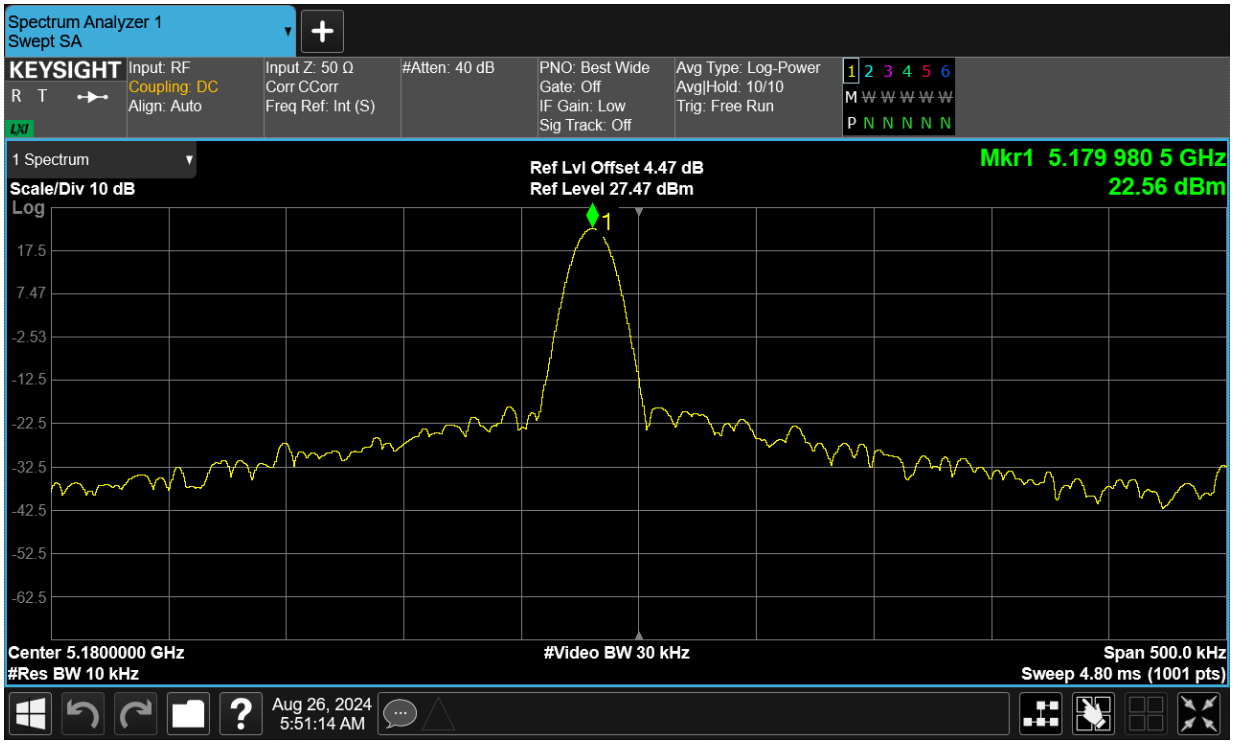
Test Data

Frequency Stability

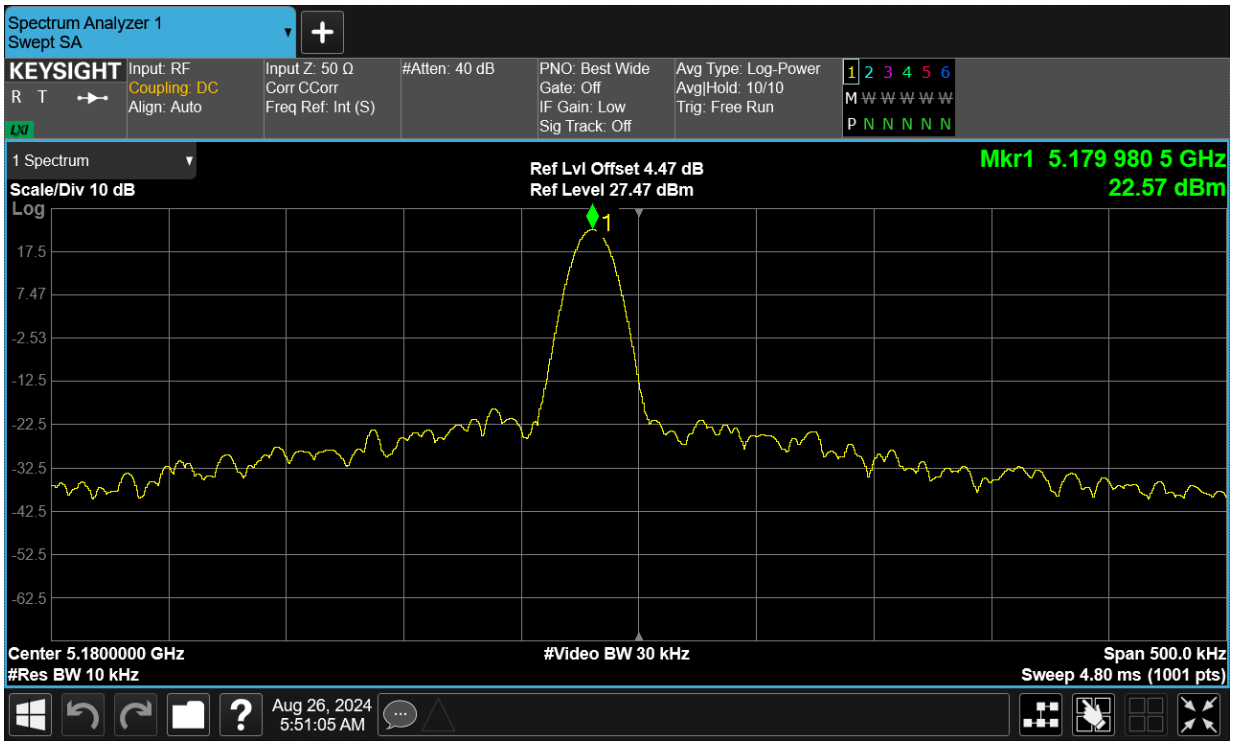
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
LVLT	a	5180	Ant1	5179.9805	-3.76	25	Pass
LVNT	a	5180	Ant1	5179.9805	-3.76	25	Pass
NVHT	a	5180	Ant1	5179.9805	-3.76	25	Pass
NVLT	a	5180	Ant1	5179.9805	-3.76	25	Pass
NVNT	a	5180	Ant1	5179.9815	-3.57	25	Pass
LVLT	ac80	5210	Ant1	5209.9805	-3.74	25	Pass
LVNT	ac80	5210	Ant1	5209.981	-3.65	25	Pass
NVHT	ac80	5210	Ant1	5209.981	-3.65	25	Pass
NVLT	ac80	5210	Ant1	5209.9815	-3.55	25	Pass
NVNT	ac80	5210	Ant1	5209.983798604	-3.11	25	Pass
LVLT	n40	5190	Ant1	5189.9805	-3.76	25	Pass
LVNT	n40	5190	Ant1	5189.9805	-3.76	25	Pass
NVHT	n40	5190	Ant1	5189.981	-3.66	25	Pass
NVLT	n40	5190	Ant1	5189.981	-3.66	25	Pass
NVNT	n40	5190	Ant1	5189.981	-3.66	25	Pass

Test Graphs

Freq. Stability LVLT a 5180MHz Ant1

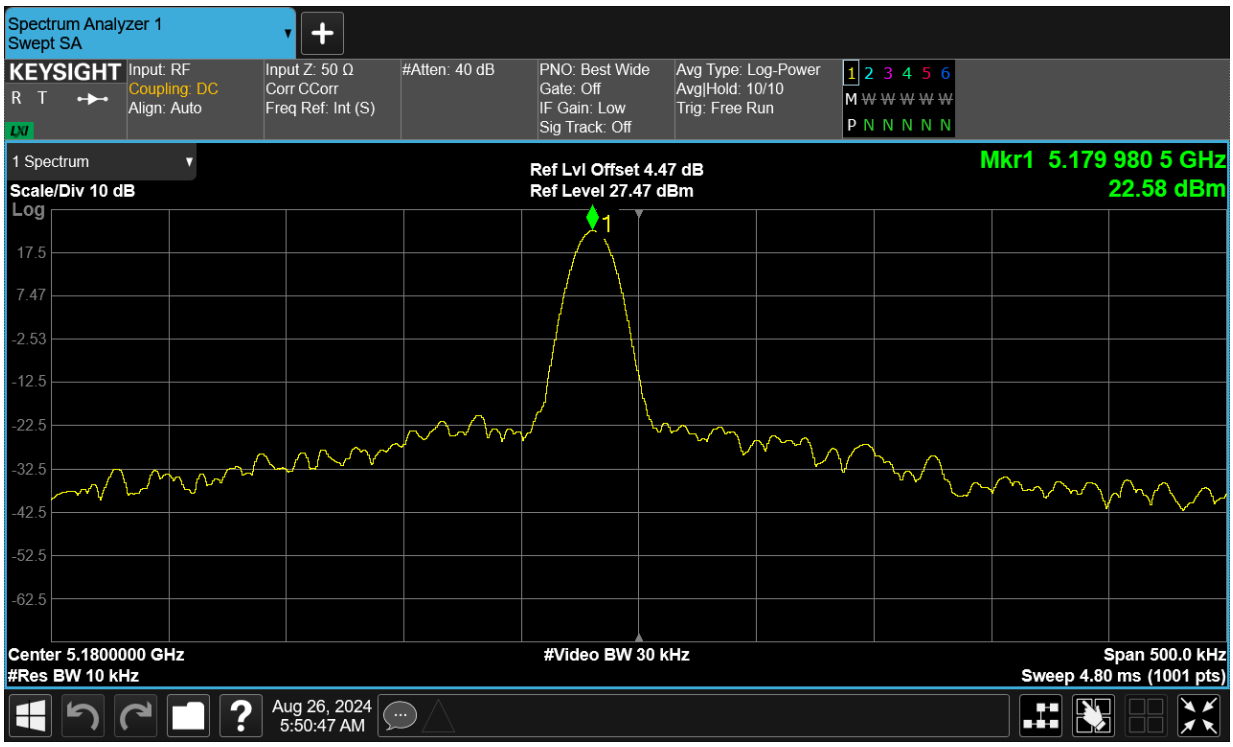


Freq. Stability LVNT a 5180MHz Ant1

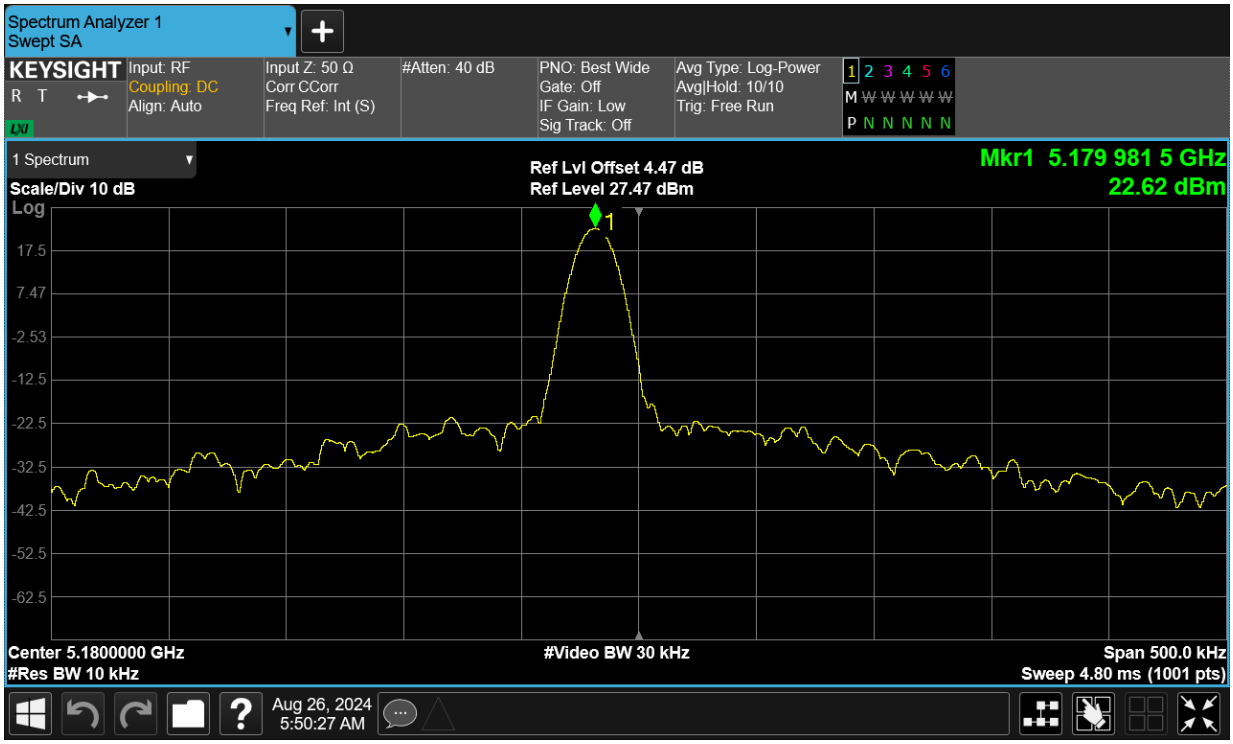


Freq. Stability NVHT a 5180MHz Ant1

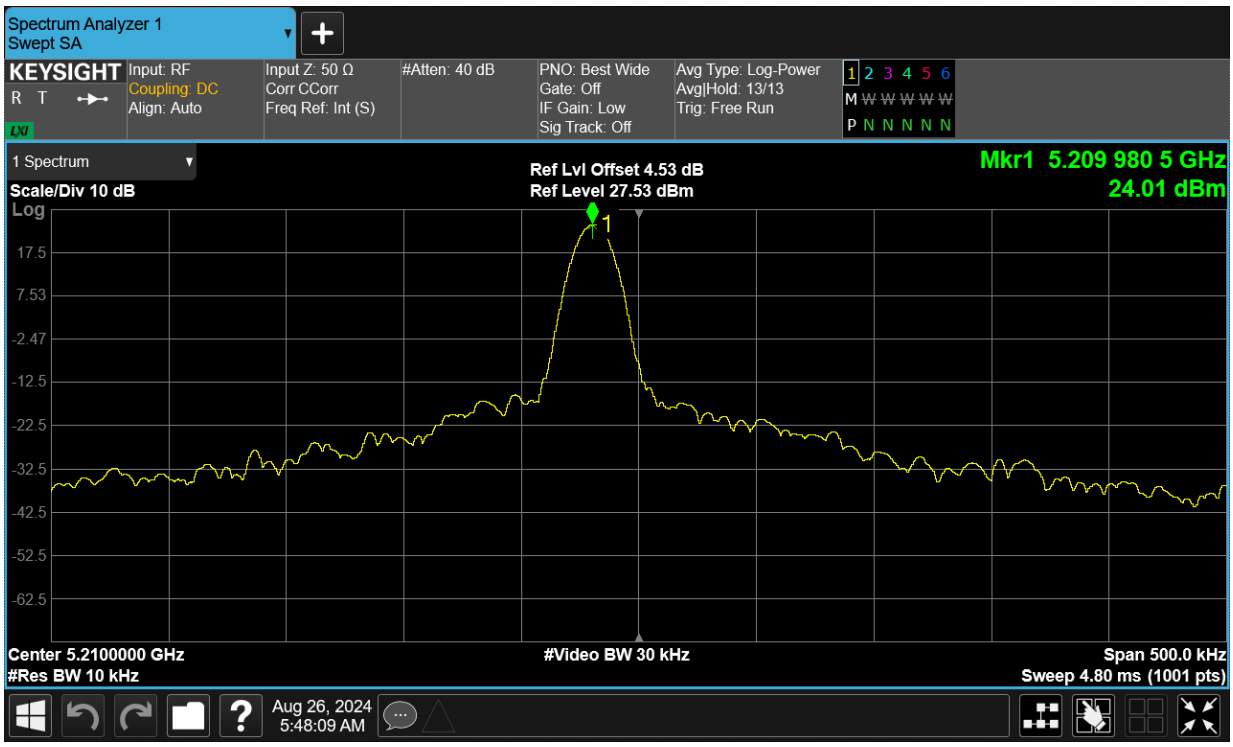
Freq. Stability NVLT a 5180MHz Ant1



Freq. Stability NVNT a 5180MHz Ant1

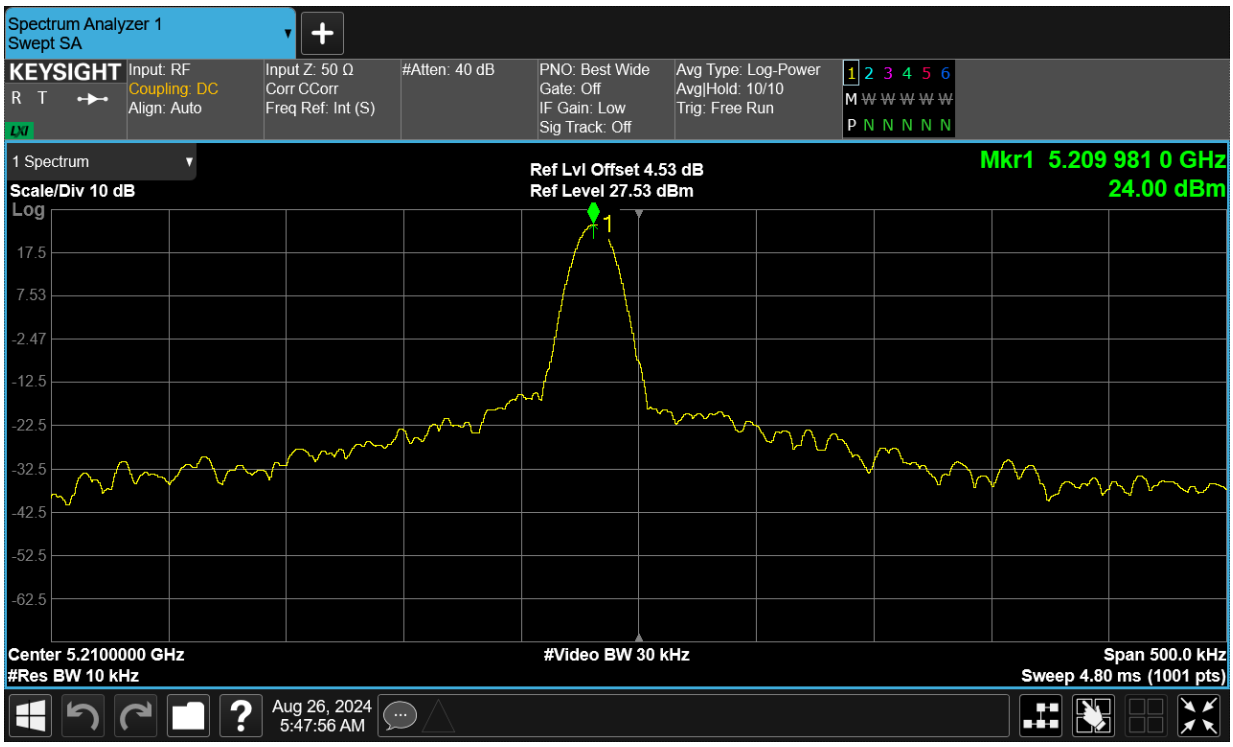


Freq. Stability LVLT ac80 5210MHz Ant1

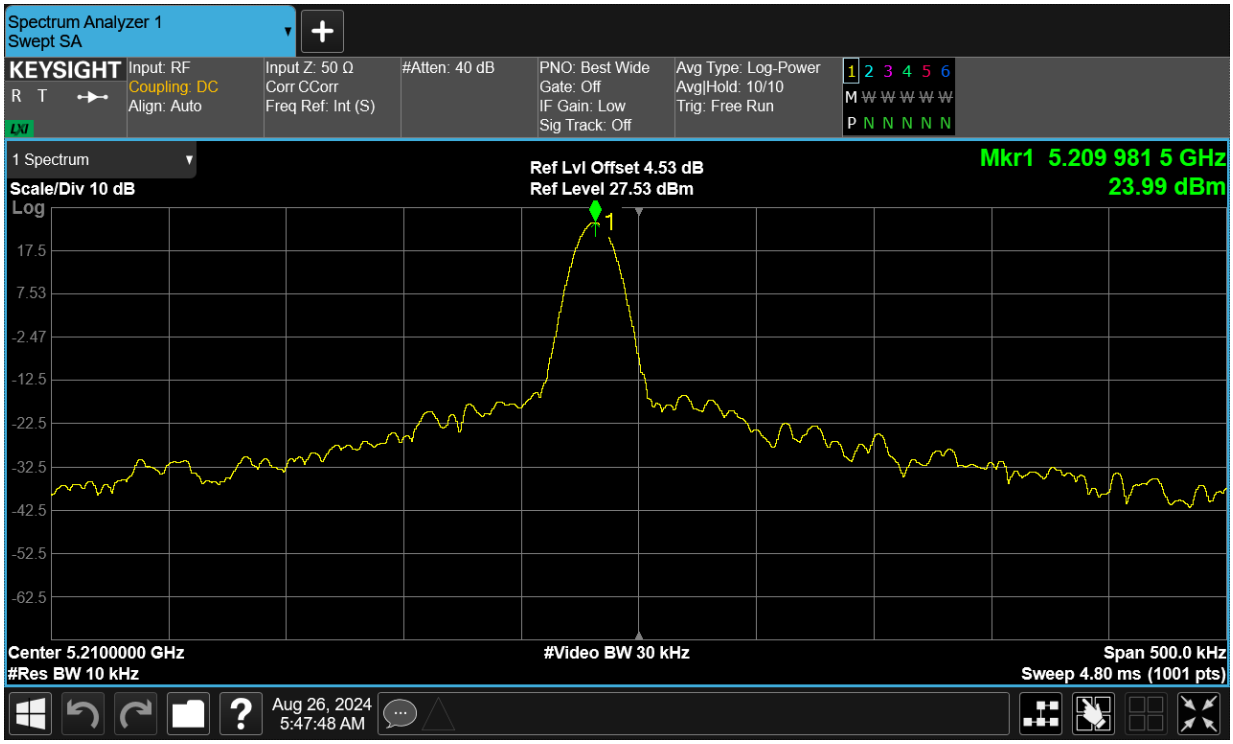


Freq. Stability LVNT ac80 5210MHz Ant1

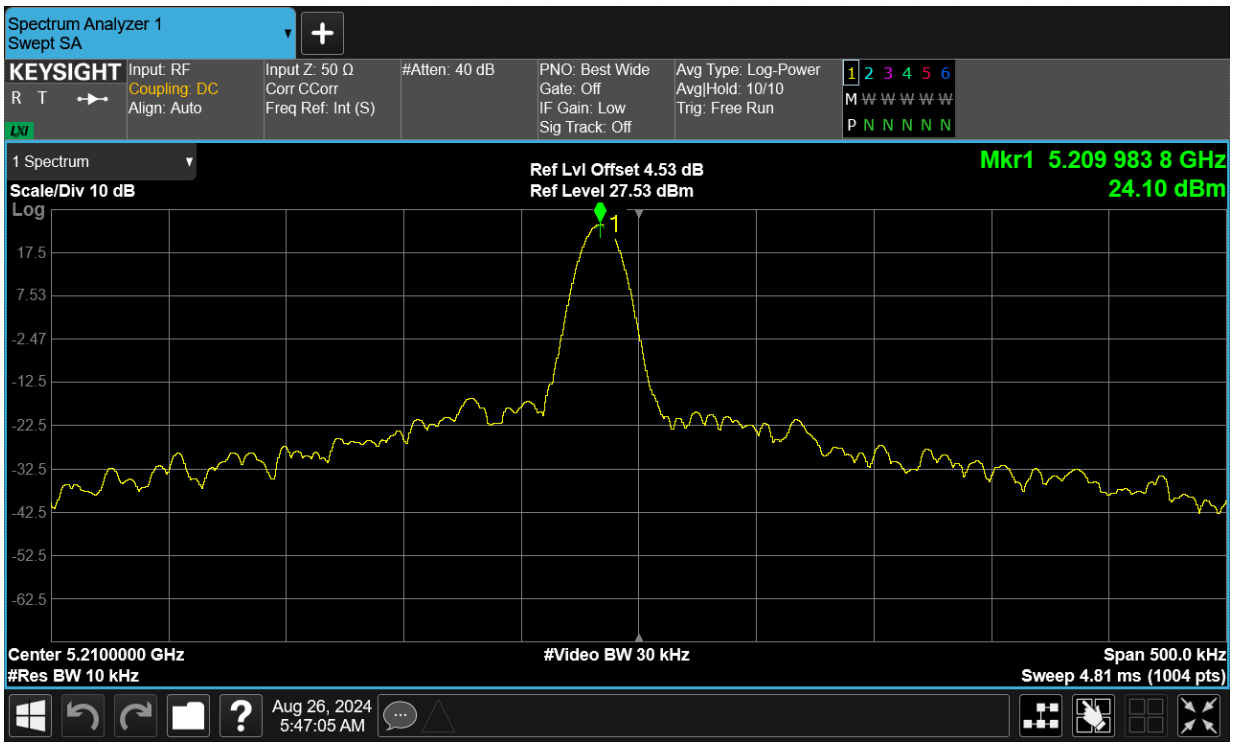
Freq. Stability NVHT ac80 5210MHz Ant1



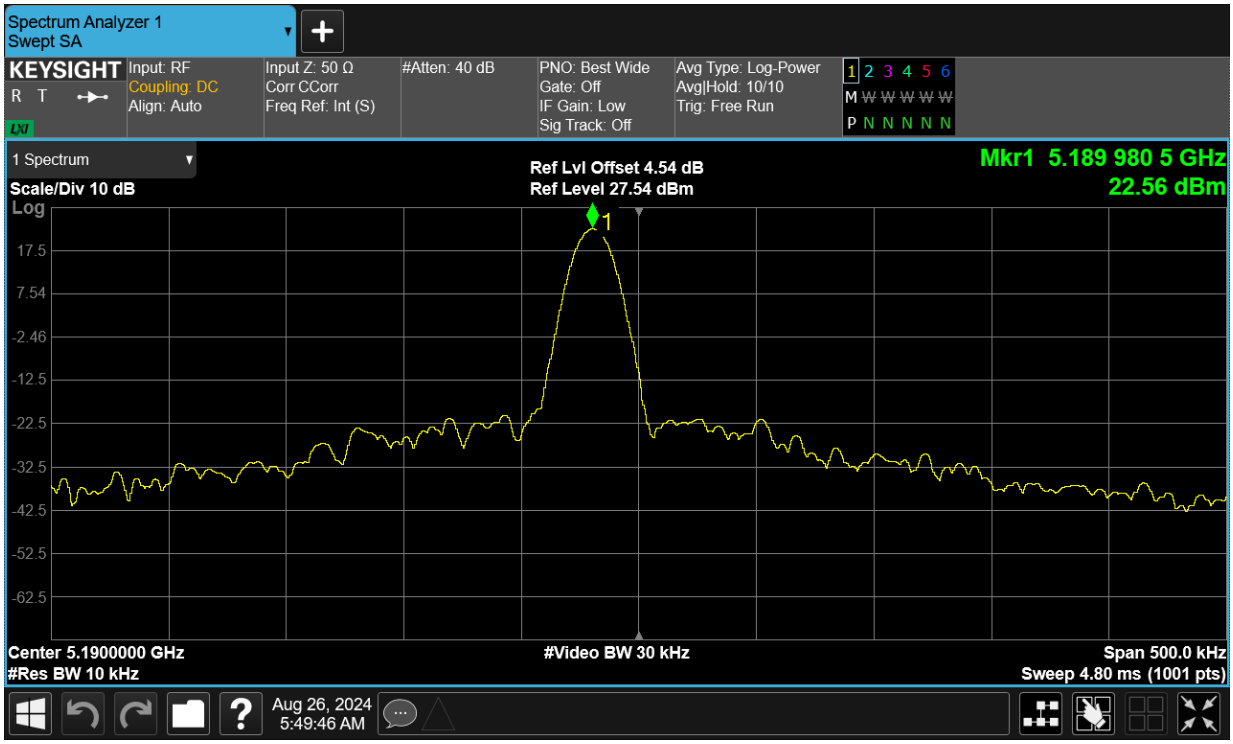
Freq. Stability NVLT ac80 5210MHz Ant1



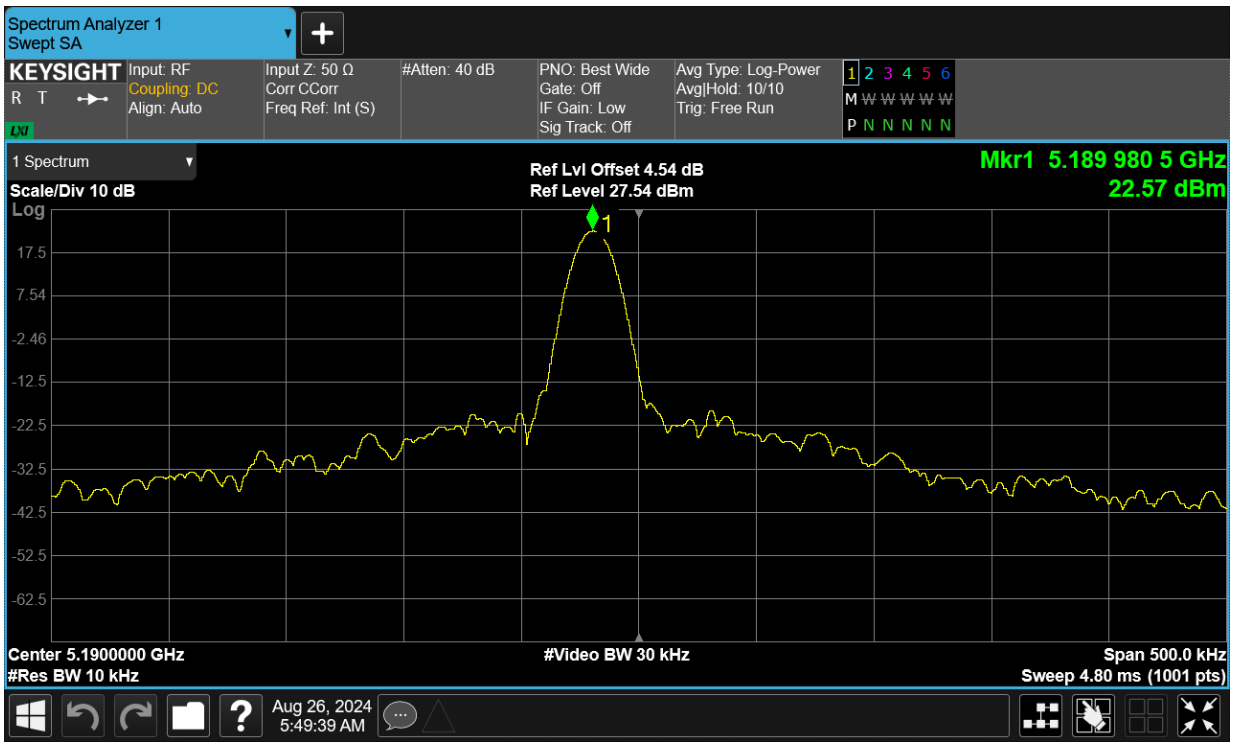
Freq. Stability NVNT ac80 5210MHz Ant1



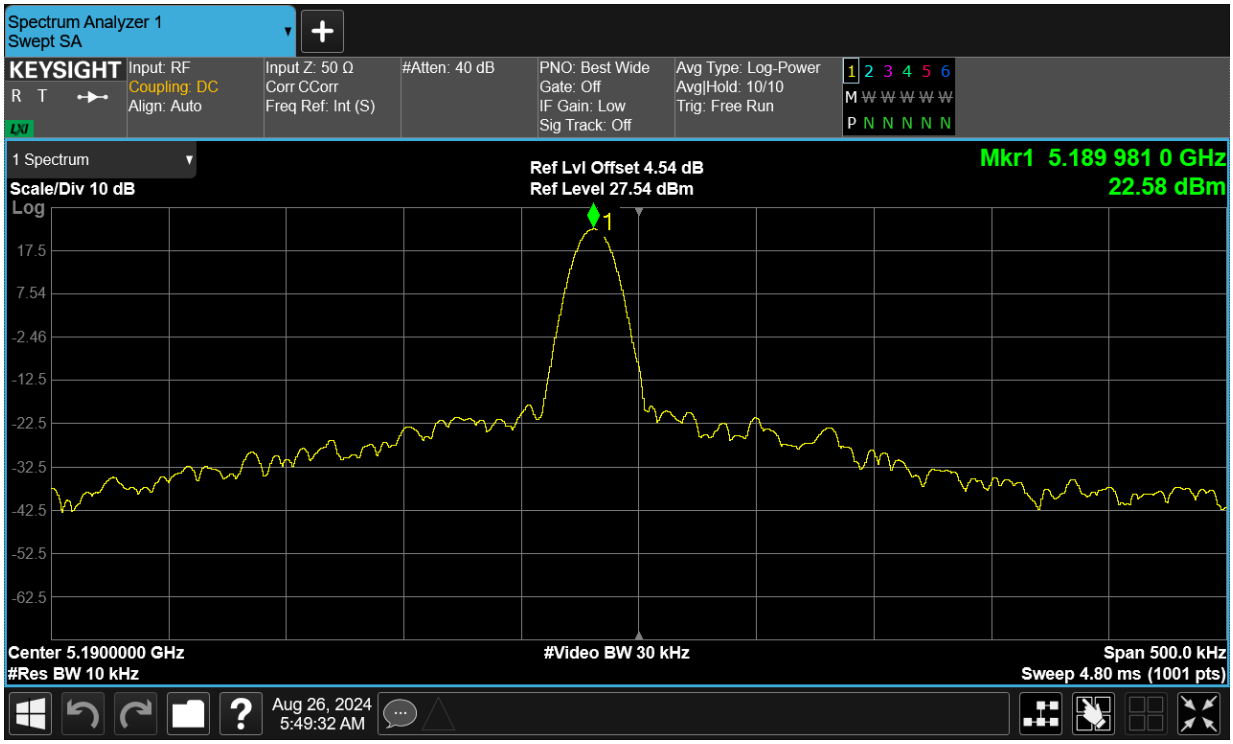
Freq. Stability LVLT n40 5190MHz Ant1



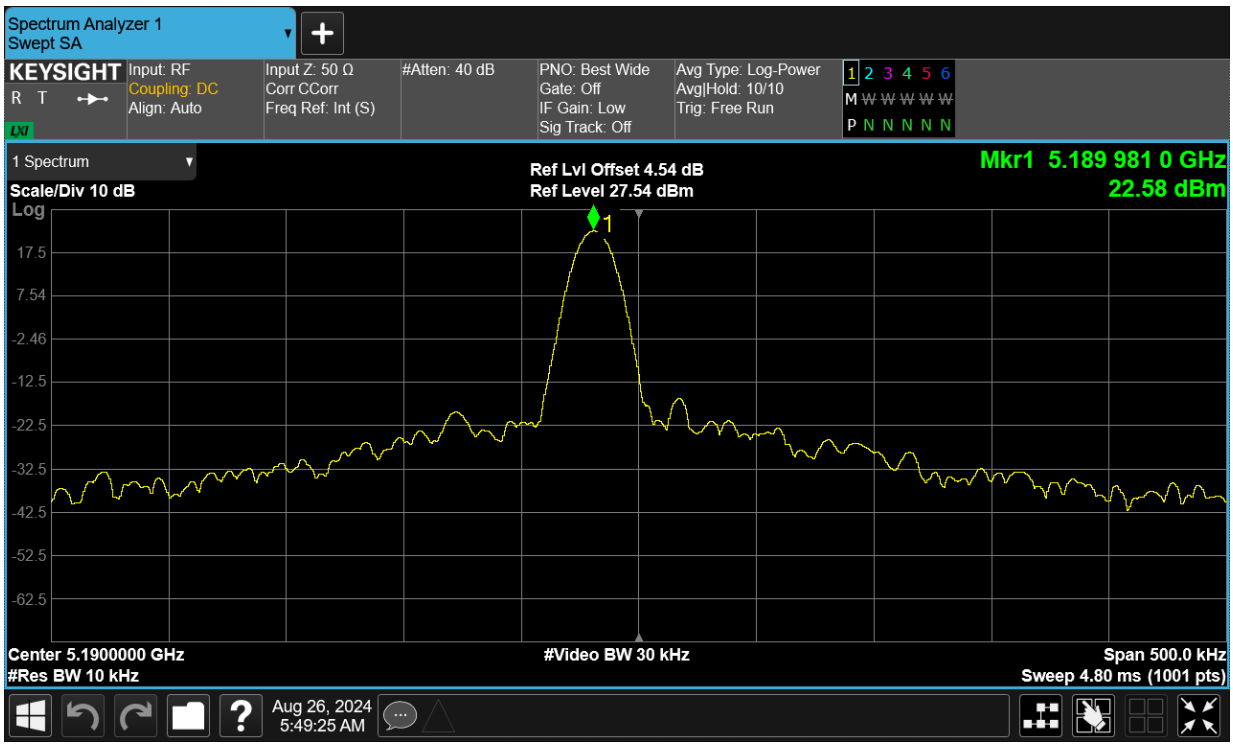
Freq. Stability LVNT n40 5190MHz Ant1



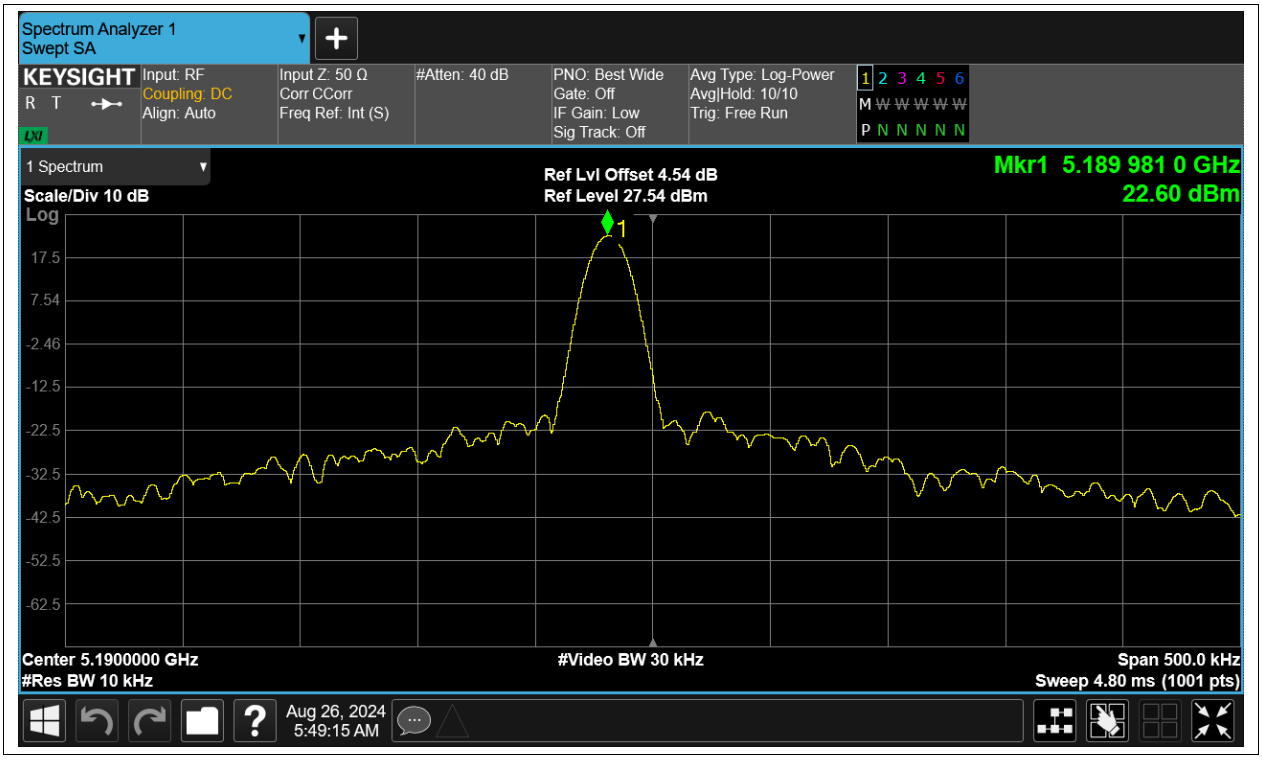
Freq. Stability NVHT n40 5190MHz Ant1



Freq. Stability NVLT n40 5190MHz Ant1



Freq. Stability NVNT n40 5190MHz Ant1

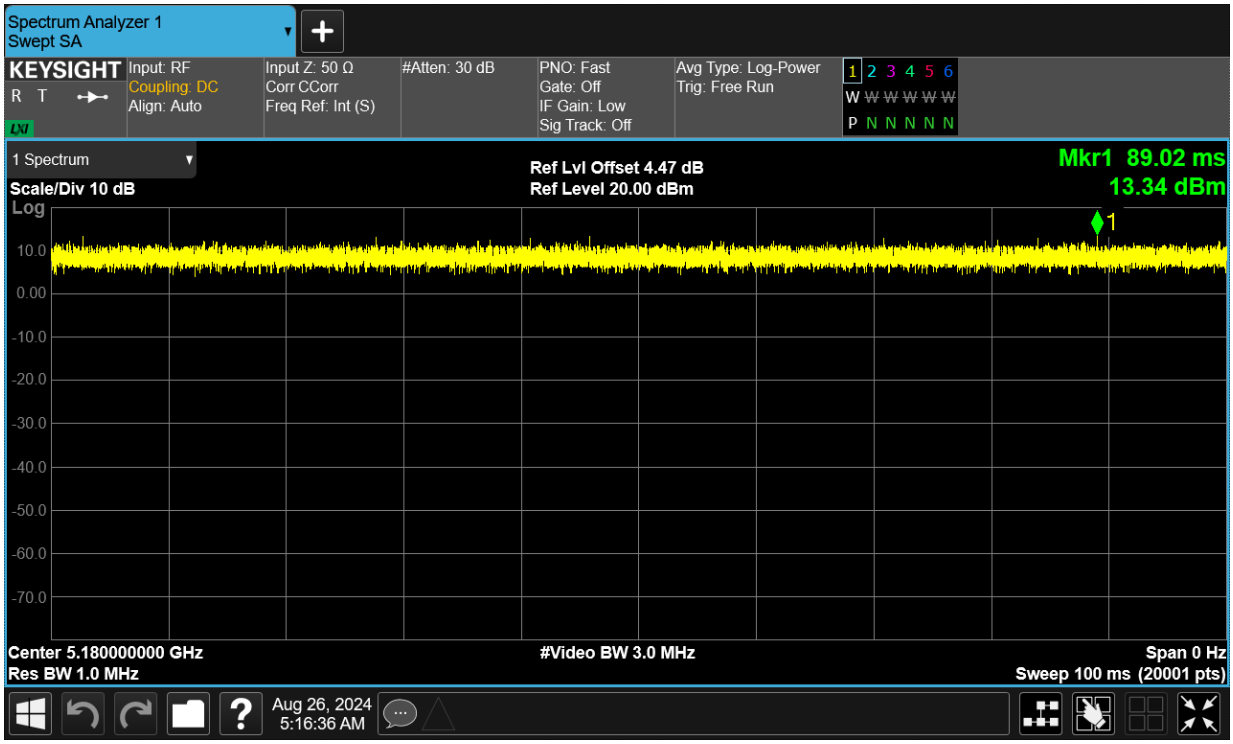

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 4.54 dB
Ref Level 27.54 dBm
Mkr1 5.189 981 0 GHz
22.60 dBm
17.5
7.54
-2.46
-12.5
-22.5
-32.5
-42.5
-52.5
-62.5
Center 5.1900000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Aug 26, 2024
5:49:15 AM

Duty Cycle

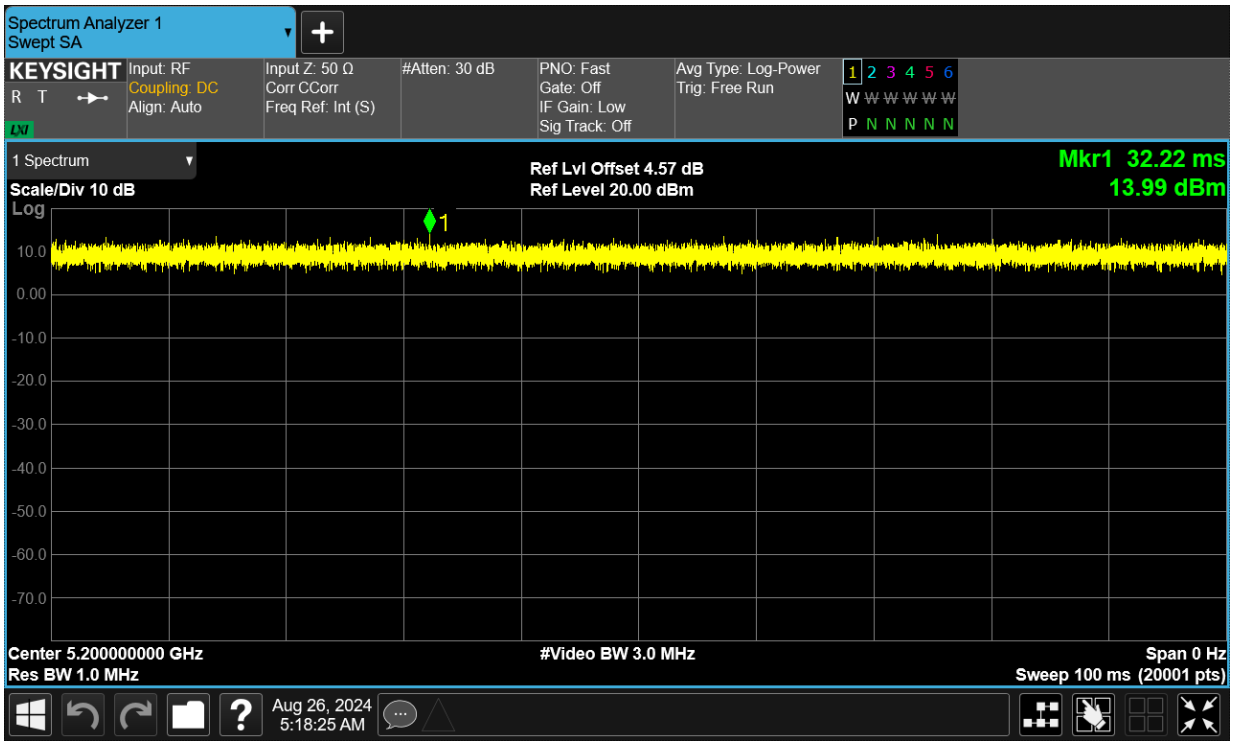
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	ac20	5180	Ant1	100	0
NVNT	ac20	5200	Ant1	100	0
NVNT	ac20	5240	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac40	5230	Ant1	100	0
NVNT	ac80	5210	Ant1	100	0
NVNT	n20	5180	Ant1	100	0
NVNT	n20	5200	Ant1	100	0
NVNT	n20	5240	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	n40	5230	Ant1	100	0

Test Graphs

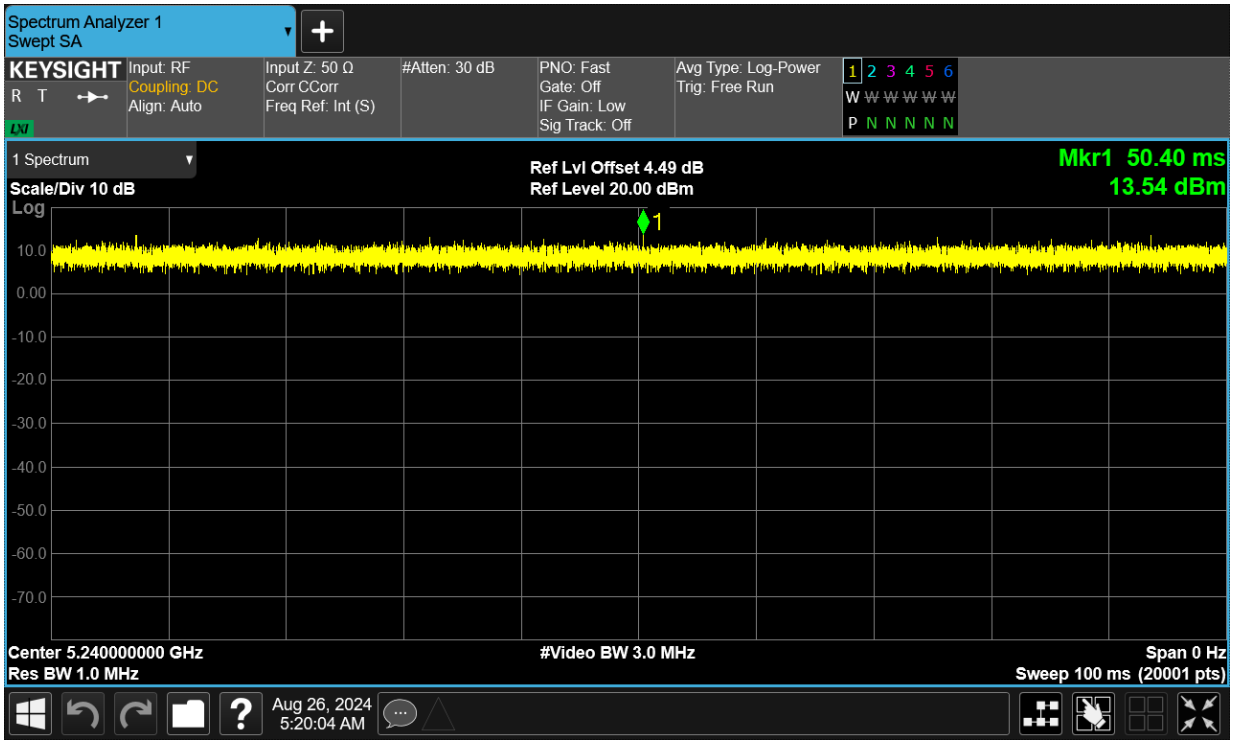
Duty Cycle NVNT a 5180MHz Ant1



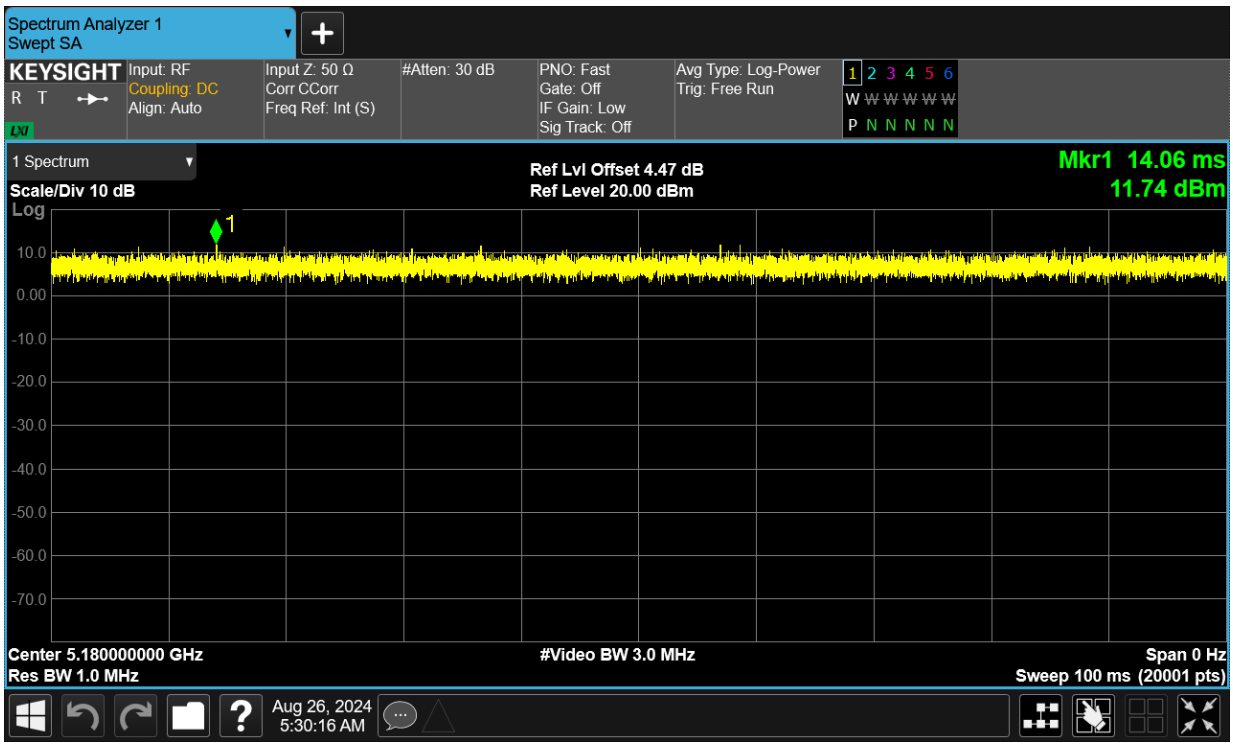
Duty Cycle NVNT a 5200MHz Ant1



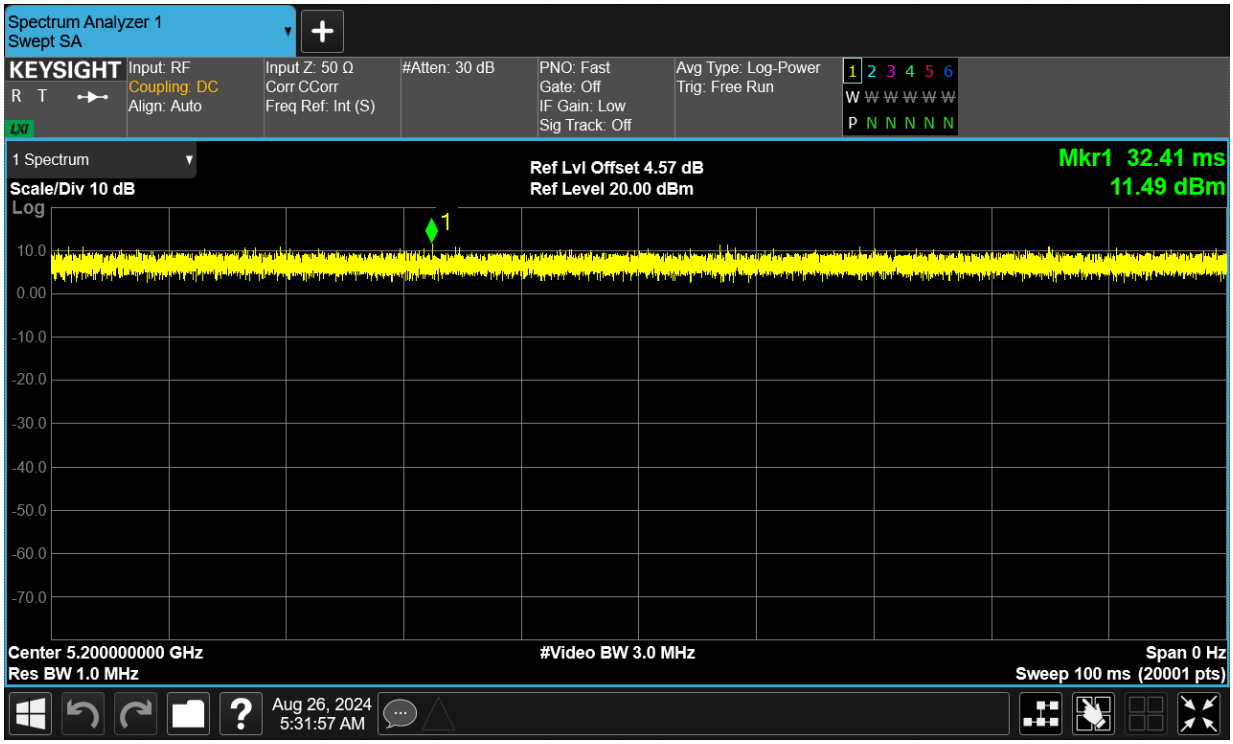
Duty Cycle NVNT a 5240MHz Ant1



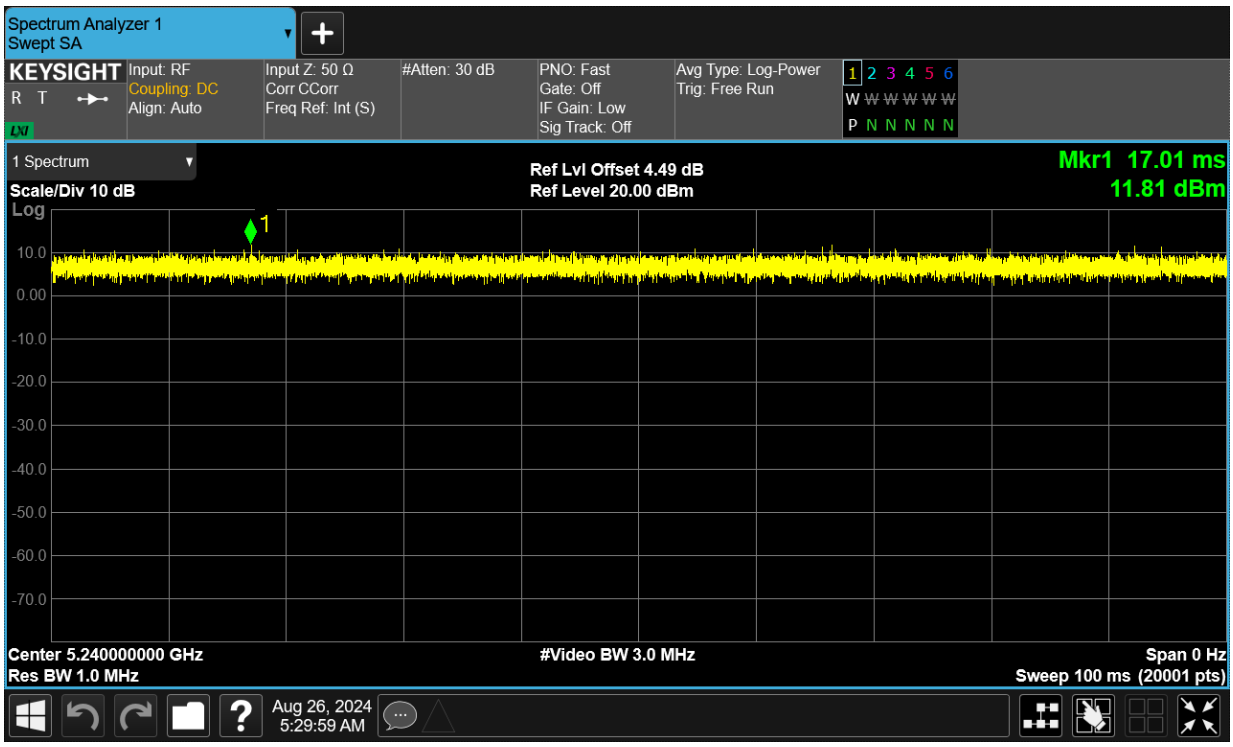
Duty Cycle NVNT ac20 5180MHz Ant1



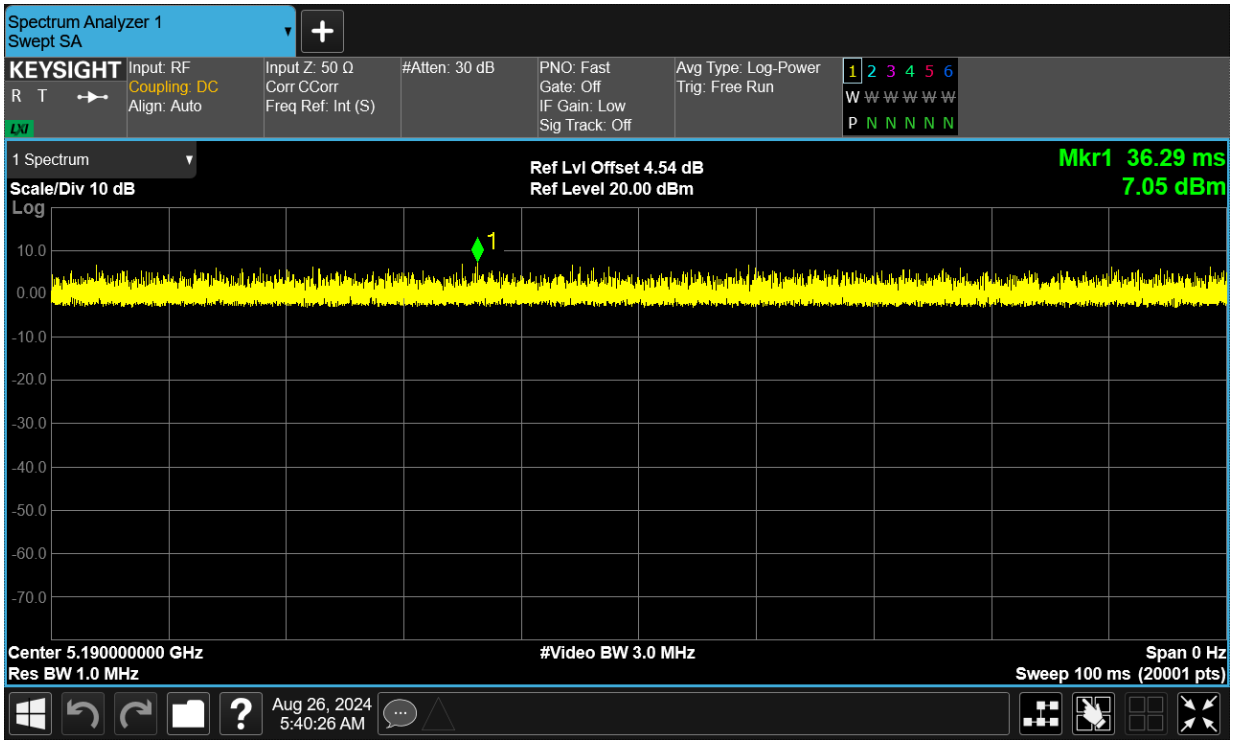
Duty Cycle NVNT ac20 5200MHz Ant1



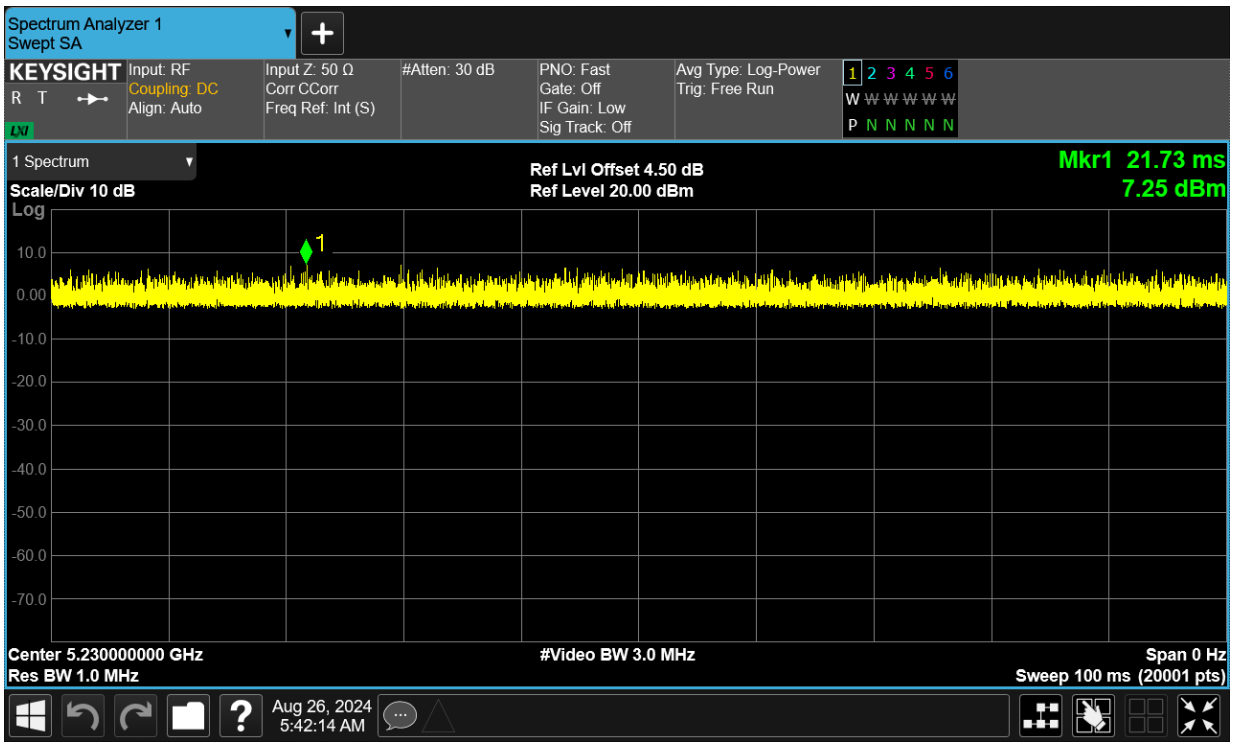
Duty Cycle NVNT ac20 5240MHz Ant1



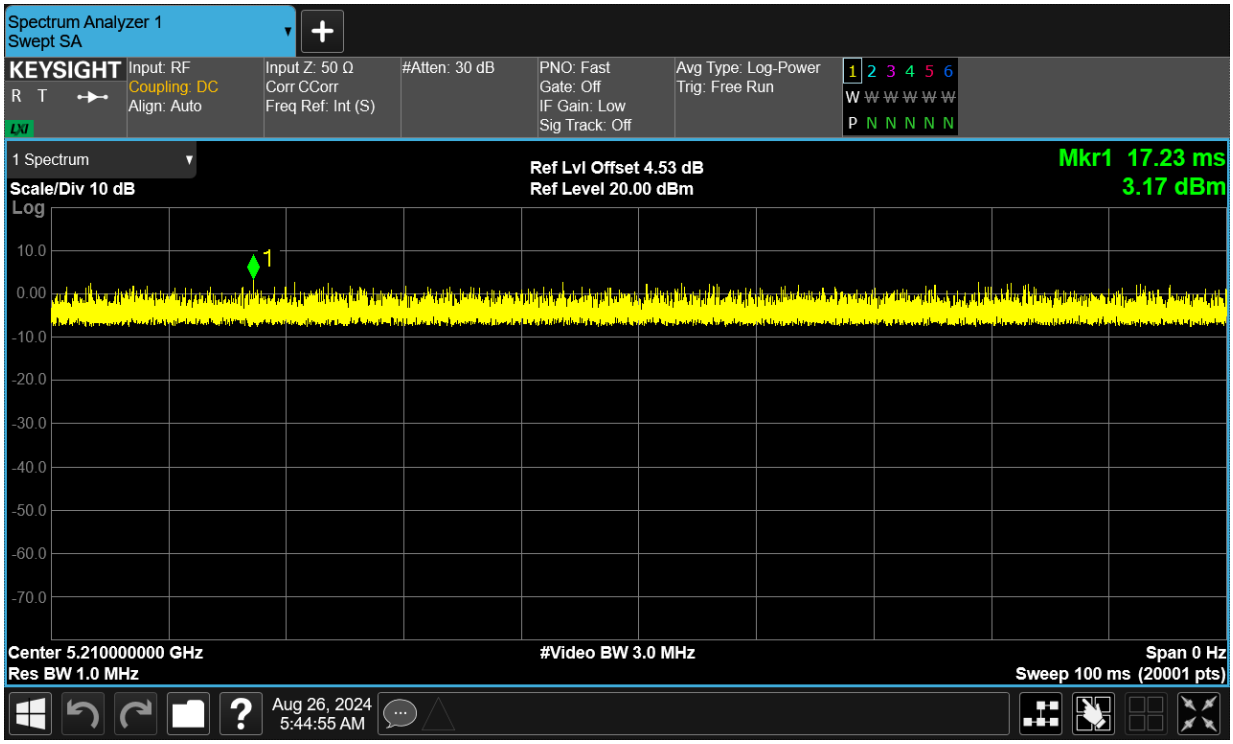
Duty Cycle NVNT ac40 5190MHz Ant1



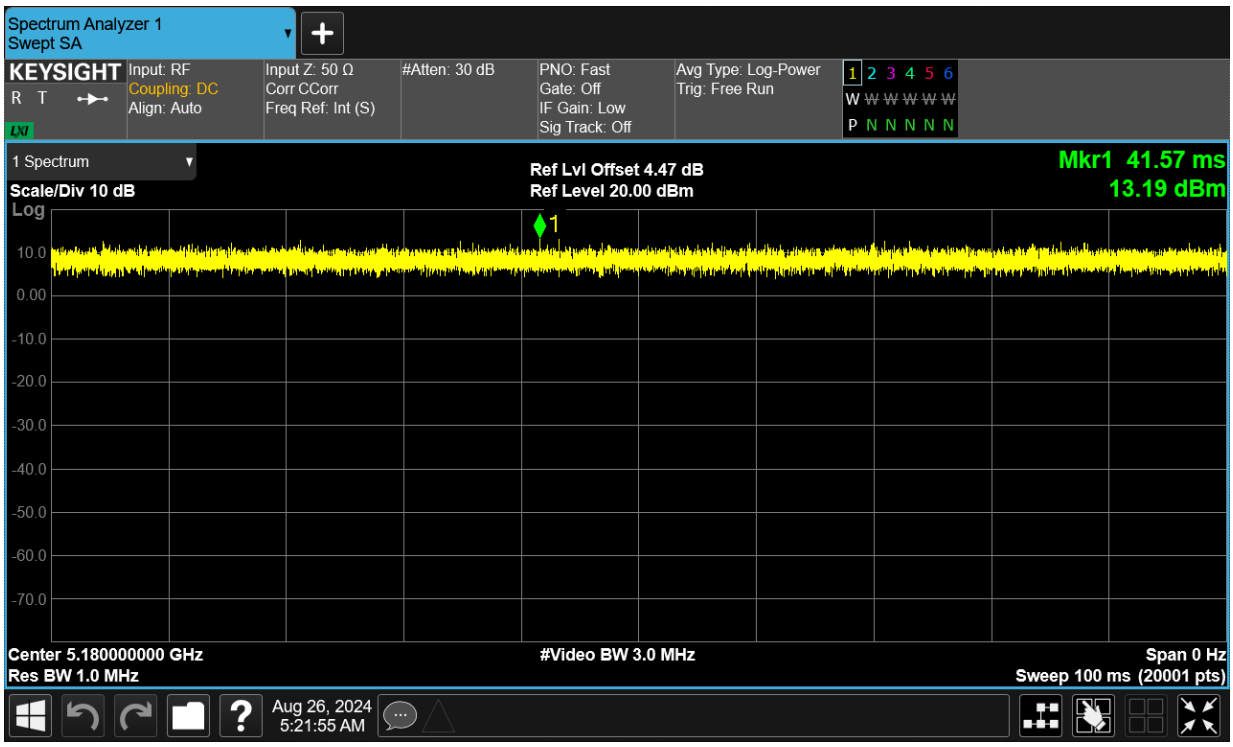
Duty Cycle NVNT ac40 5230MHz Ant1



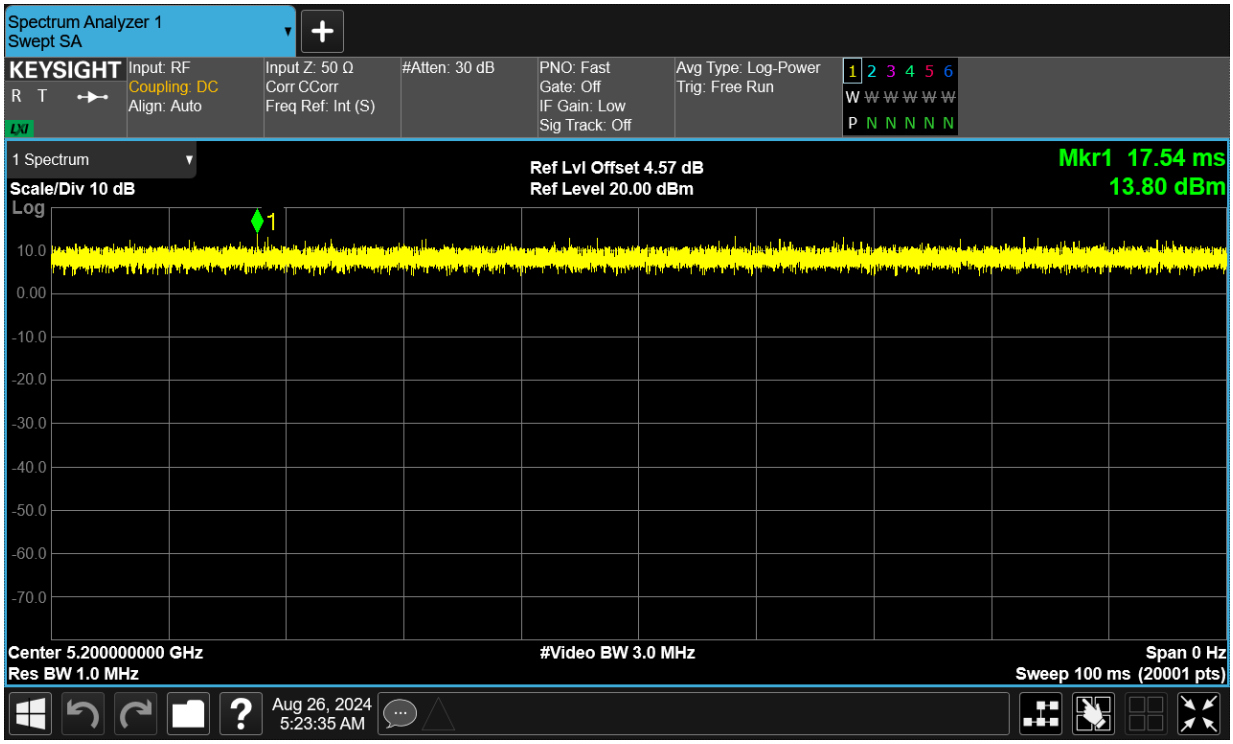
Duty Cycle NVNT ac80 5210MHz Ant1



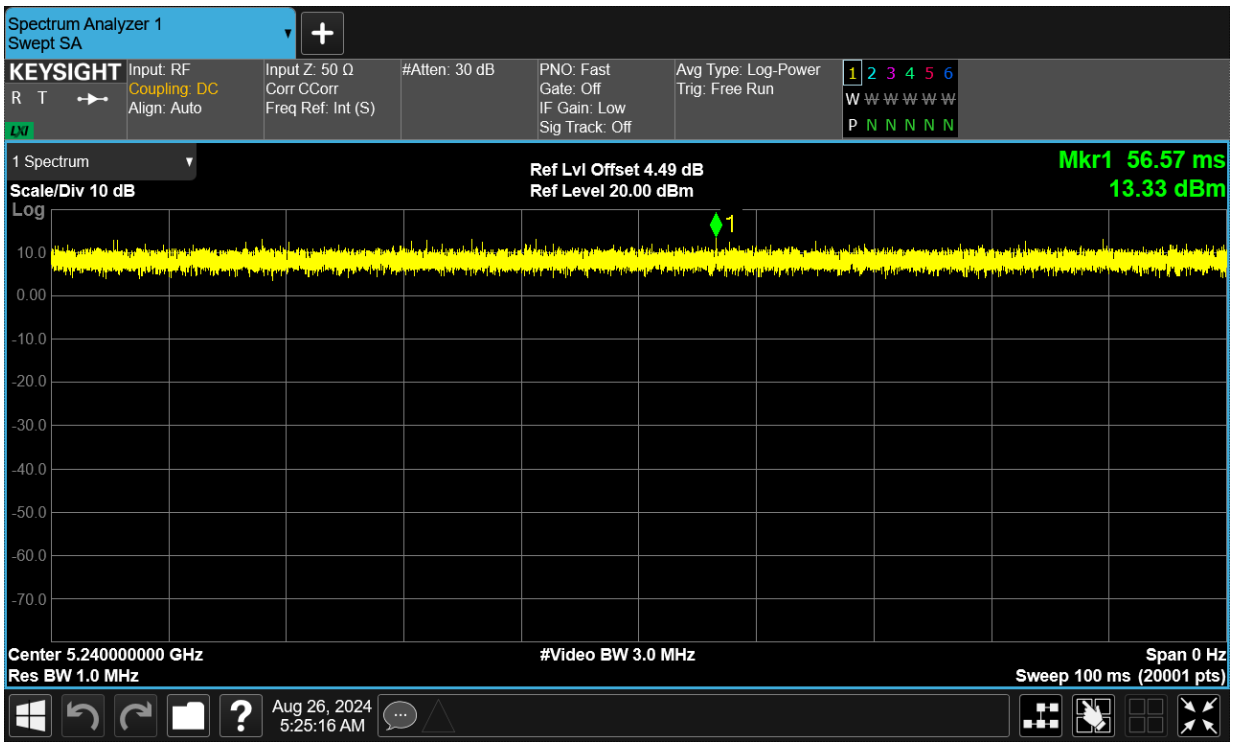
Duty Cycle NVNT n20 5180MHz Ant1



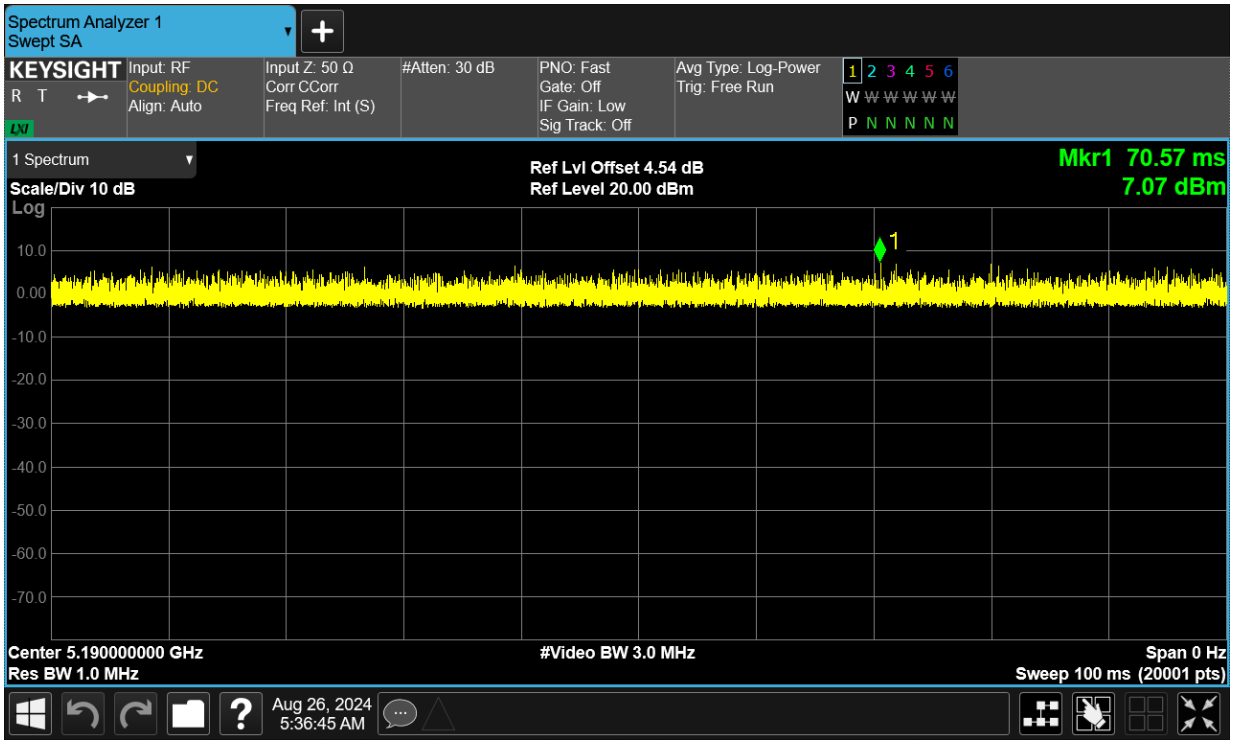
Duty Cycle NVNT n20 5200MHz Ant1



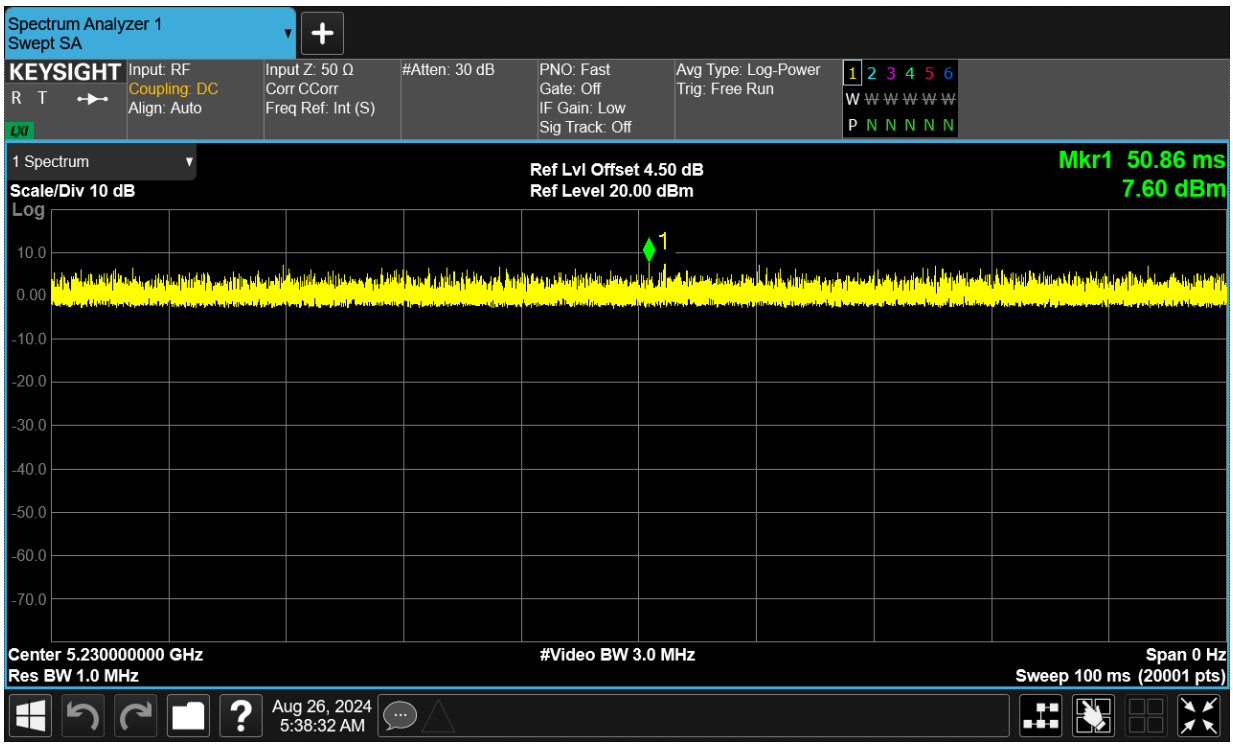
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

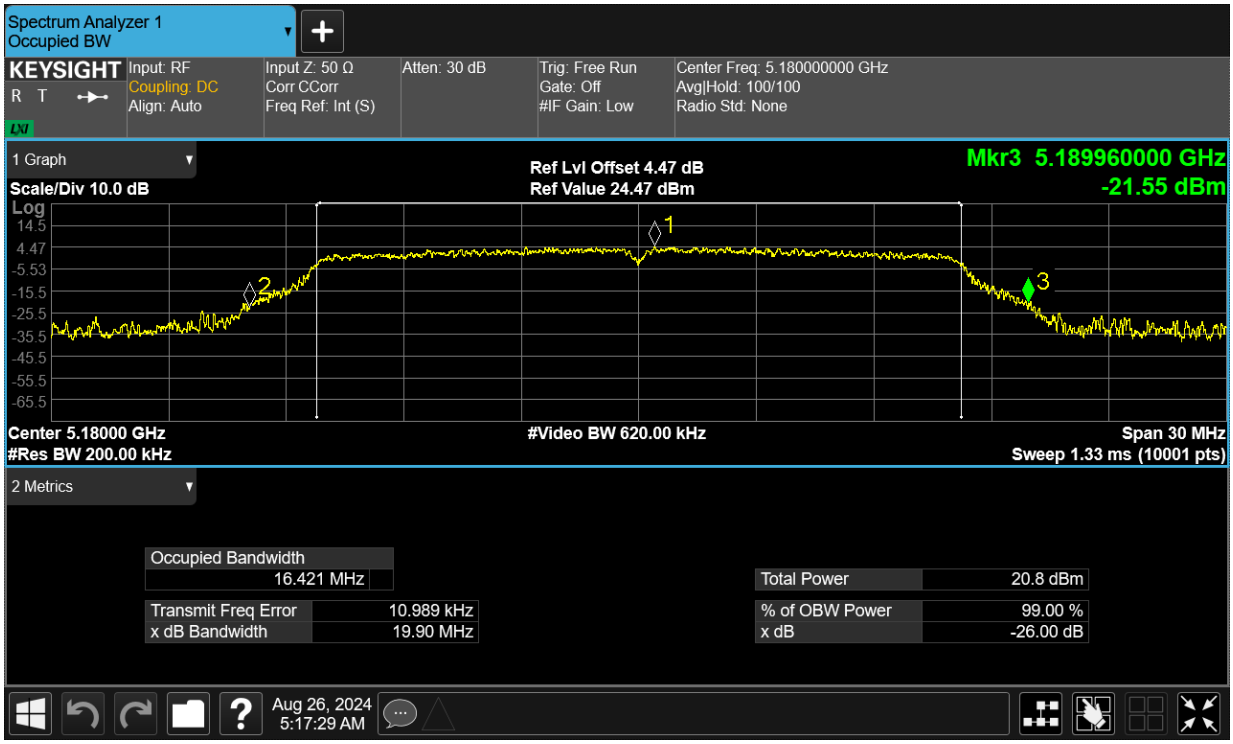
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.57	0	16.57	24	Pass
NVNT	a	5200	Ant1	16.4	0	16.4	24	Pass
NVNT	a	5240	Ant1	16.08	0	16.08	24	Pass
NVNT	ac20	5180	Ant1	14.5	0	14.5	24	Pass
NVNT	ac20	5200	Ant1	14.29	0	14.29	24	Pass
NVNT	ac20	5240	Ant1	14.32	0	14.32	24	Pass
NVNT	ac40	5190	Ant1	14.23	0	14.23	23	Pass
NVNT	ac40	5230	Ant1	13.94	0	13.94	24	Pass
NVNT	ac80	5210	Ant1	13.16	0	13.16	24	Pass
NVNT	n20	5180	Ant1	15.82	0	15.82	24	Pass
NVNT	n20	5200	Ant1	15.82	0	15.82	24	Pass
NVNT	n20	5240	Ant1	15.87	0	15.87	24	Pass
NVNT	n40	5190	Ant1	14.07	0	14.07	24	Pass
NVNT	n40	5230	Ant1	14.24	0	14.24	24	Pass

-26dB Bandwidth

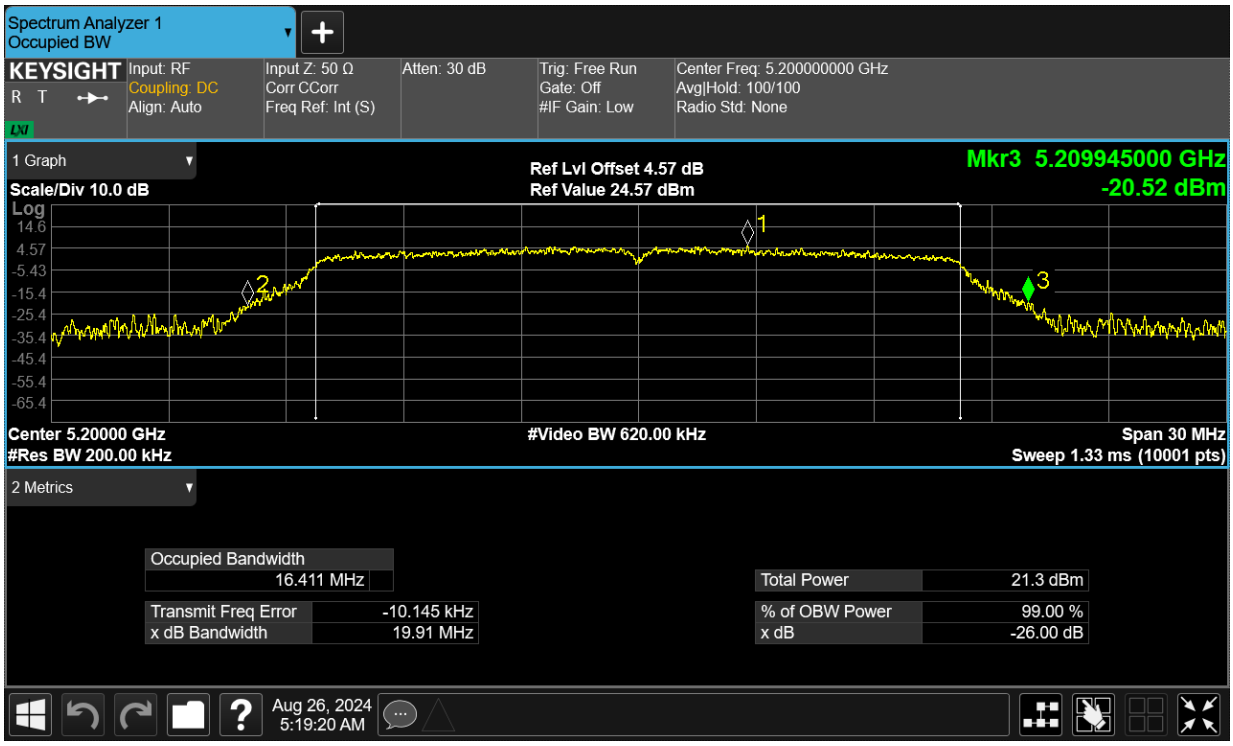
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	19.899
NVNT	a	5200	Ant1	19.911
NVNT	a	5240	Ant1	19.538
NVNT	ac20	5180	Ant1	20.284
NVNT	ac20	5200	Ant1	20.067
NVNT	ac20	5240	Ant1	19.997
NVNT	ac40	5190	Ant1	39.232
NVNT	ac40	5230	Ant1	39.212
NVNT	ac80	5210	Ant1	78.828
NVNT	n20	5180	Ant1	20.184
NVNT	n20	5200	Ant1	20.084
NVNT	n20	5240	Ant1	20.192
NVNT	n40	5190	Ant1	39.315
NVNT	n40	5230	Ant1	39.247

Test Graphs

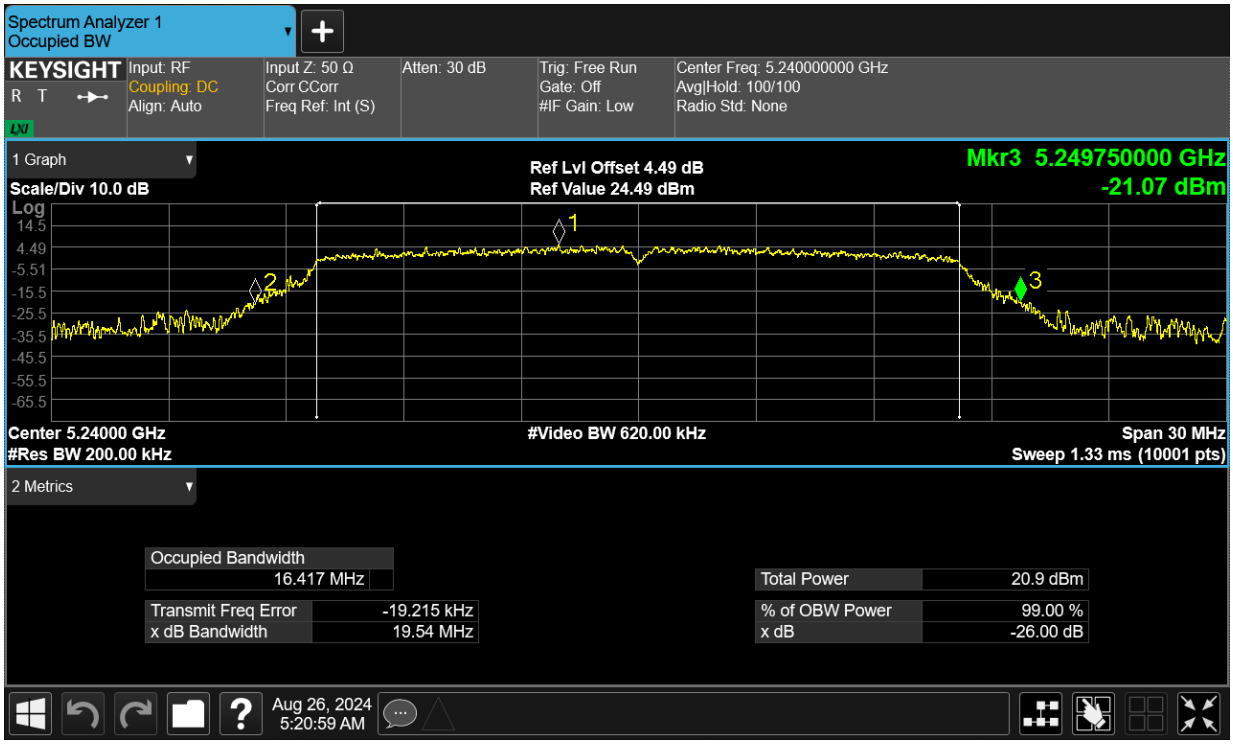
-26dB Bandwidth NVNT a 5180MHz Ant1



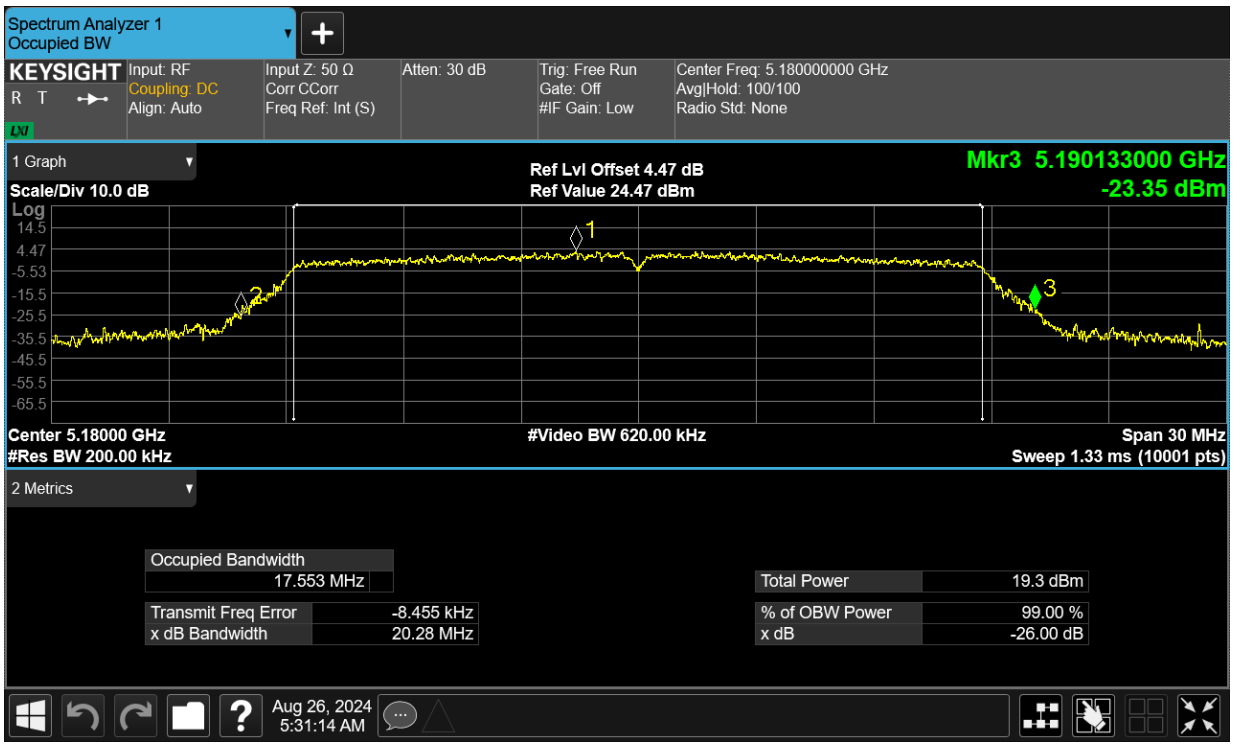
-26dB Bandwidth NVNT a 5200MHz Ant1



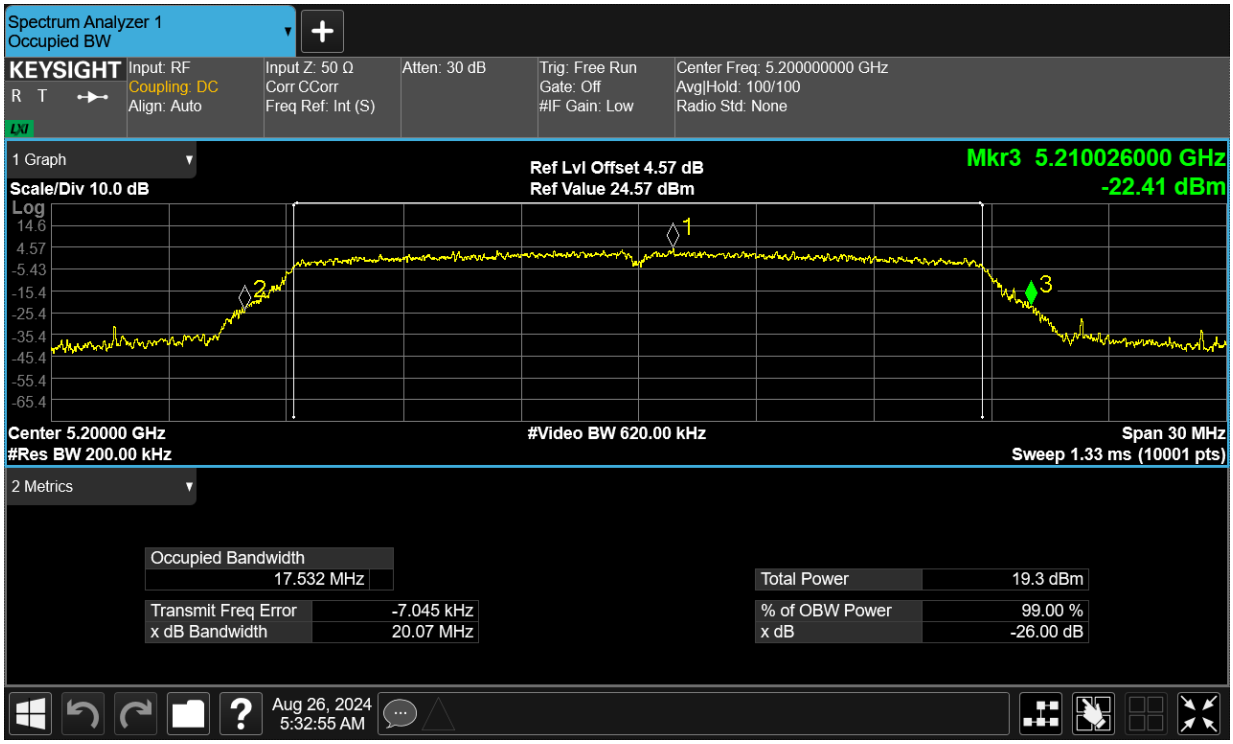
-26dB Bandwidth NVNT a 5240MHz Ant1



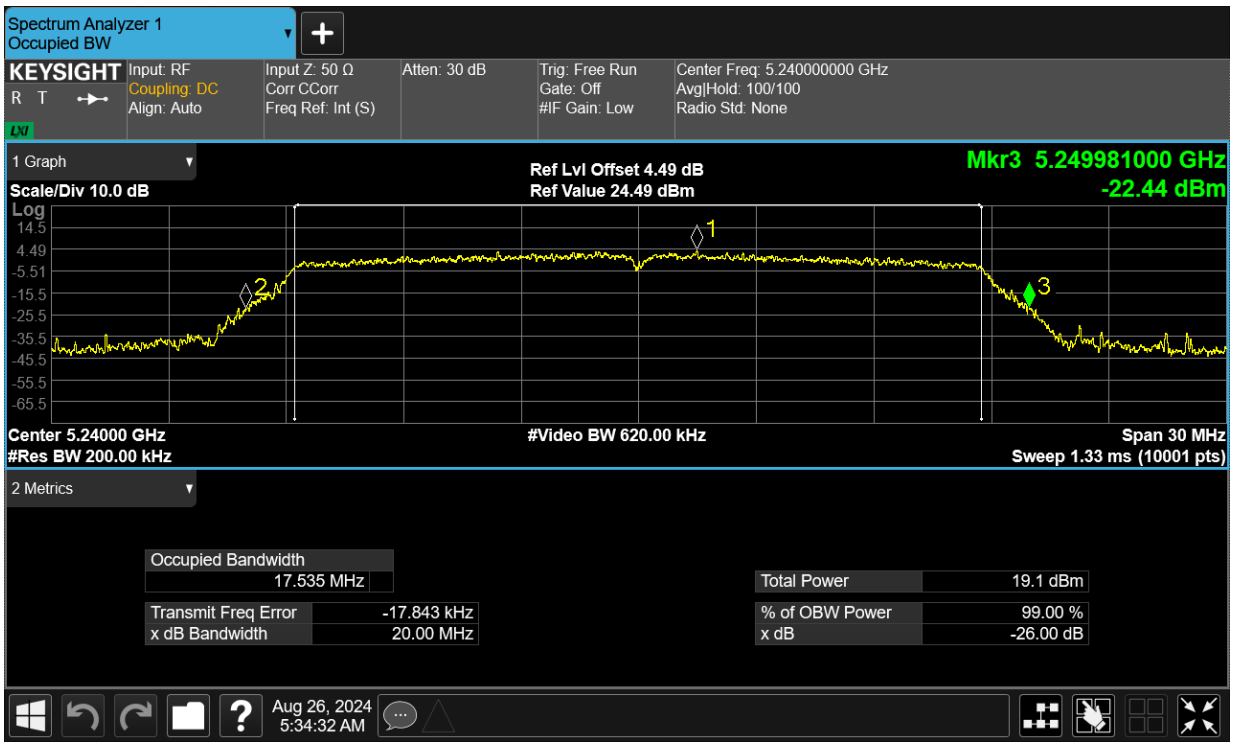
-26dB Bandwidth NVNT ac20 5180MHz Ant1



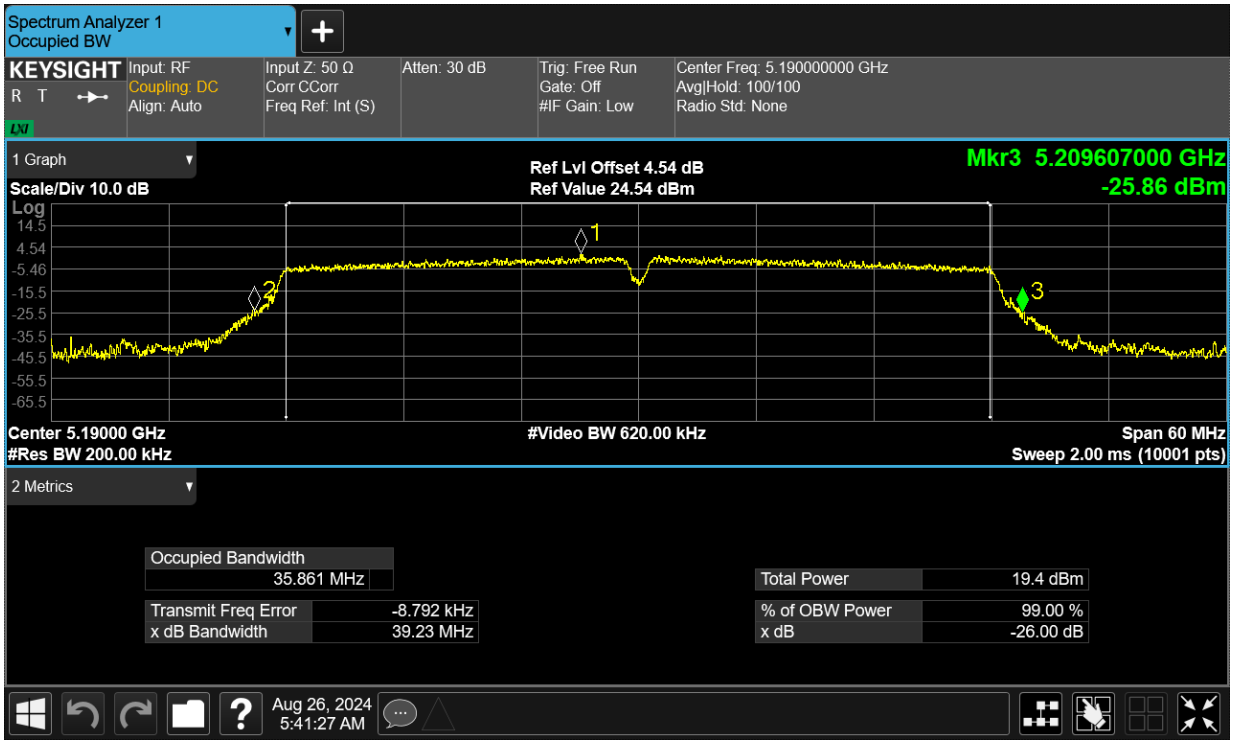
-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1

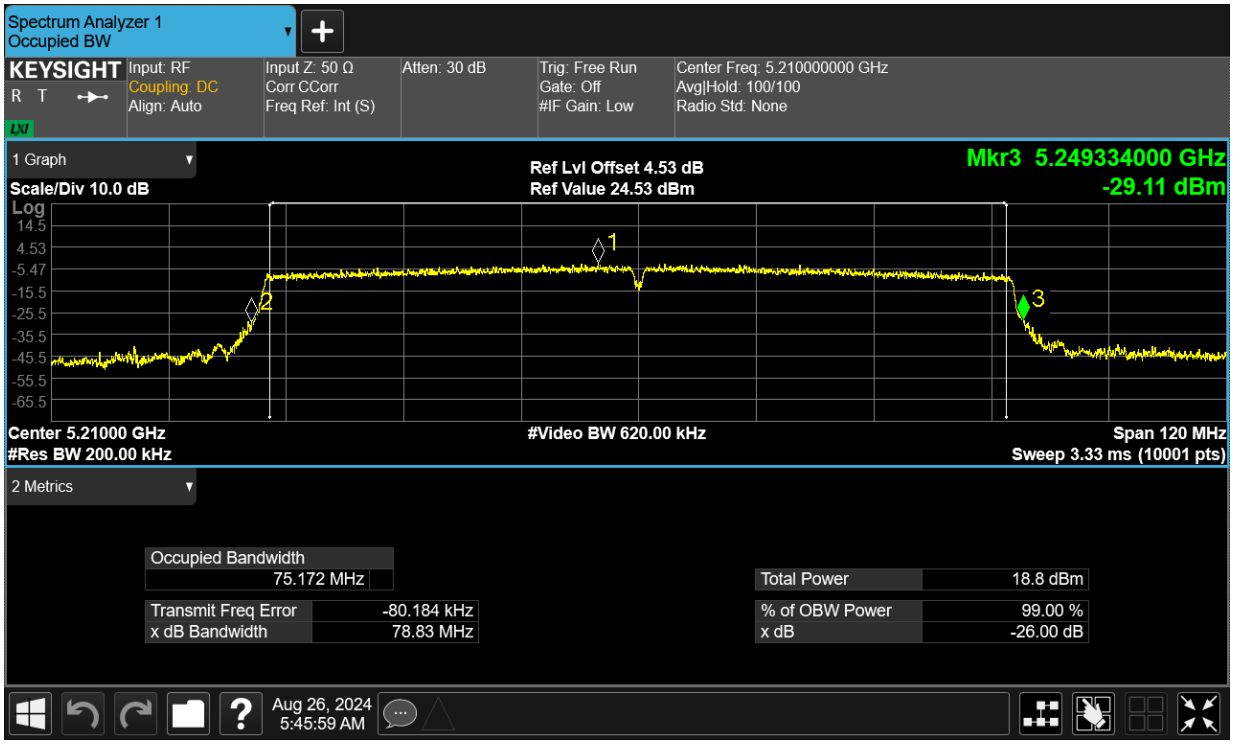


-26dB Bandwidth NVNT ac40 5190MHz Ant1

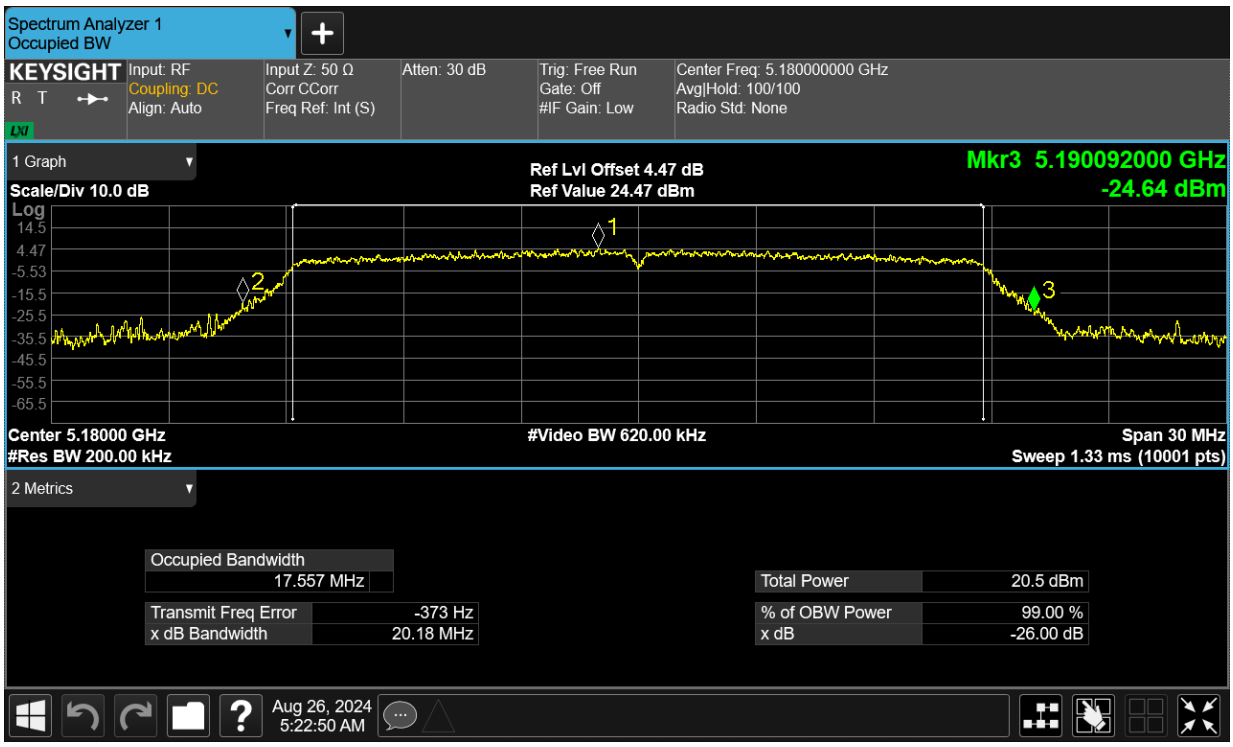


-26dB Bandwidth NVNT ac40 5230MHz Ant1

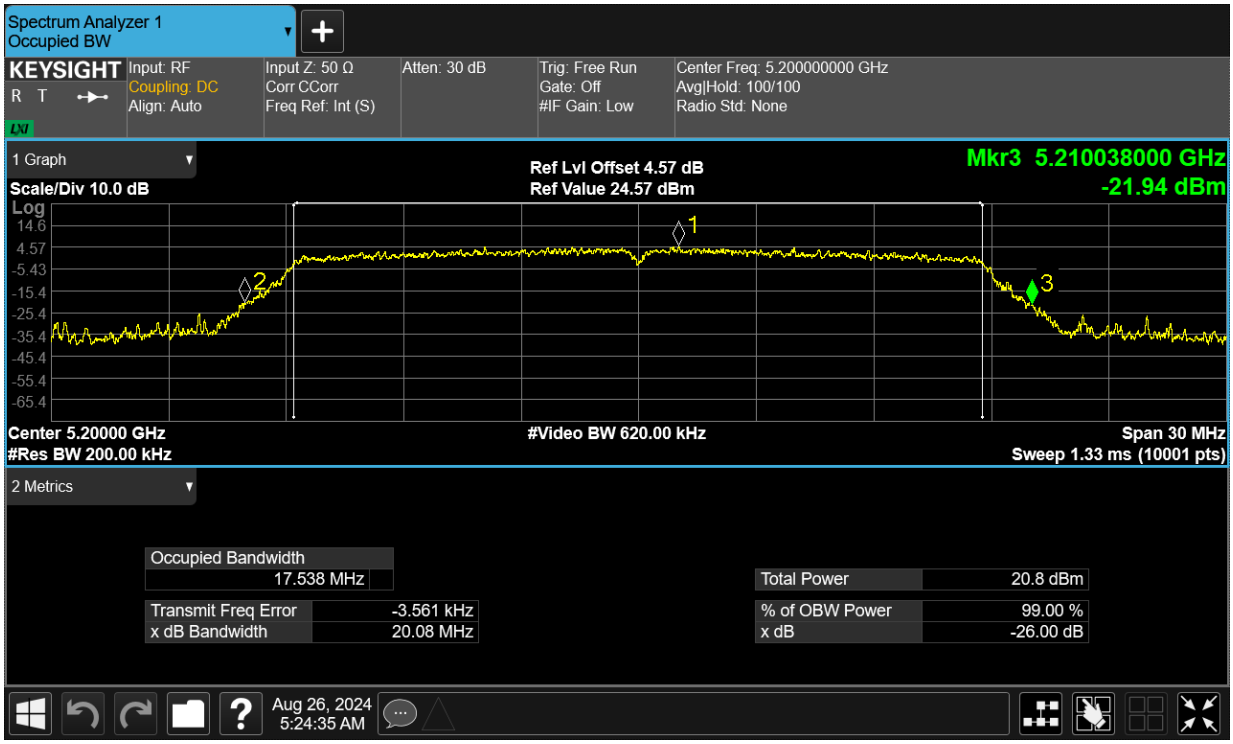
-26dB Bandwidth NVNT ac80 5210MHz Ant1



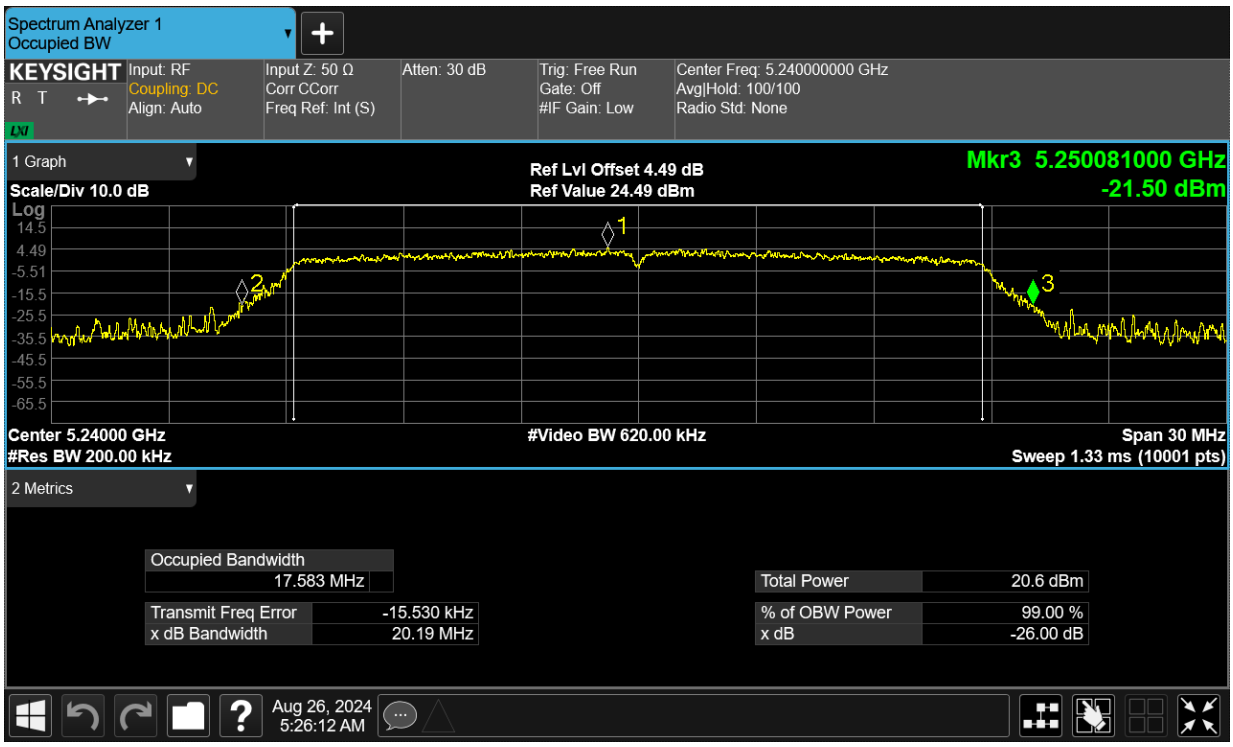
-26dB Bandwidth NVNT n20 5180MHz Ant1



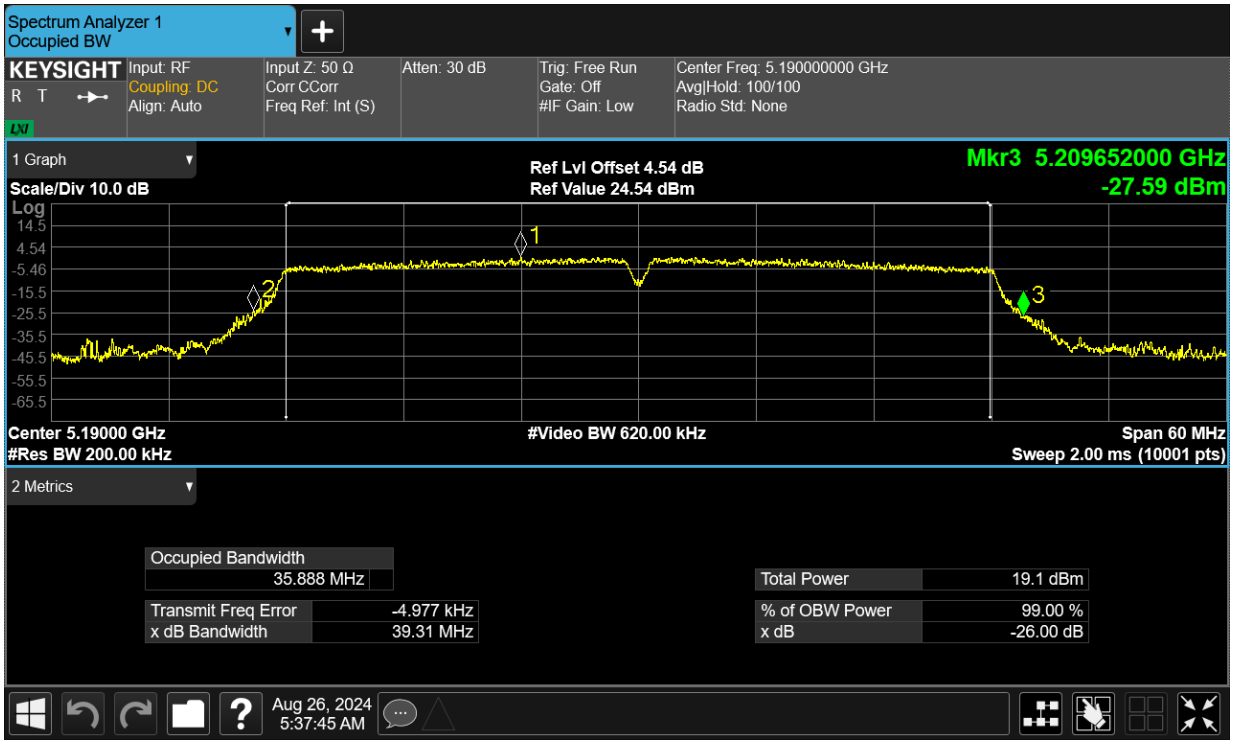
-26dB Bandwidth NVNT n20 5200MHz Ant1



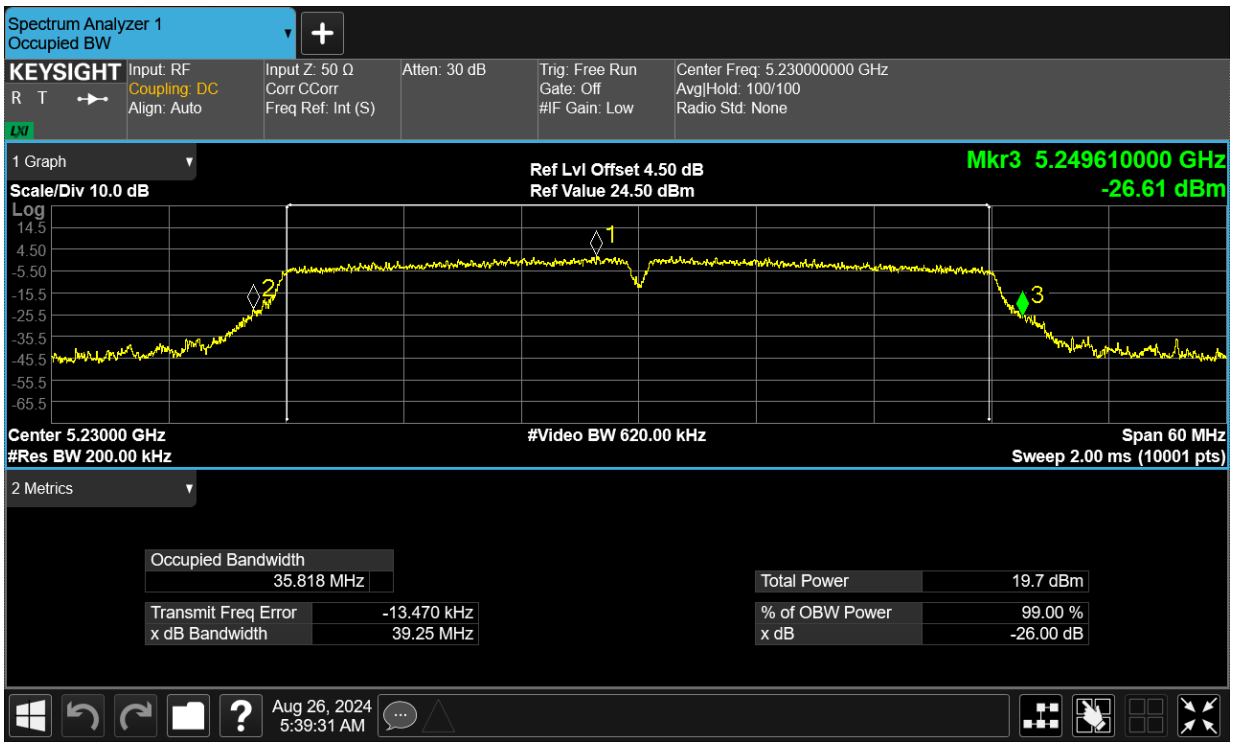
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

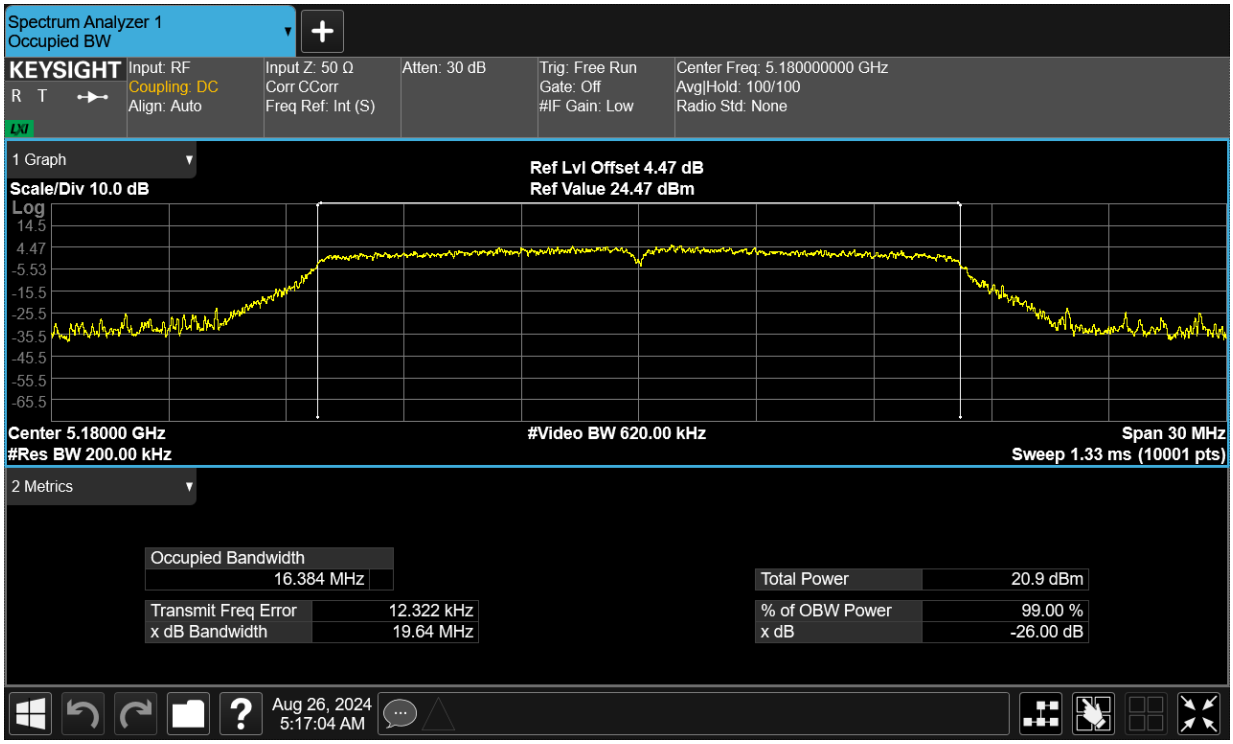


Occupied Channel Bandwidth

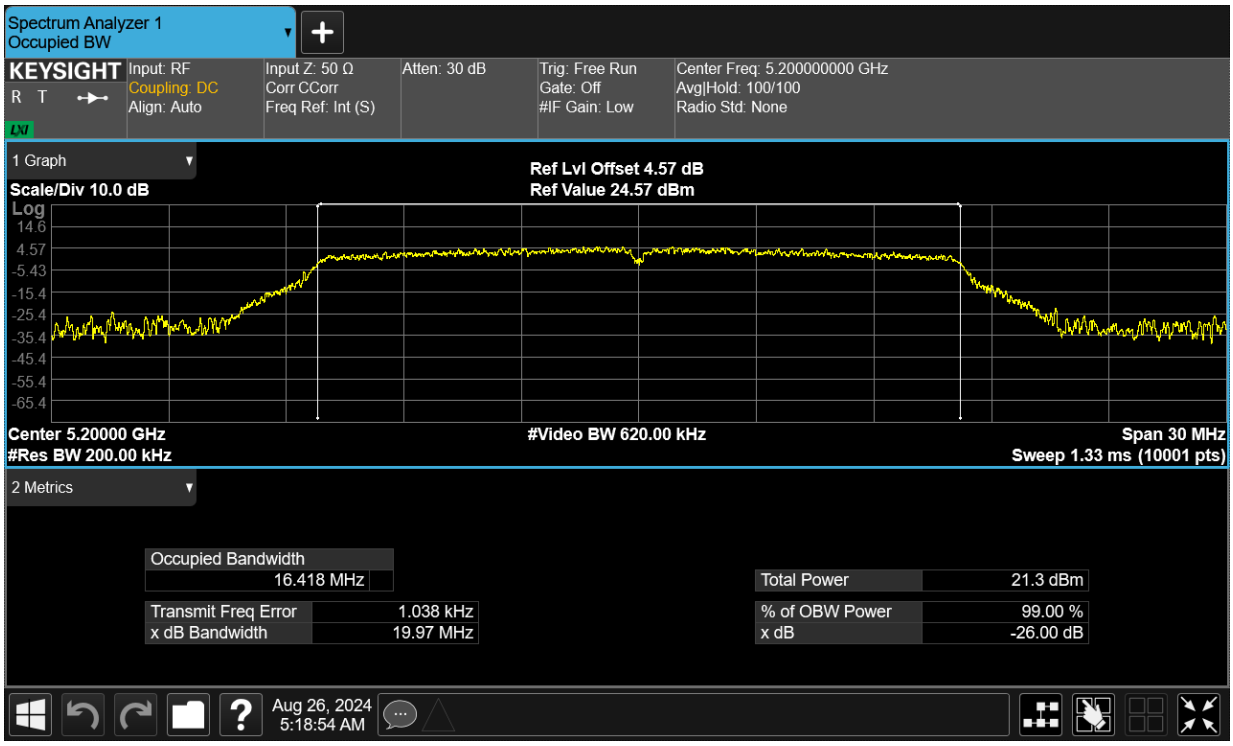
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.384
NVNT	a	5200	Ant1	16.418
NVNT	a	5240	Ant1	16.432
NVNT	ac20	5180	Ant1	17.553
NVNT	ac20	5200	Ant1	17.552
NVNT	ac20	5240	Ant1	17.555
NVNT	ac40	5190	Ant1	35.941
NVNT	ac40	5230	Ant1	35.946
NVNT	ac80	5210	Ant1	75.114
NVNT	n20	5180	Ant1	17.555
NVNT	n20	5200	Ant1	17.561
NVNT	n20	5240	Ant1	17.57
NVNT	n40	5190	Ant1	35.942
NVNT	n40	5230	Ant1	35.939

Test Graphs

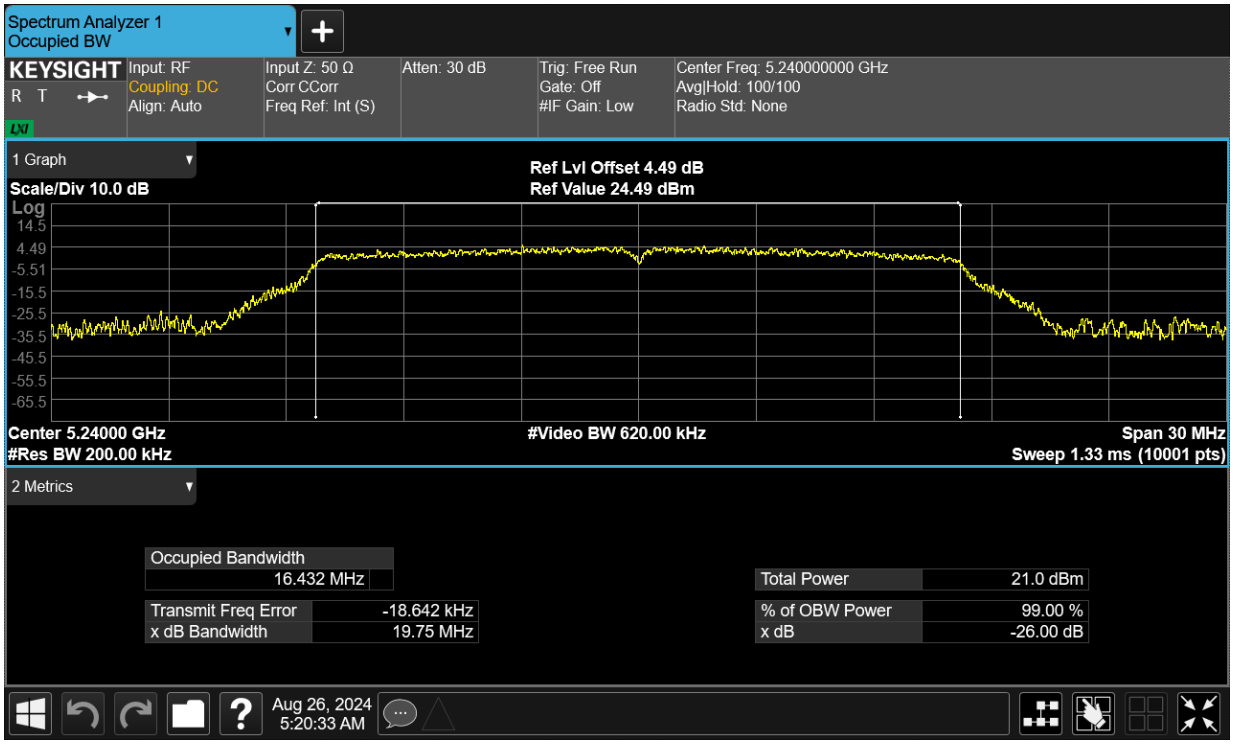
OBW NVNT a 5180MHz Ant1



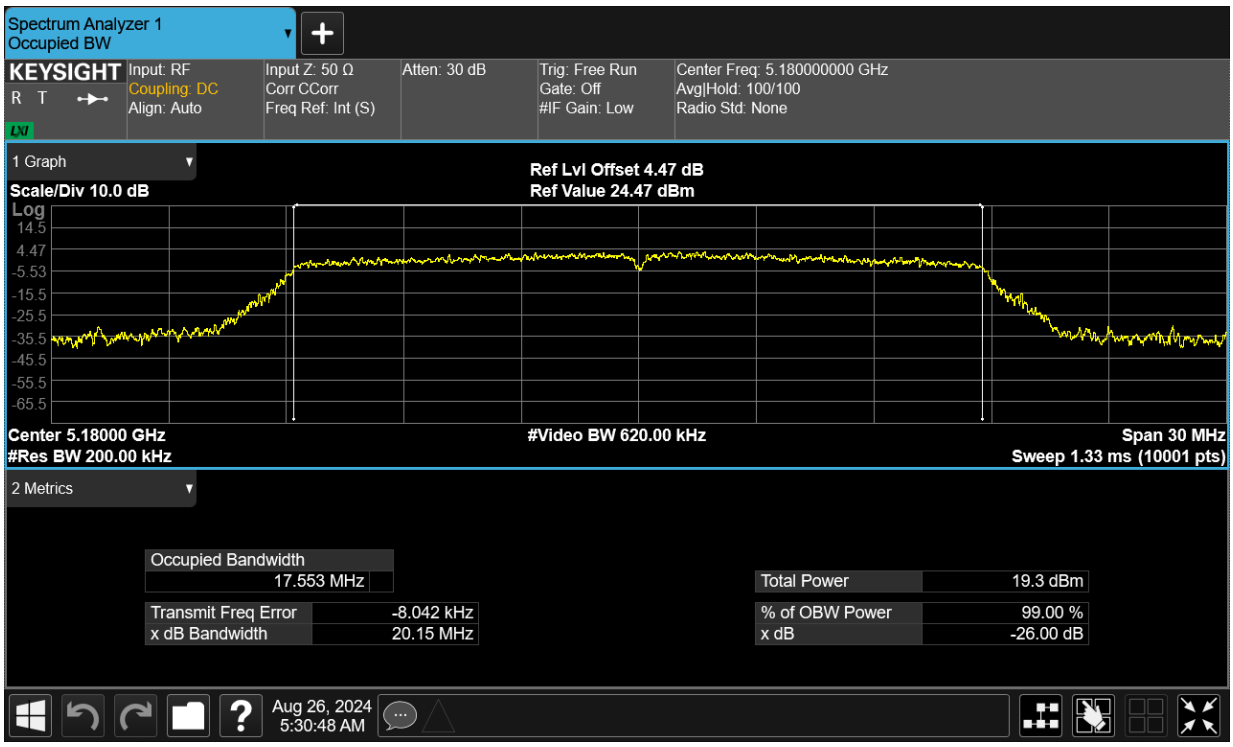
OBW NVNT a 5200MHz Ant1



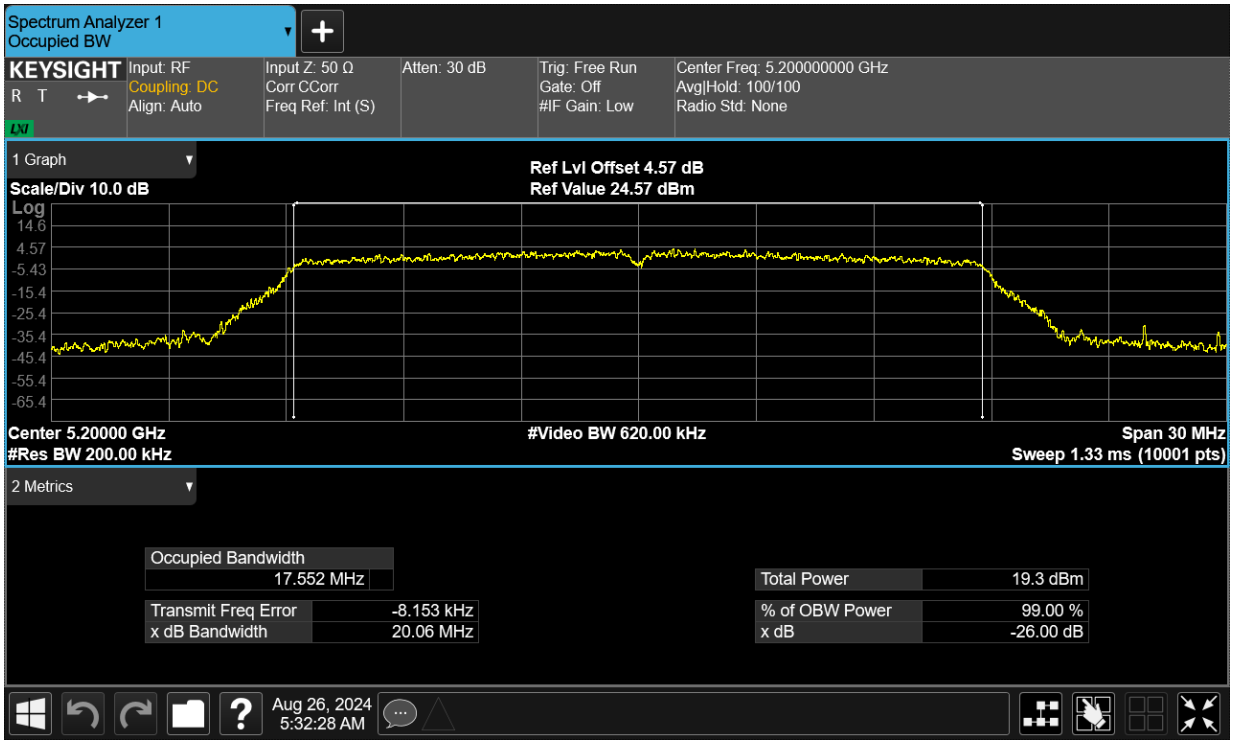
OBW NVNT a 5240MHz Ant1



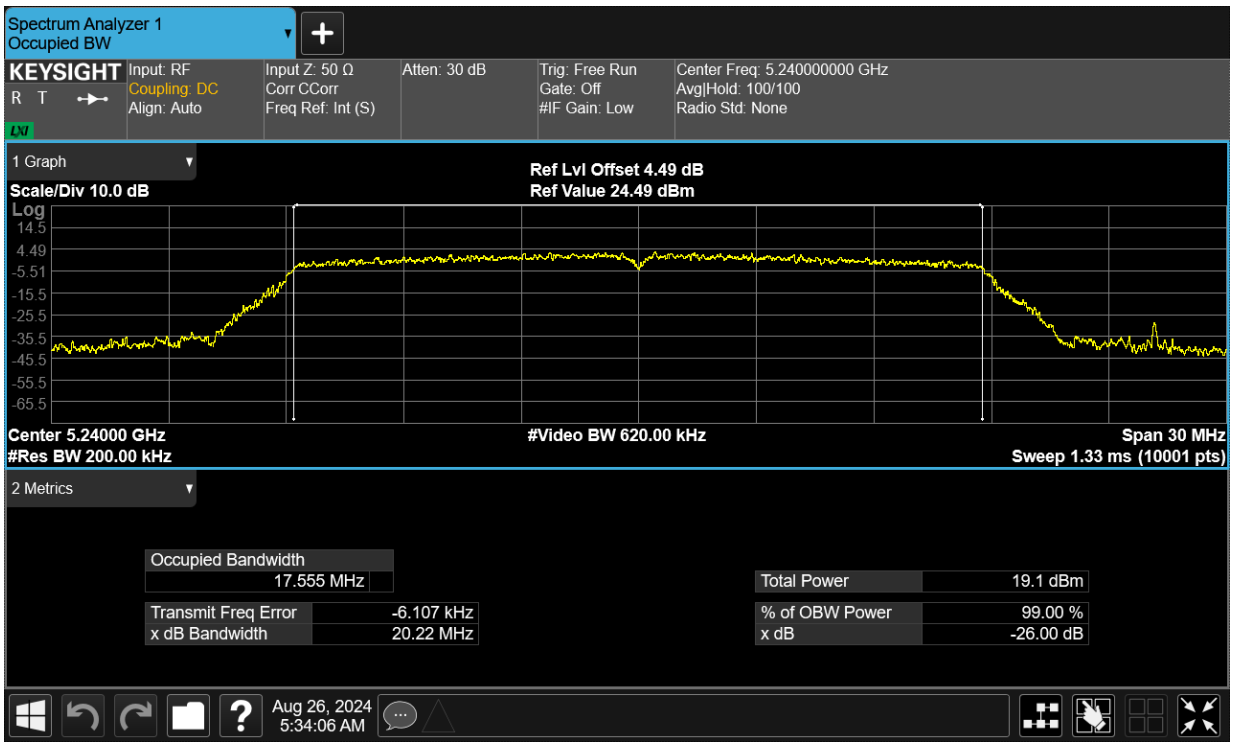
OBW NVNT ac20 5180MHz Ant1



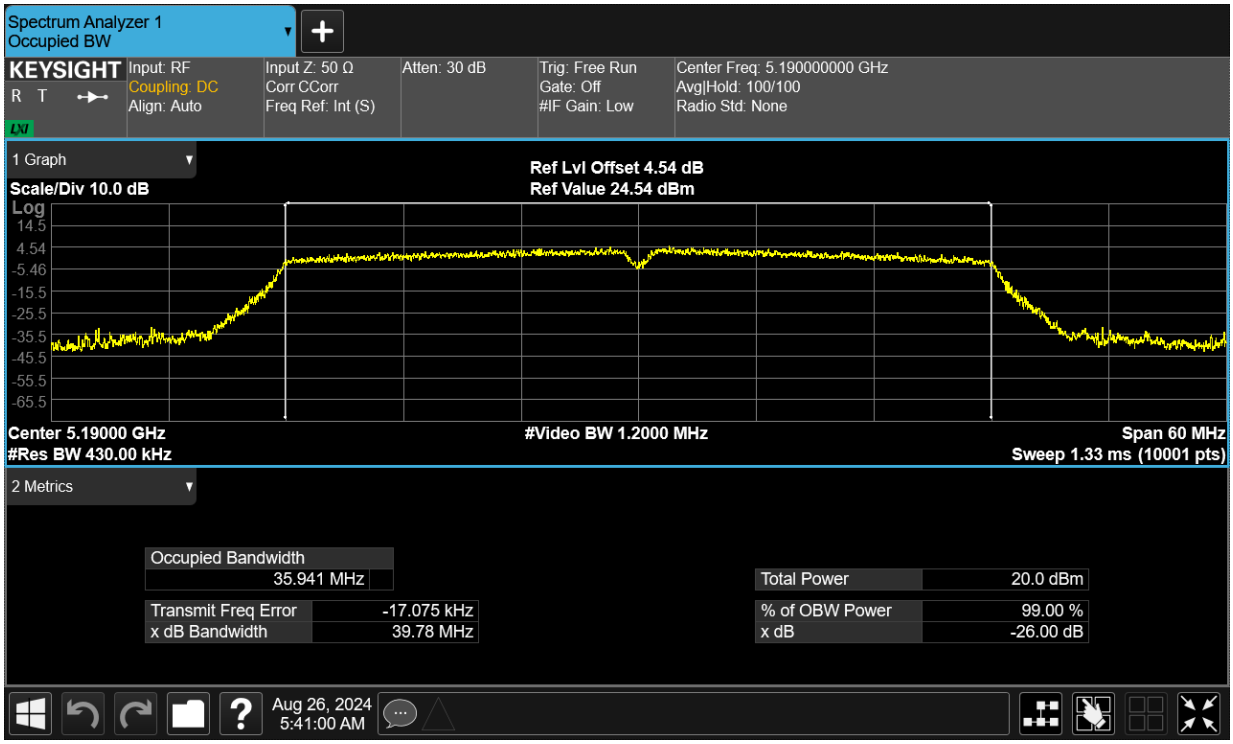
OBW NVNT ac20 5200MHz Ant1



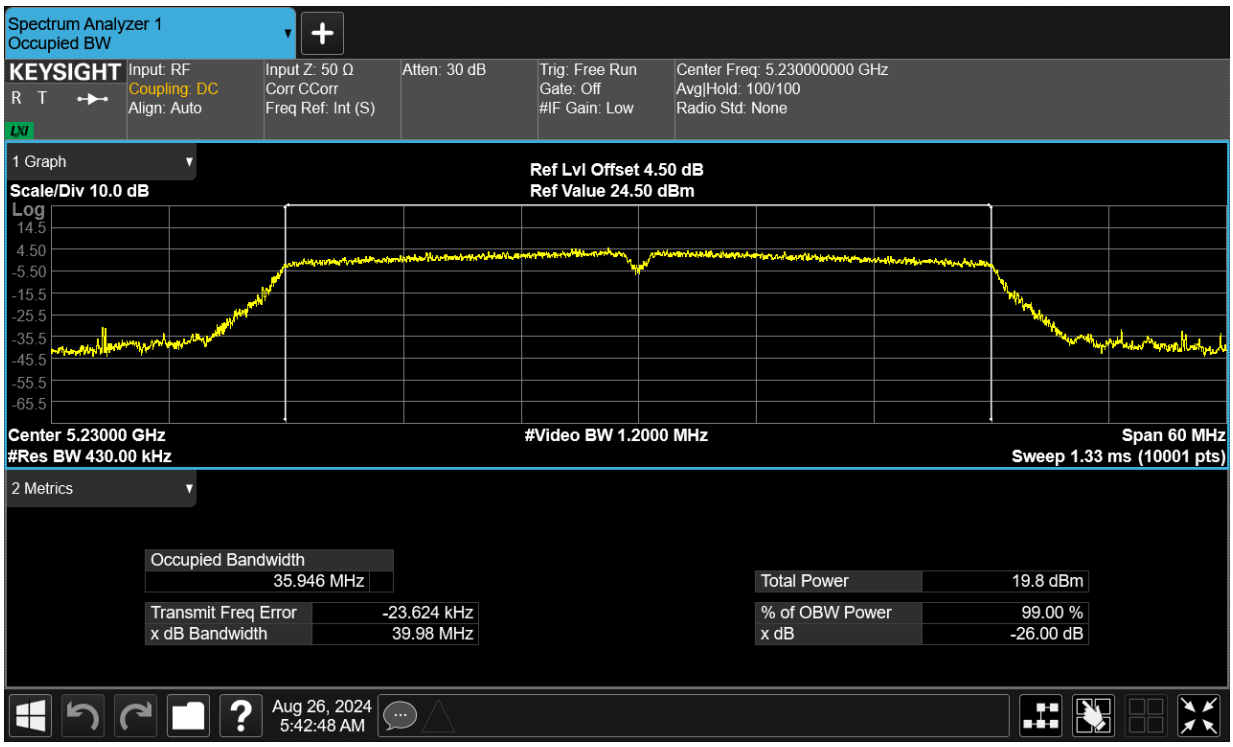
OBW NVNT ac20 5240MHz Ant1



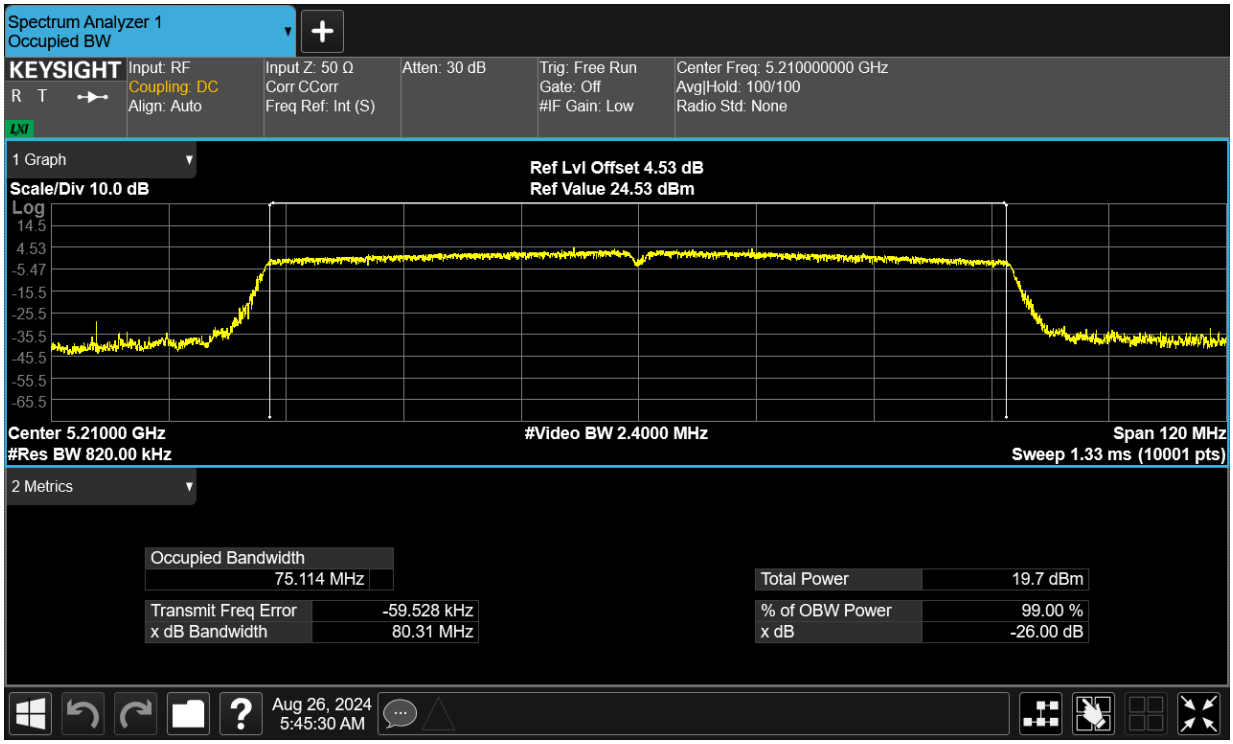
OBW NVNT ac40 5190MHz Ant1



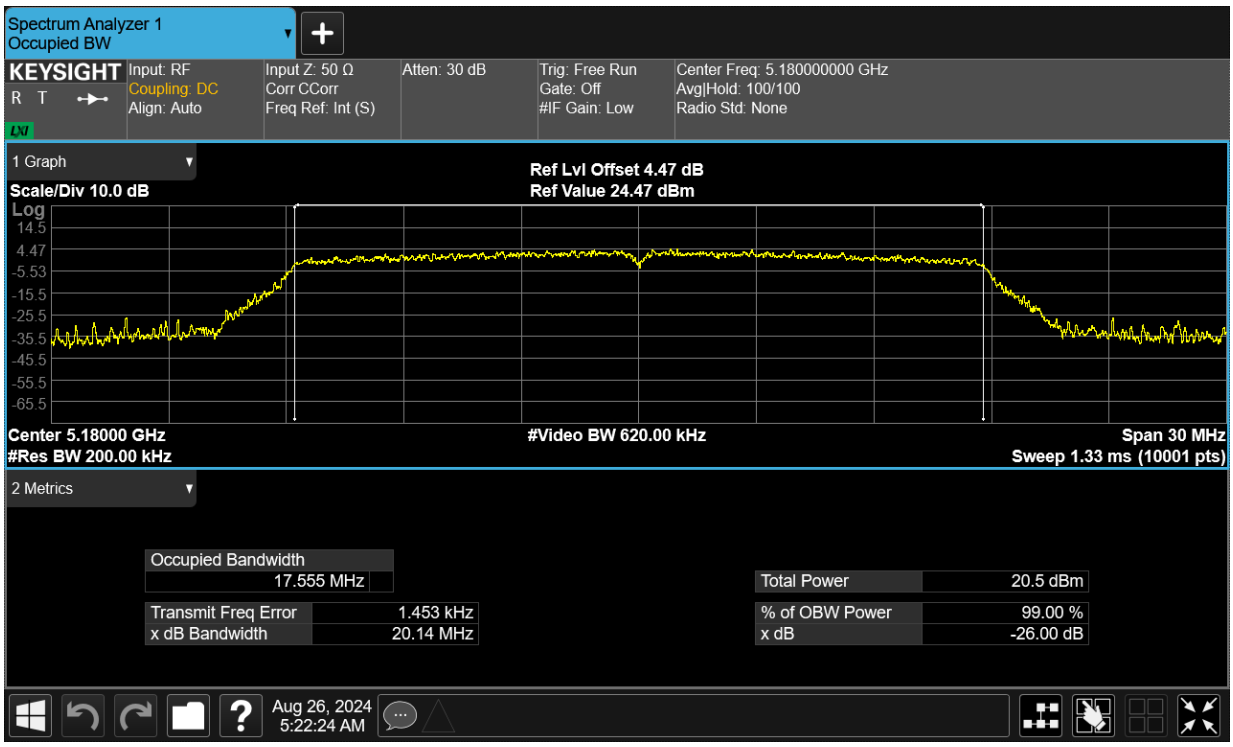
OBW NVNT ac40 5230MHz Ant1



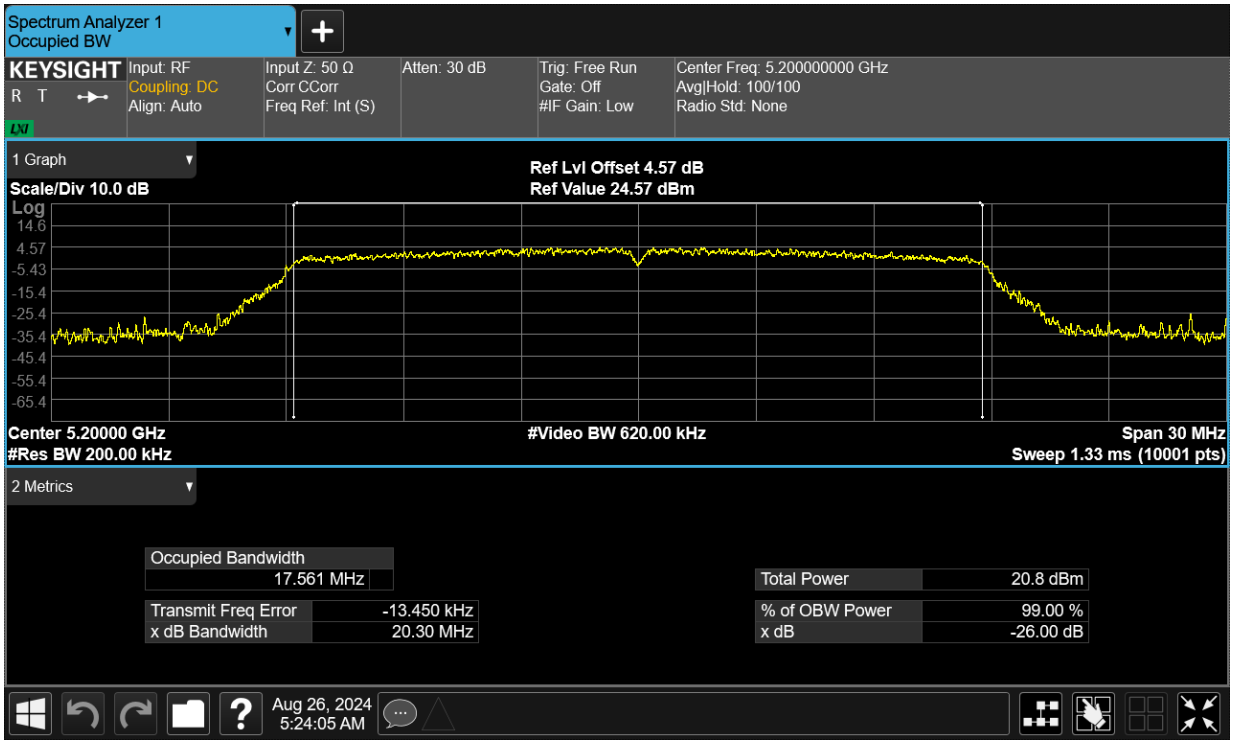
OBW NVNT ac80 5210MHz Ant1



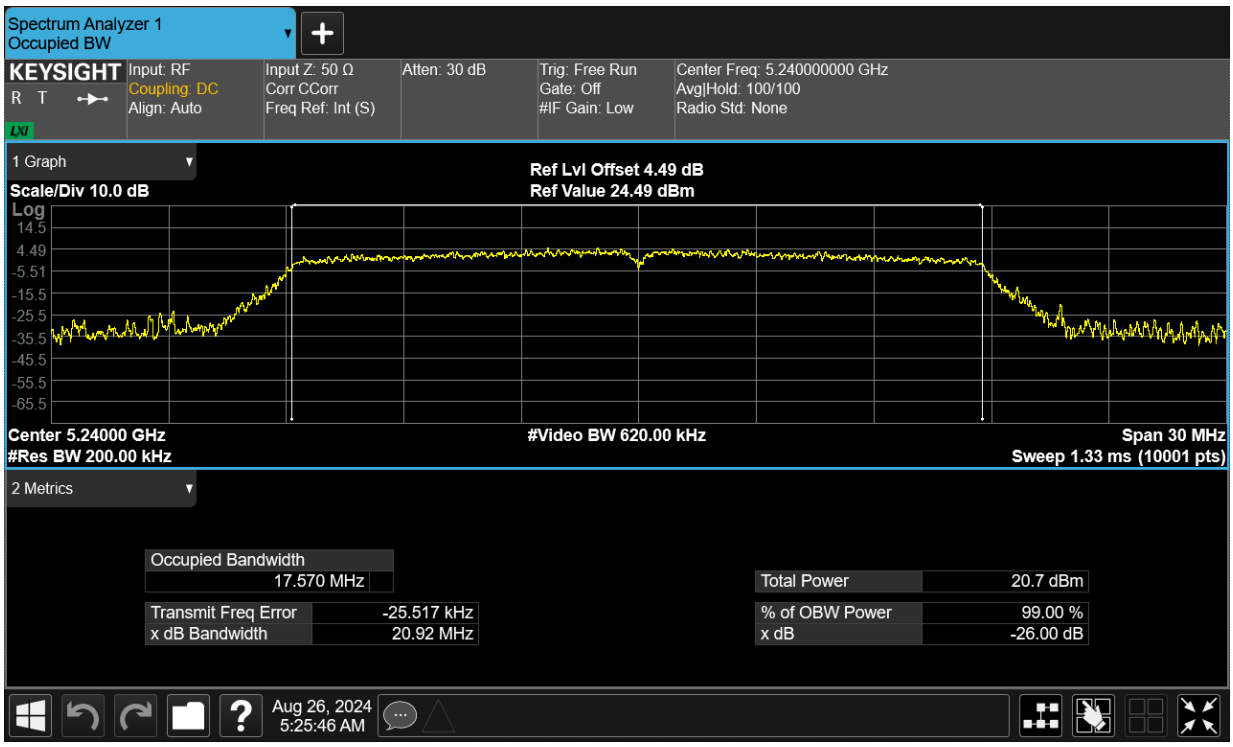
OBW NVNT n20 5180MHz Ant1



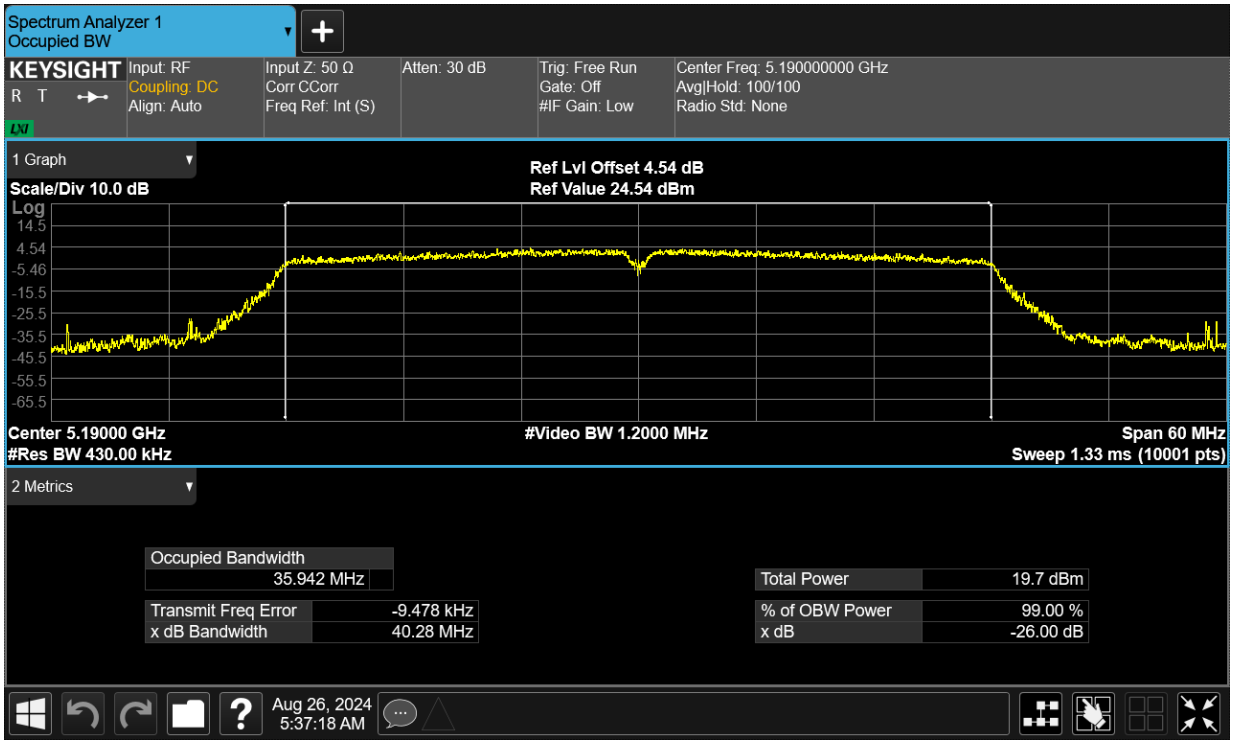
OBW NVNT n20 5200MHz Ant1



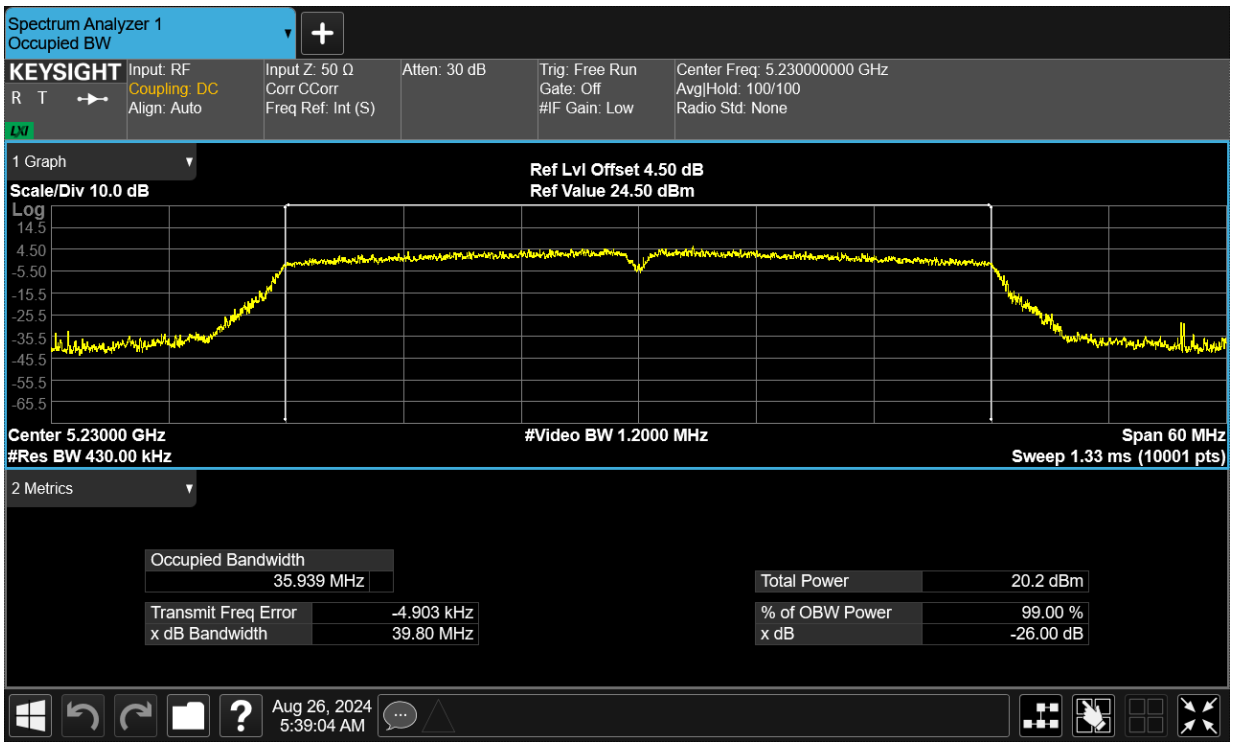
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

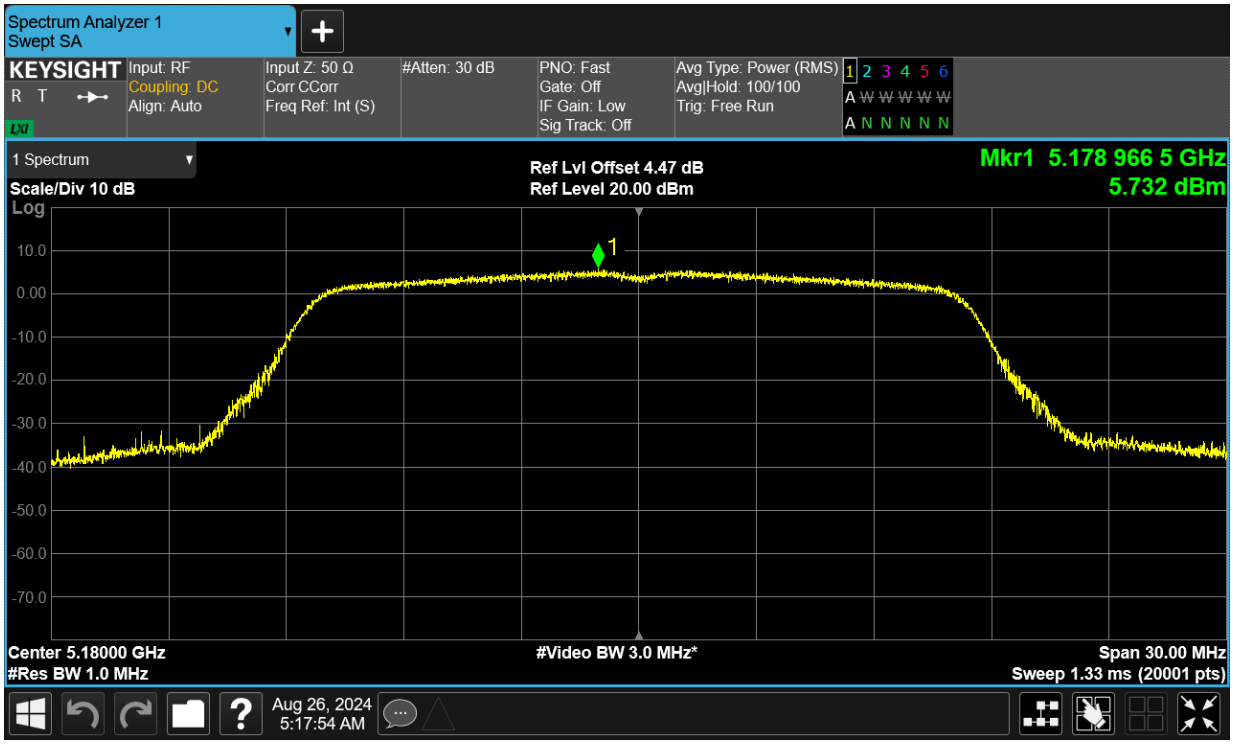


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.732	11	Pass
NVNT	a	5200	Ant1	6.237	11	Pass
NVNT	a	5240	Ant1	6.152	11	Pass
NVNT	ac20	5180	Ant1	3.847	11	Pass
NVNT	ac20	5200	Ant1	3.995	11	Pass
NVNT	ac20	5240	Ant1	3.739	11	Pass
NVNT	ac40	5190	Ant1	1.496	11	Pass
NVNT	ac40	5230	Ant1	1.618	11	Pass
NVNT	ac80	5210	Ant1	-2.507	11	Pass
NVNT	n20	5180	Ant1	5.375	11	Pass
NVNT	n20	5200	Ant1	5.272	11	Pass
NVNT	n20	5240	Ant1	5.395	11	Pass
NVNT	n40	5190	Ant1	1.723	11	Pass
NVNT	n40	5230	Ant1	1.905	11	Pass

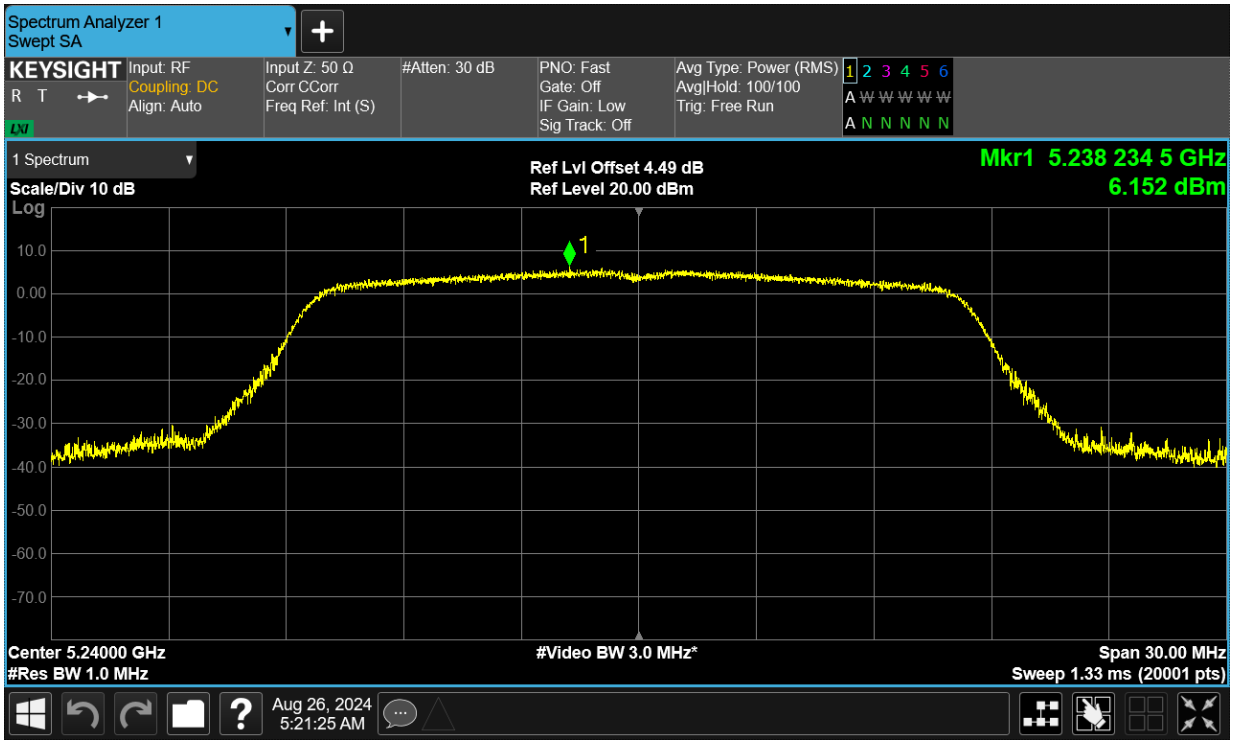
Test Graphs

PSD NVNT a 5180MHz Ant1

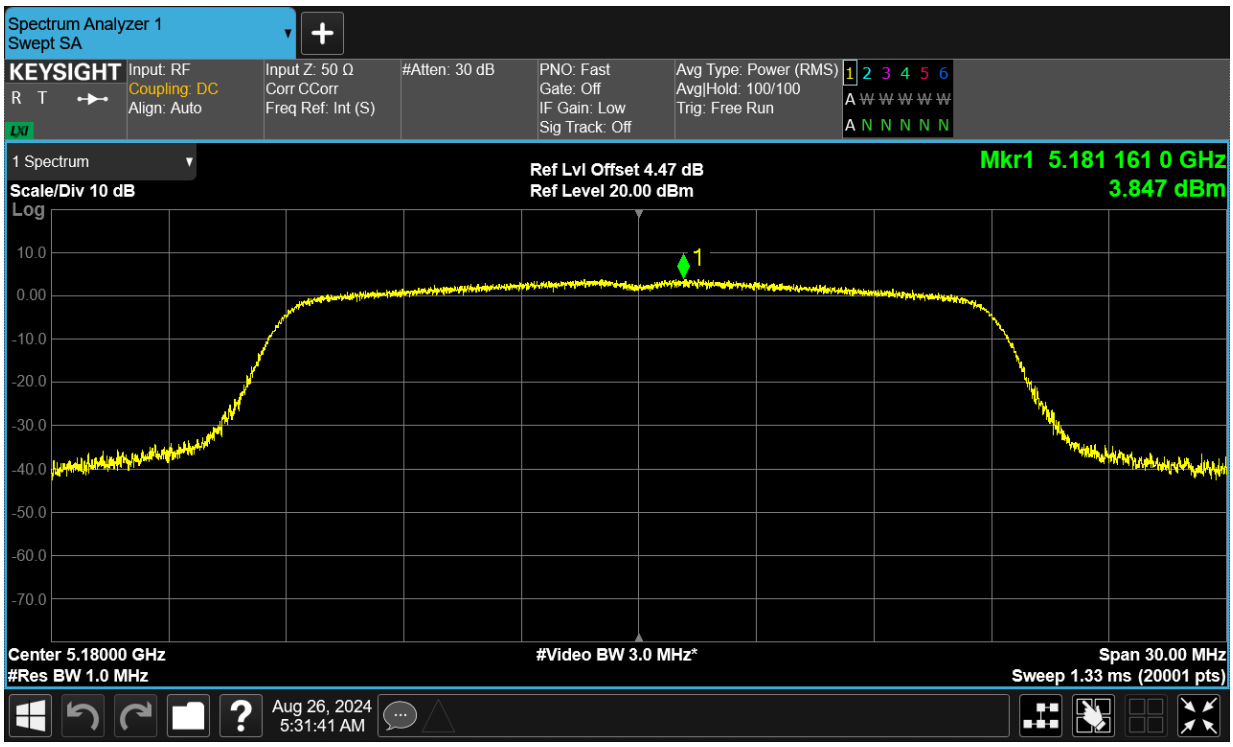


PSD NVNT a 5200MHz Ant1

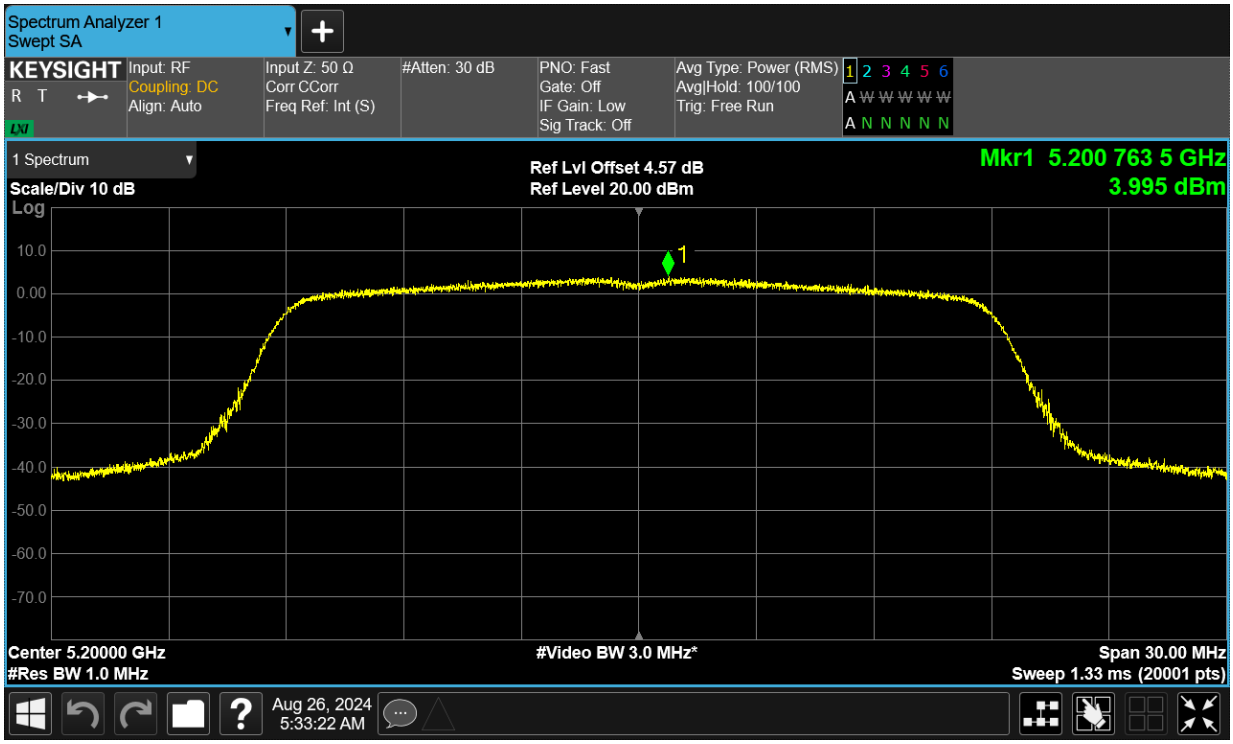
PSD NVNT a 5240MHz Ant1



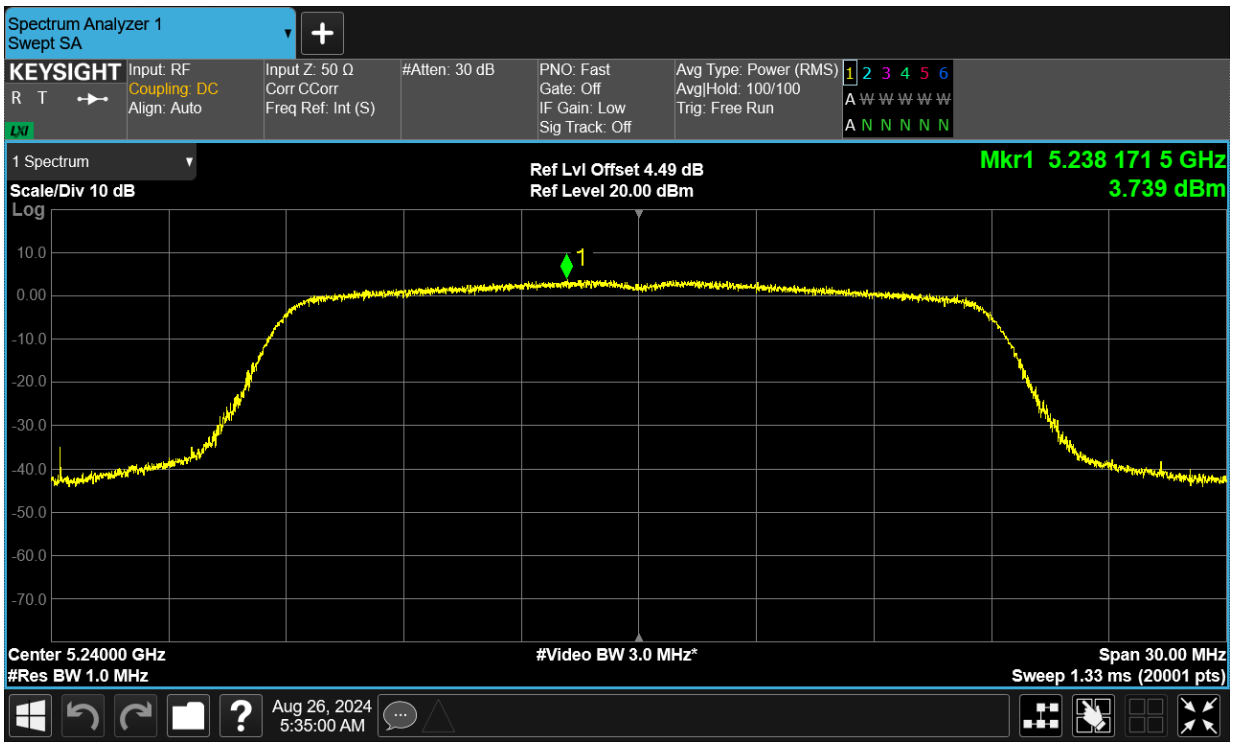
PSD NVNT ac20 5180MHz Ant1



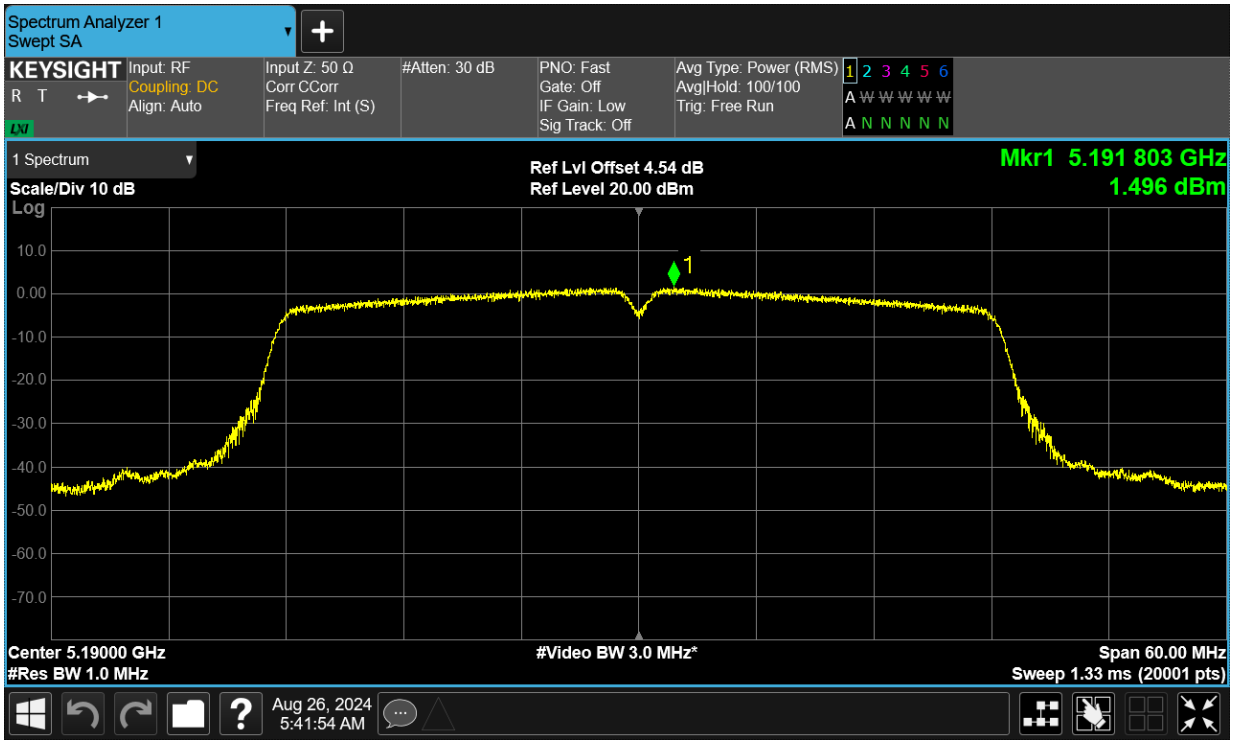
PSD NVNT ac20 5200MHz Ant1



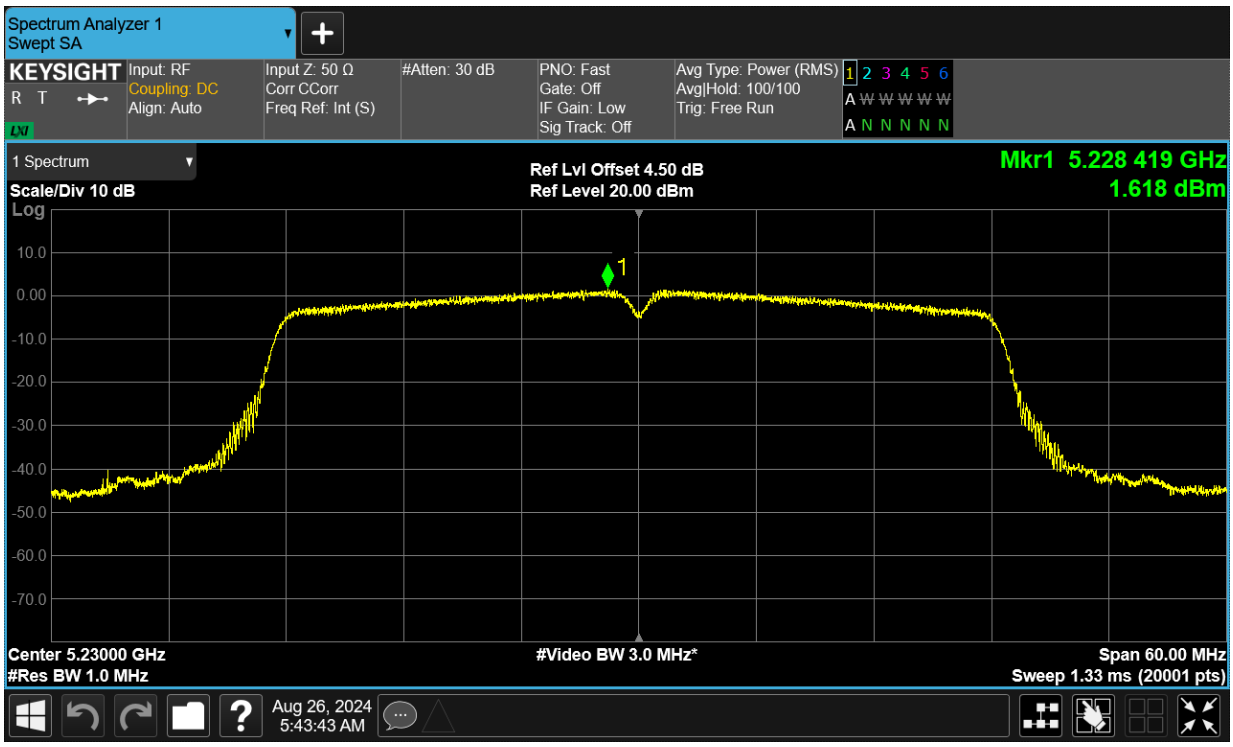
PSD NVNT ac20 5240MHz Ant1



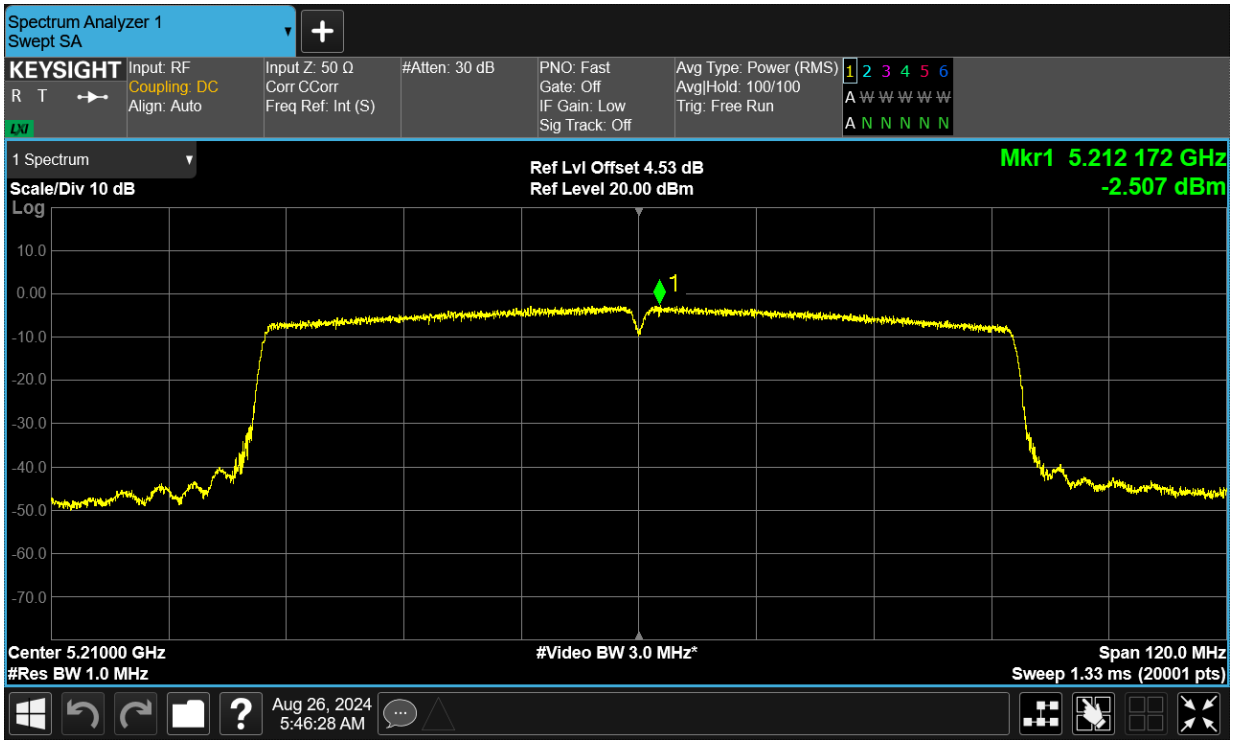
PSD NVNT ac40 5190MHz Ant1



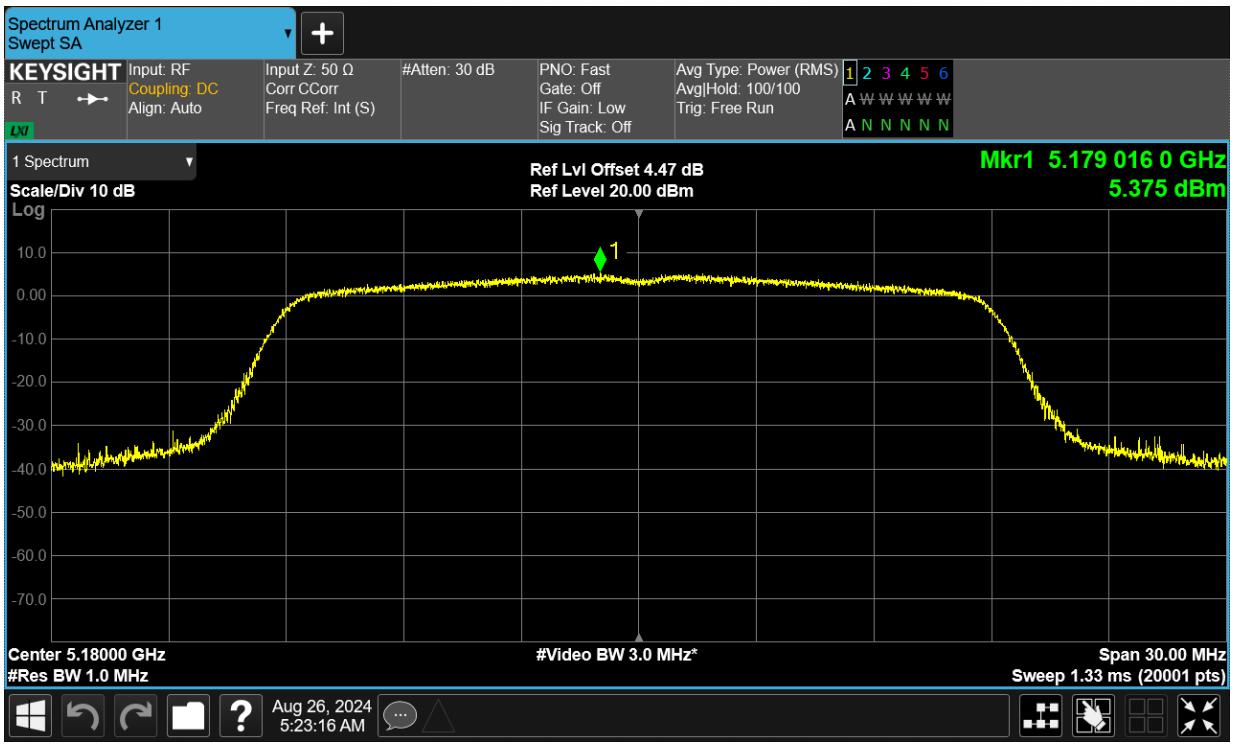
PSD NVNT ac40 5230MHz Ant1



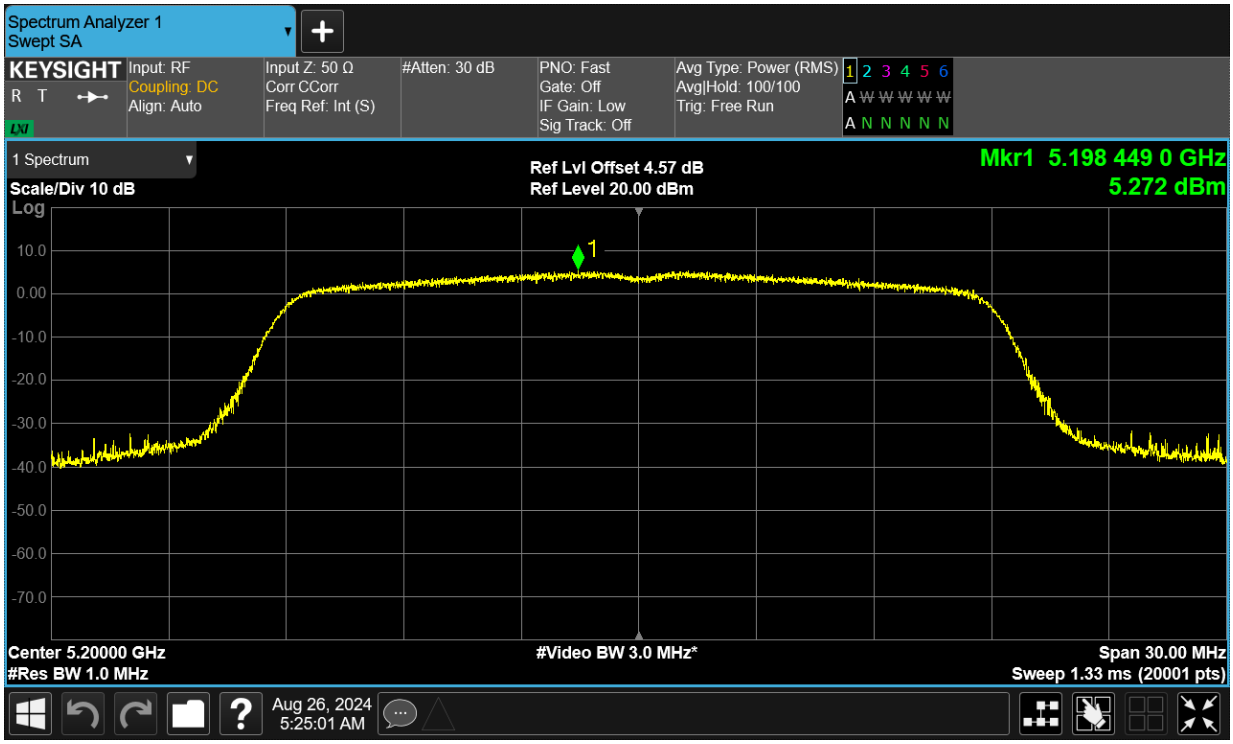
PSD NVNT ac80 5210MHz Ant1



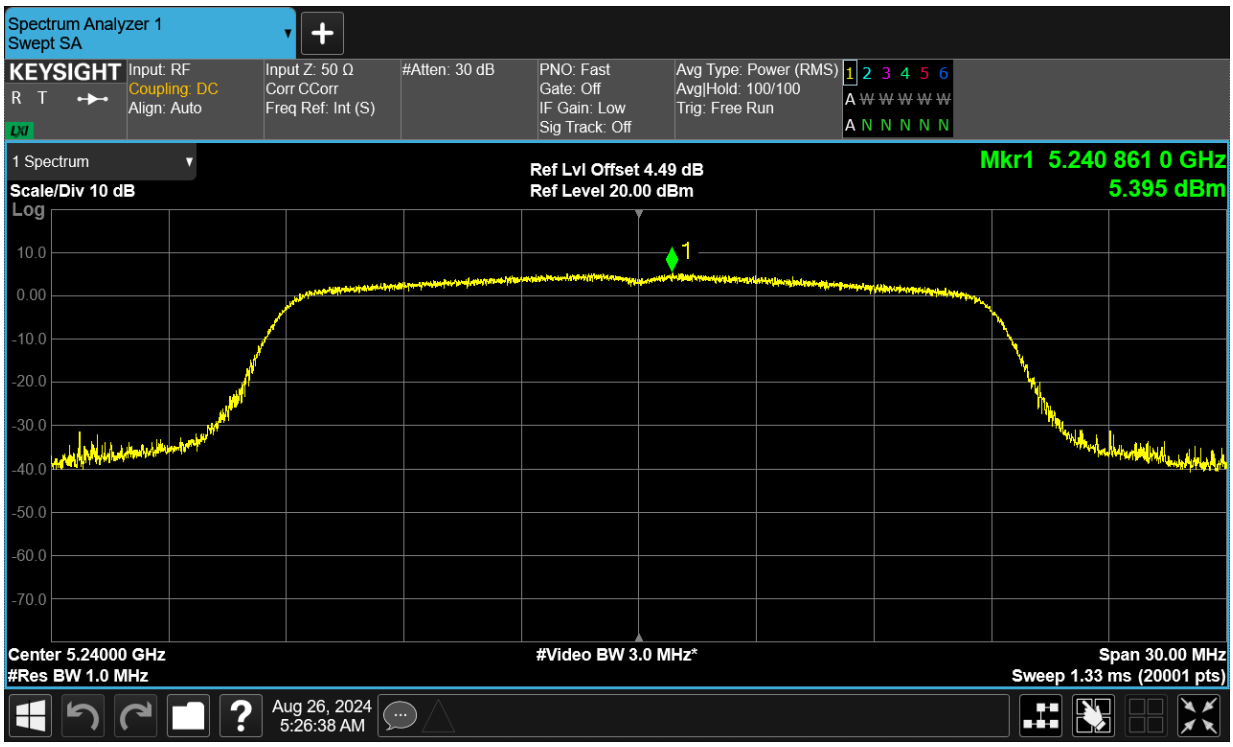
PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



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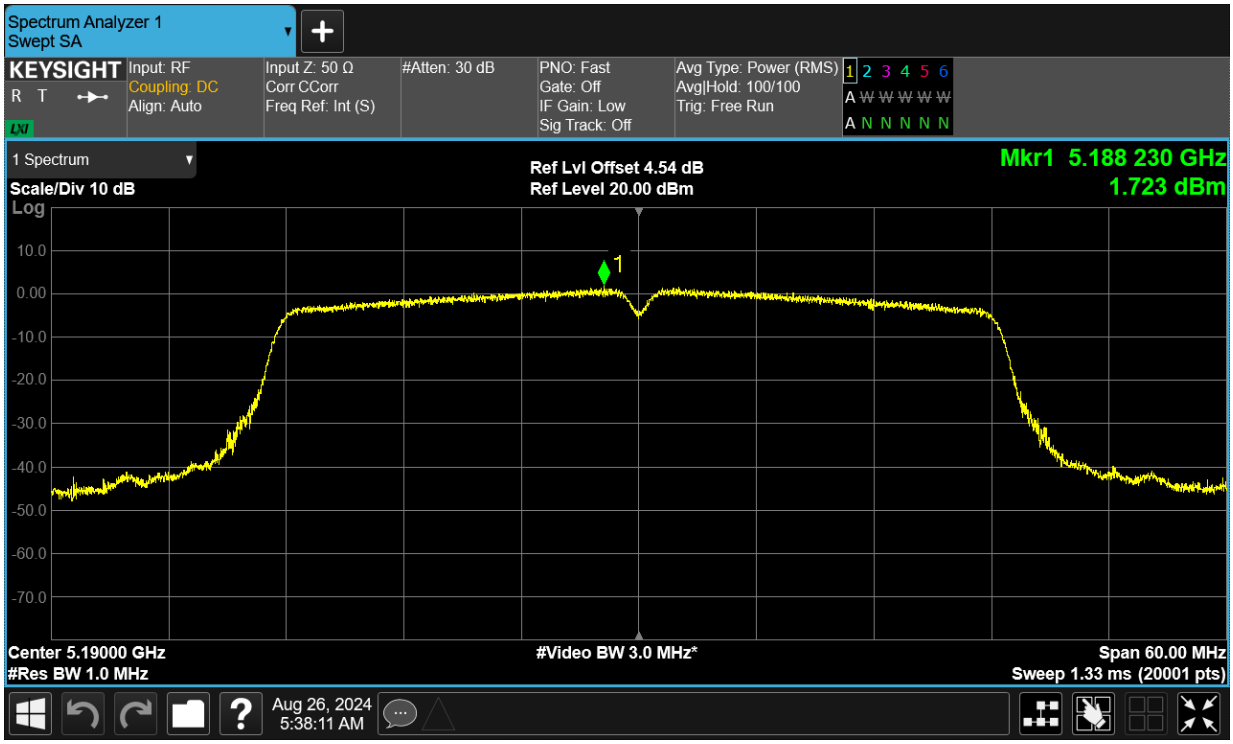
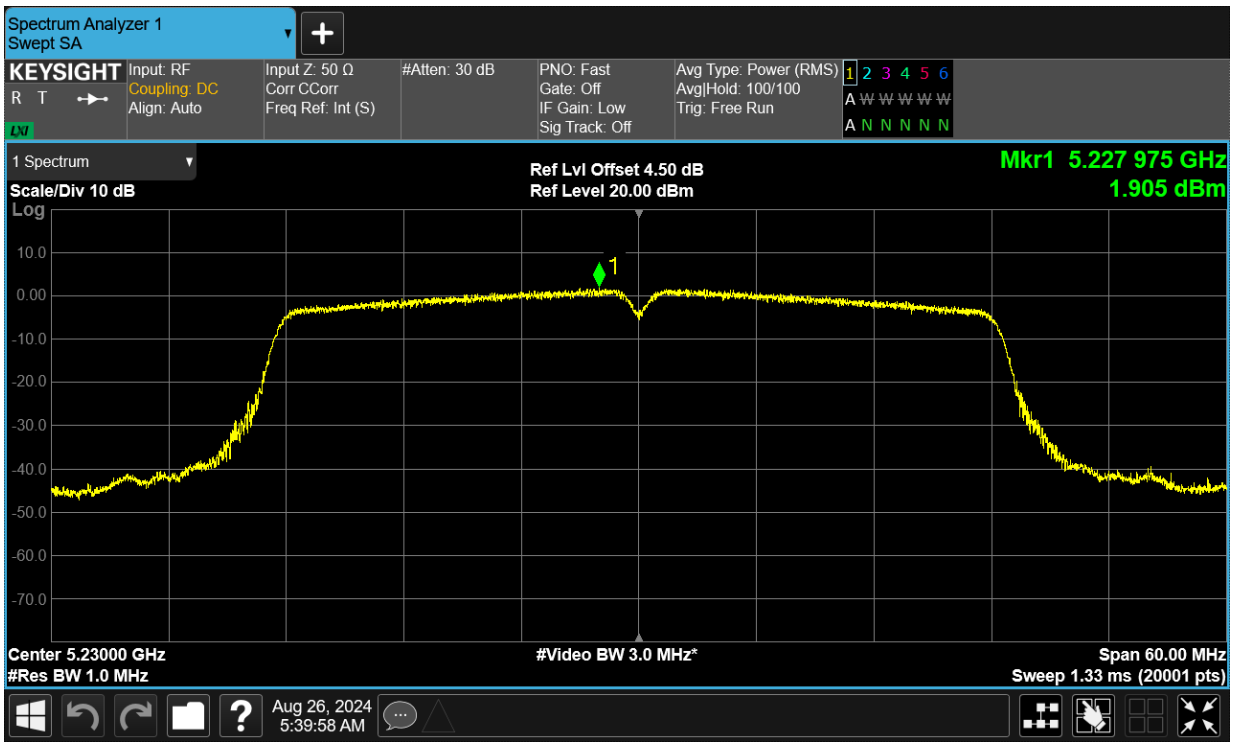
PSD NVNT n40 5230MHz Ant1