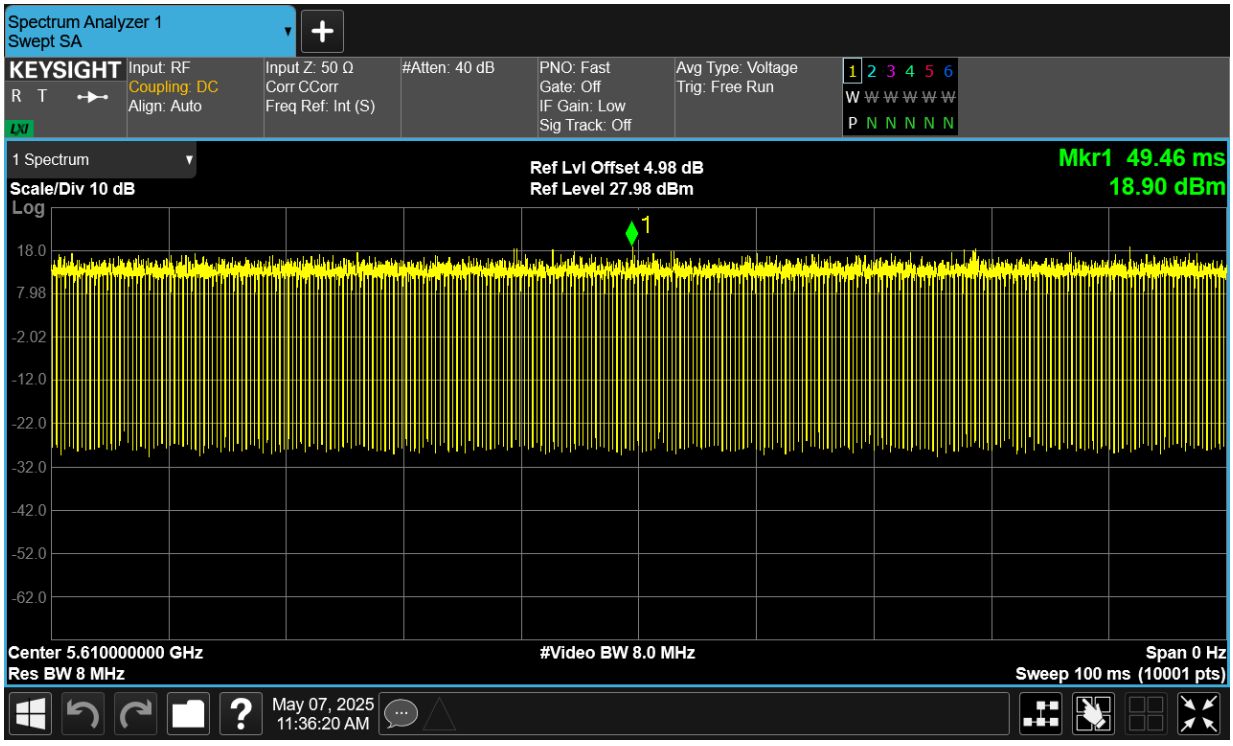
Duty Cycle NVNT ac40 5670MHz Ant1



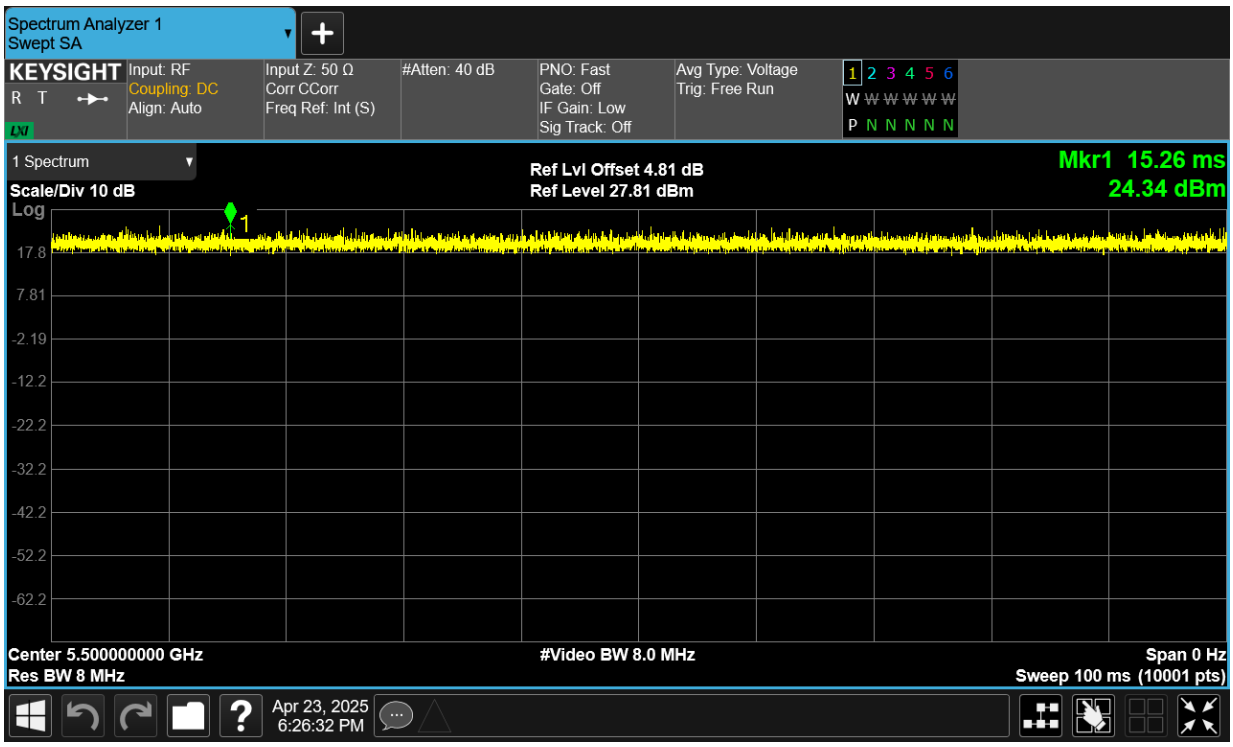
Duty Cycle NVNT ac80 5530MHz Ant1



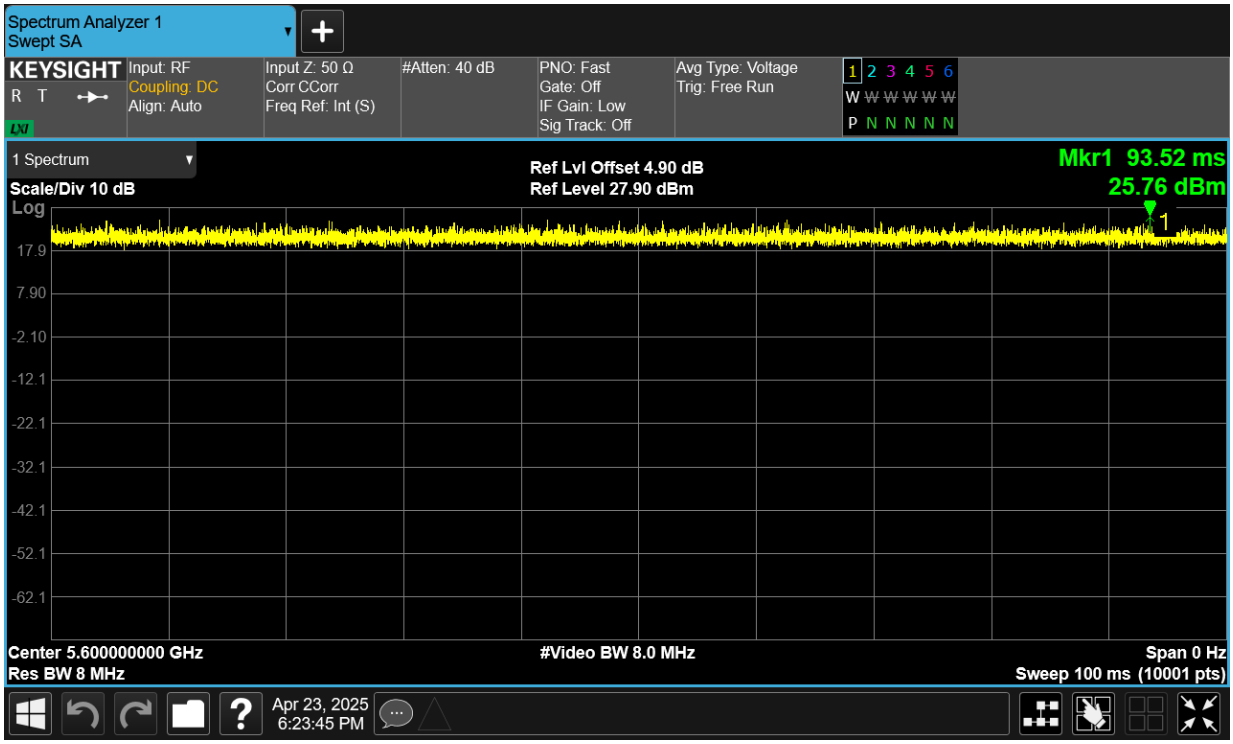
Duty Cycle NVNT ac80 5610MHz Ant1



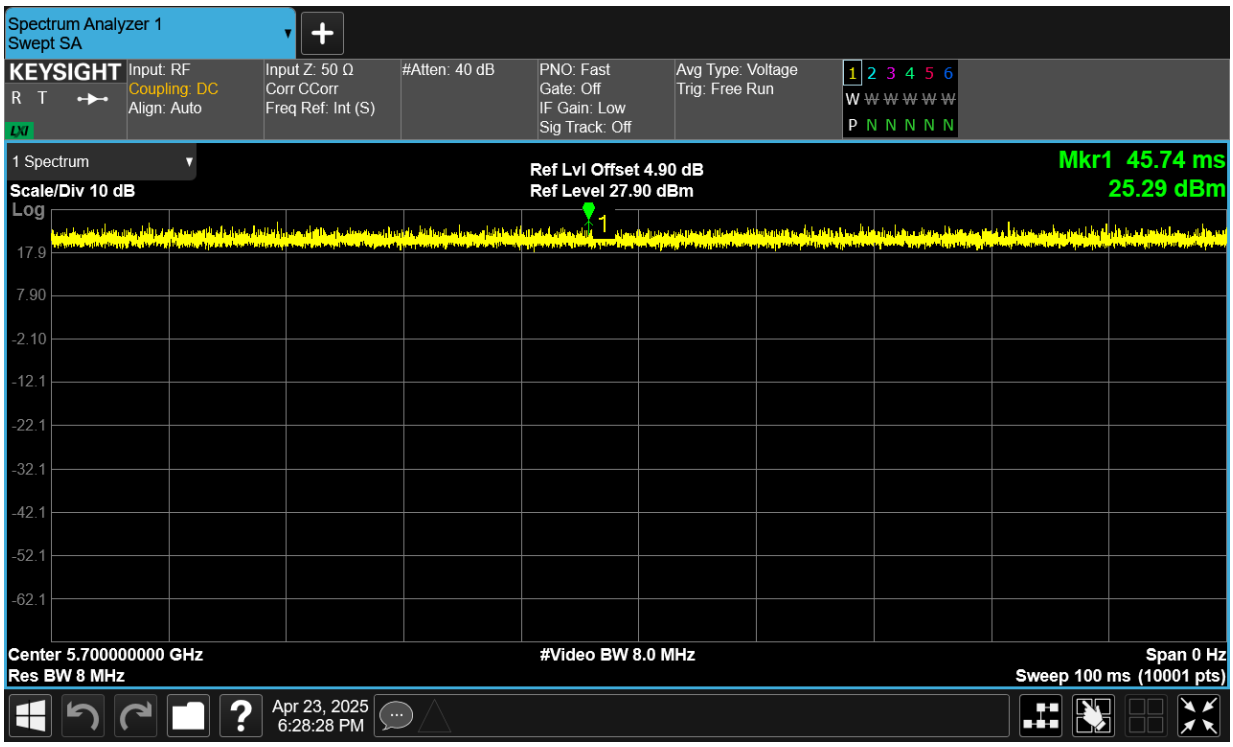
Duty Cycle NVNT n20 5500MHz Ant1



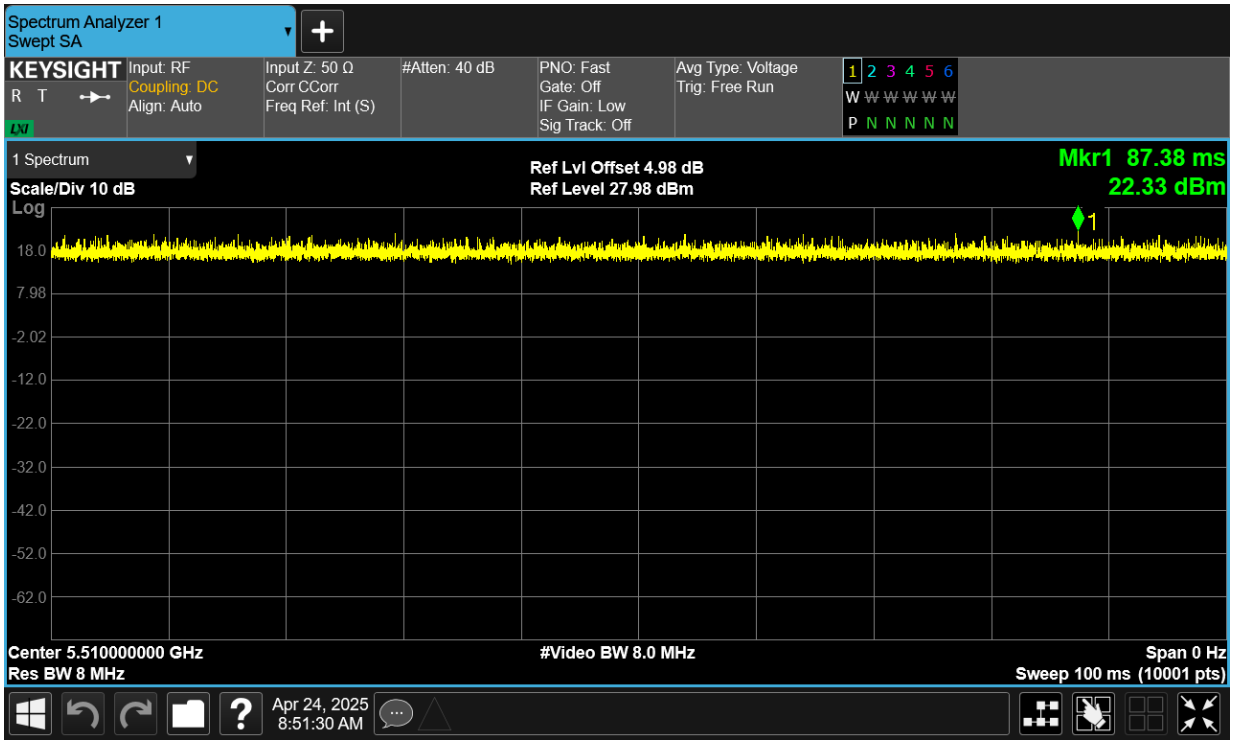
Duty Cycle NVNT n20 5600MHz Ant1



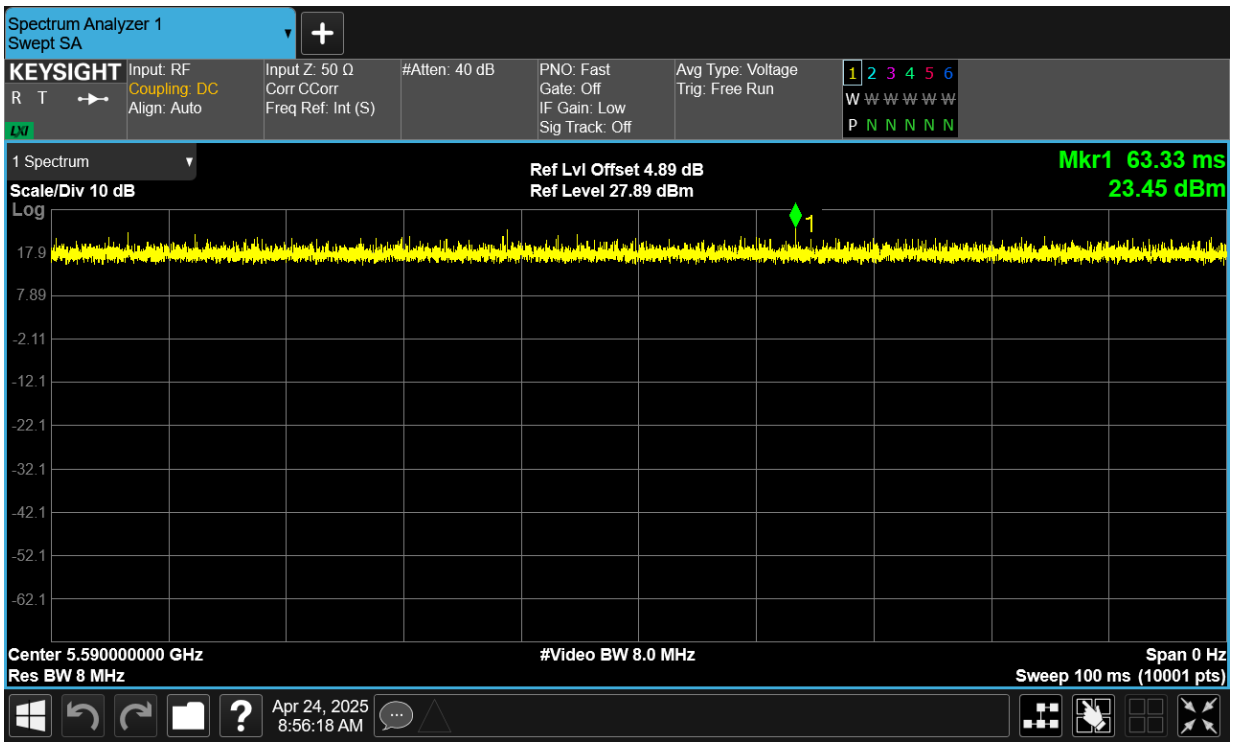
Duty Cycle NVNT n20 5700MHz Ant1



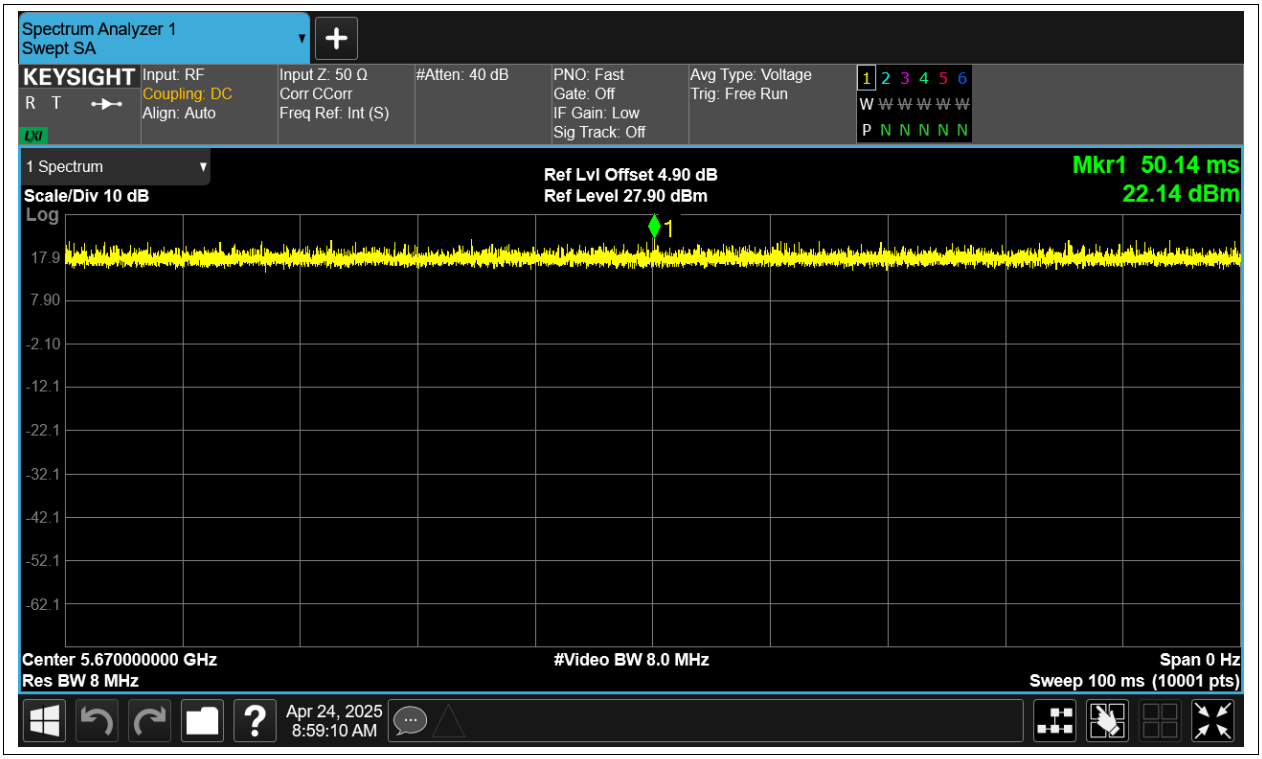
Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5590MHz Ant1



Duty Cycle NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Voltage
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 4.90 dB
Ref Level 27.90 dBm
Mkr1 50.14 ms
22.14 dBm
17.9
7.90
-2.10
-12.1
-22.1
-32.1
-42.1
-52.1
-62.1
Center 5.670000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Apr 24, 2025
8:59:10 AM

Maximum Conducted Output Power

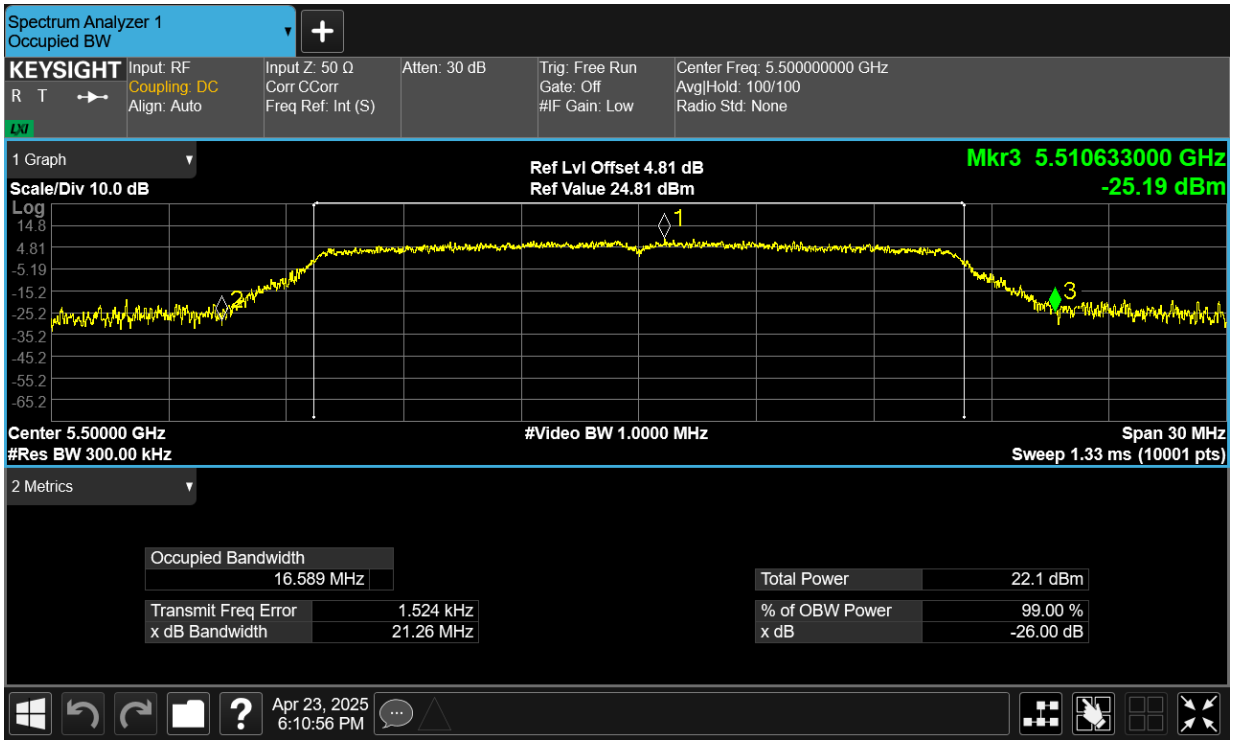
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	15.96	0	15.96	24	Pass
NVNT	a	5600	Ant1	16.05	0	16.05	24	Pass
NVNT	a	5700	Ant1	15.78	0	15.78	24	Pass
NVNT	ac20	5500	Ant1	14.85	0	14.85	24	Pass
NVNT	ac20	5600	Ant1	14.64	0	14.64	24	Pass
NVNT	ac20	5700	Ant1	15.09	0	15.09	24	Pass
NVNT	ac40	5510	Ant1	15.6	0	15.6	24	Pass
NVNT	ac40	5590	Ant1	15.3	0	15.3	24	Pass
NVNT	ac40	5670	Ant1	15.5	0	15.5	24	Pass
NVNT	ac80	5530	Ant1	14.96	0	14.96	24	Pass
NVNT	ac80	5610	Ant1	13.9	0.31	14.21	24	Pass
NVNT	n20	5500	Ant1	15.03	0	15.03	24	Pass
NVNT	n20	5600	Ant1	15.37	0	15.37	24	Pass
NVNT	n20	5700	Ant1	15.26	0	15.26	24	Pass
NVNT	n40	5510	Ant1	15.47	0	15.47	24	Pass
NVNT	n40	5590	Ant1	15.33	0	15.33	24	Pass
NVNT	n40	5670	Ant1	15.51	0	15.51	24	Pass

-26dB Bandwidth

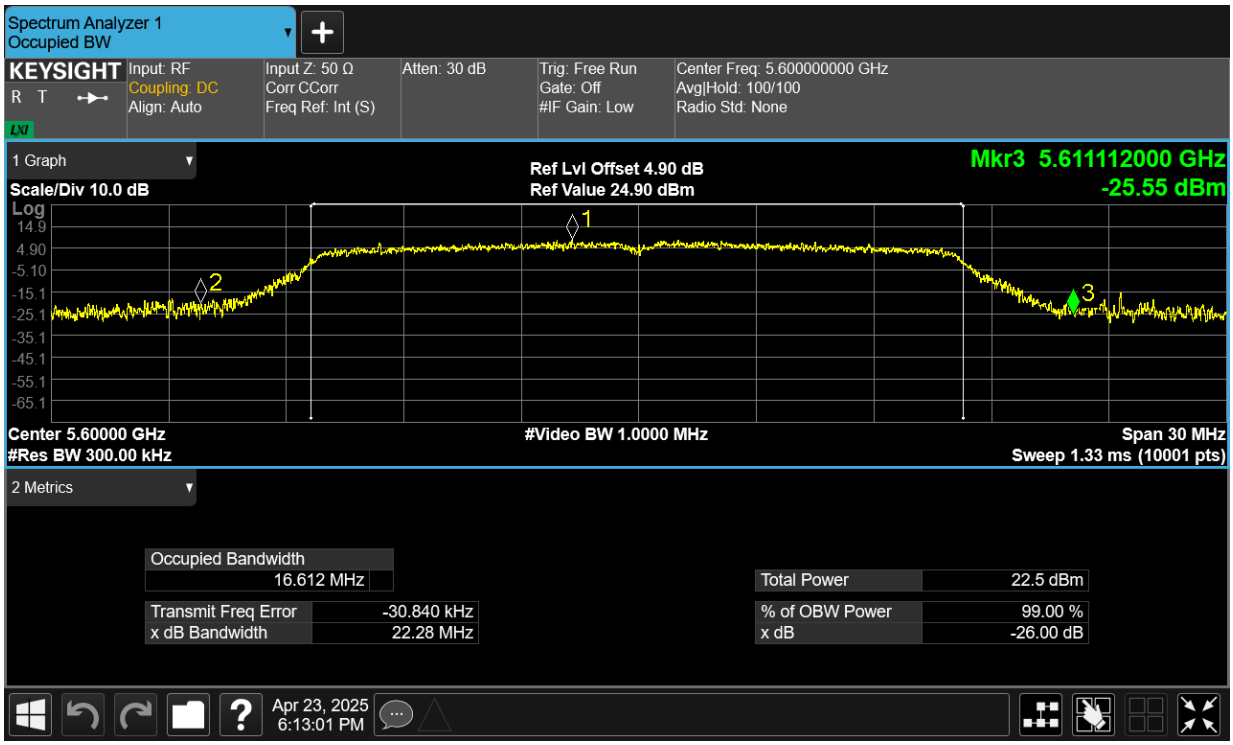
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	21.263
NVNT	a	5600	Ant1	22.285
NVNT	a	5700	Ant1	21.278
NVNT	ac20	5500	Ant1	24.536
NVNT	ac20	5600	Ant1	20.252
NVNT	ac20	5700	Ant1	23.825
NVNT	ac40	5510	Ant1	40.386
NVNT	ac40	5590	Ant1	40.077
NVNT	ac40	5670	Ant1	39.945
NVNT	ac80	5530	Ant1	79.207
NVNT	ac80	5610	Ant1	79.629
NVNT	n20	5500	Ant1	20.87
NVNT	n20	5600	Ant1	22.568
NVNT	n20	5700	Ant1	22.406
NVNT	n40	5510	Ant1	39.709
NVNT	n40	5590	Ant1	39.999
NVNT	n40	5670	Ant1	40.416

Test Graphs

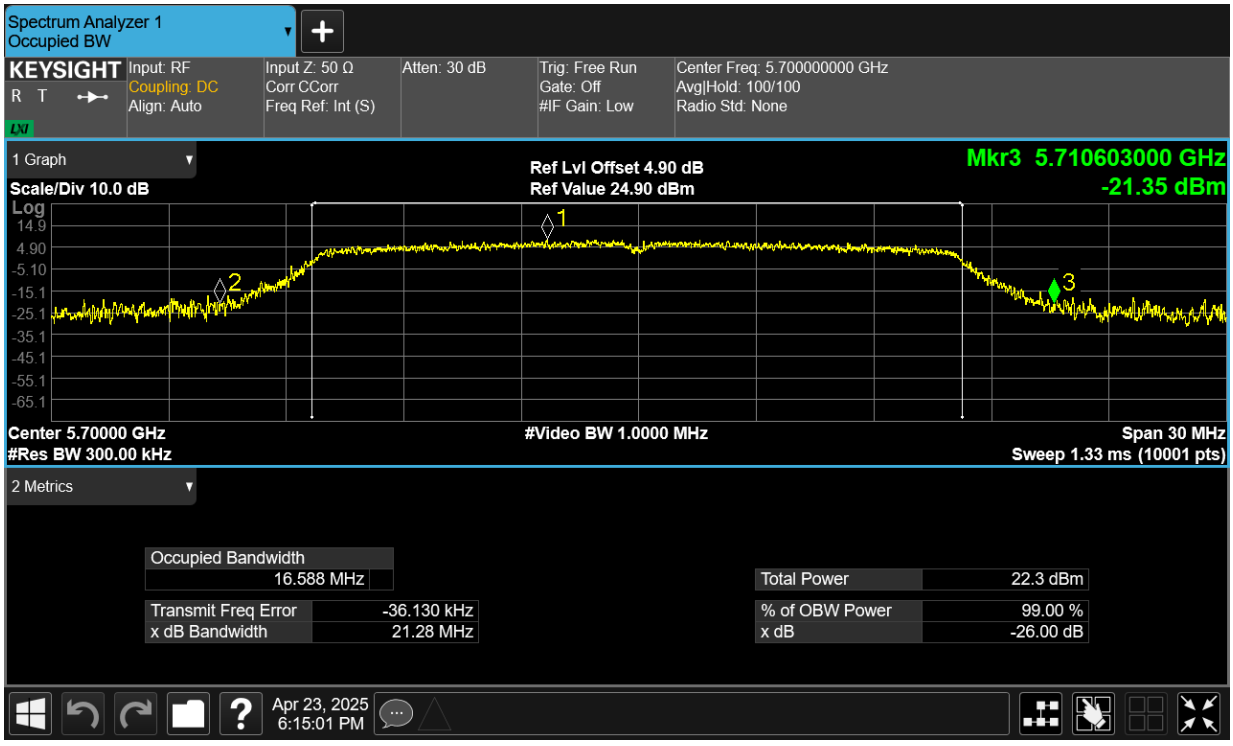
-26dB Bandwidth NVNT a 5500MHz Ant1



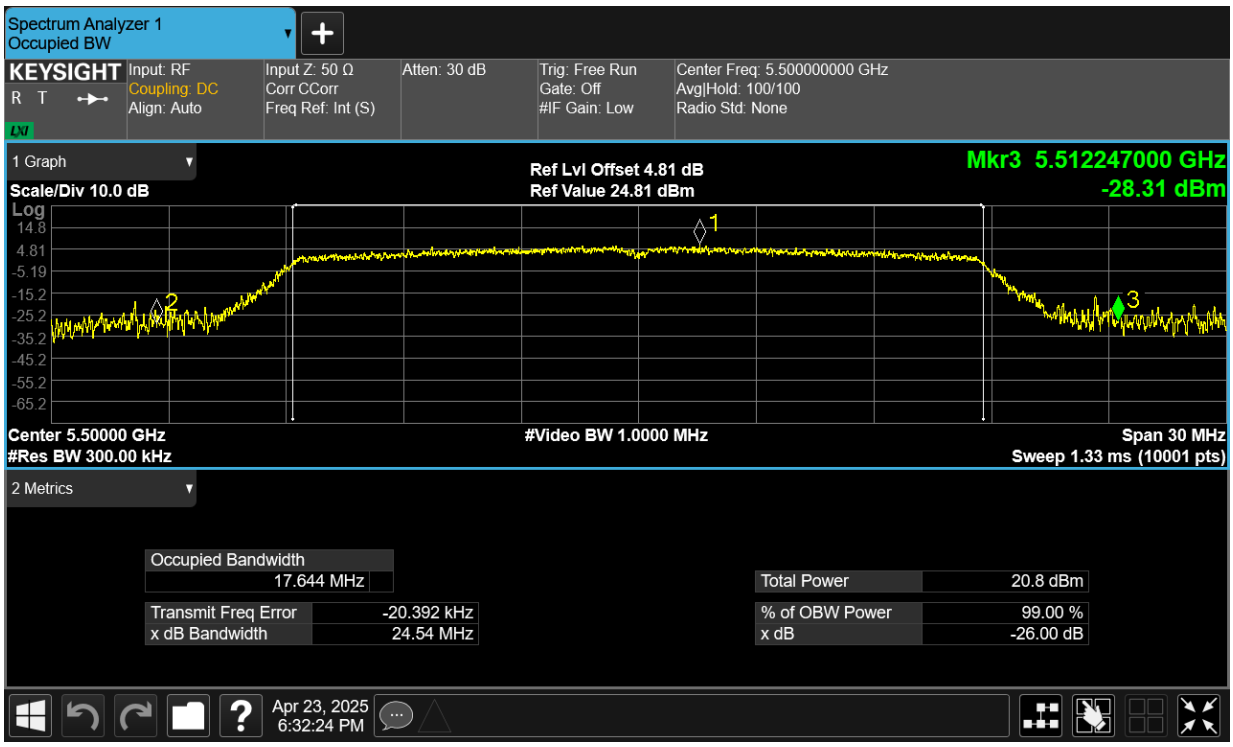
-26dB Bandwidth NVNT a 5600MHz Ant1



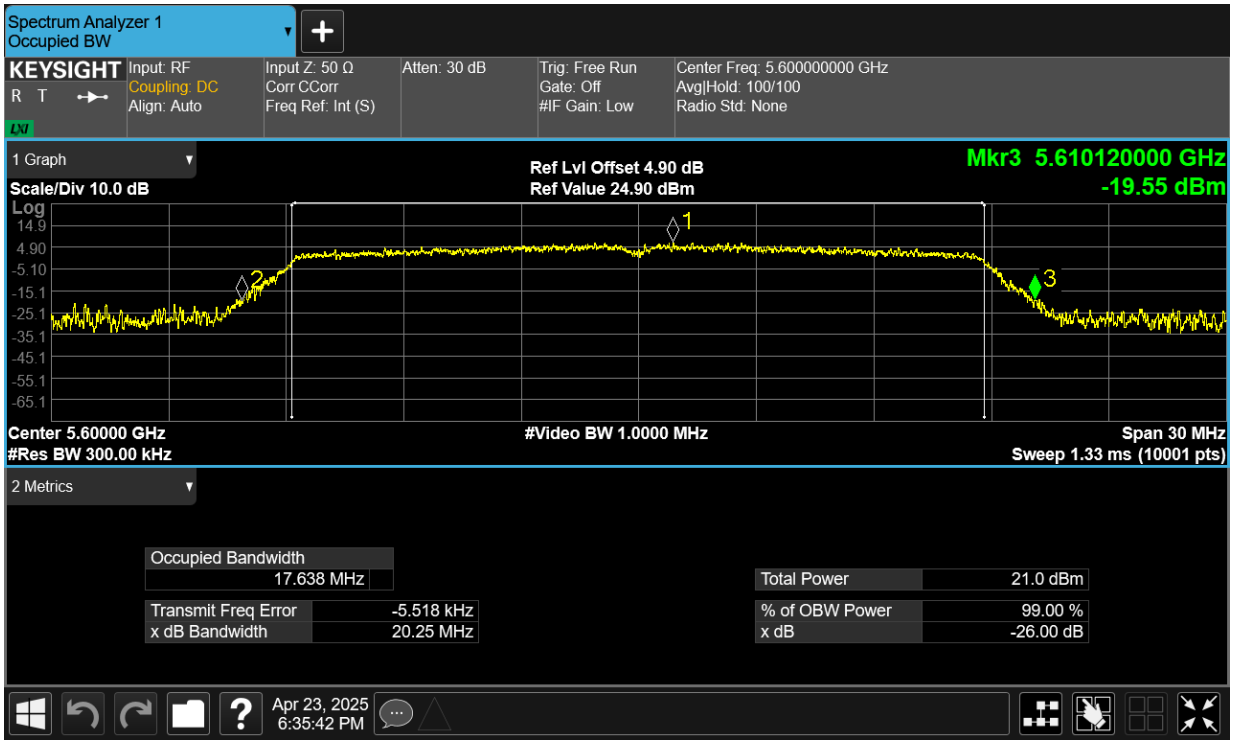
-26dB Bandwidth NVNT a 5700MHz Ant1



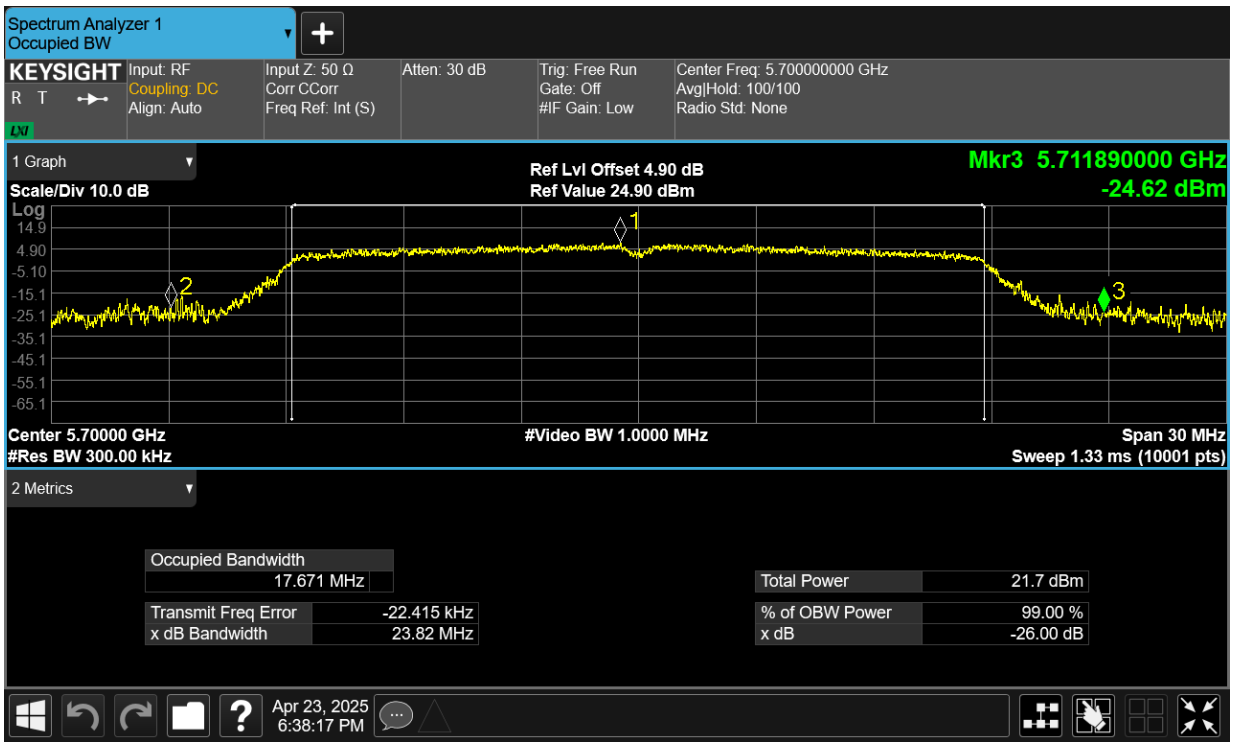
-26dB Bandwidth NVNT ac20 5500MHz Ant1



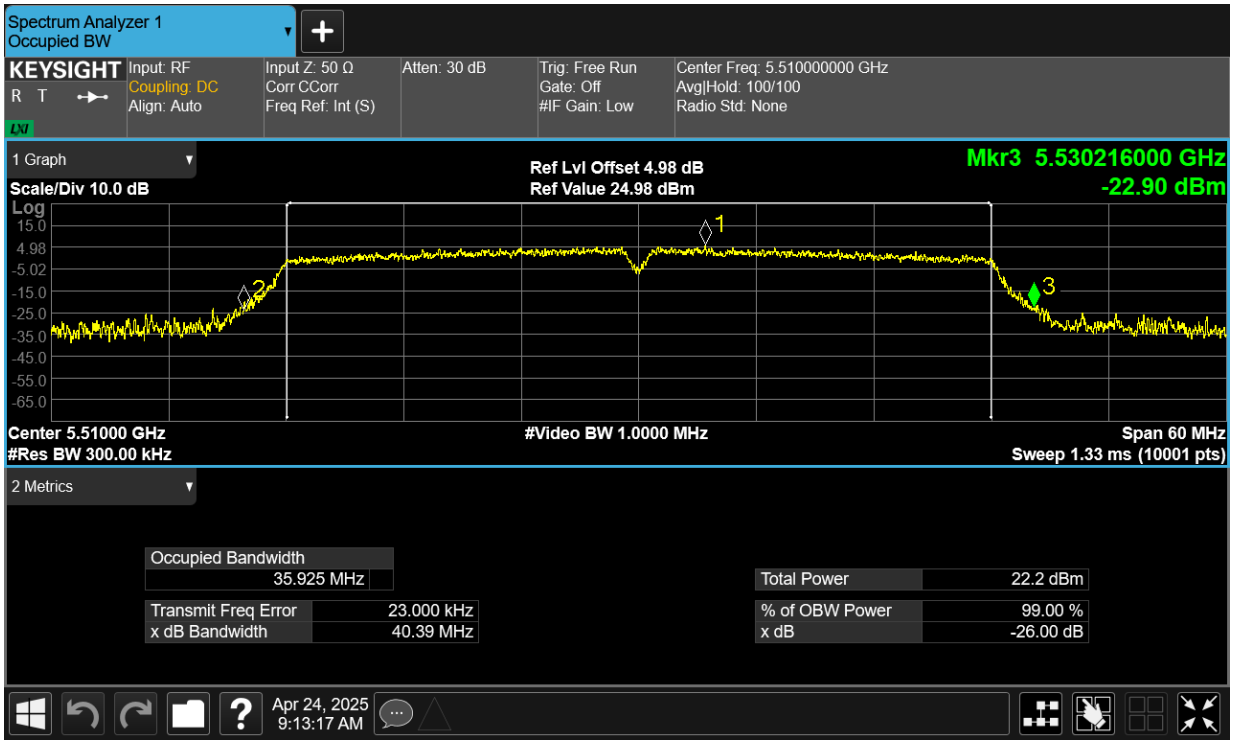
-26dB Bandwidth NVNT ac20 5600MHz Ant1



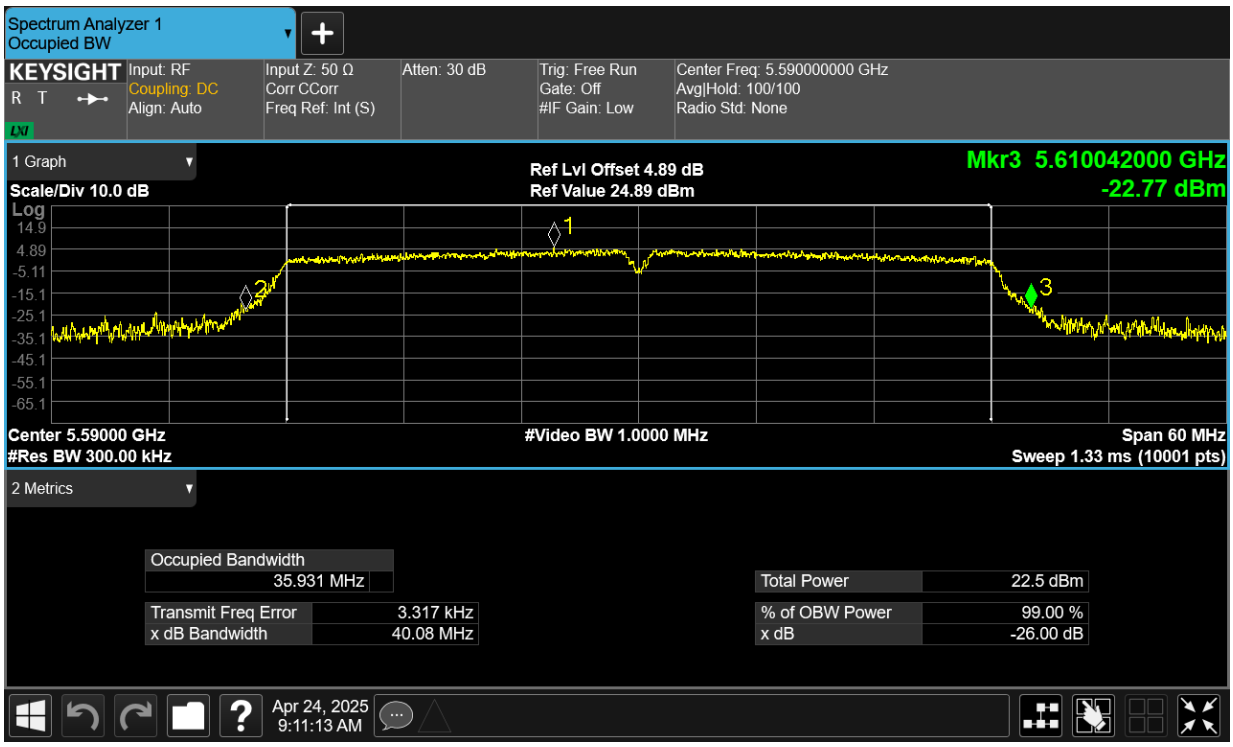
-26dB Bandwidth NVNT ac20 5700MHz Ant1



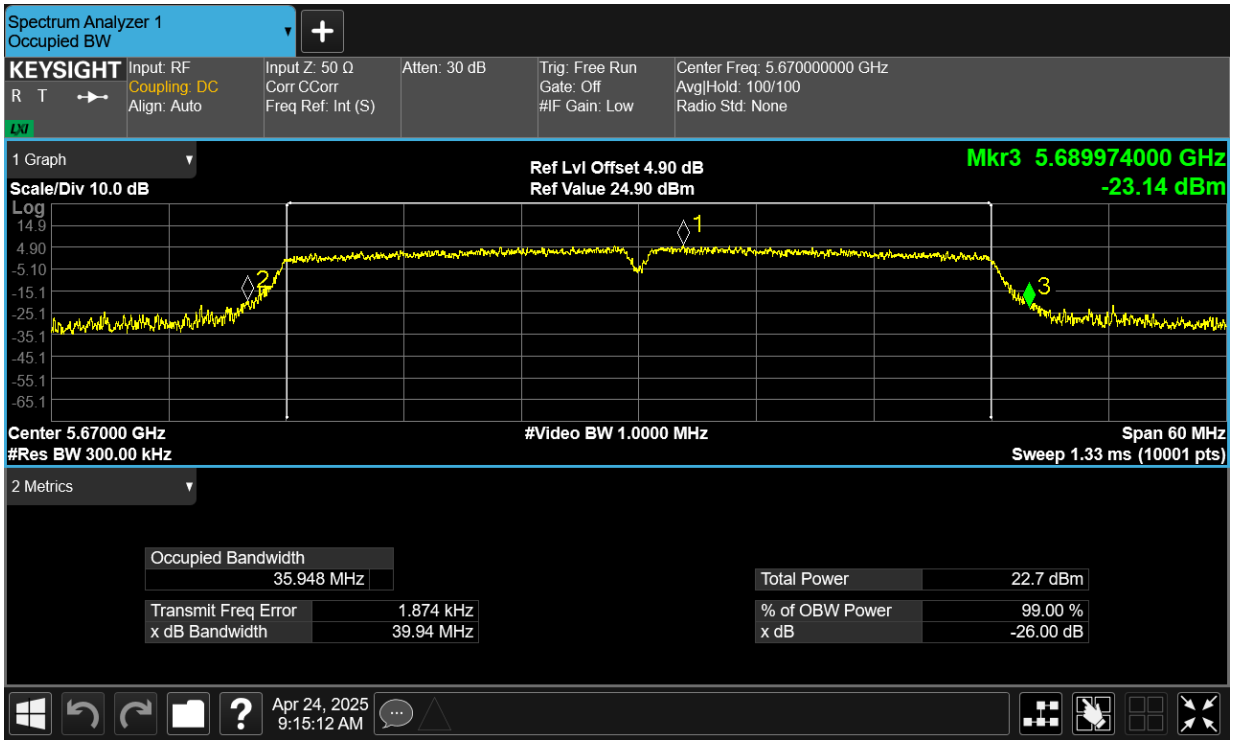
-26dB Bandwidth NVNT ac40 5510MHz Ant1



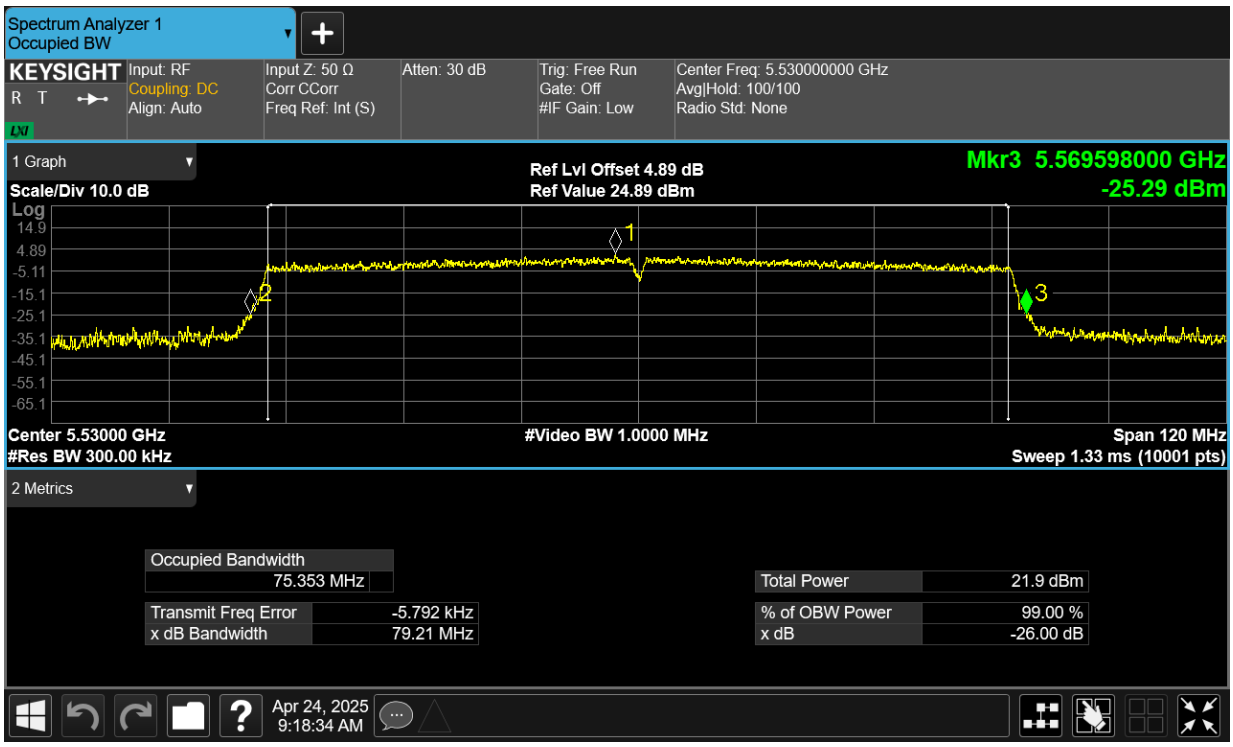
-26dB Bandwidth NVNT ac40 5590MHz Ant1



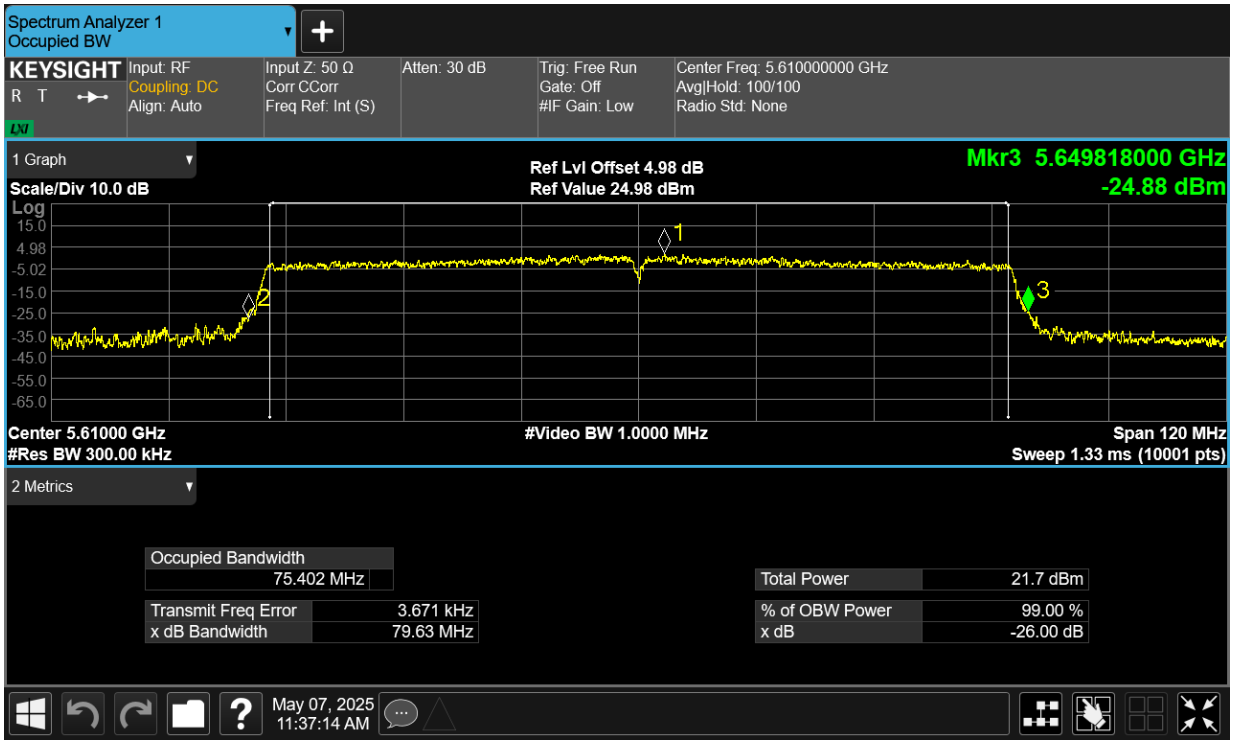
-26dB Bandwidth NVNT ac40 5670MHz Ant1



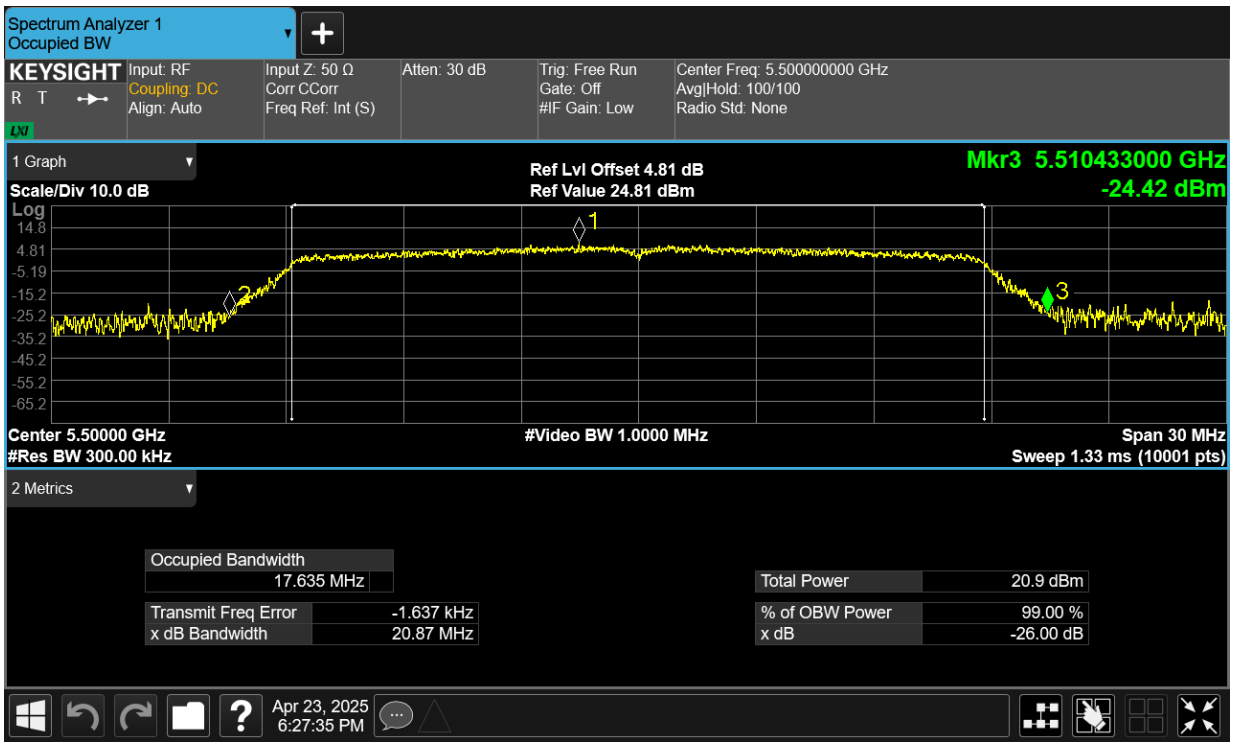
-26dB Bandwidth NVNT ac80 5530MHz Ant1



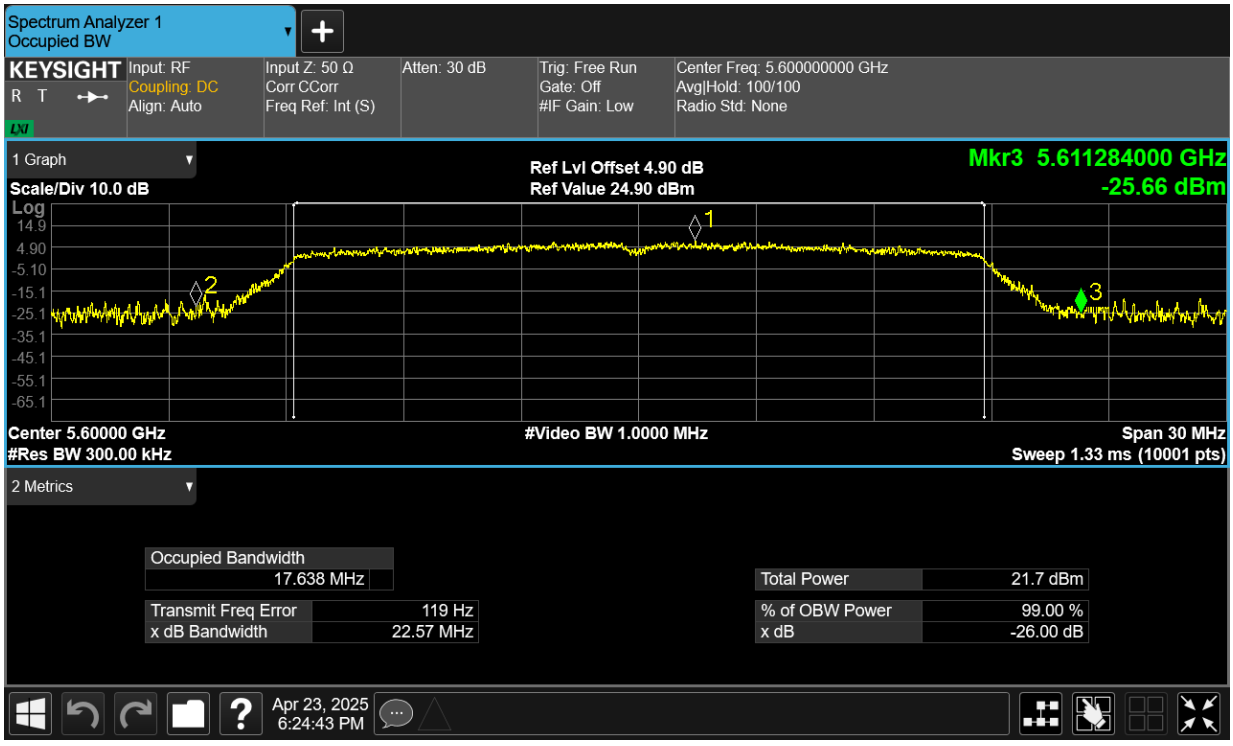
-26dB Bandwidth NVNT ac80 5610MHz Ant1



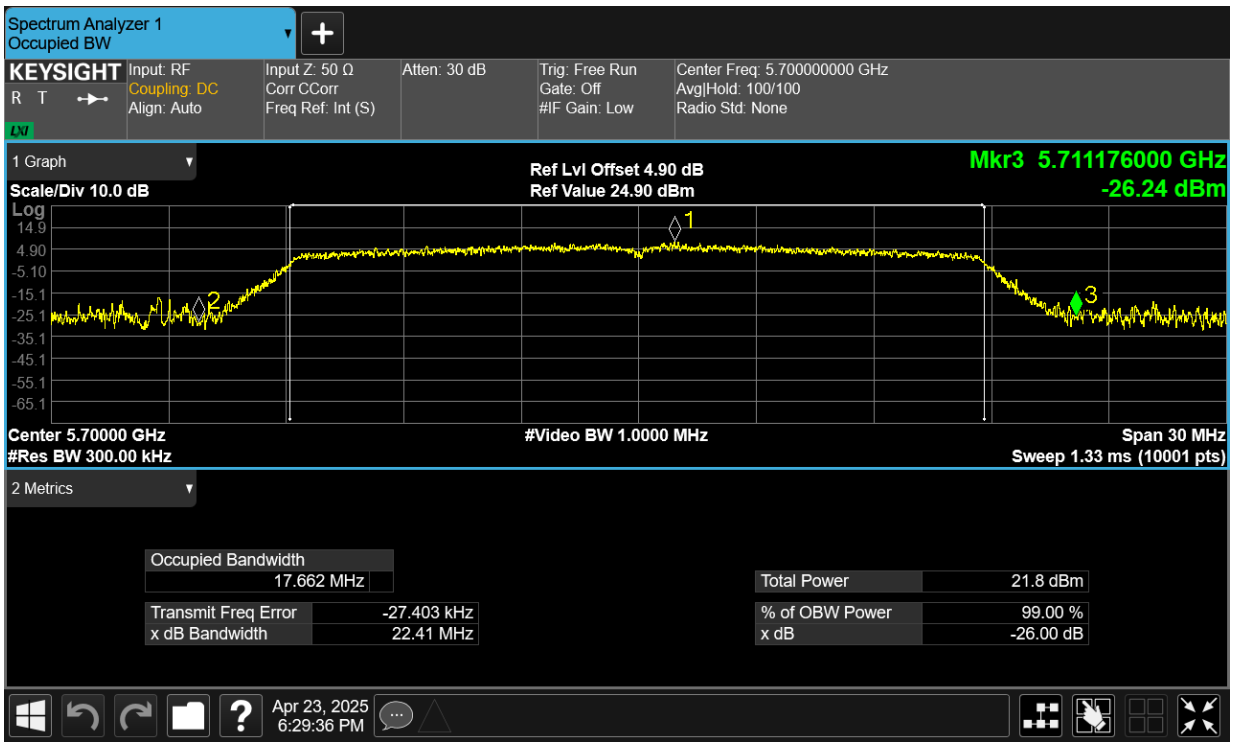
-26dB Bandwidth NVNT n20 5500MHz Ant1



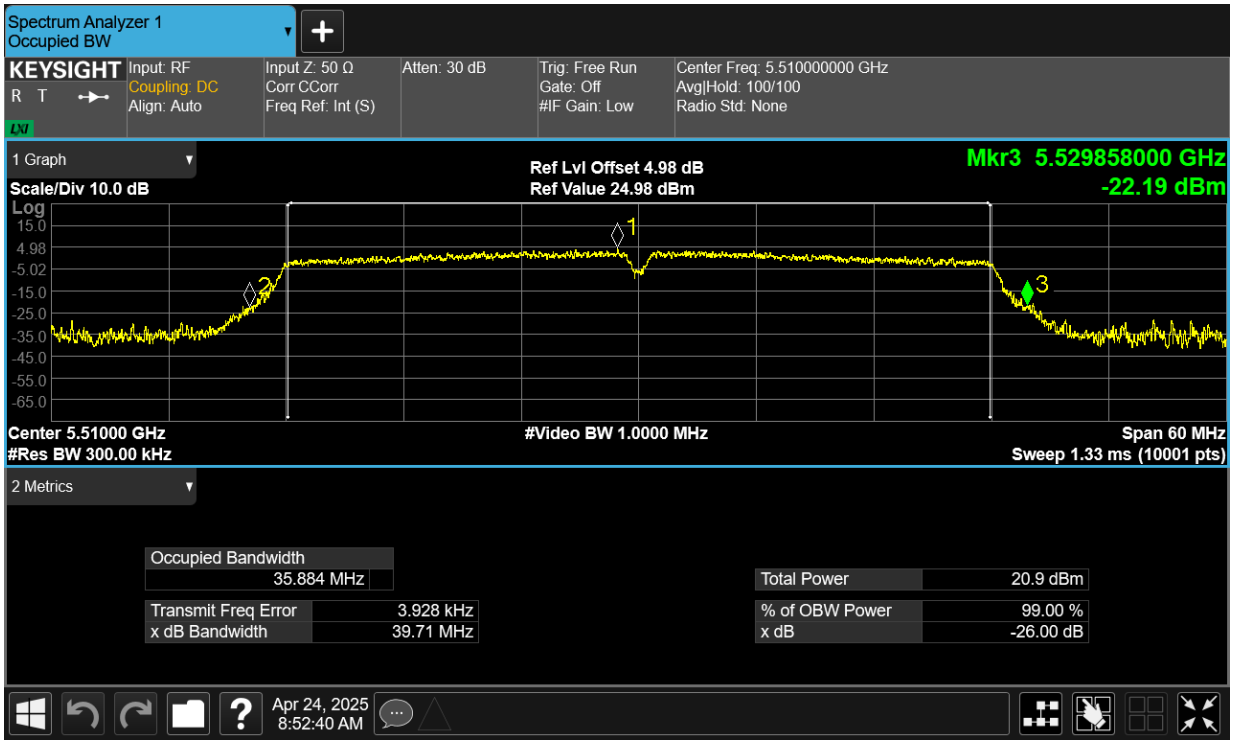
-26dB Bandwidth NVNT n20 5600MHz Ant1



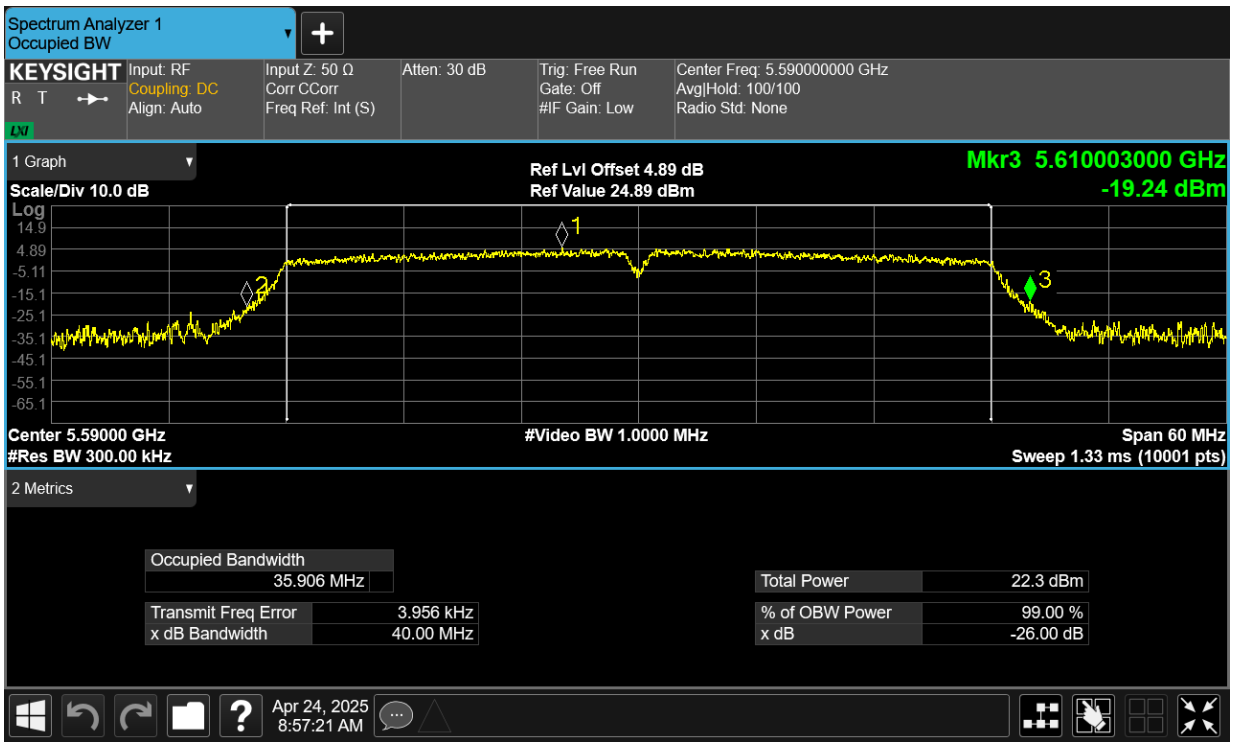
-26dB Bandwidth NVNT n20 5700MHz Ant1



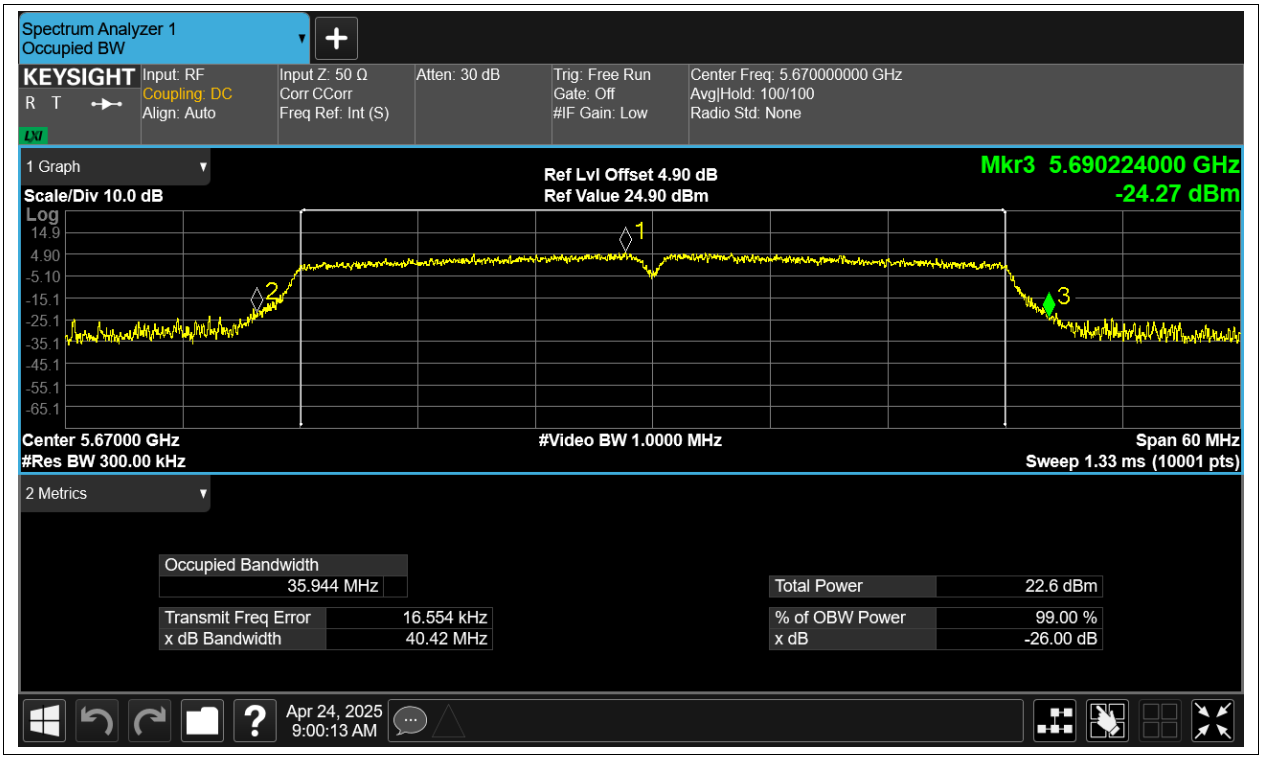
-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5590MHz Ant1



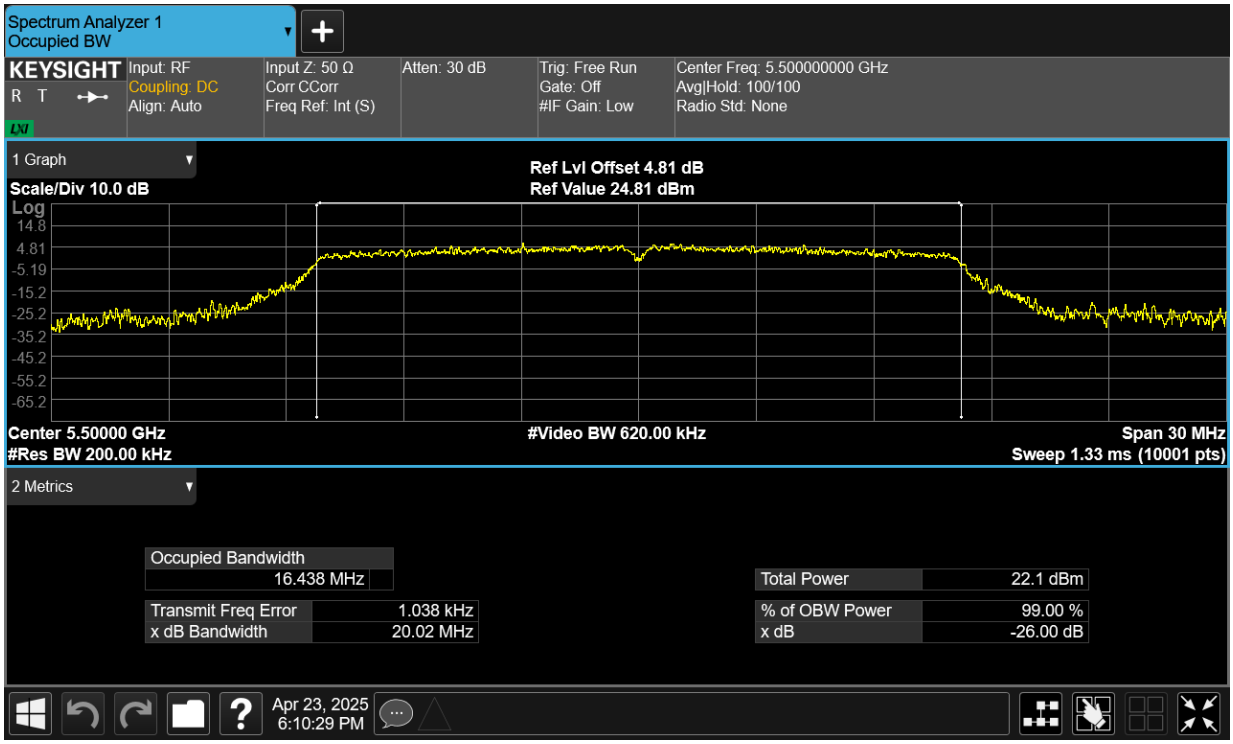
-26dB Bandwidth NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 5.670000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 4.90 dB
Ref Value 24.90 dBm
Mkr3 5.690224000 GHz
-24.27 dBm
Scale/Div 10.0 dB
Log
14.9
4.90
-5.10
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.67000 GHz
#Res BW 300.00 kHz
#Video BW 1.0000 MHz
Span 60 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
35.944 MHz
Transmit Freq Error 16.554 kHz
x dB Bandwidth 40.42 MHz
Total Power 22.6 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Apr 24, 2025
9:00:13 AM

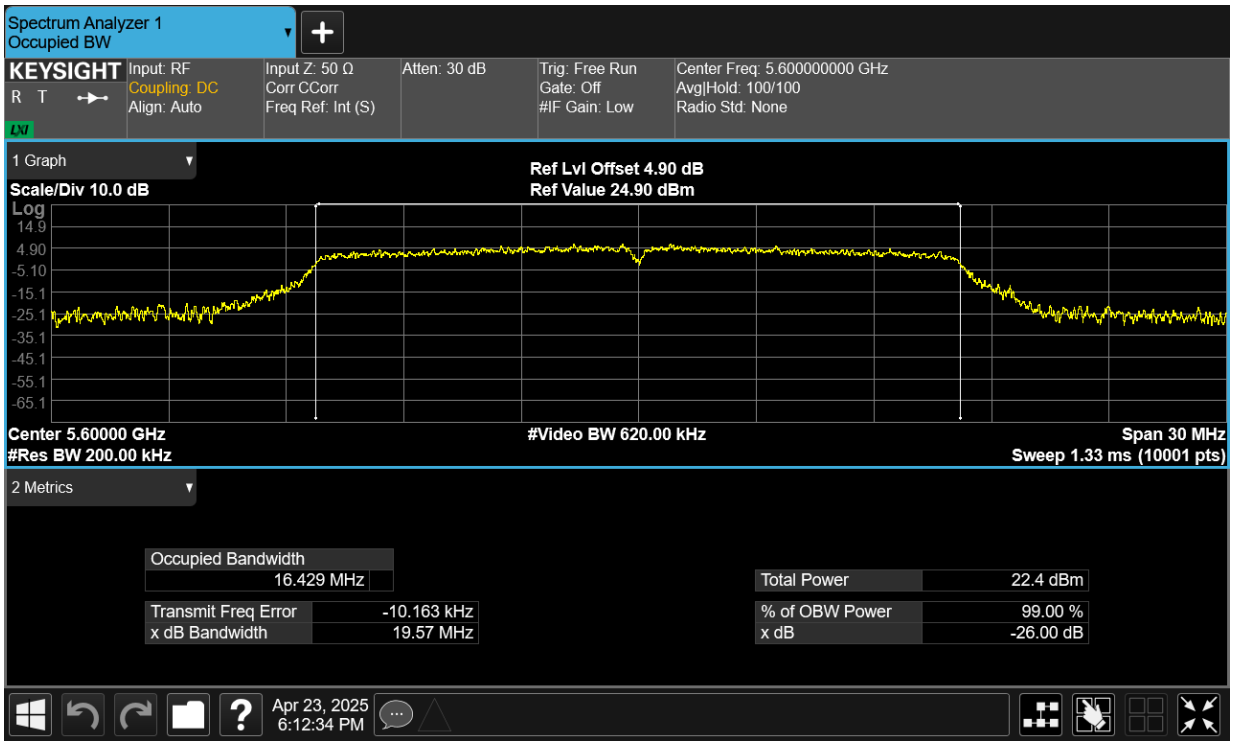
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.438
NVNT	a	5600	Ant1	16.429
NVNT	a	5700	Ant1	16.445
NVNT	ac20	5500	Ant1	17.549
NVNT	ac20	5600	Ant1	17.549
NVNT	ac20	5700	Ant1	17.584
NVNT	ac40	5510	Ant1	35.932
NVNT	ac40	5590	Ant1	36.008
NVNT	ac40	5670	Ant1	36.016
NVNT	ac80	5530	Ant1	75.293
NVNT	ac80	5610	Ant1	75.324
NVNT	n20	5500	Ant1	17.559
NVNT	n20	5600	Ant1	17.563
NVNT	n20	5700	Ant1	17.584
NVNT	n40	5510	Ant1	35.992
NVNT	n40	5590	Ant1	35.957
NVNT	n40	5670	Ant1	35.93

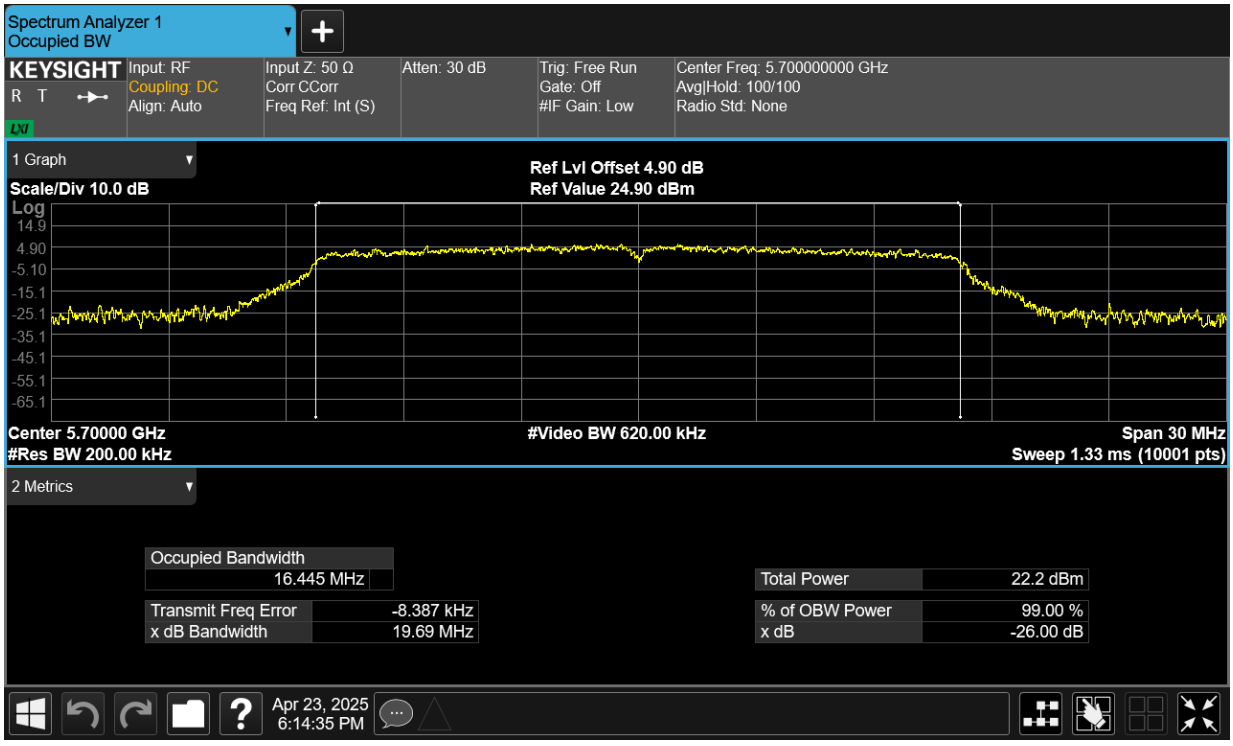
Test Graphs
OBW NVNT a 5500MHz Ant1



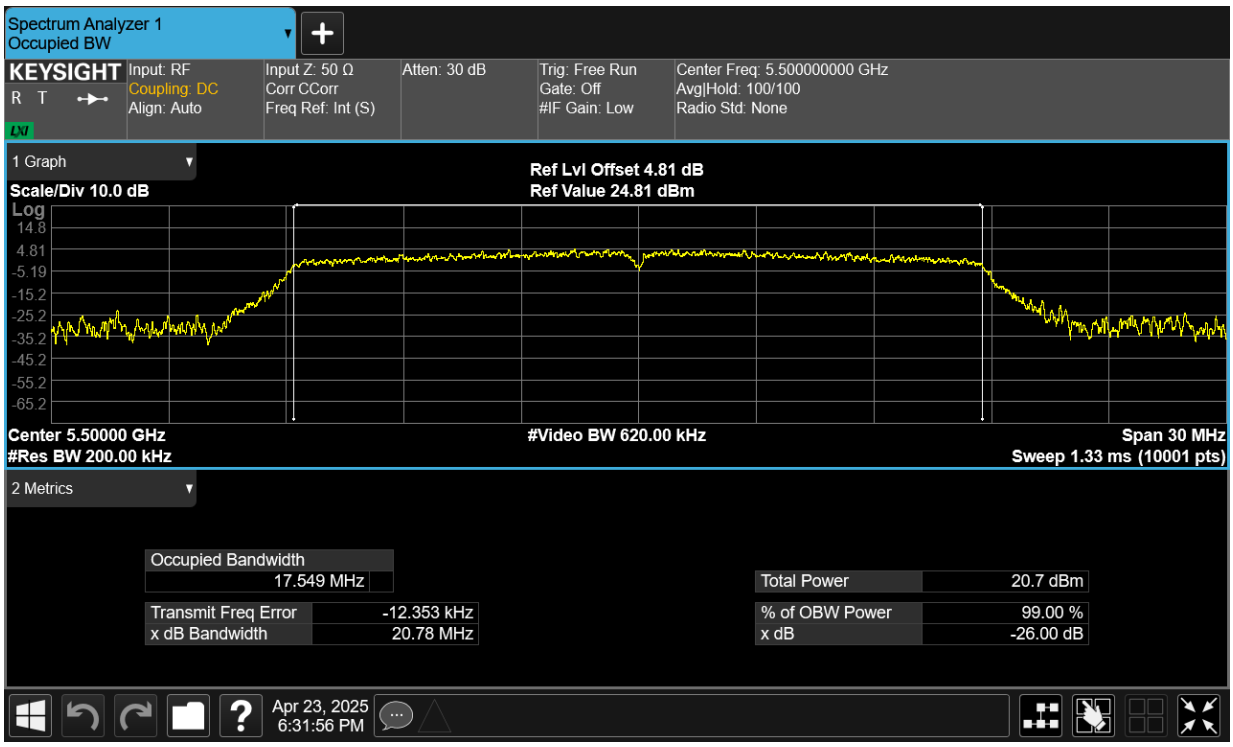
OBW NVNT a 5600MHz Ant1



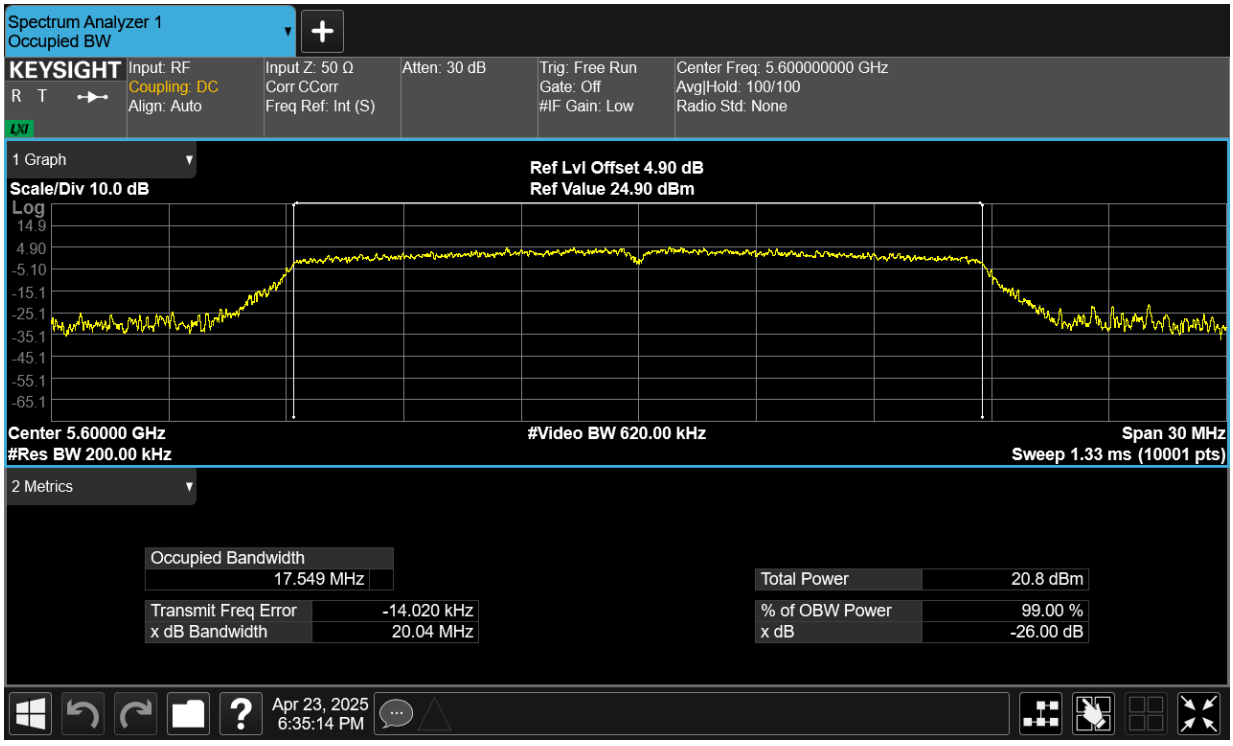
OBW NVNT a 5700MHz Ant1



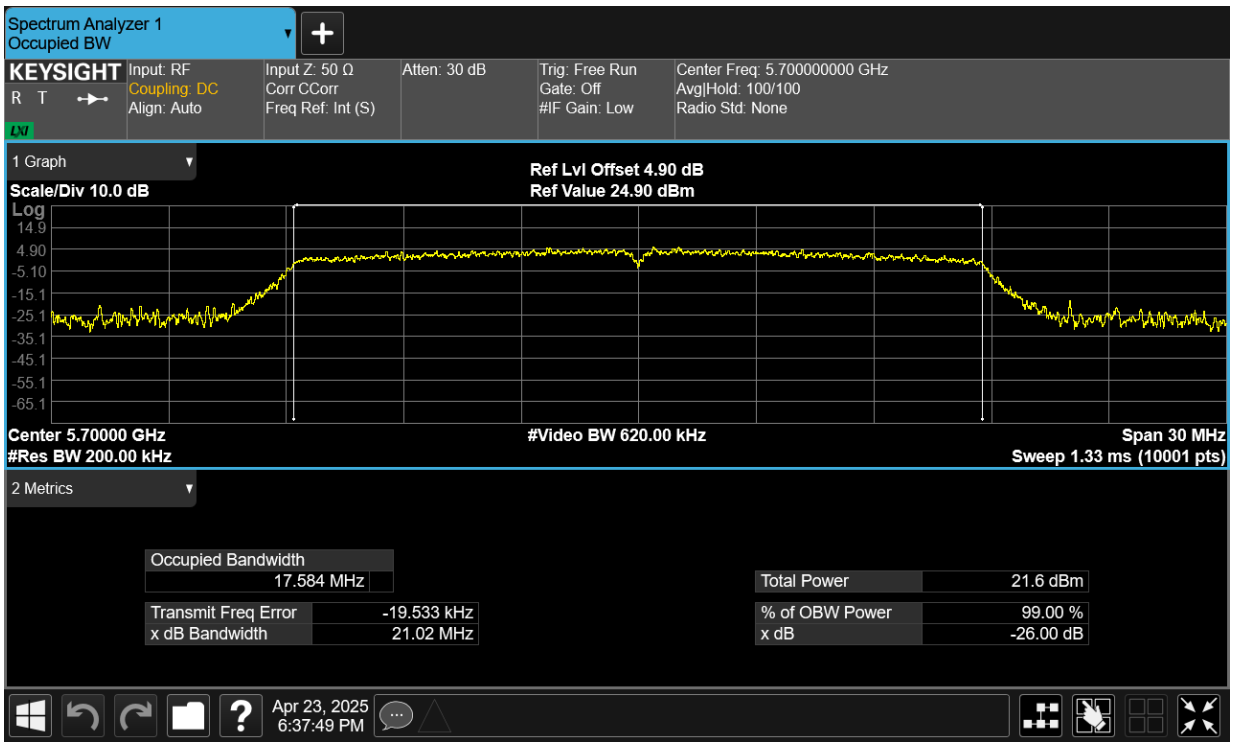
OBW NVNT ac20 5500MHz Ant1



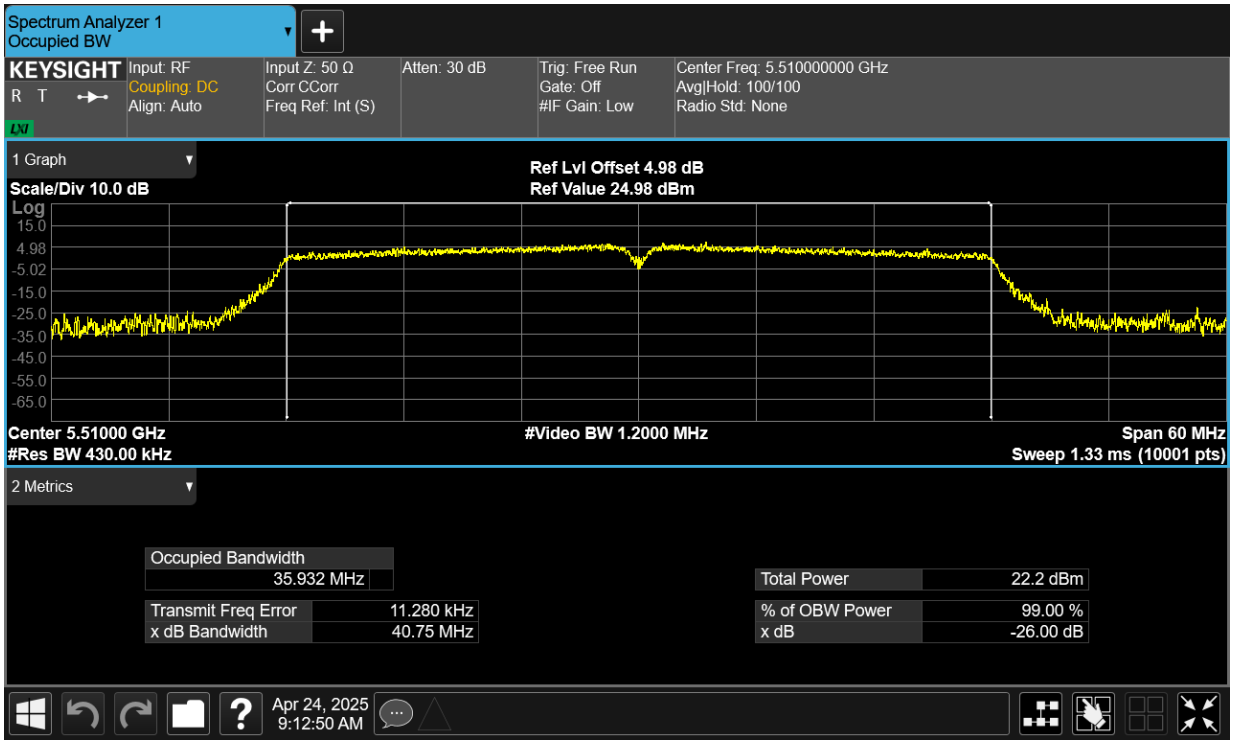
OBW NVNT ac20 5600MHz Ant1



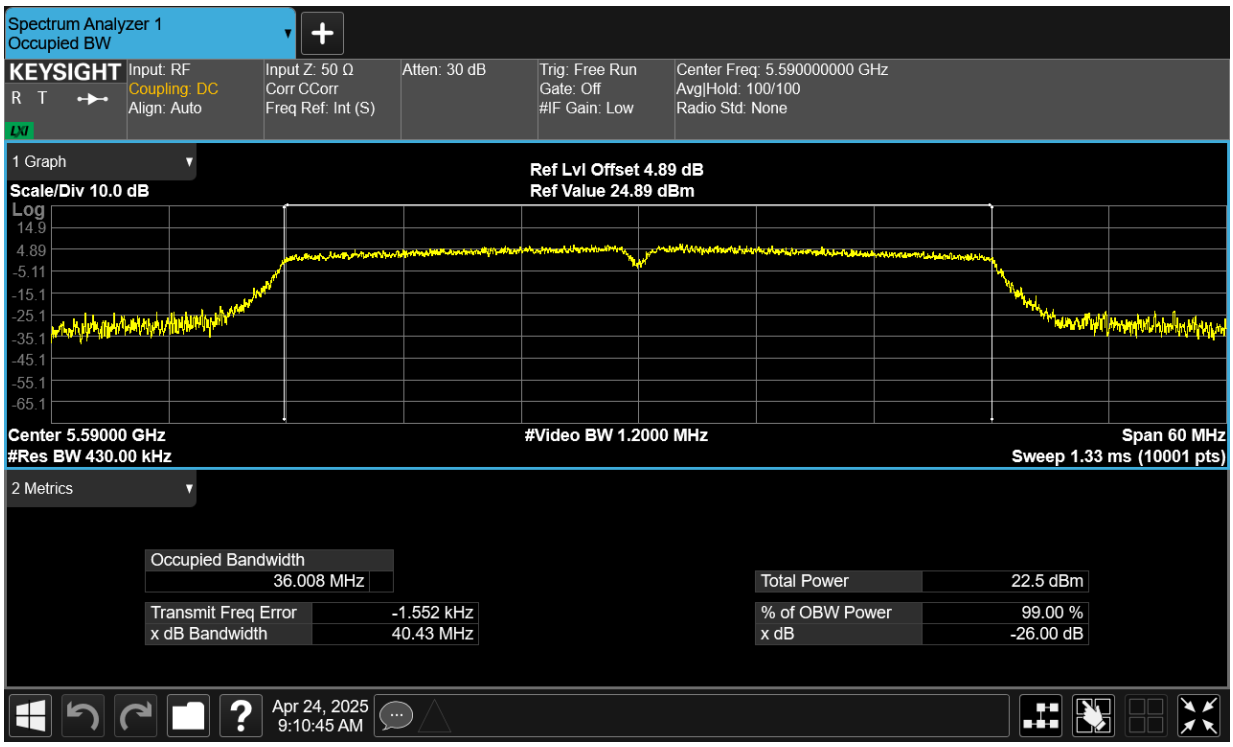
OBW NVNT ac20 5700MHz Ant1



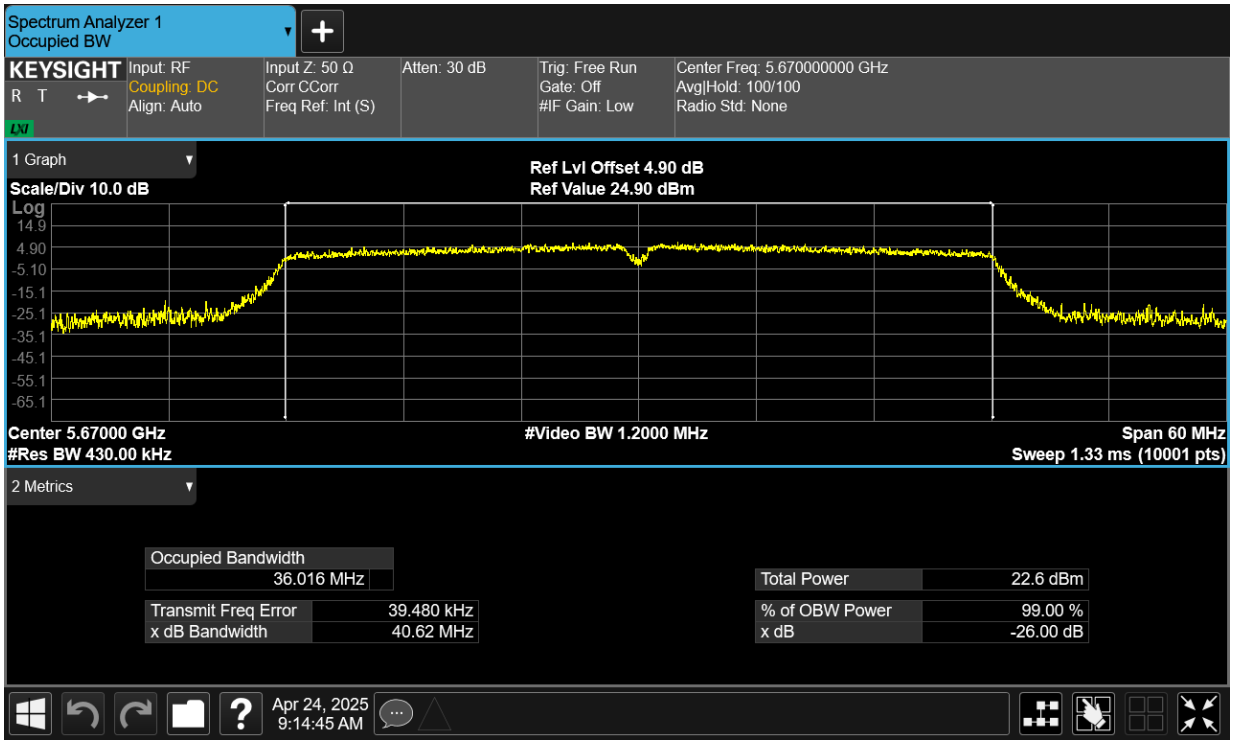
OBW NVNT ac40 5510MHz Ant1



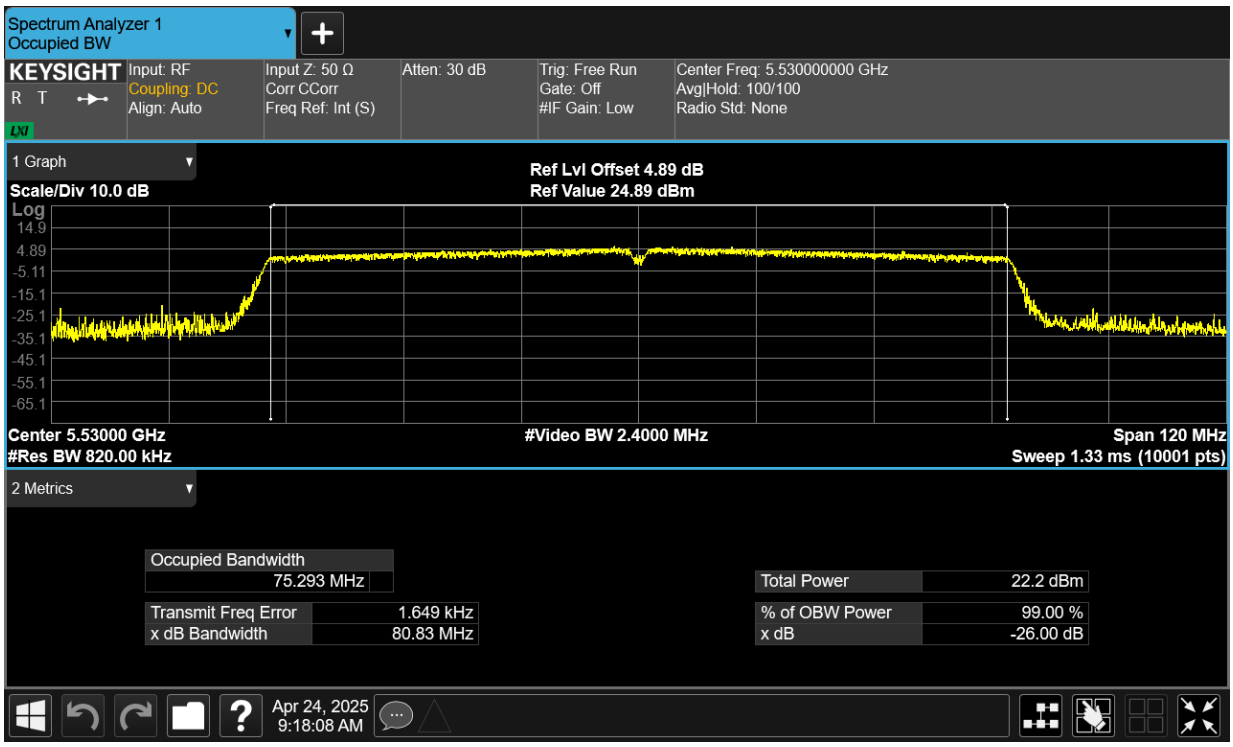
OBW NVNT ac40 5590MHz Ant1



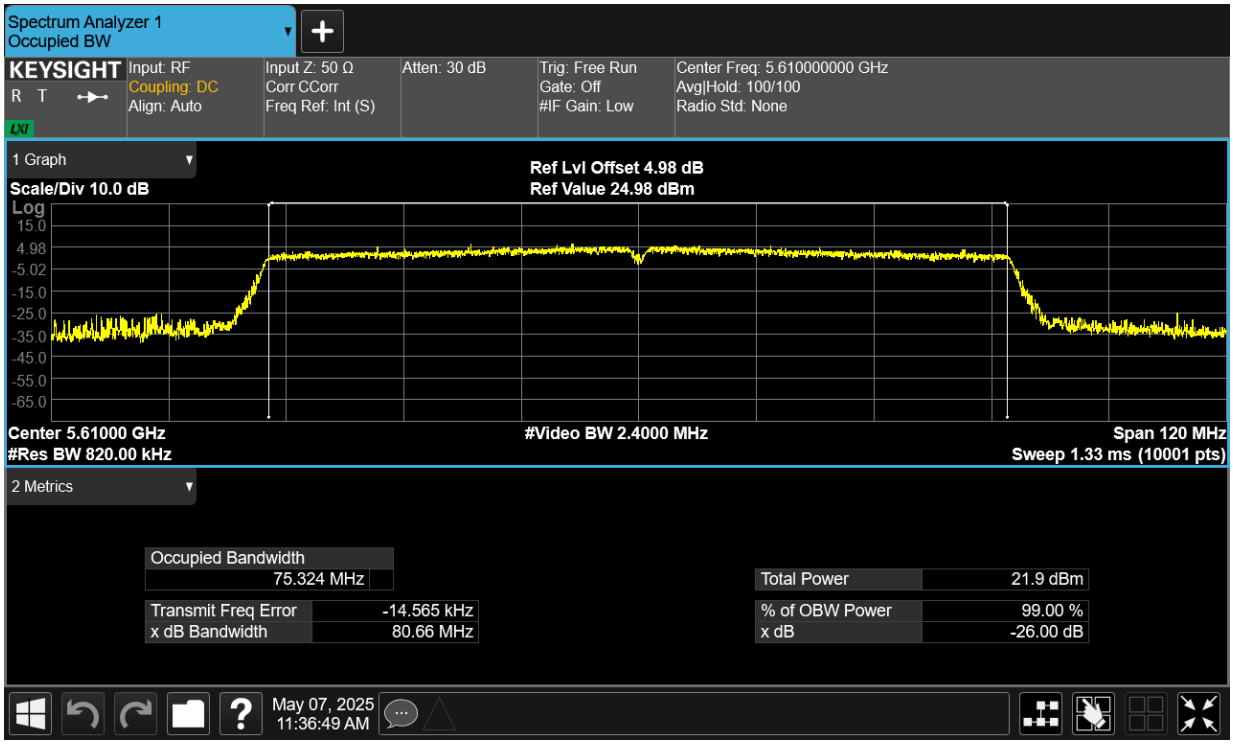
OBW NVNT ac40 5670MHz Ant1



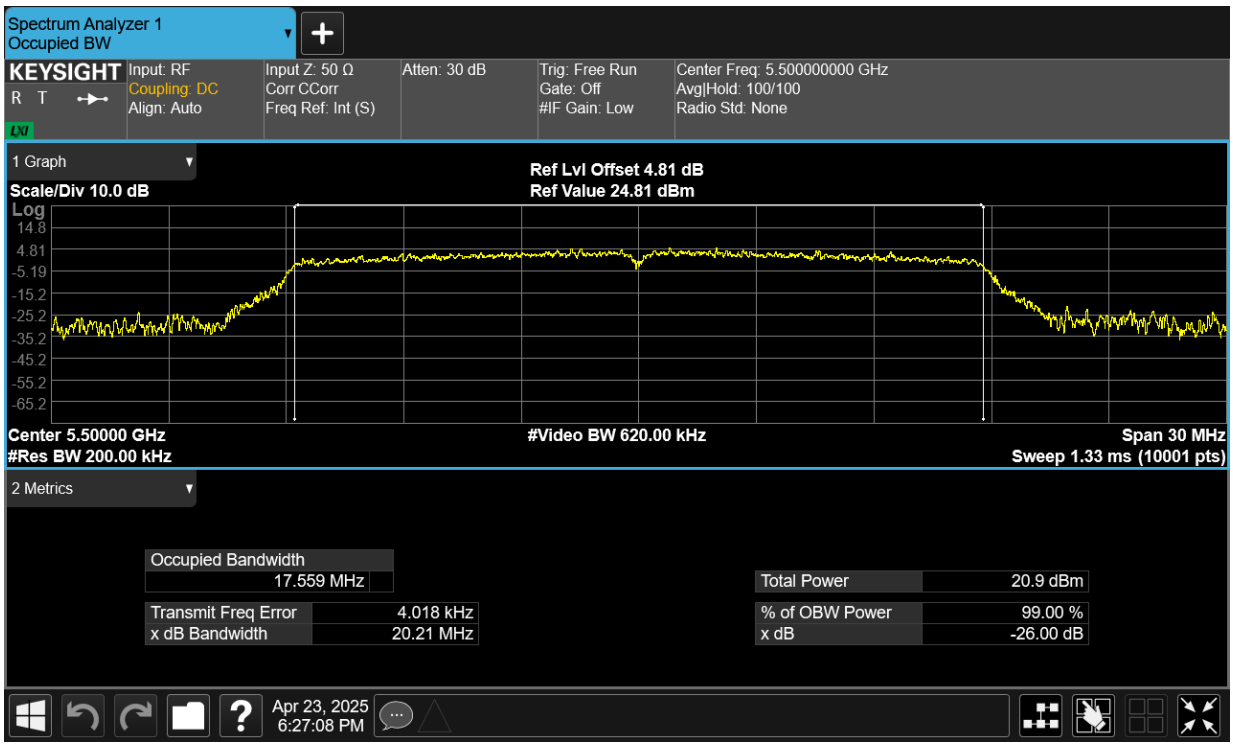
OBW NVNT ac80 5530MHz Ant1



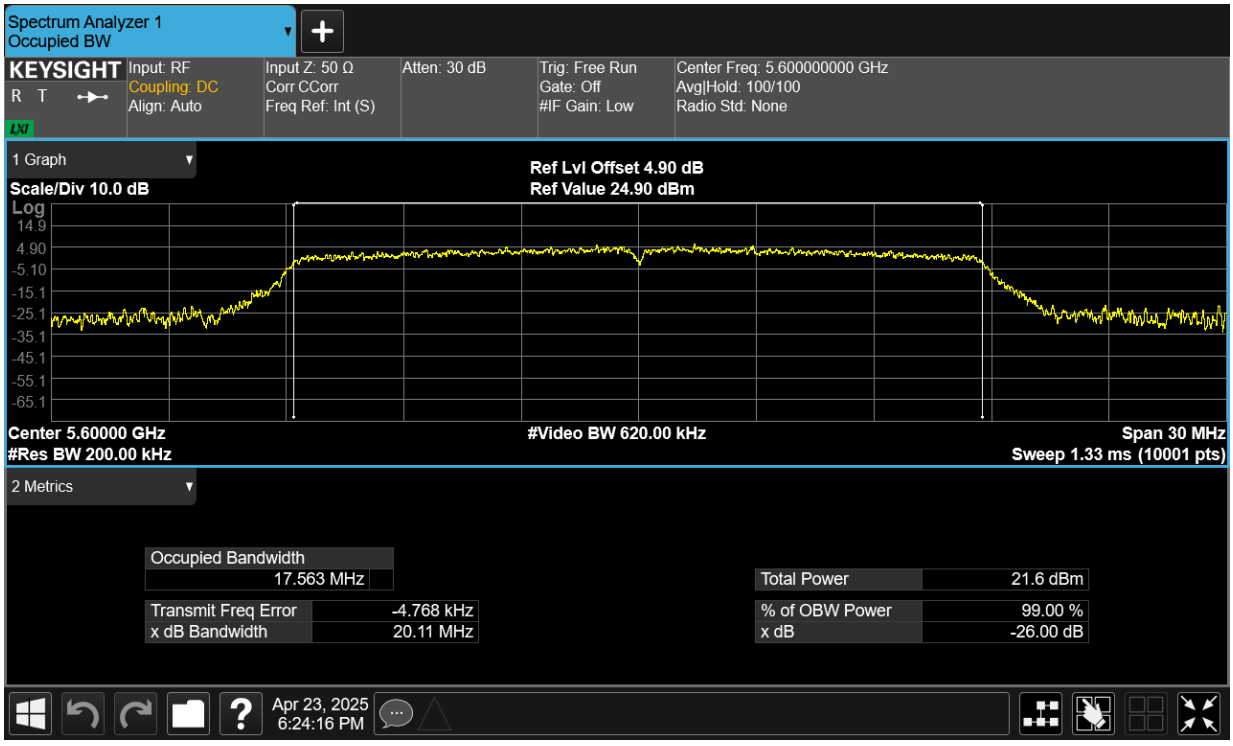
OBW NVNT ac80 5610MHz Ant1



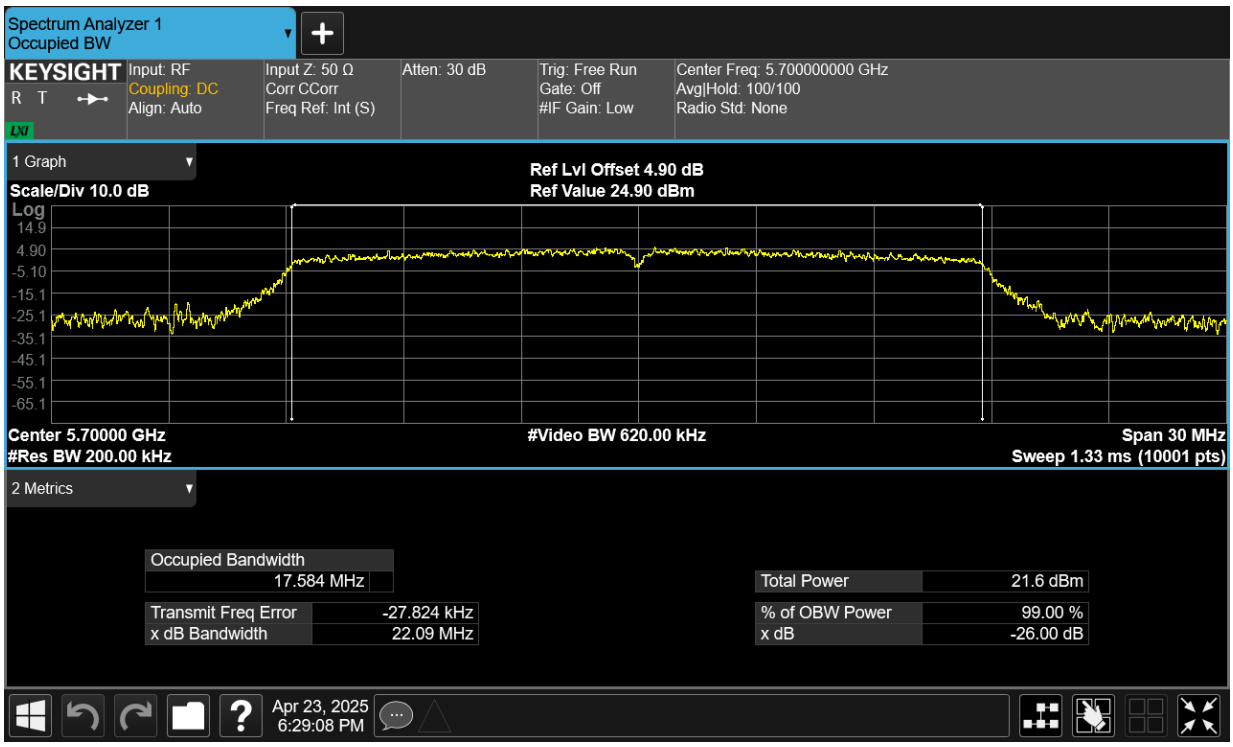
OBW NVNT n20 5500MHz Ant1



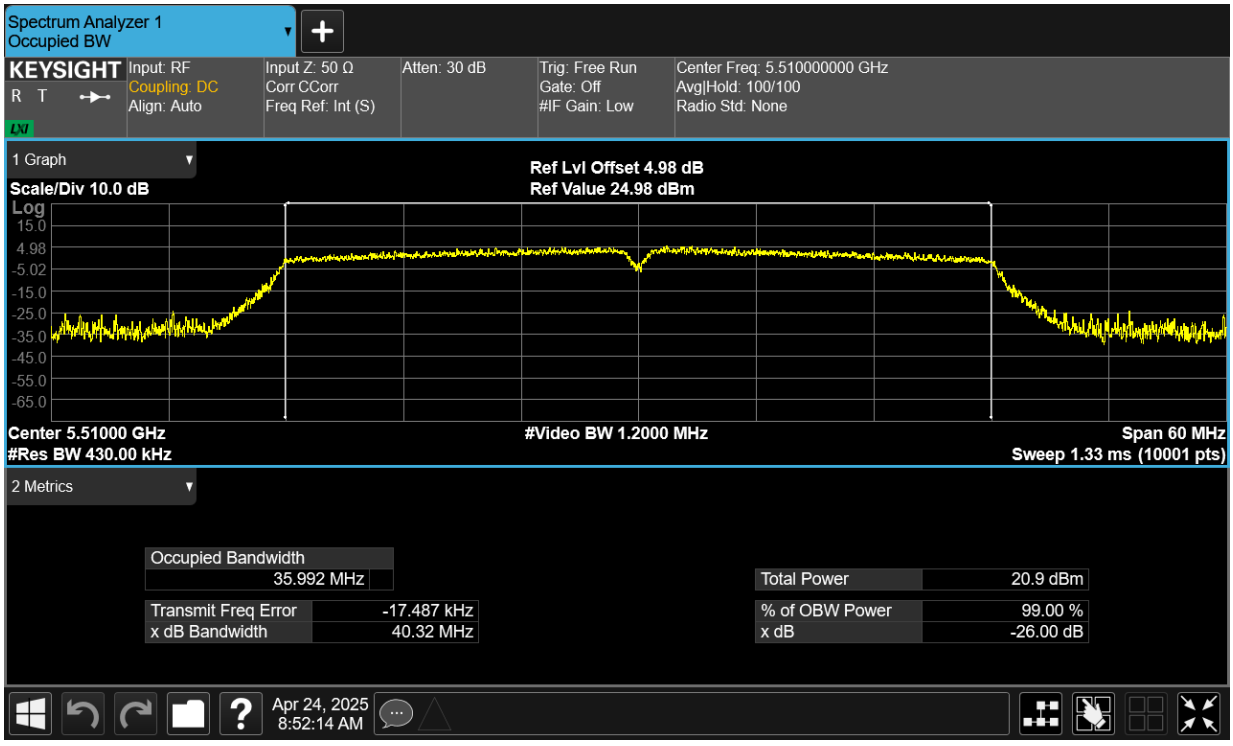
OBW NVNT n20 5600MHz Ant1



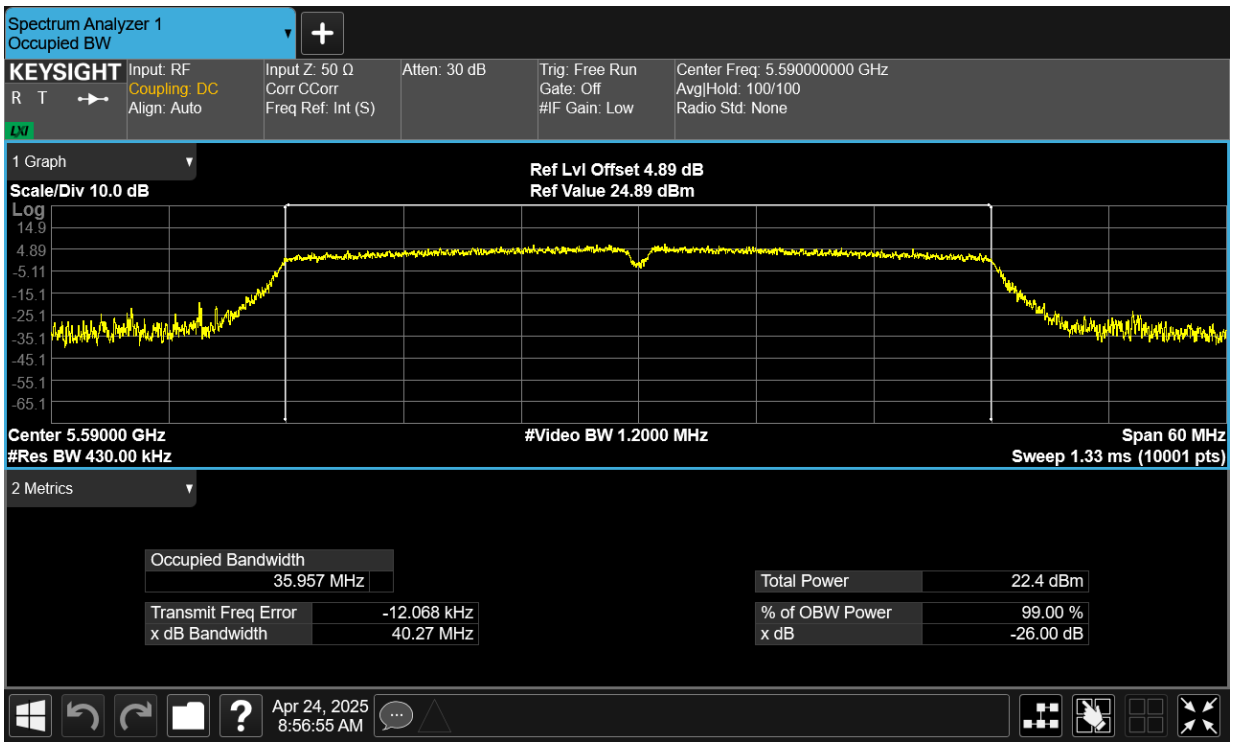
OBW NVNT n20 5700MHz Ant1



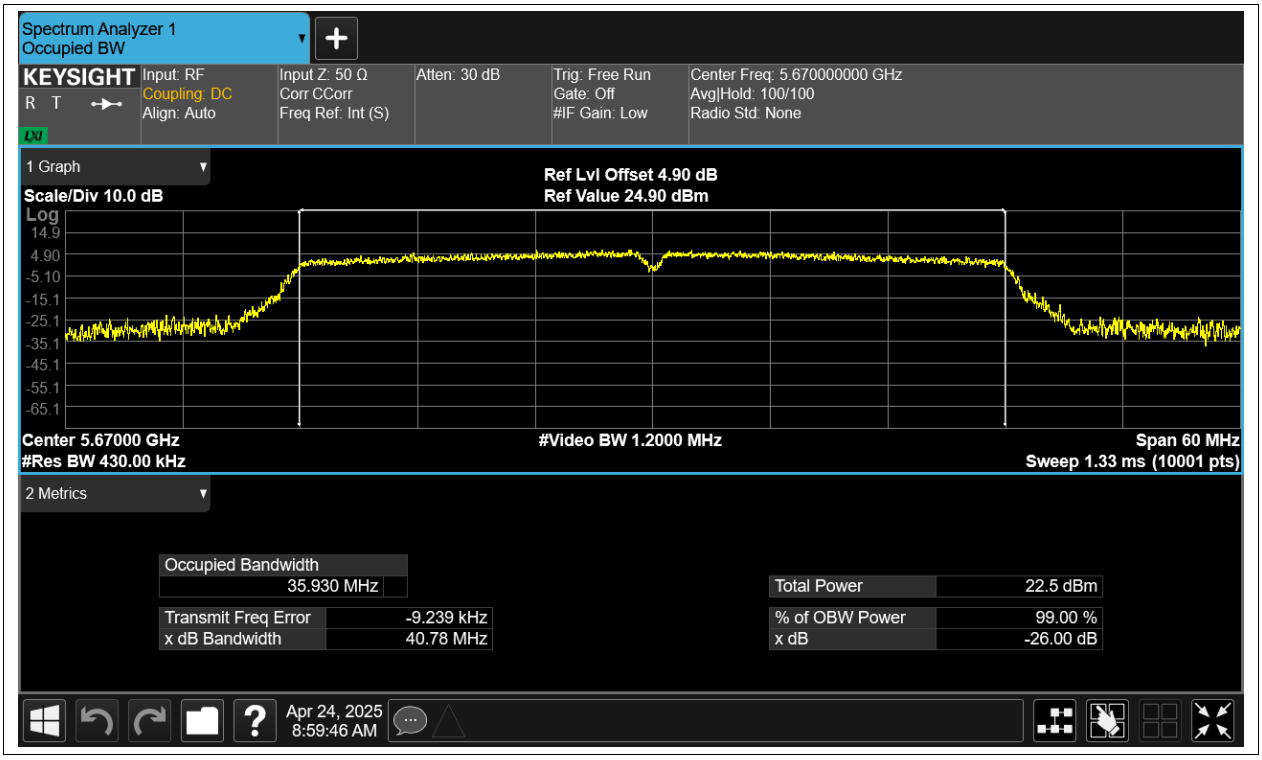
OBW NVNT n40 5510MHz Ant1



OBW NVNT n40 5590MHz Ant1



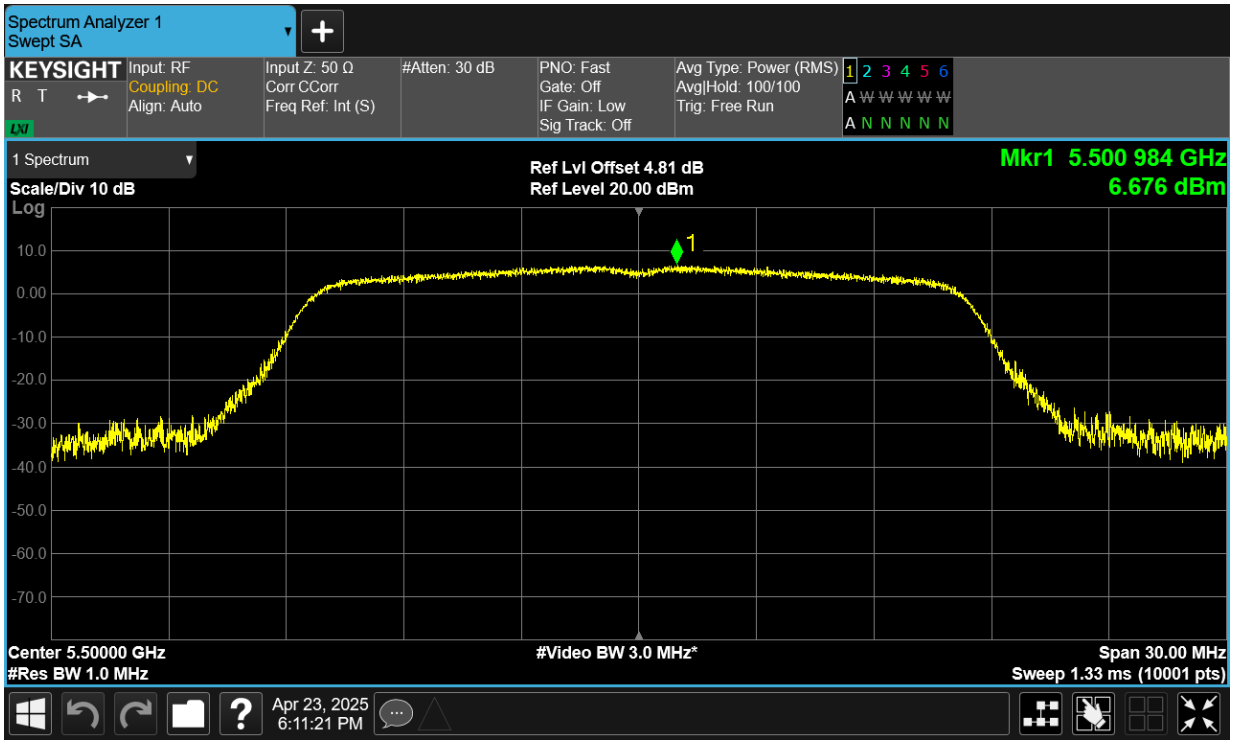
OBW NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 5.670000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 4.90 dB
Ref Value 24.90 dBm
Scale/Div 10.0 dB
Log
14.9
4.90
-5.10
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.67000 GHz
#Res BW 430.00 kHz
#Video BW 1.2000 MHz
Span 60 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
35.930 MHz
Transmit Freq Error -9.239 kHz
x dB Bandwidth 40.78 MHz
Total Power 22.5 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Apr 24, 2025
8:59:46 AM

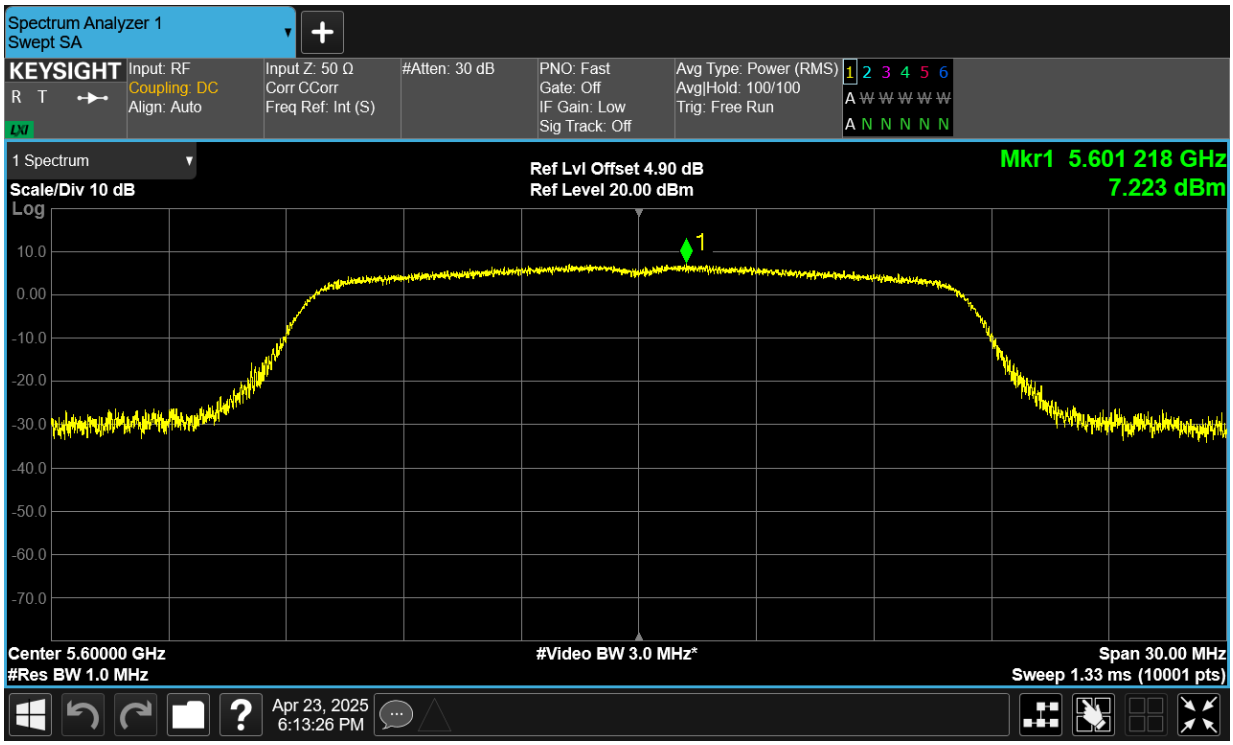
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	6.676	11	Pass
NVNT	a	5600	Ant1	7.223	11	Pass
NVNT	a	5700	Ant1	7.047	11	Pass
NVNT	ac20	5500	Ant1	5.389	11	Pass
NVNT	ac20	5600	Ant1	5.52	11	Pass
NVNT	ac20	5700	Ant1	6.391	11	Pass
NVNT	ac40	5510	Ant1	3.774	11	Pass
NVNT	ac40	5590	Ant1	4.031	11	Pass
NVNT	ac40	5670	Ant1	4.294	11	Pass
NVNT	ac80	5530	Ant1	0.085	11	Pass
NVNT	ac80	5610	Ant1	-0.599	11	Pass
NVNT	n20	5500	Ant1	5.656	11	Pass
NVNT	n20	5600	Ant1	6.077	11	Pass
NVNT	n20	5700	Ant1	6.54	11	Pass
NVNT	n40	5510	Ant1	2.27	11	Pass
NVNT	n40	5590	Ant1	3.709	11	Pass
NVNT	n40	5670	Ant1	4.161	11	Pass

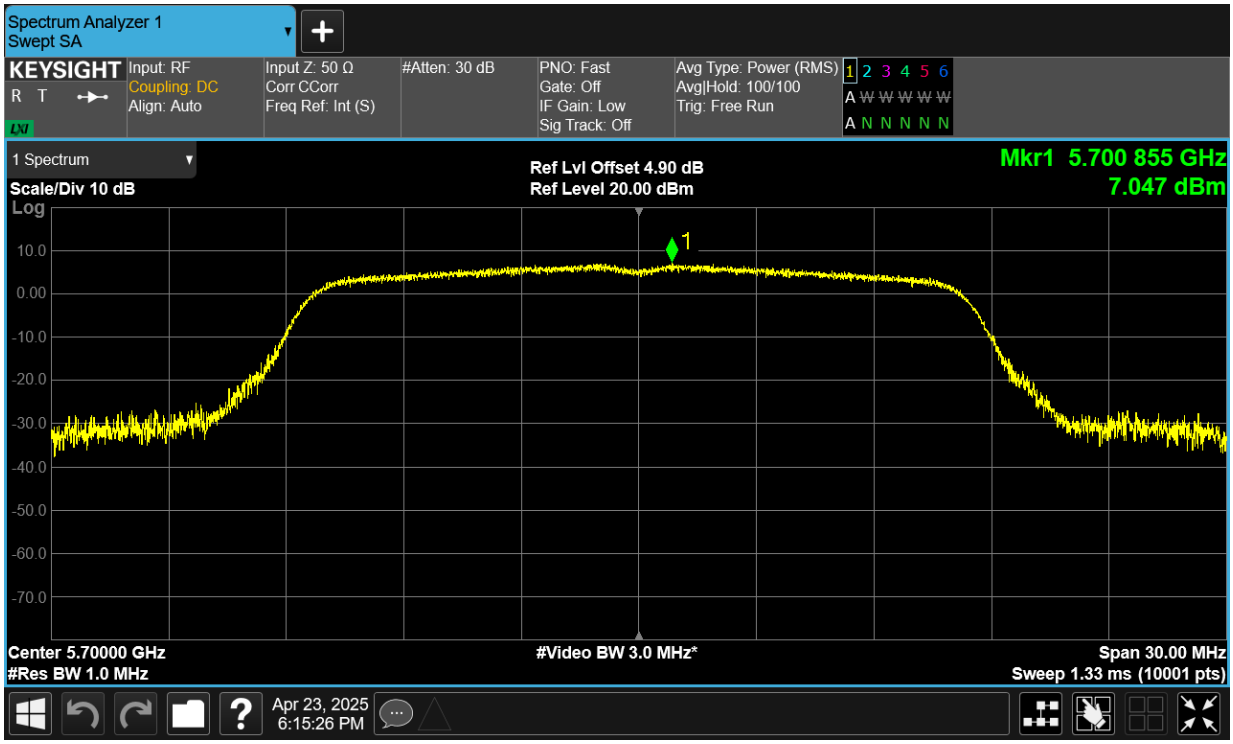
Test Graphs
PSD NVNT a 5500MHz Ant1



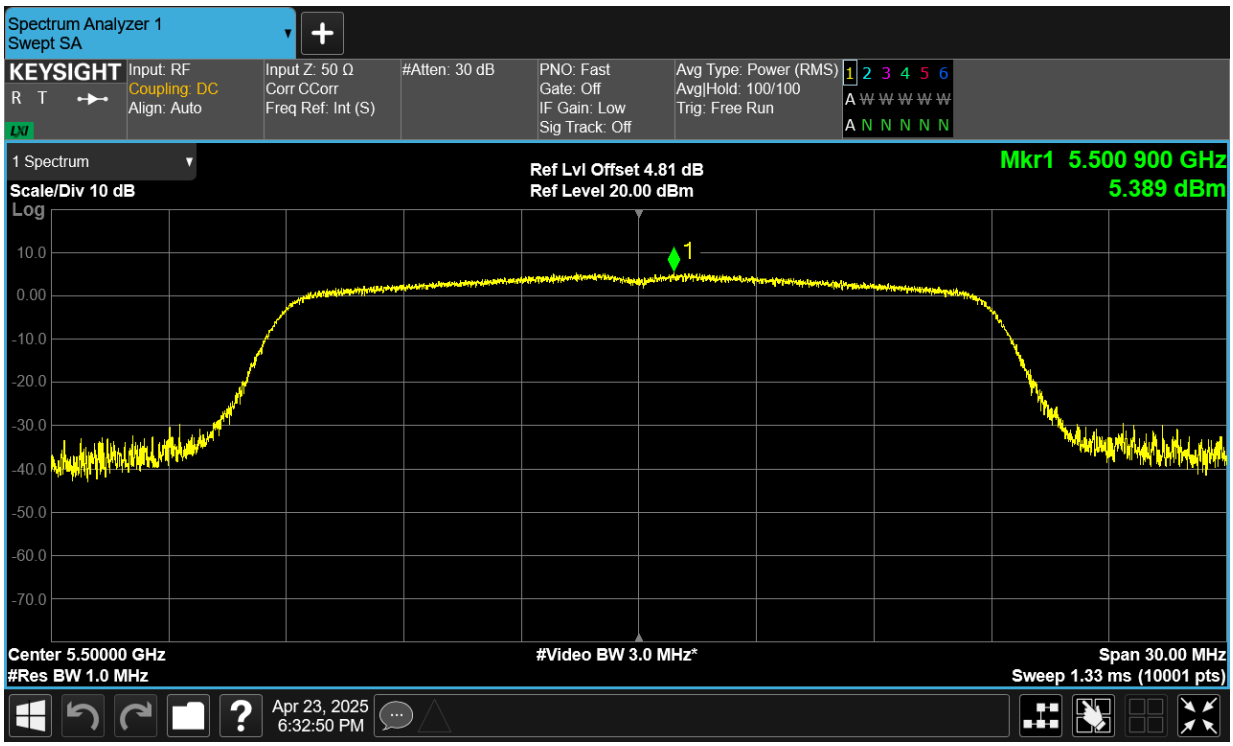
PSD NVNT a 5600MHz Ant1



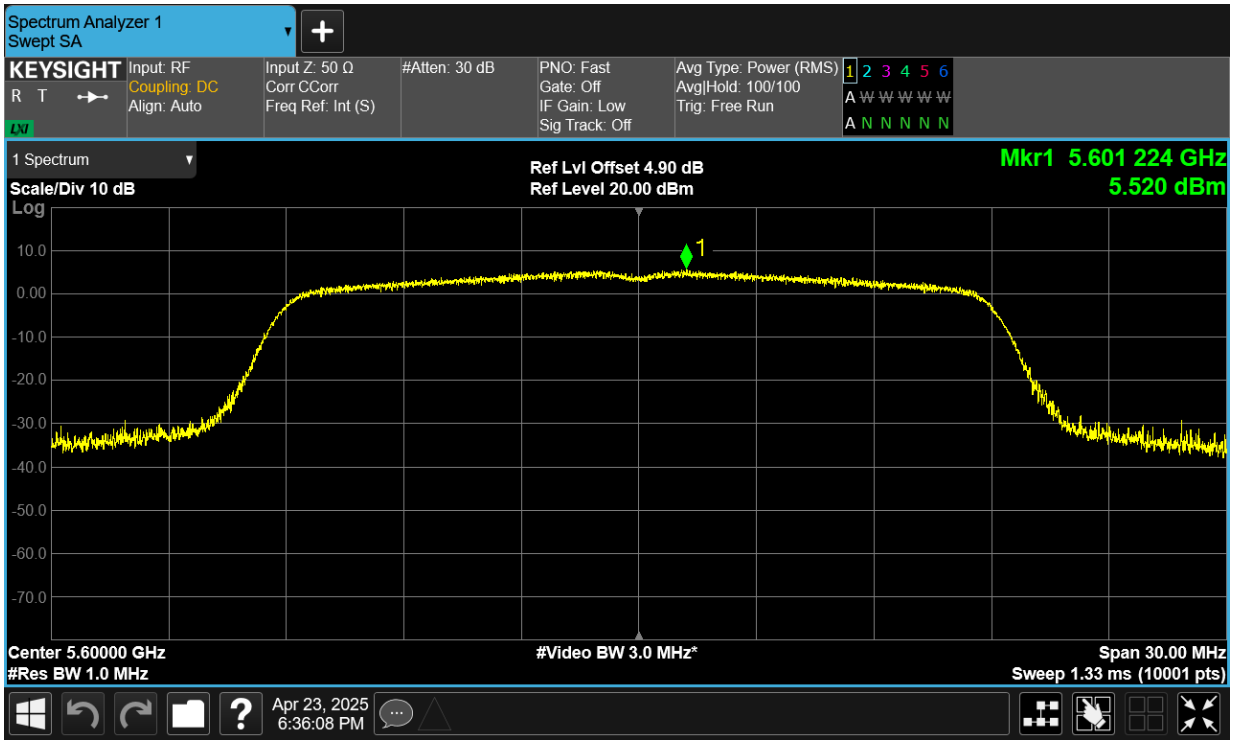
PSD NVNT a 5700MHz Ant1



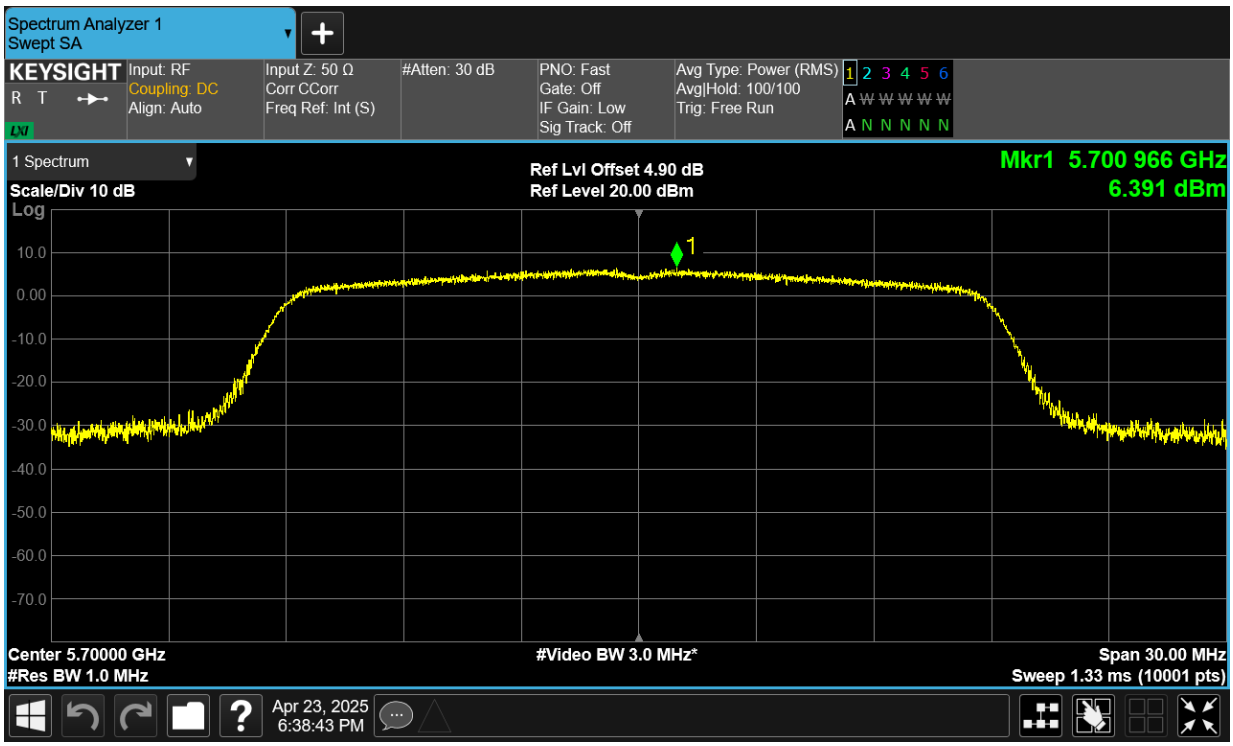
PSD NVNT ac20 5500MHz Ant1



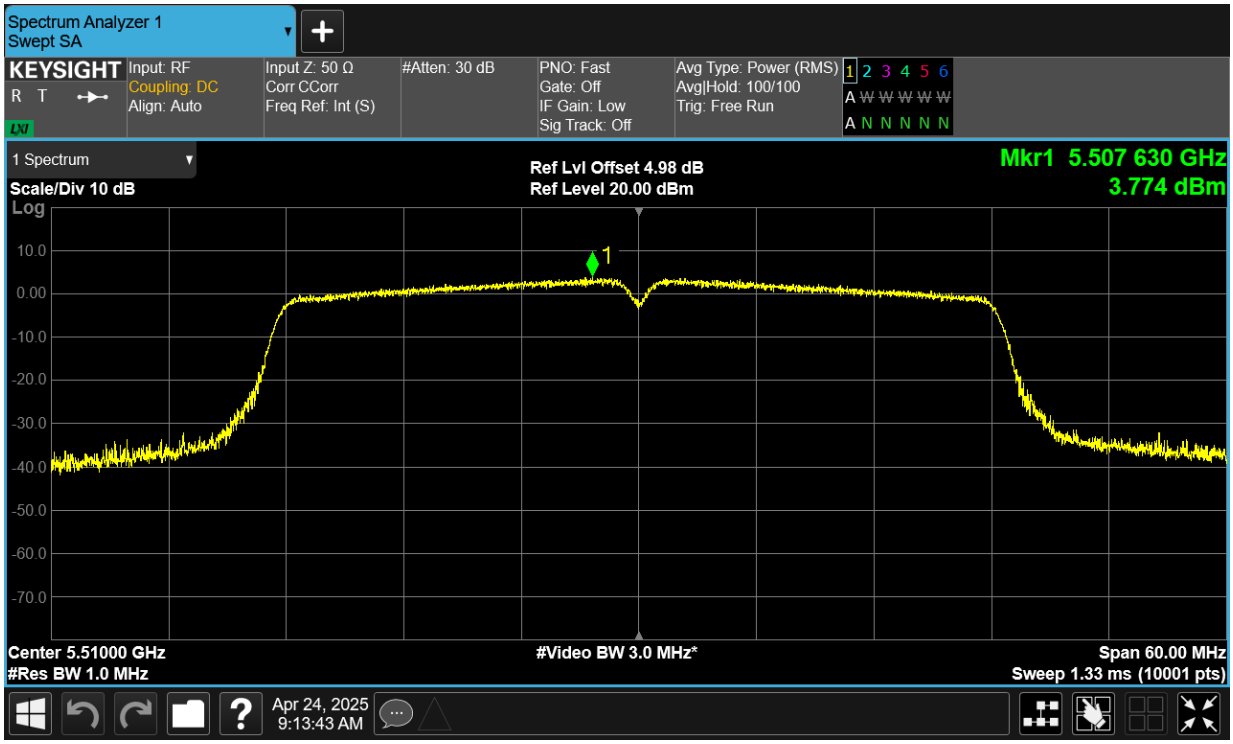
PSD NVNT ac20 5600MHz Ant1



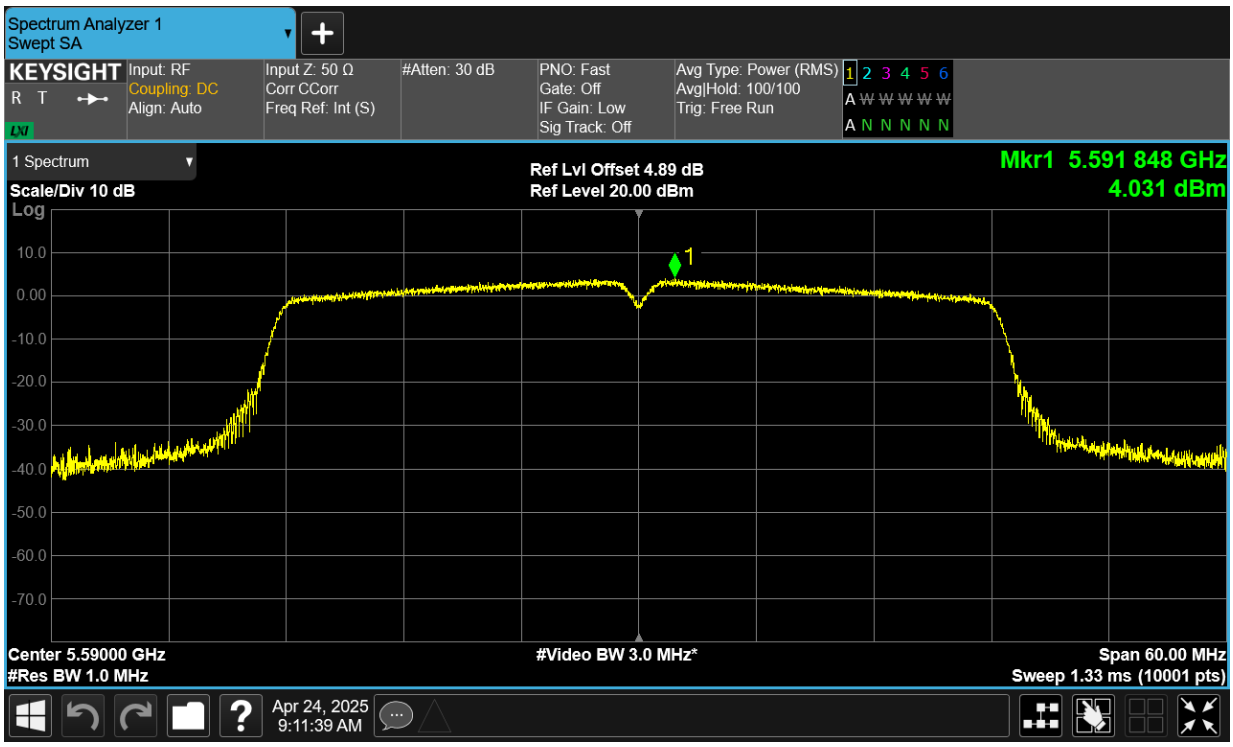
PSD NVNT ac20 5700MHz Ant1



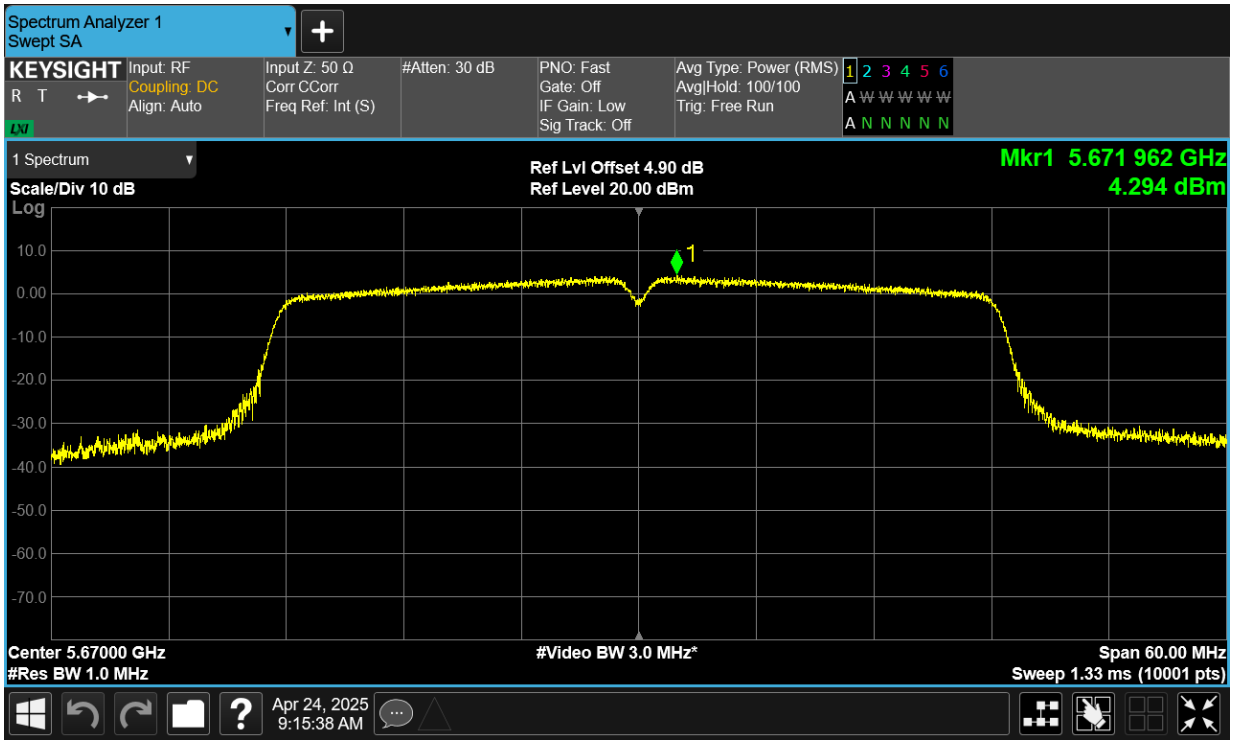
PSD NVNT ac40 5510MHz Ant1



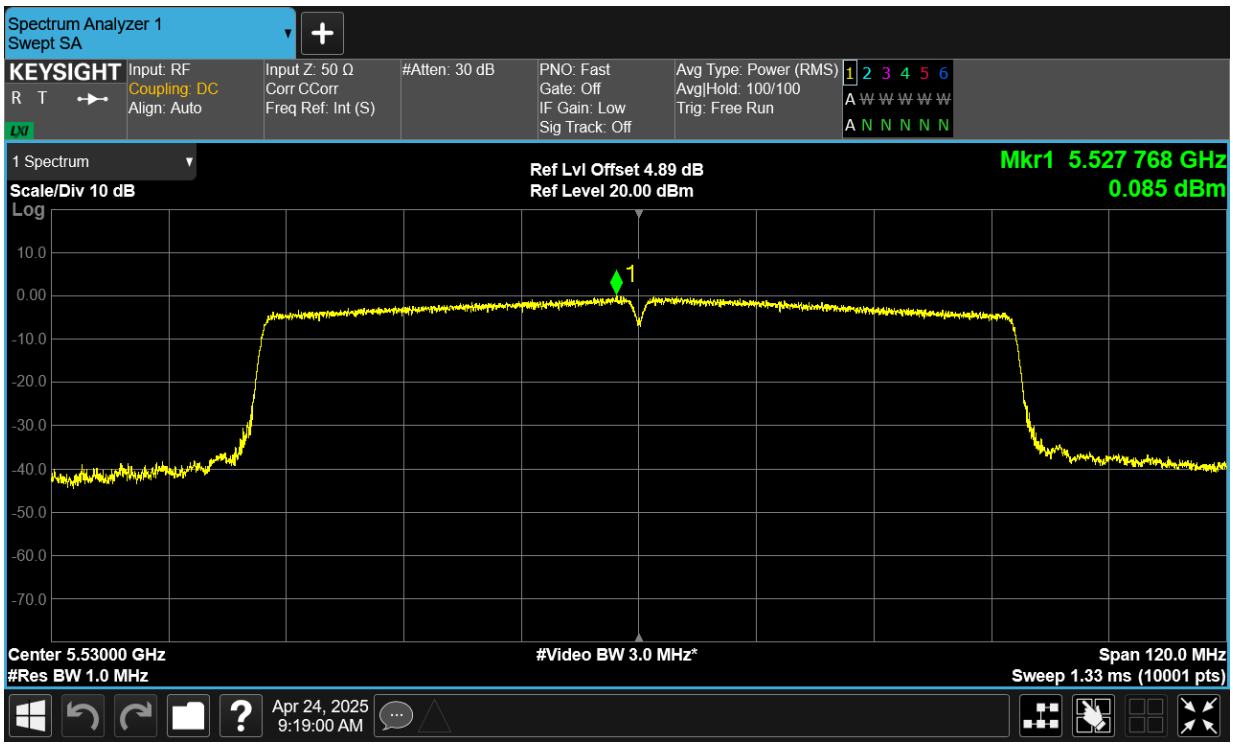
PSD NVNT ac40 5590MHz Ant1



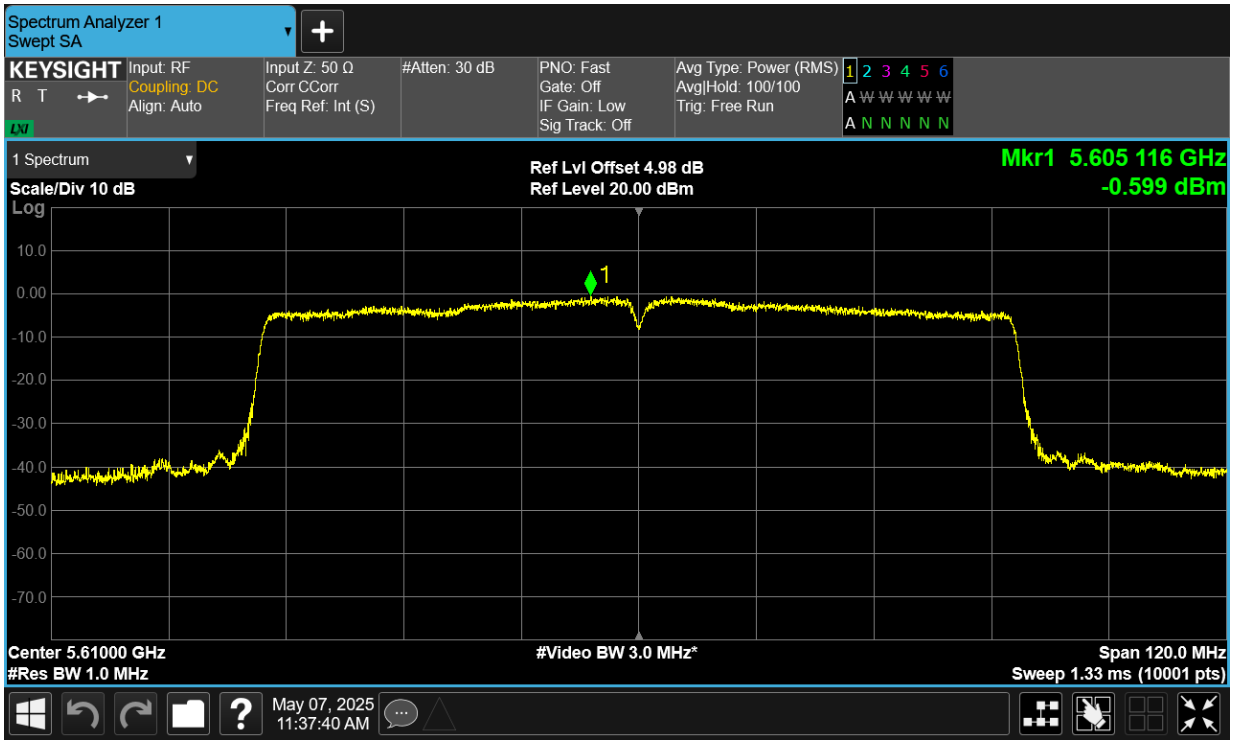
PSD NVNT ac40 5670MHz Ant1



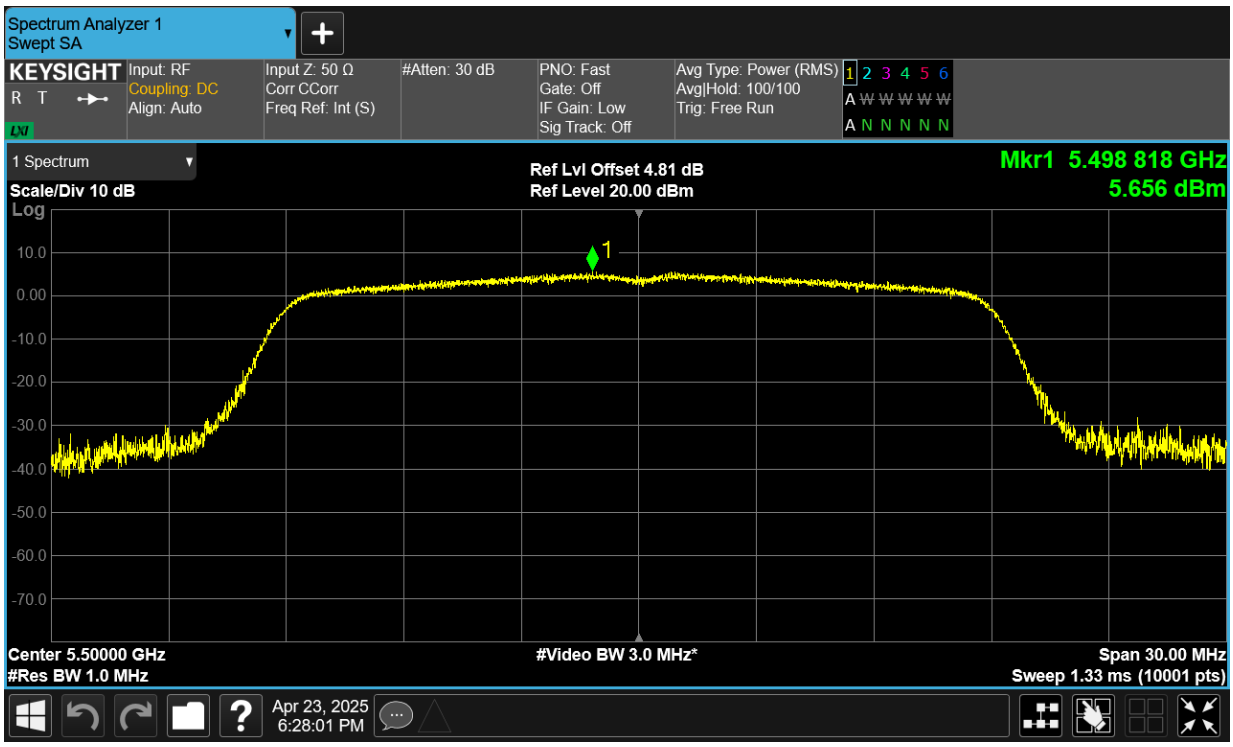
PSD NVNT ac80 5530MHz Ant1



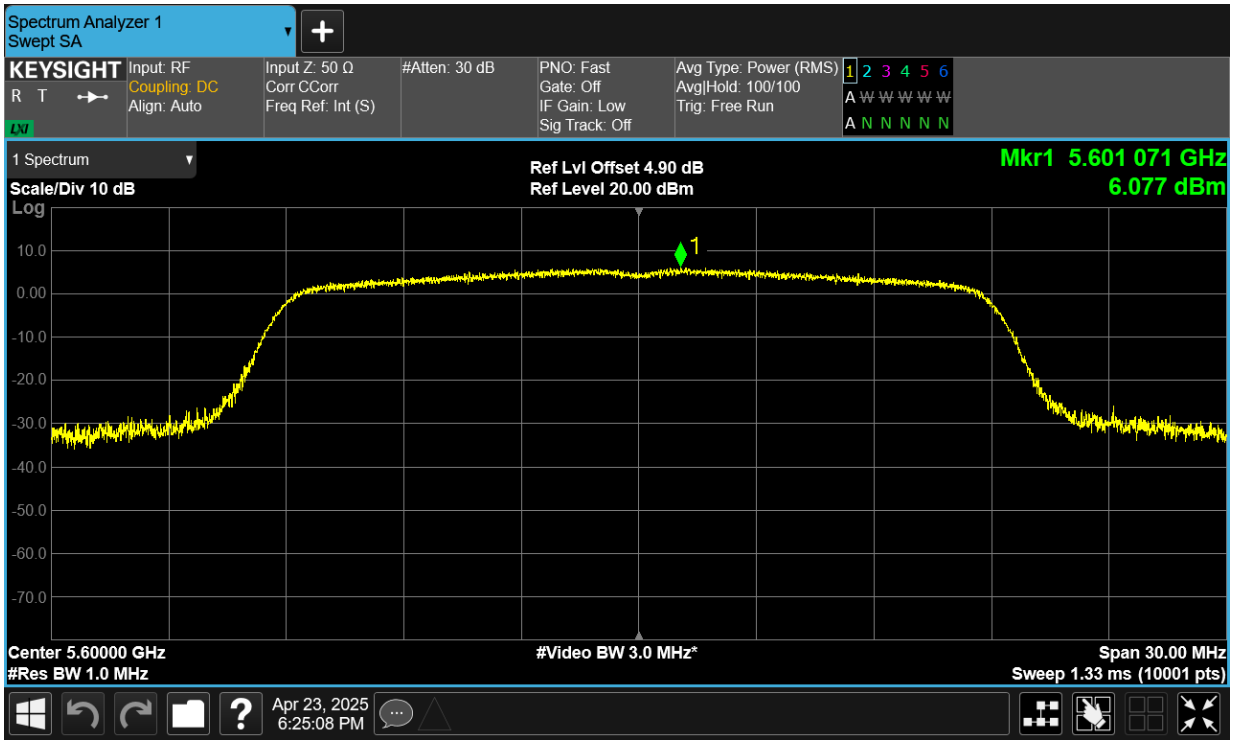
PSD NVNT ac80 5610MHz Ant1



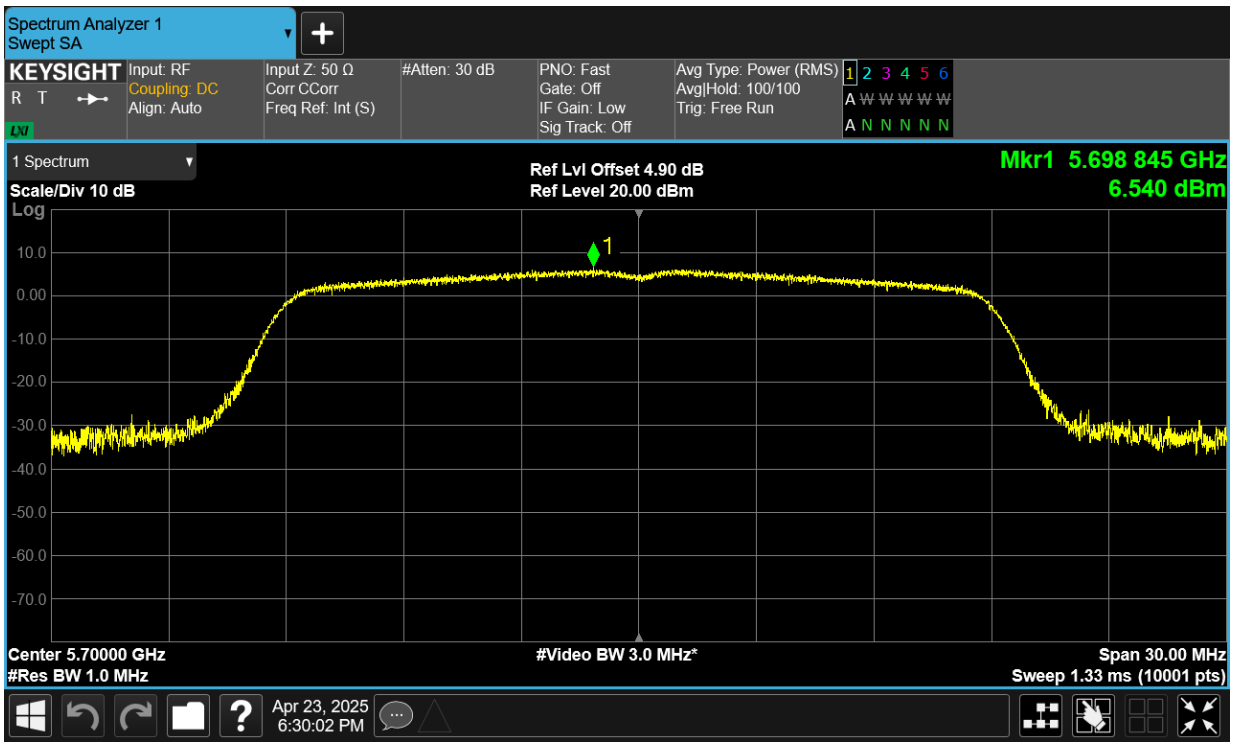
PSD NVNT n20 5500MHz Ant1



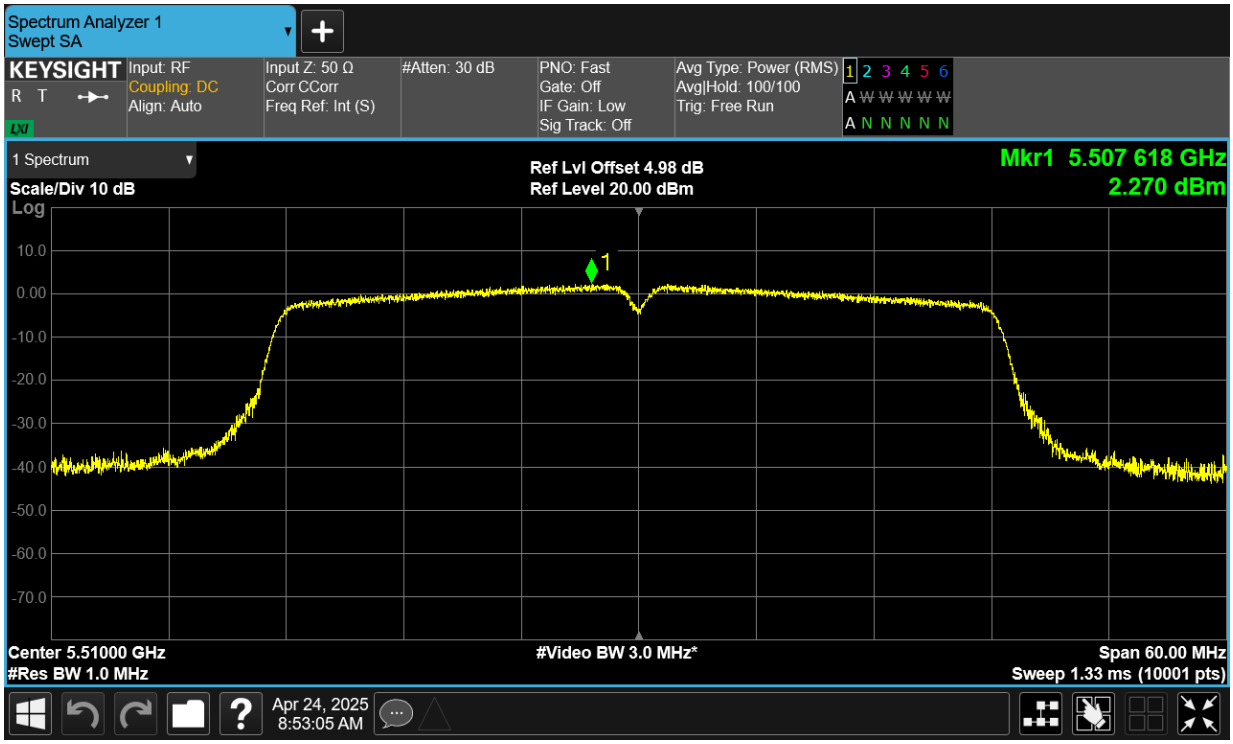
PSD NVNT n20 5600MHz Ant1



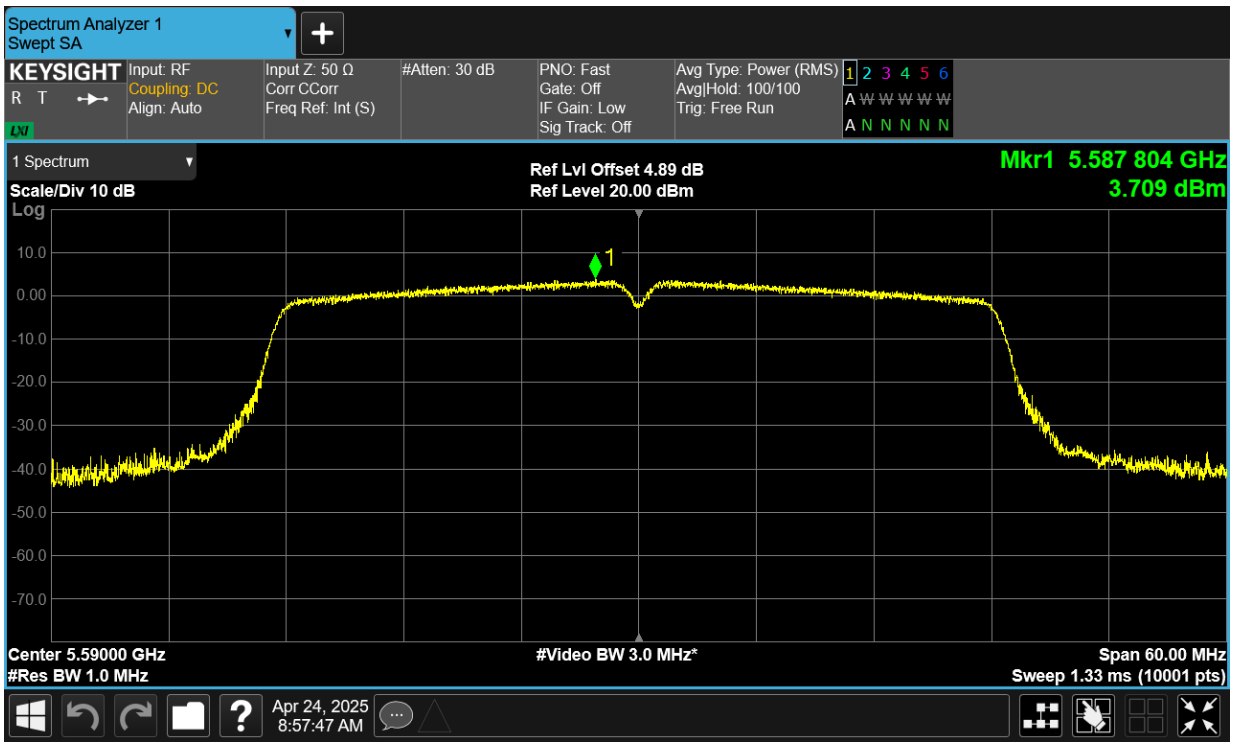
PSD NVNT n20 5700MHz Ant1



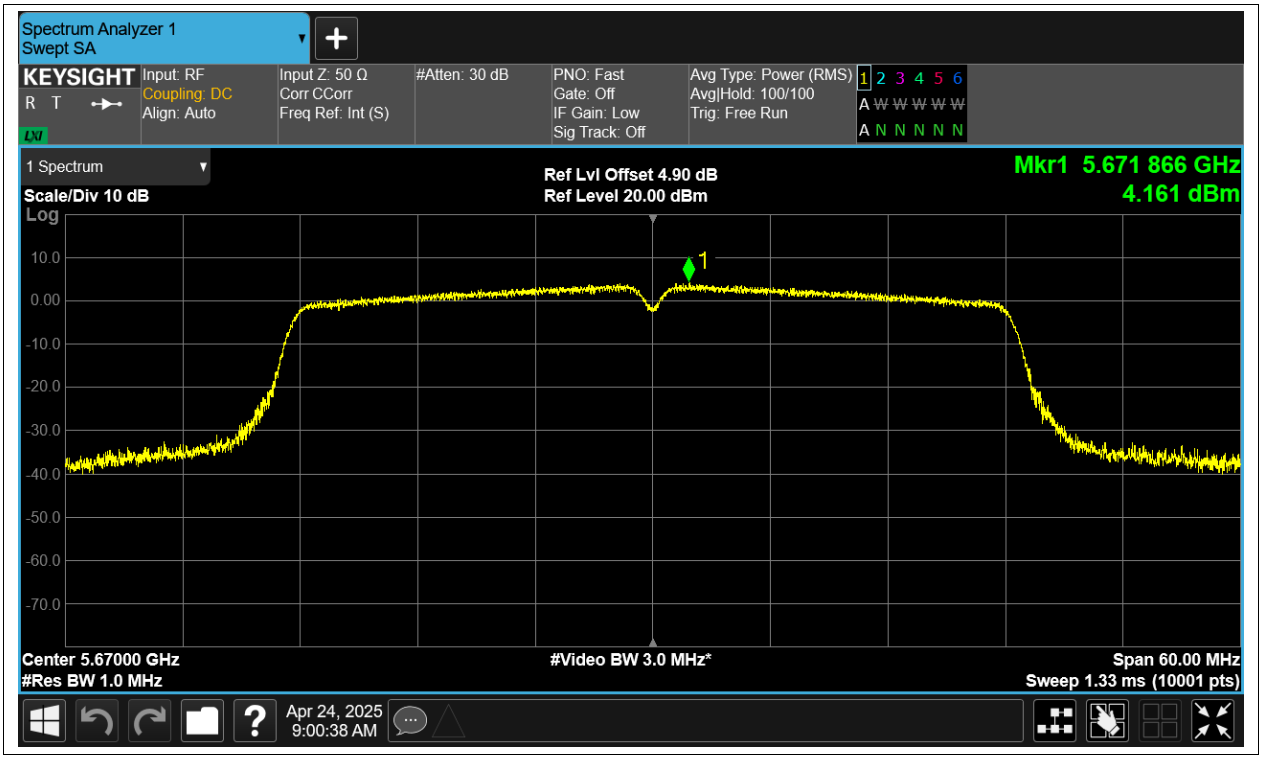
PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5590MHz Ant1



PSD NVNT n40 5670MHz Ant1


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.90 dB
Ref Level 20.00 dBm
Mkr1 5.671 866 GHz
4.161 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.67000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Span 60.00 MHz
Sweep 1.33 ms (10001 pts)
Apr 24, 2025
9:00:38 AM