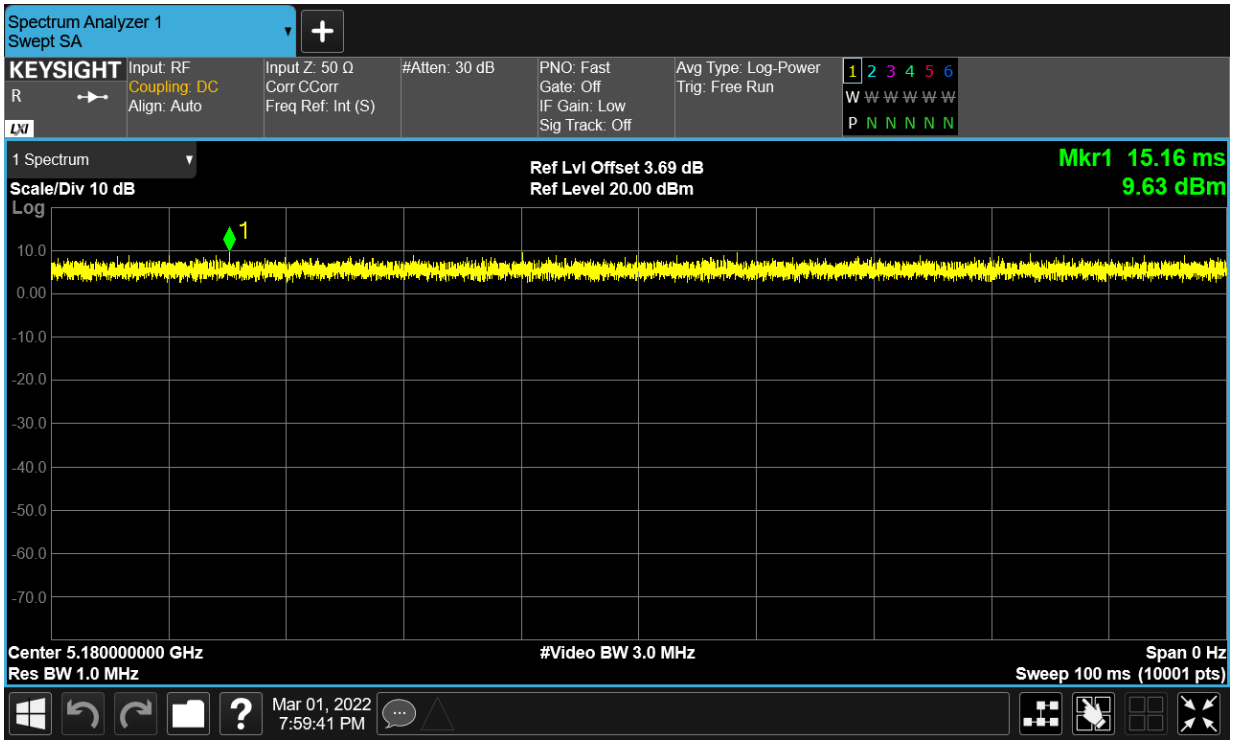
Test Data

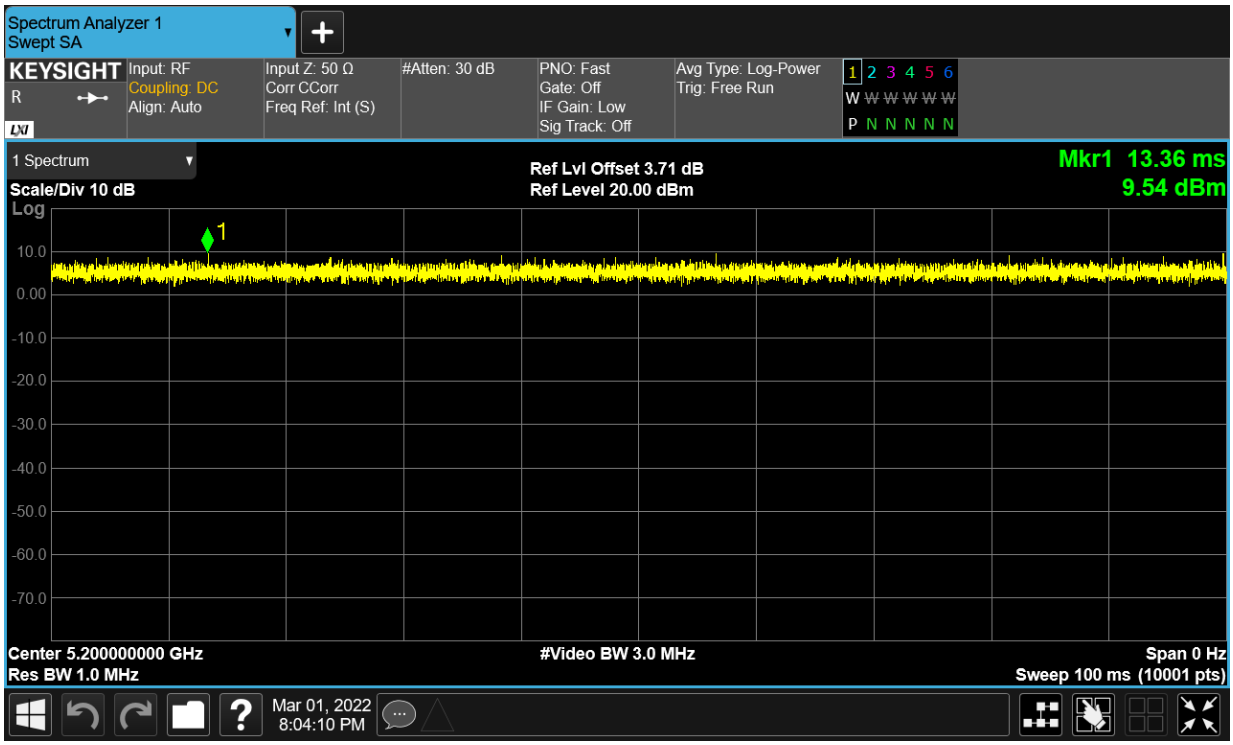
Duty Cycle

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

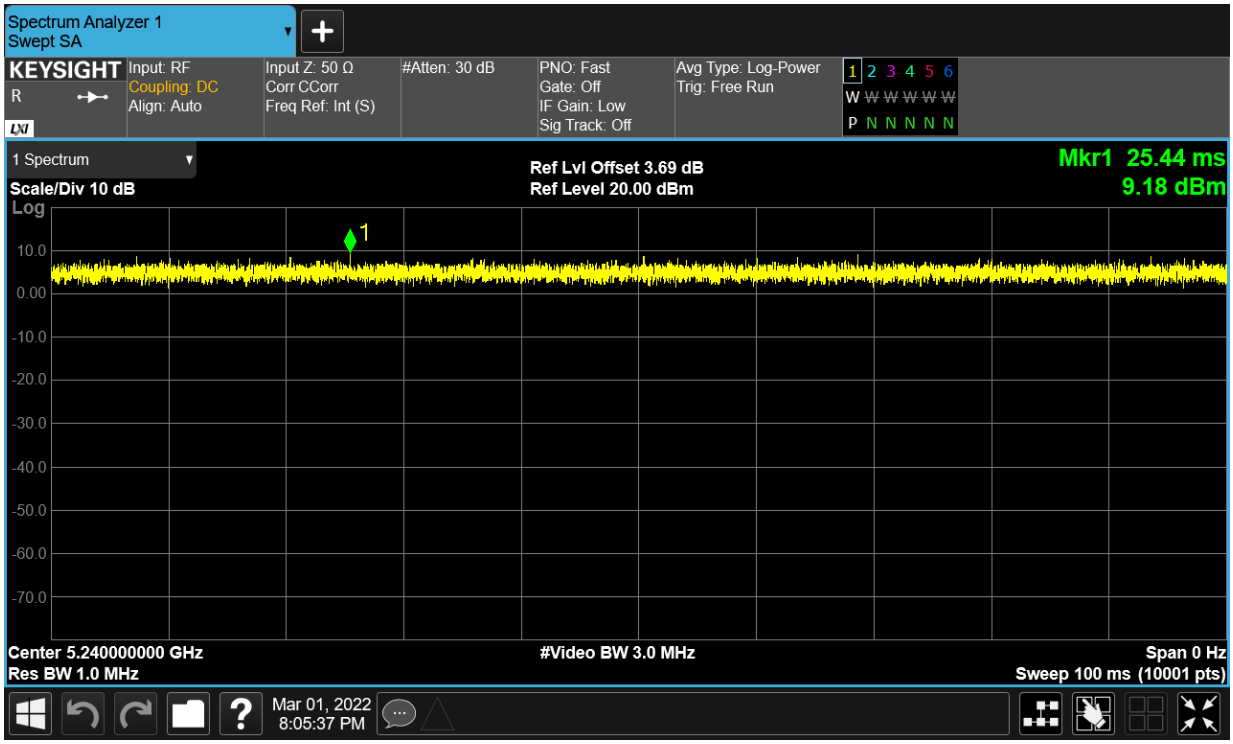
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



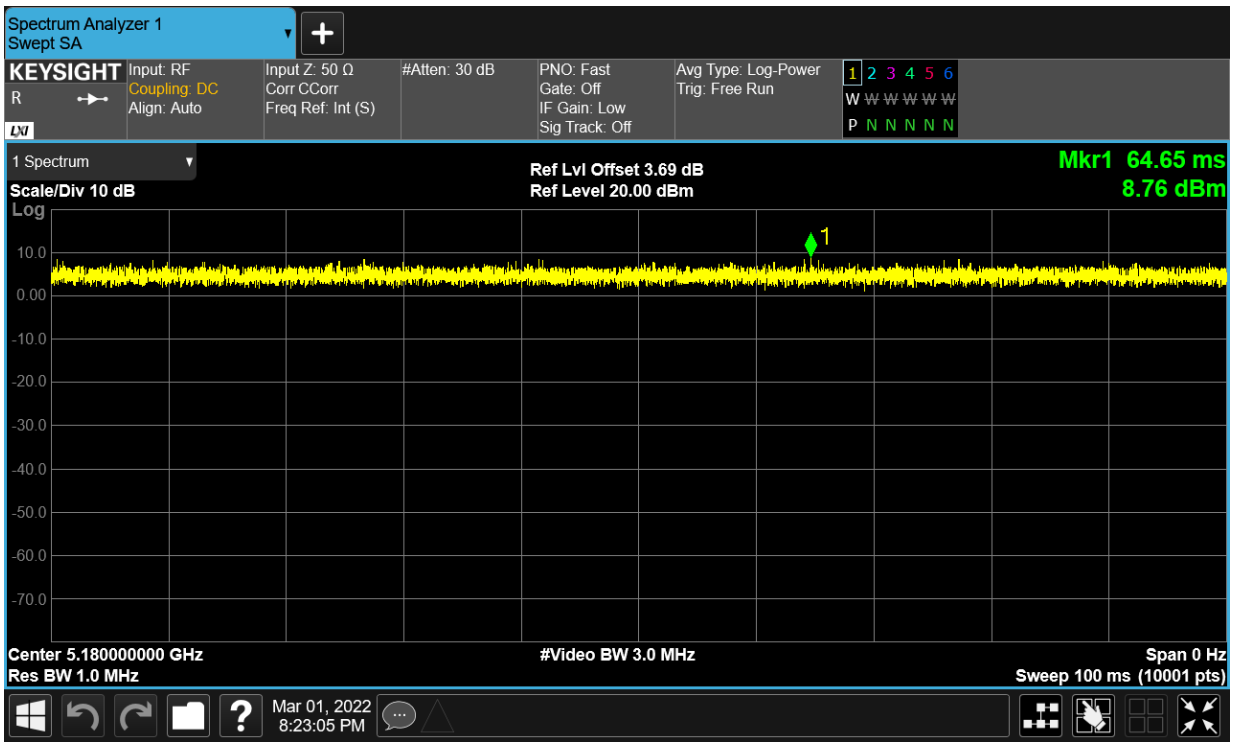
Duty Cycle NVNT a 5200MHz Ant1



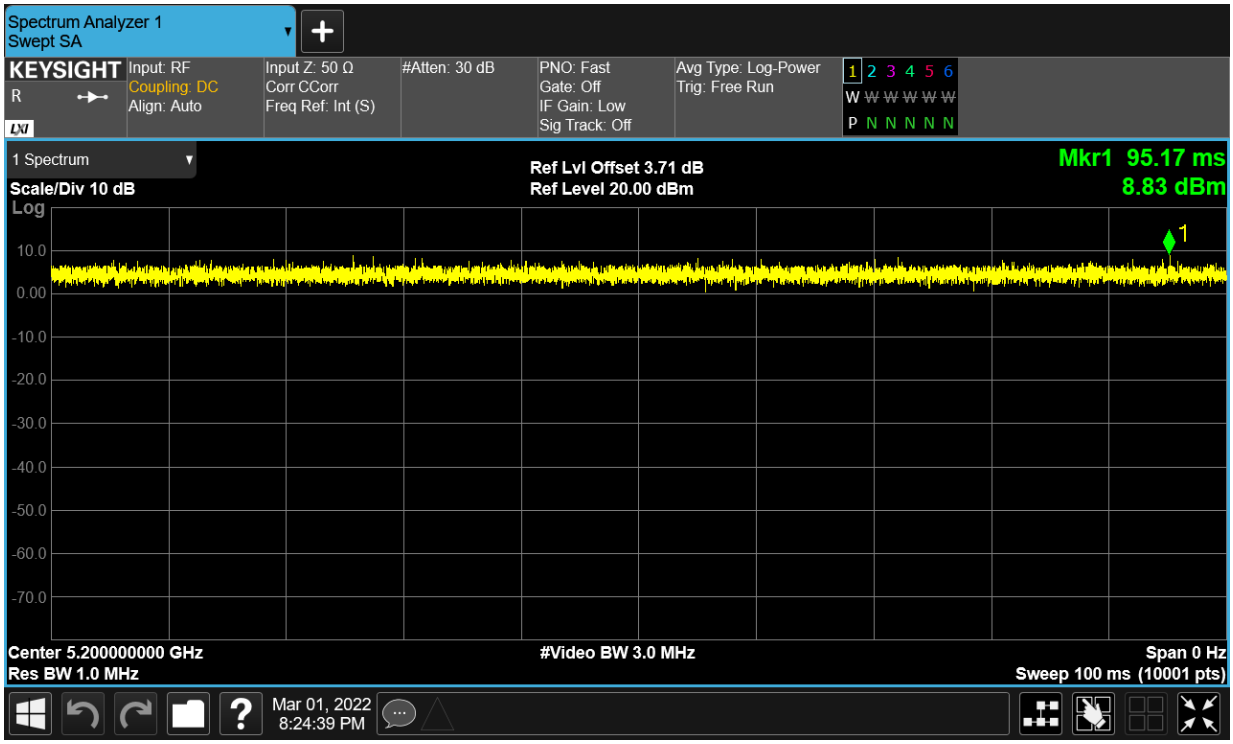
Duty Cycle NVNT a 5240MHz Ant1



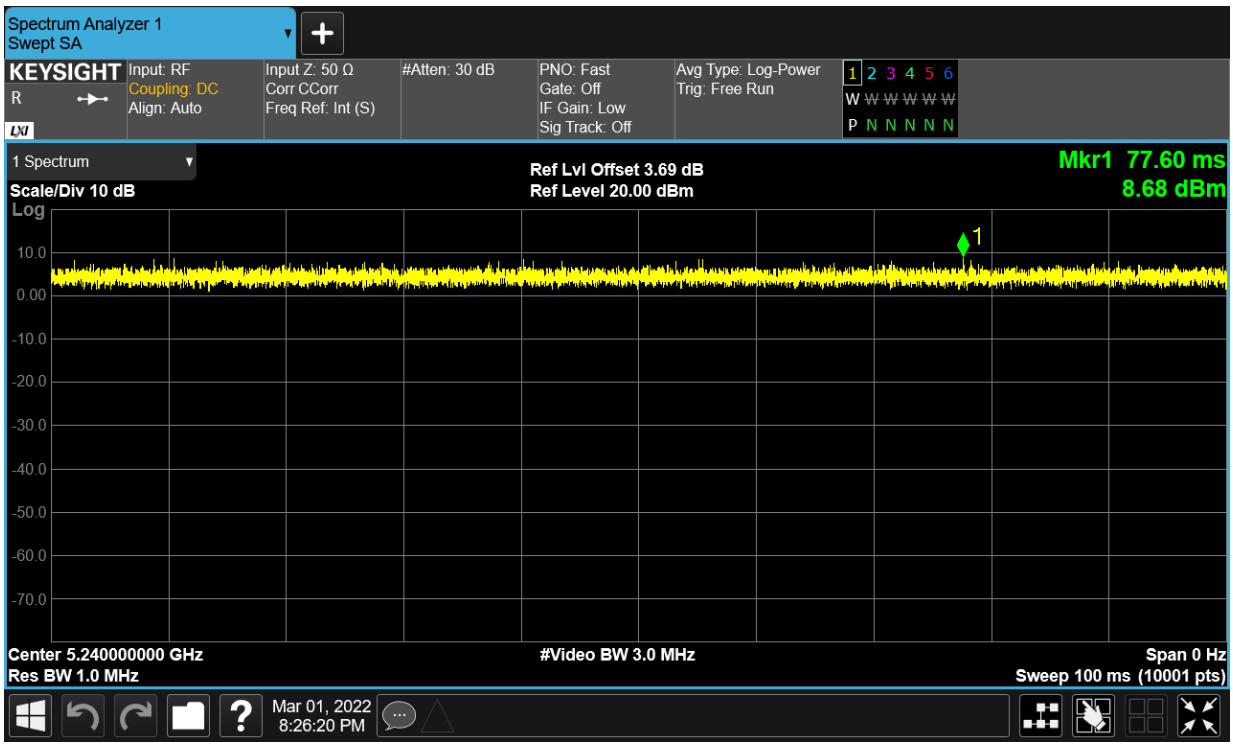
Duty Cycle NVNT ac20 5180MHz Ant1



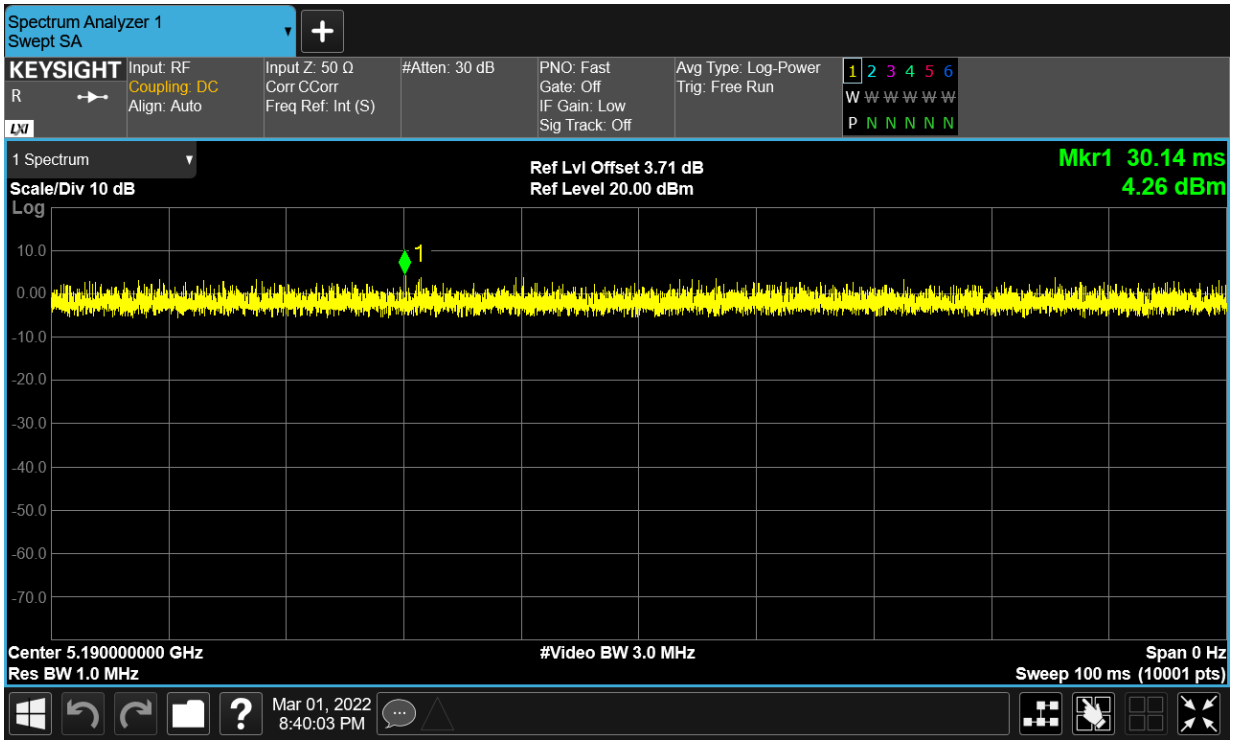
Duty Cycle NVNT ac20 5200MHz Ant1



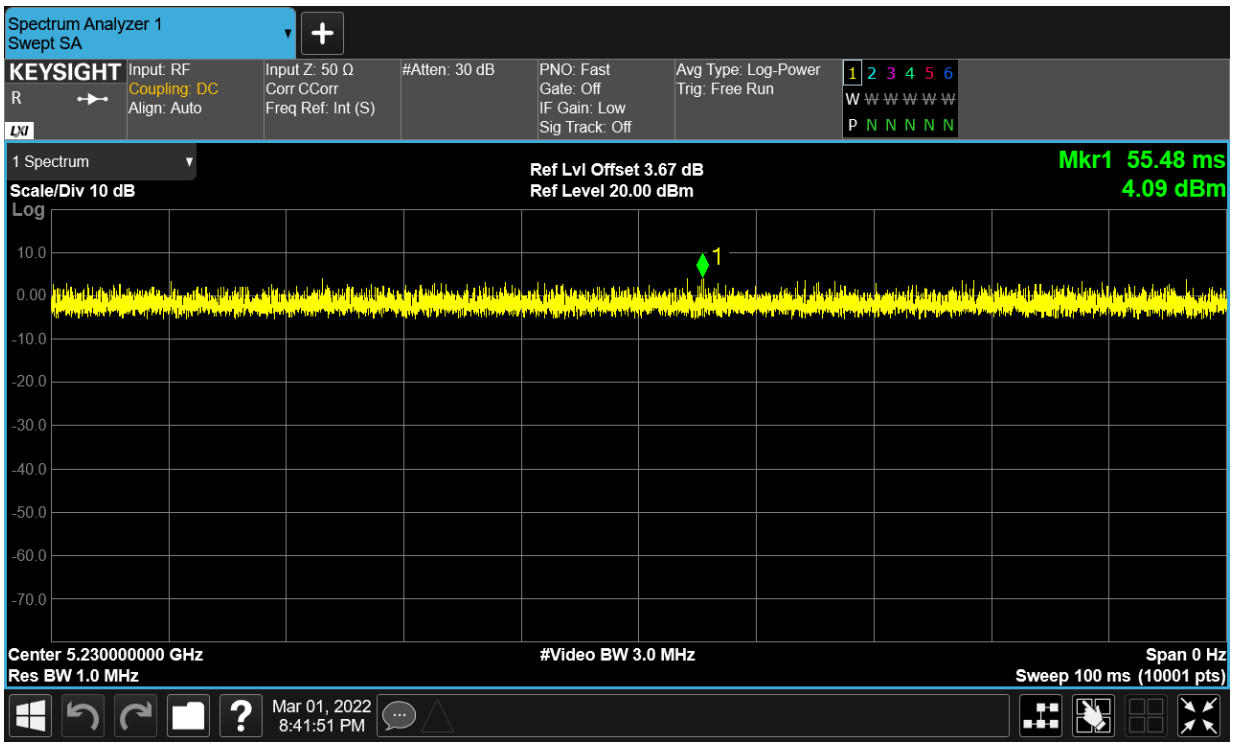
Duty Cycle NVNT ac20 5240MHz Ant1



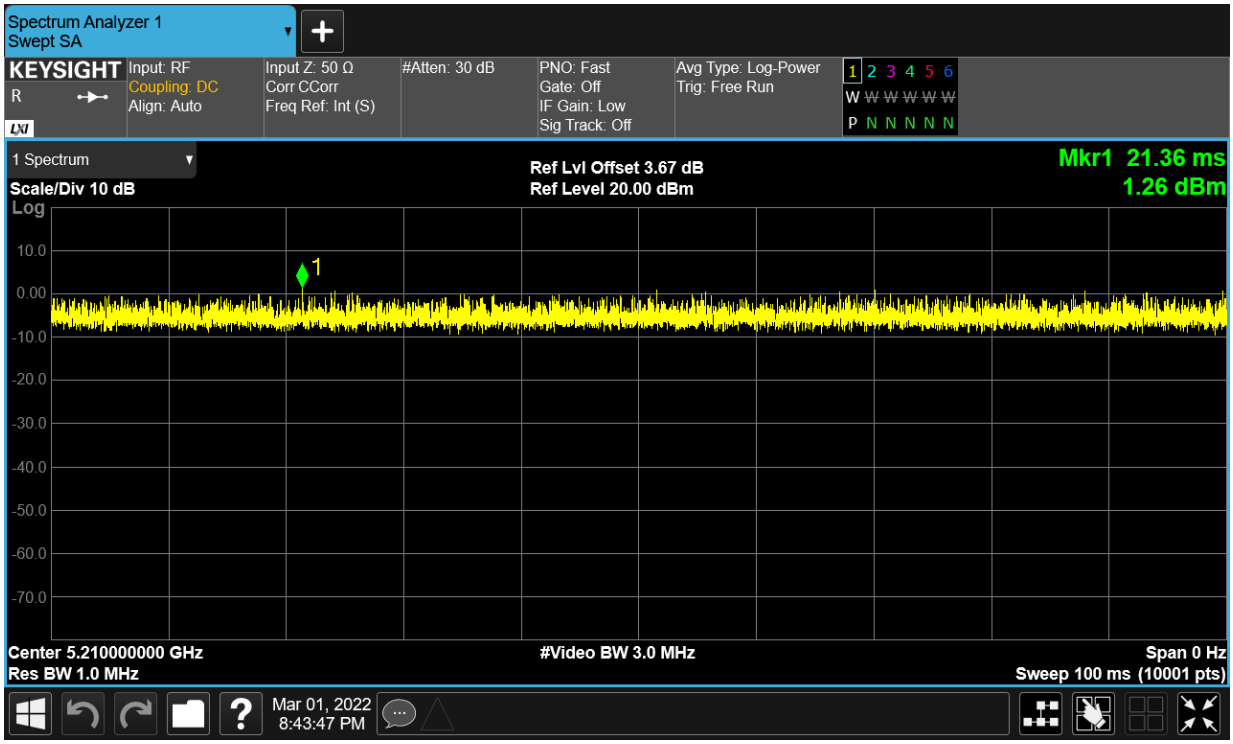
Duty Cycle NVNT ac40 5190MHz Ant1



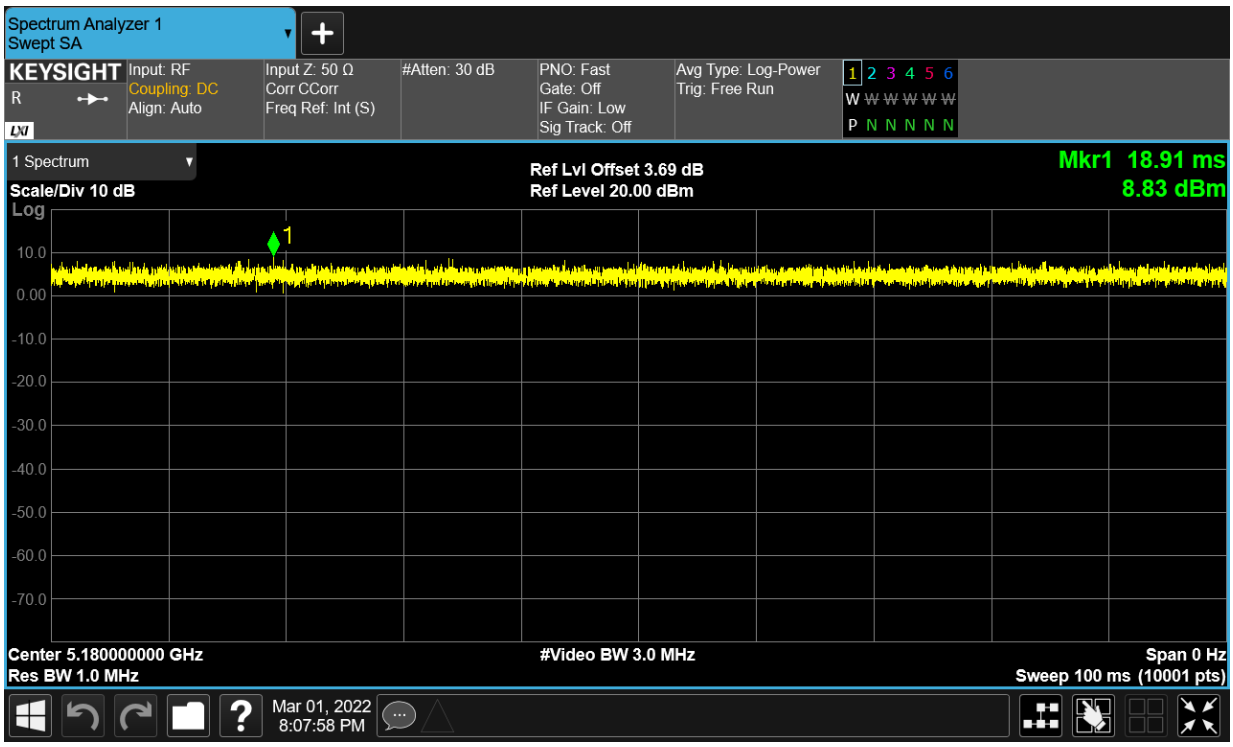
Duty Cycle NVNT ac40 5230MHz Ant1



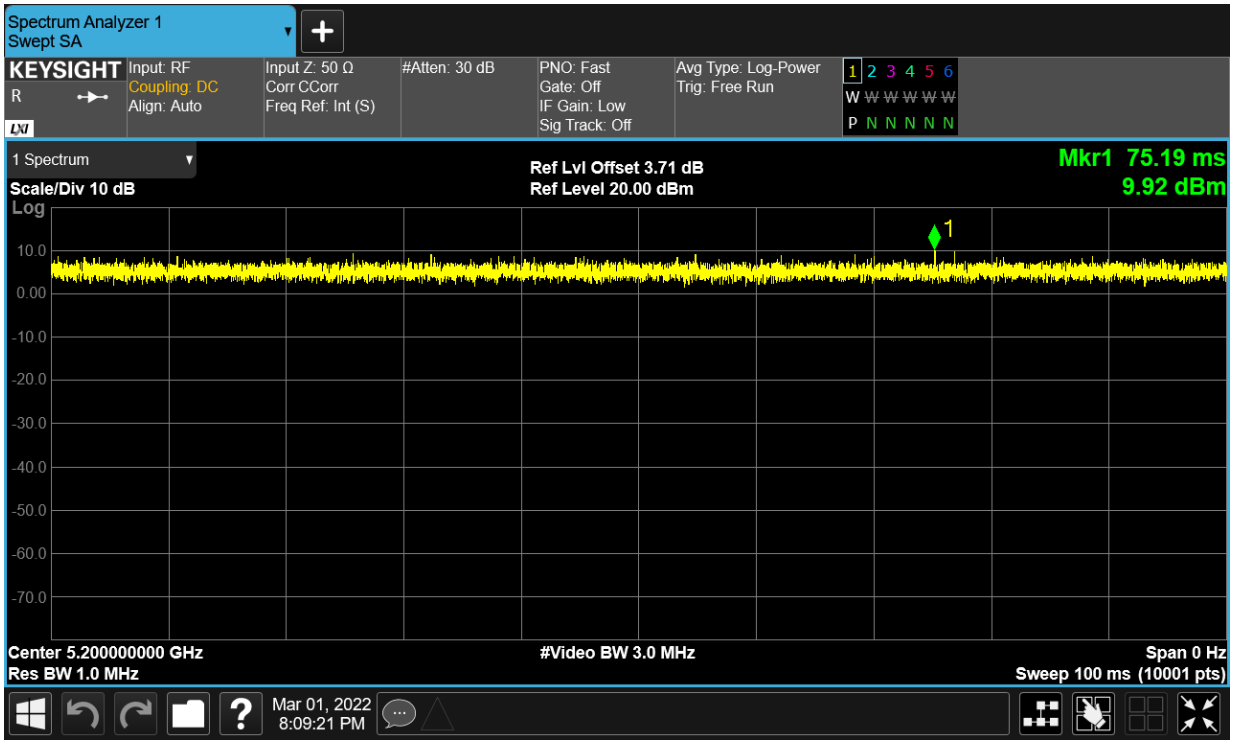
Duty Cycle NVNT ac80 5210MHz Ant1



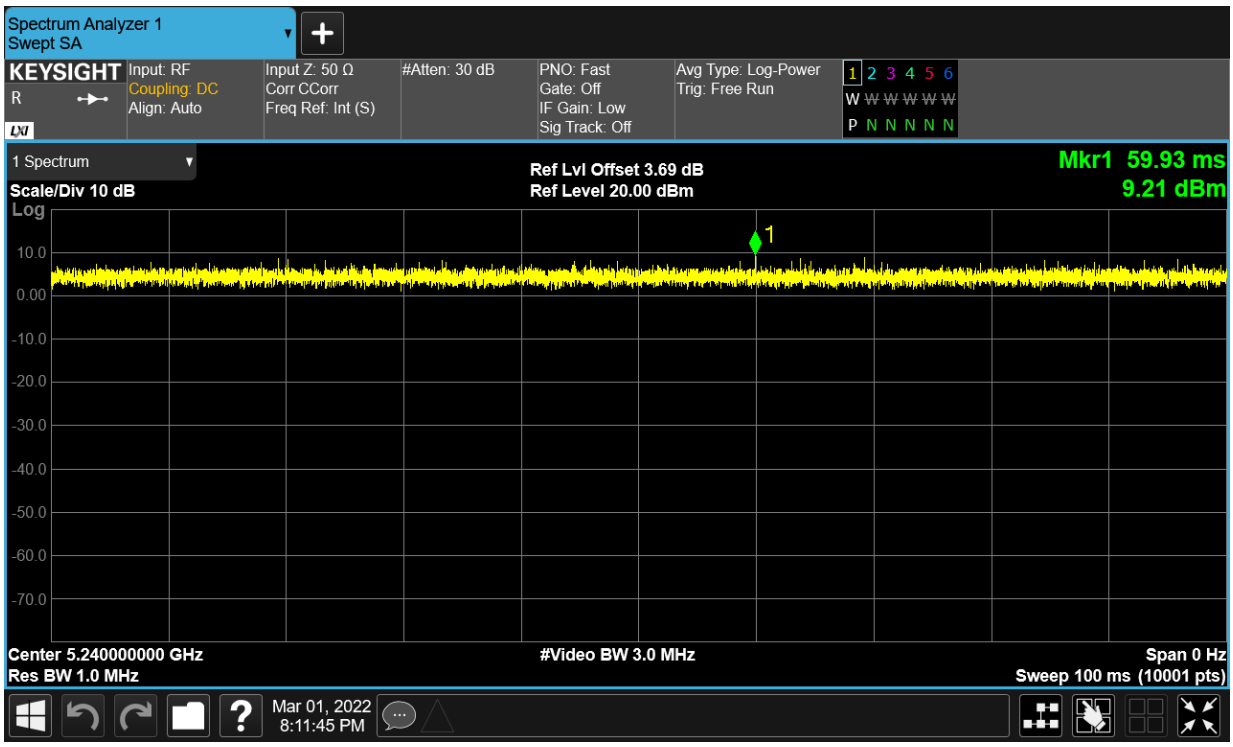
Duty Cycle NVNT n20 5180MHz Ant1



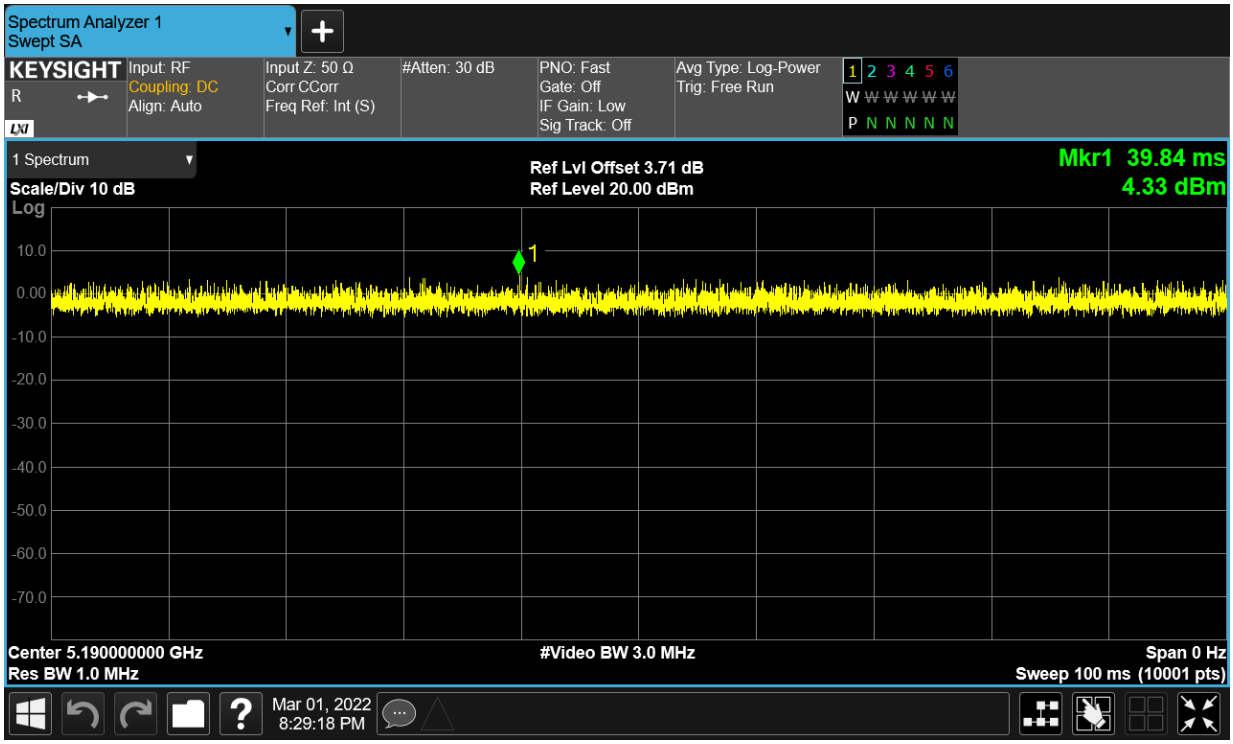
Duty Cycle NVNT n20 5200MHz Ant1



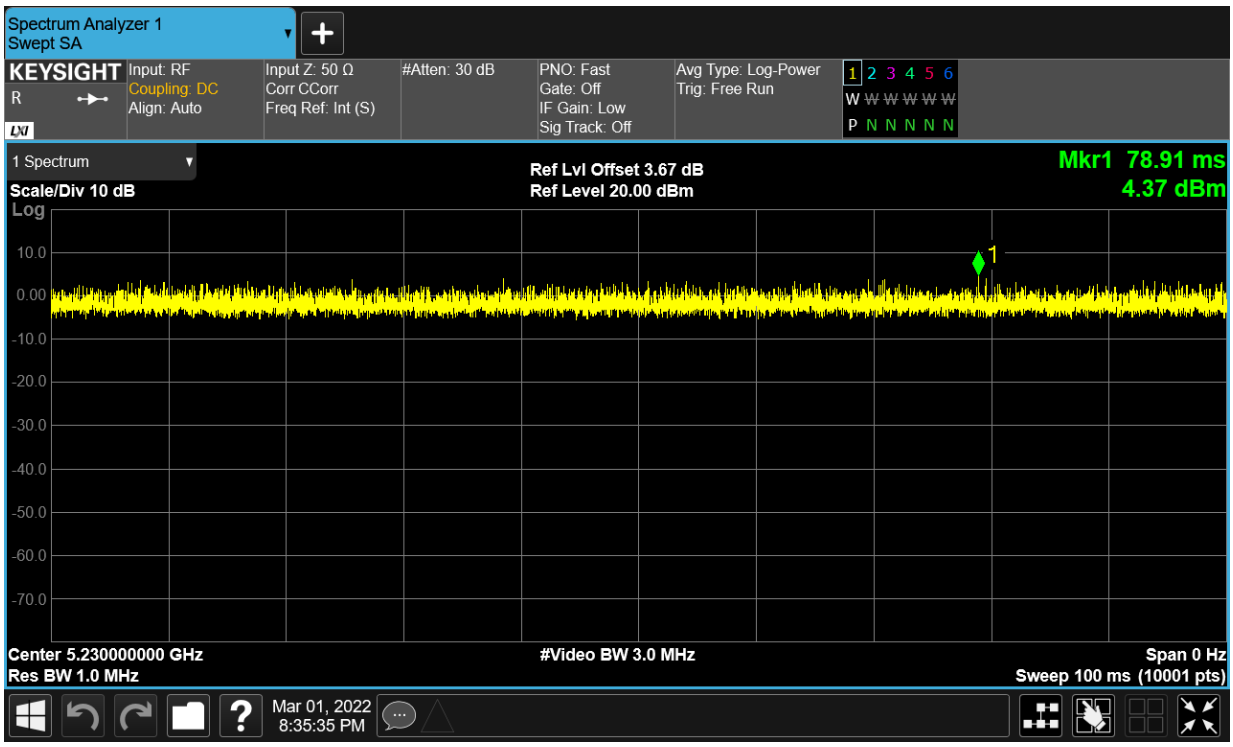
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



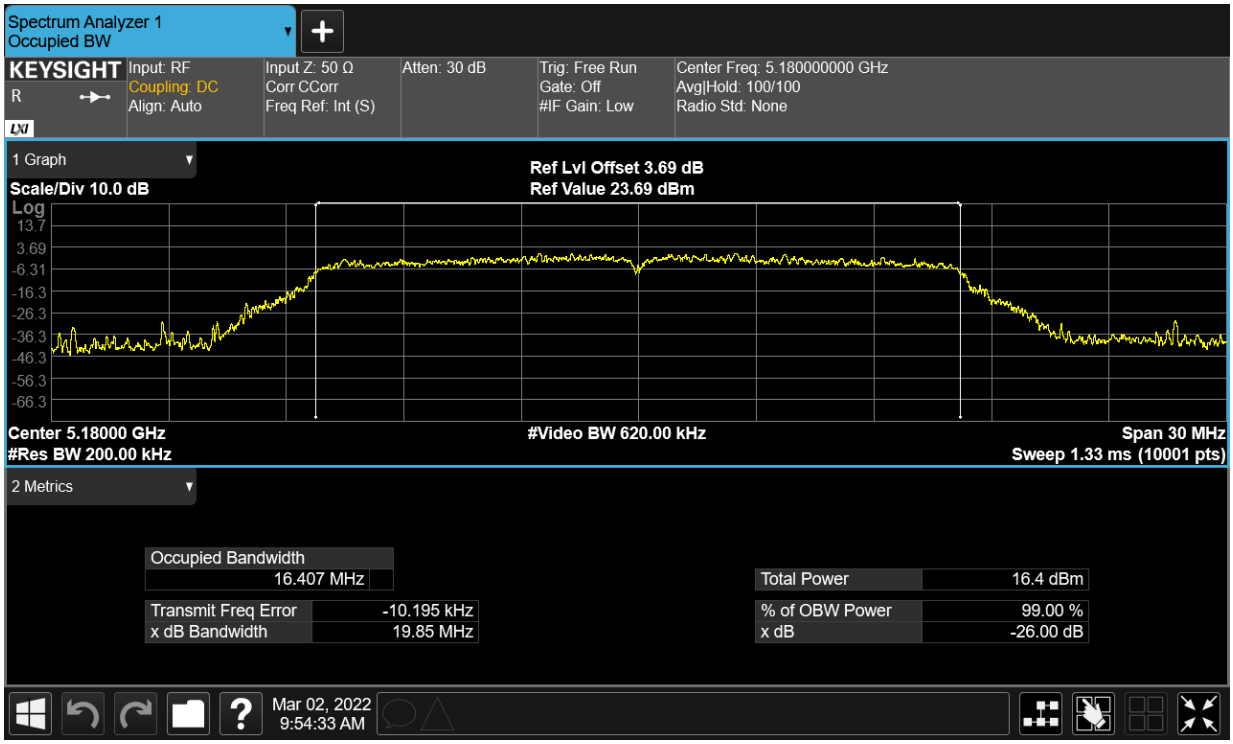
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.27	0	11.27	24	Pass
NVNT	a	5200	Ant1	11.24	0	11.24	24	Pass
NVNT	a	5240	Ant1	11.21	0	11.21	24	Pass
NVNT	ac20	5180	Ant1	11.16	0	11.16	24	Pass
NVNT	ac20	5200	Ant1	11.04	0	11.04	24	Pass
NVNT	ac20	5240	Ant1	10.97	0	10.97	24	Pass
NVNT	ac40	5190	Ant1	10.98	0	10.98	24	Pass
NVNT	ac40	5230	Ant1	10.84	0	10.84	24	Pass
NVNT	ac80	5210	Ant1	10.71	0	10.71	24	Pass
NVNT	n20	5180	Ant1	11.17	0	11.17	24	Pass
NVNT	n20	5200	Ant1	11.29	0	11.29	24	Pass
NVNT	n20	5240	Ant1	10.93	0	10.93	24	Pass
NVNT	n40	5190	Ant1	11.04	0	11.04	24	Pass
NVNT	n40	5230	Ant1	10.89	0	10.89	24	Pass

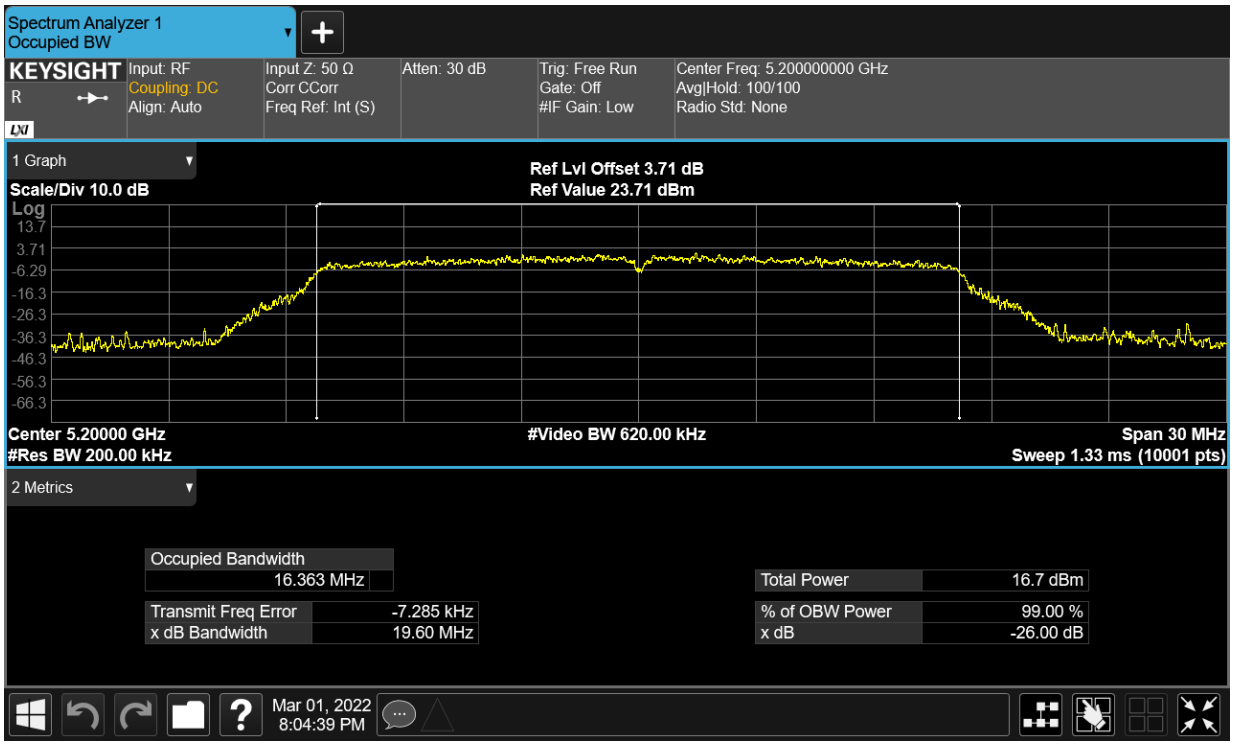
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.40725143
NVNT	a	5200	Ant1	16.36254176
NVNT	a	5240	Ant1	16.40334956
NVNT	ac20	5180	Ant1	17.57168321
NVNT	ac20	5200	Ant1	17.55563917
NVNT	ac20	5240	Ant1	17.55048863
NVNT	ac40	5190	Ant1	35.95840095
NVNT	ac40	5230	Ant1	35.95801429
NVNT	ac80	5210	Ant1	75.22415103
NVNT	n20	5180	Ant1	17.54961584
NVNT	n20	5200	Ant1	17.57113269
NVNT	n20	5240	Ant1	17.55015296
NVNT	n40	5190	Ant1	35.97968246
NVNT	n40	5230	Ant1	35.97284772

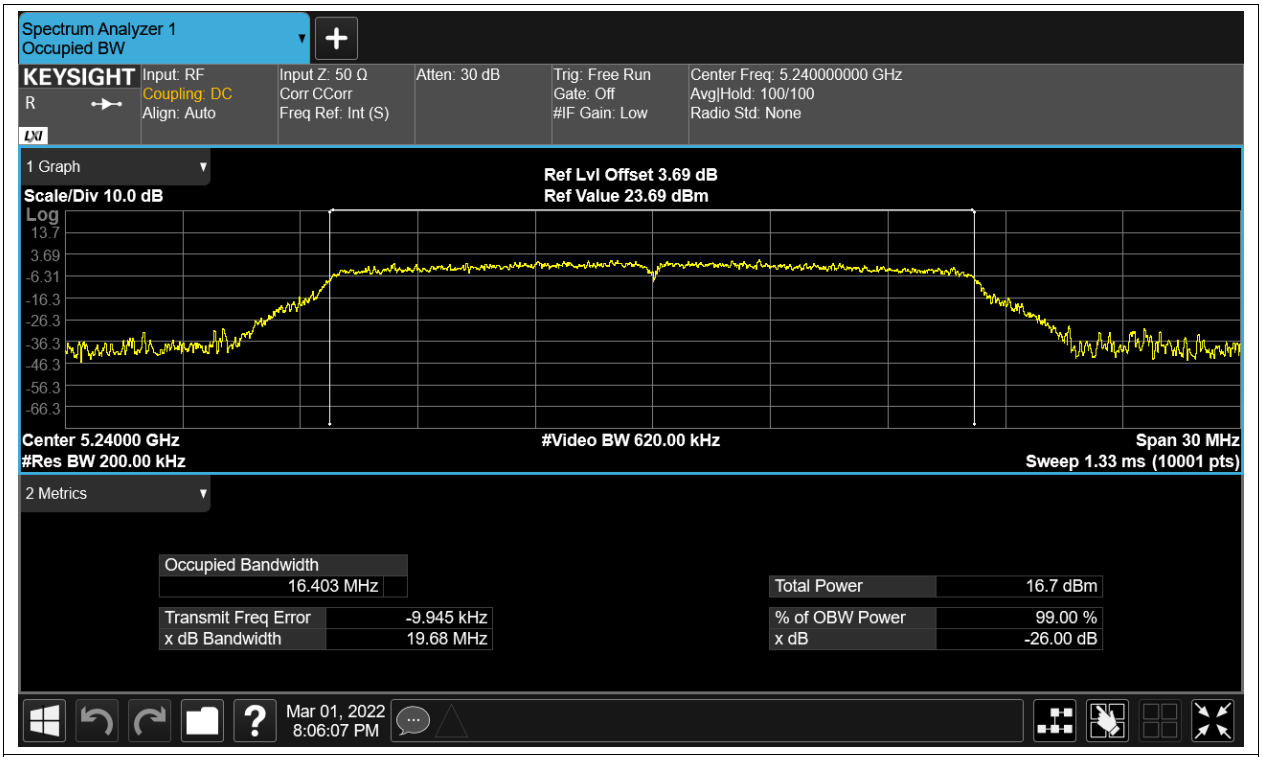
Test Graphs
OBW NVNT a 5180MHz Ant1



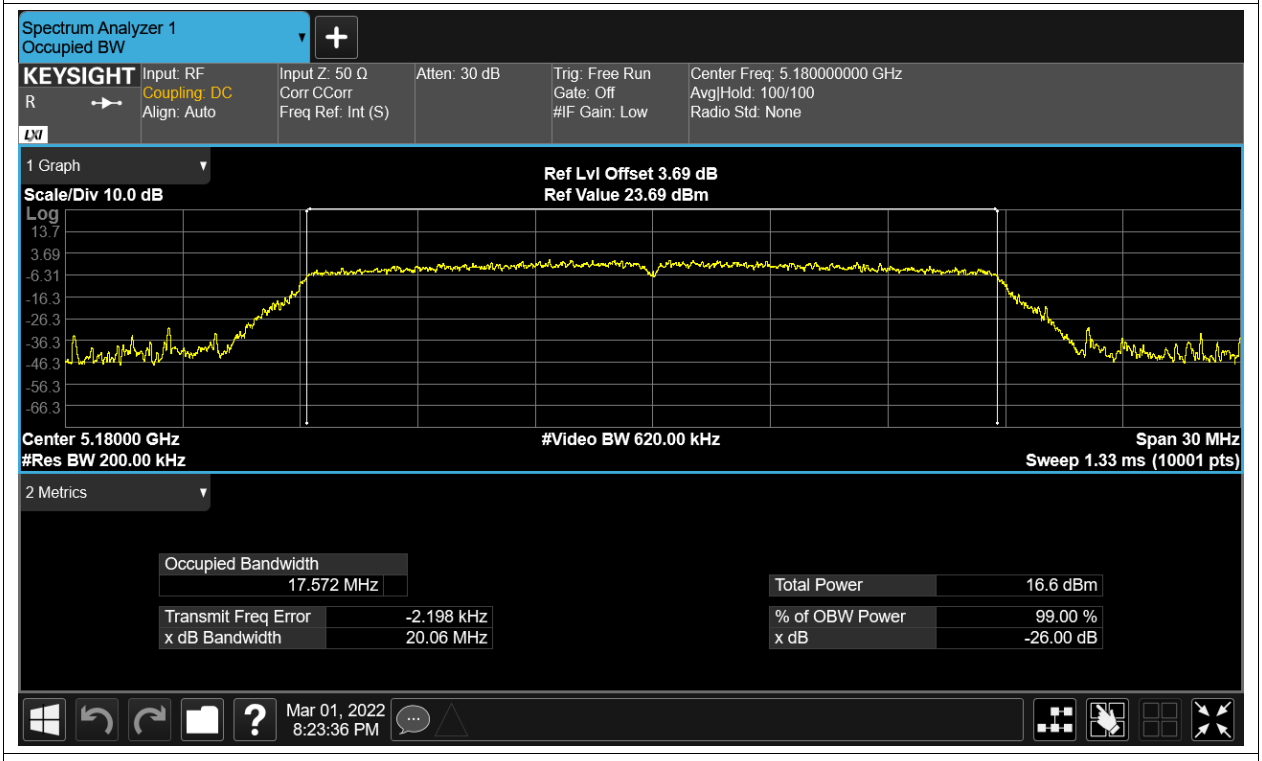
OBW NVNT a 5200MHz Ant1



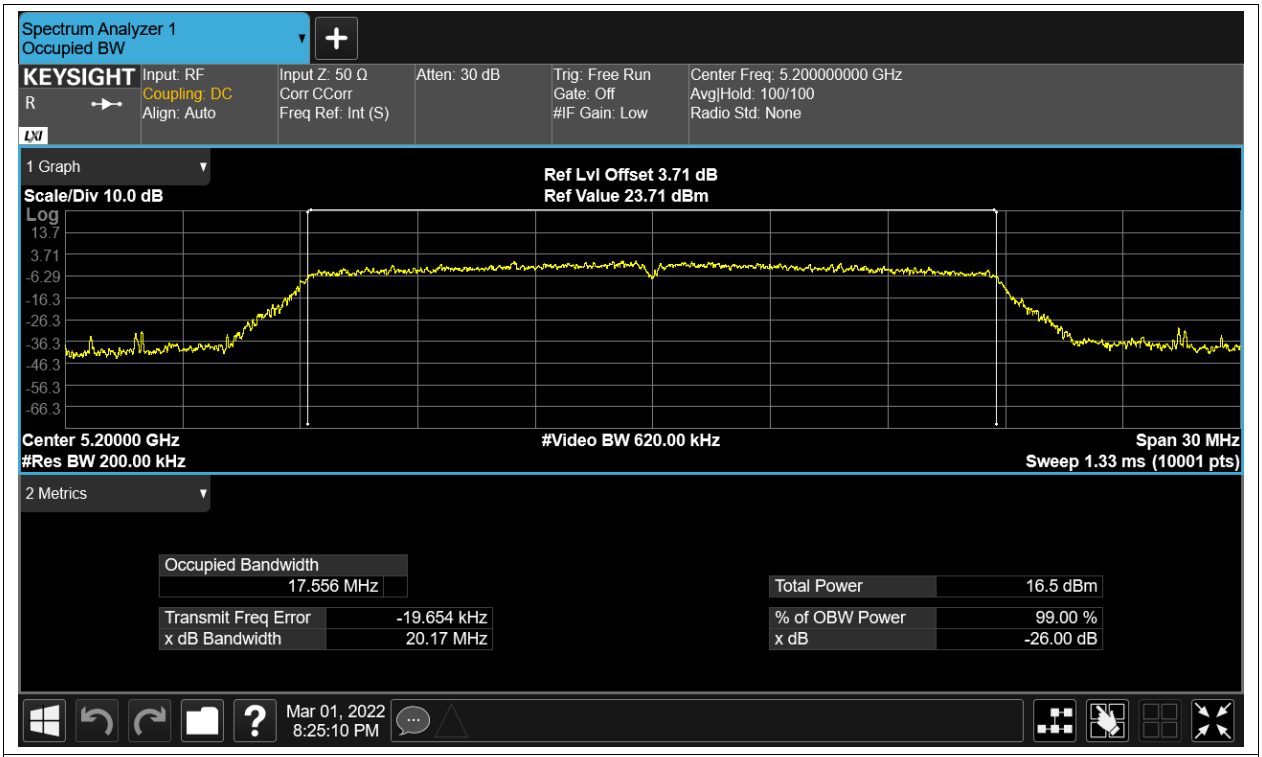
OBW NVNT a 5240MHz Ant1



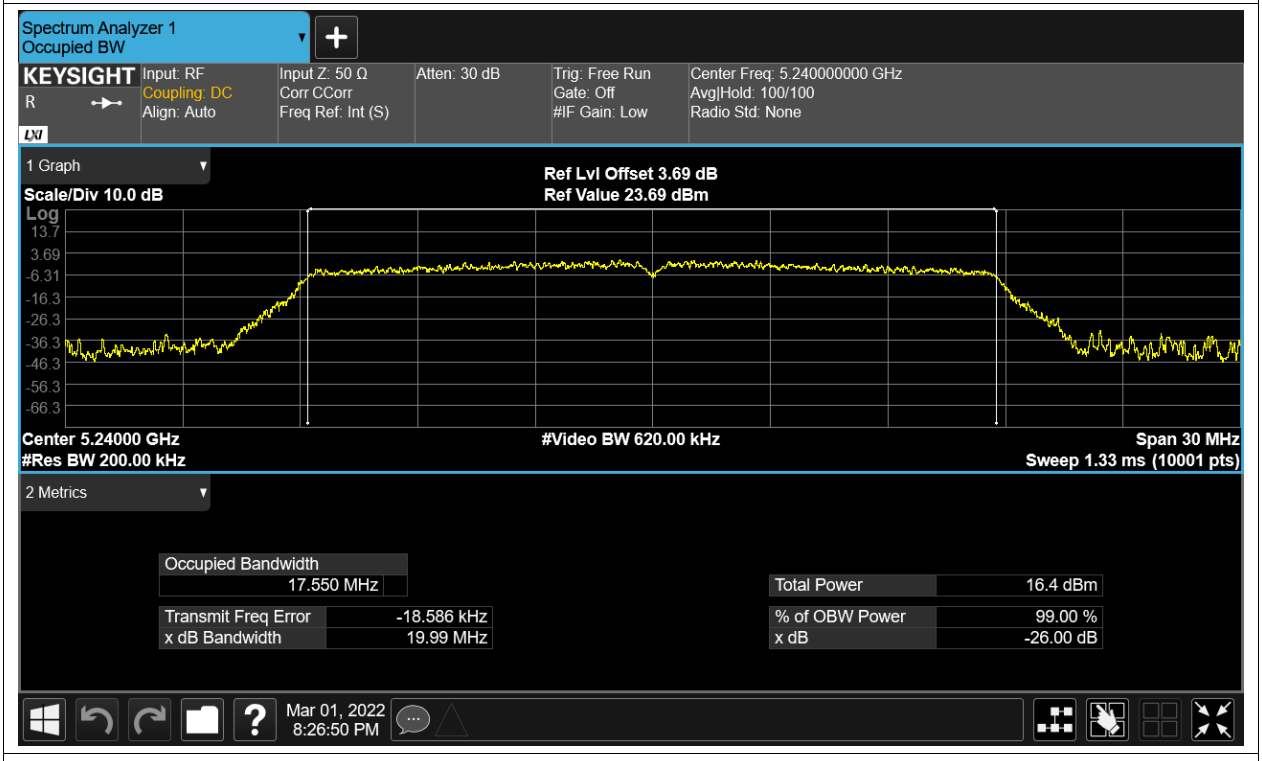
OBW NVNT ac20 5180MHz Ant1



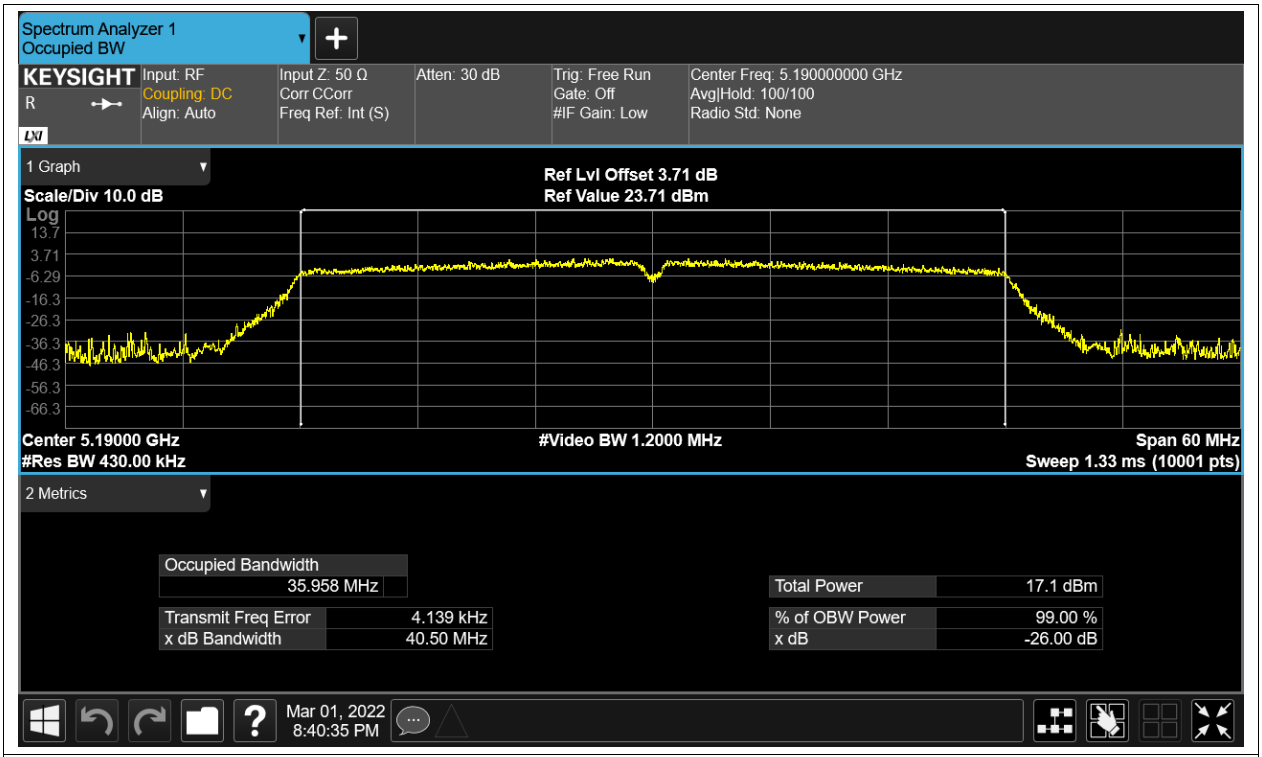
OBW NVNT ac20 5200MHz Ant1



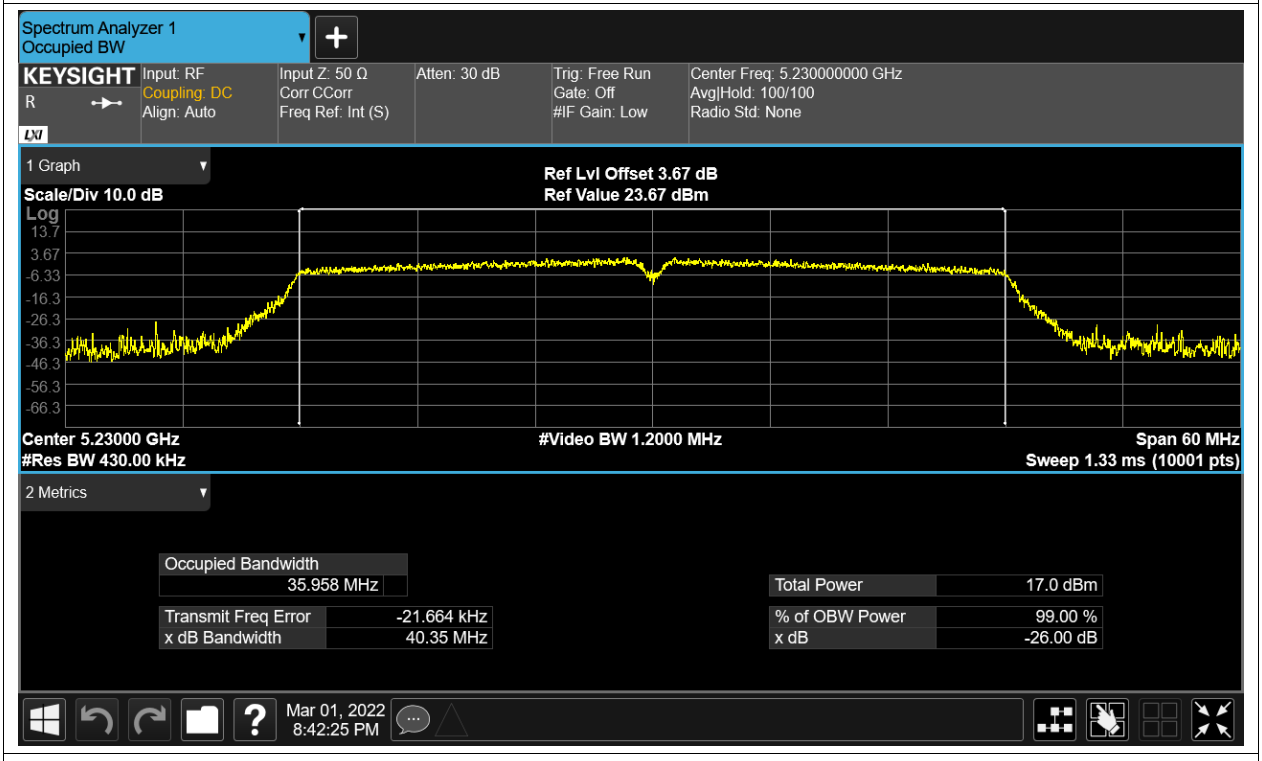
OBW NVNT ac20 5240MHz Ant1



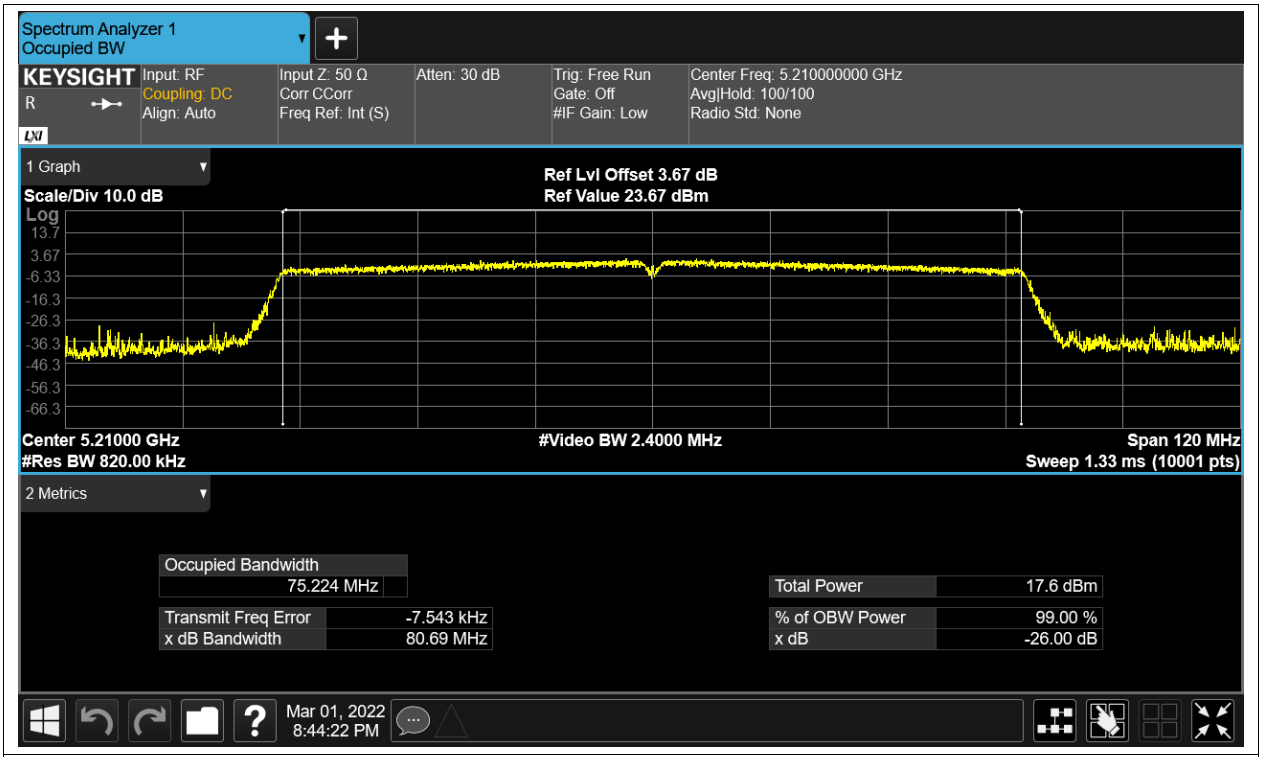
OBW NVNT ac40 5190MHz Ant1



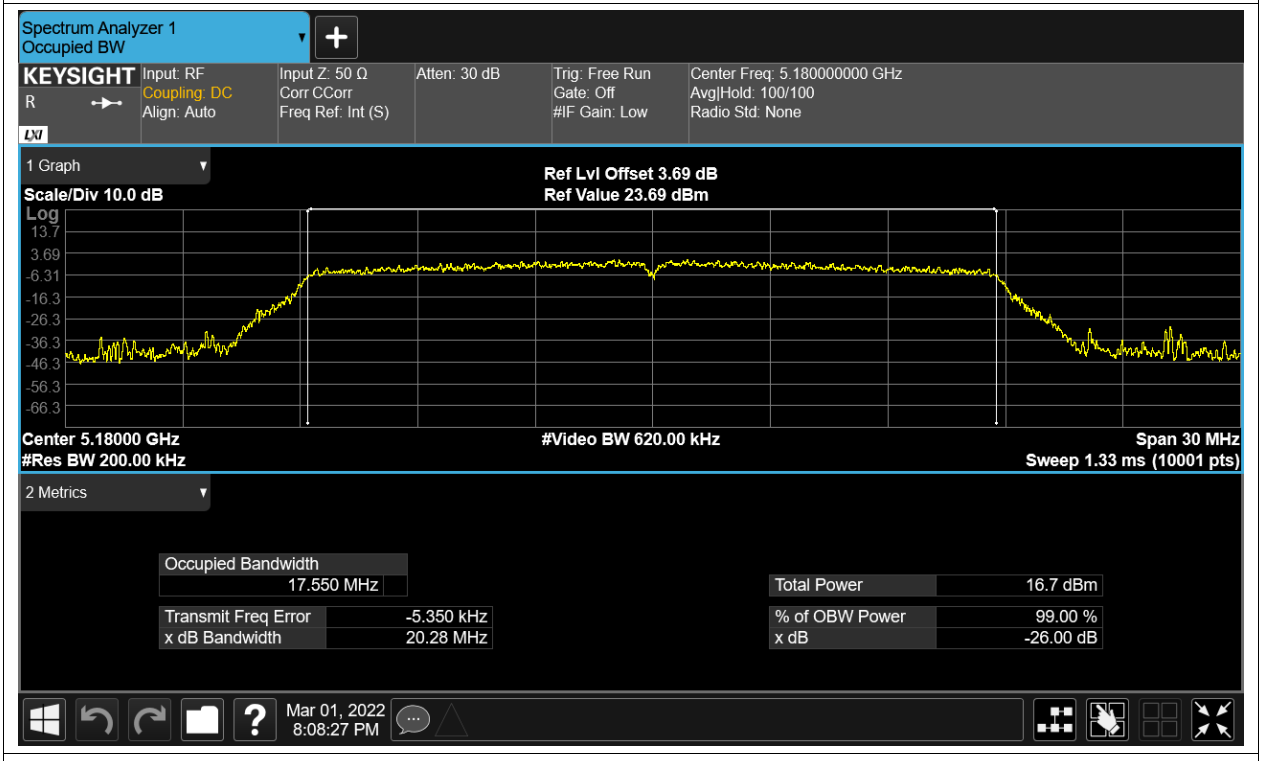
OBW NVNT ac40 5230MHz Ant1



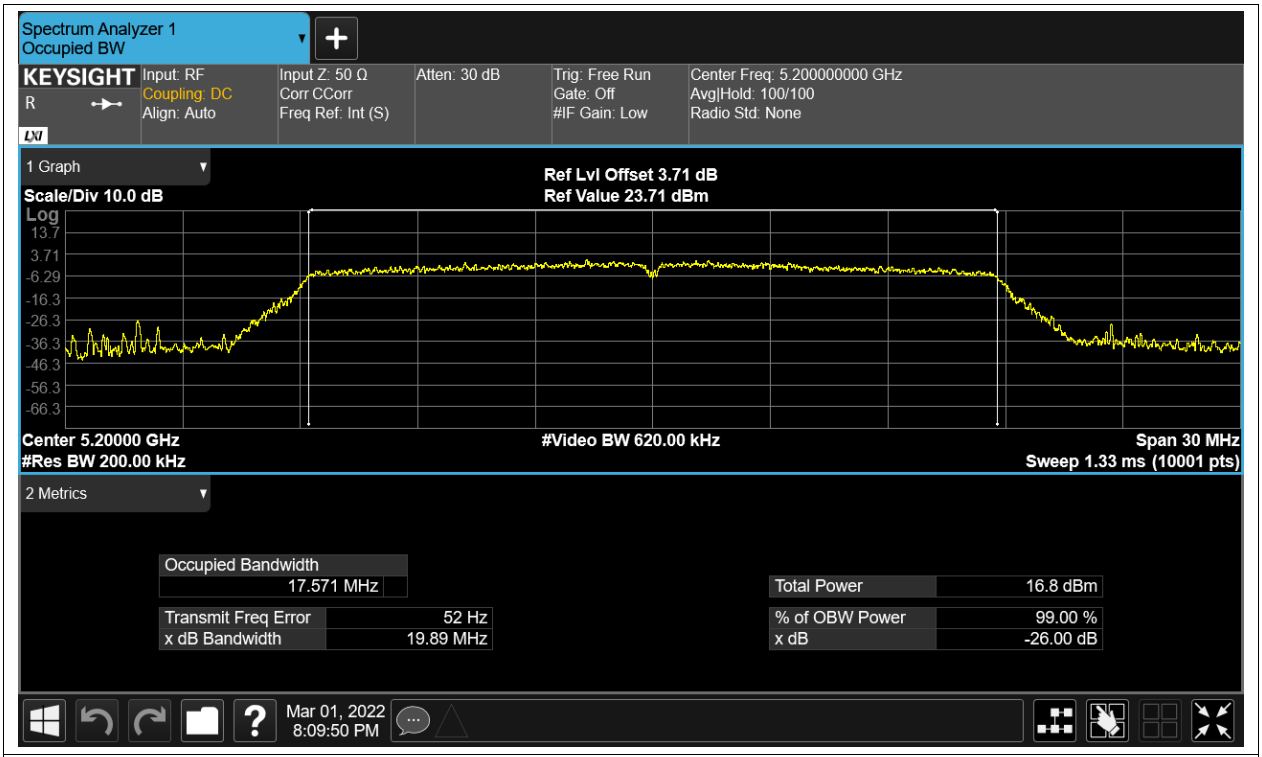
OBW NVNT ac80 5210MHz Ant1



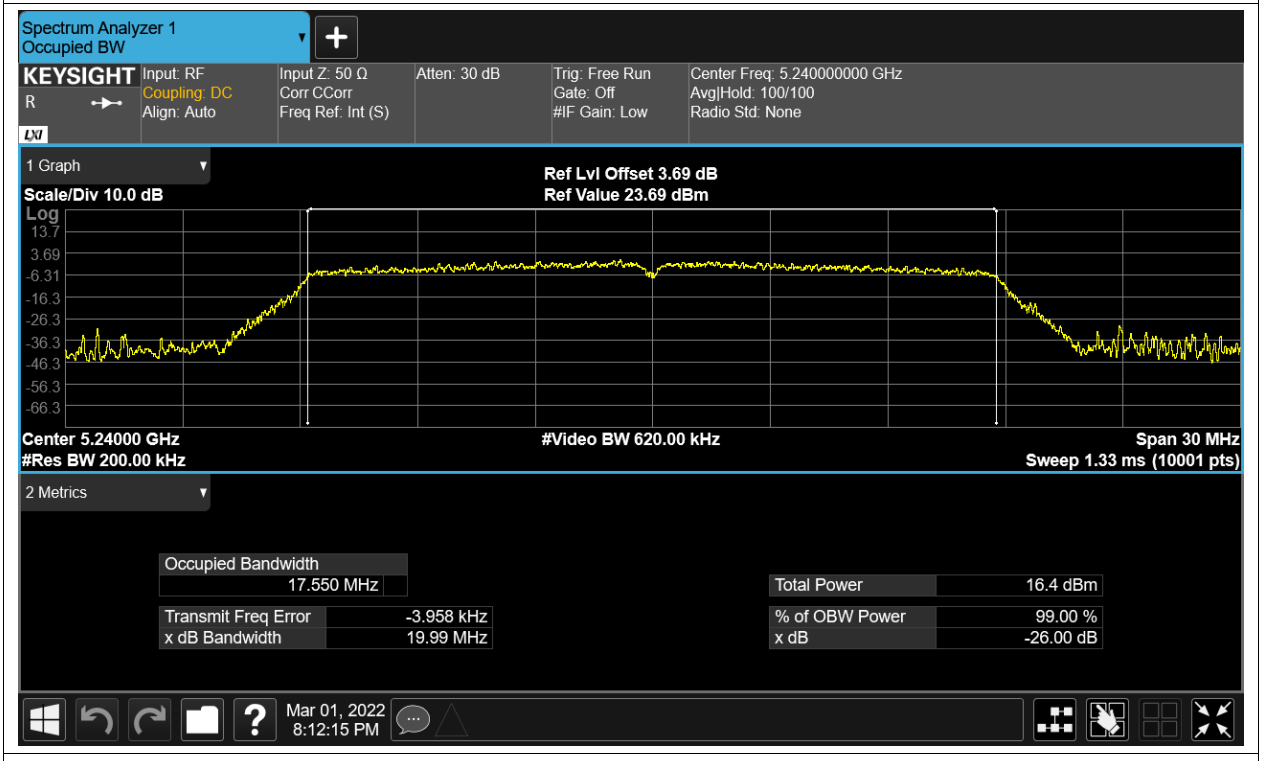
OBW NVNT n20 5180MHz Ant1



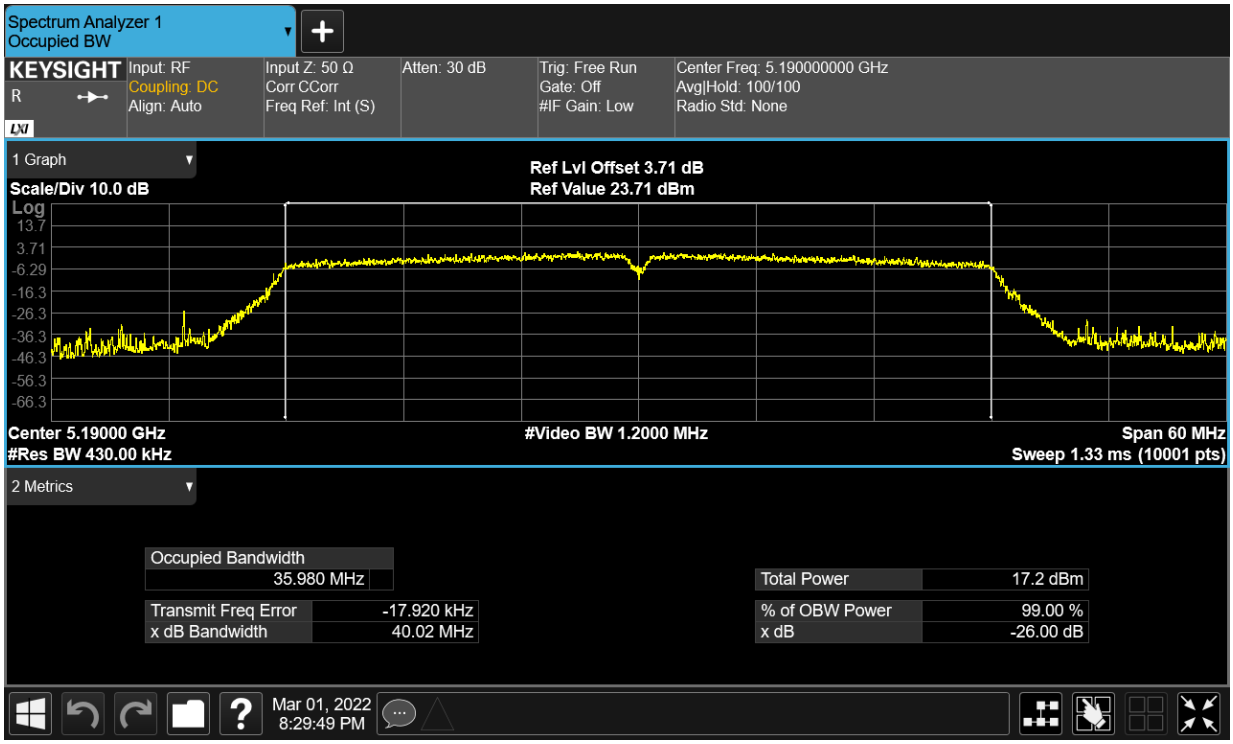
OBW NVNT n20 5200MHz Ant1



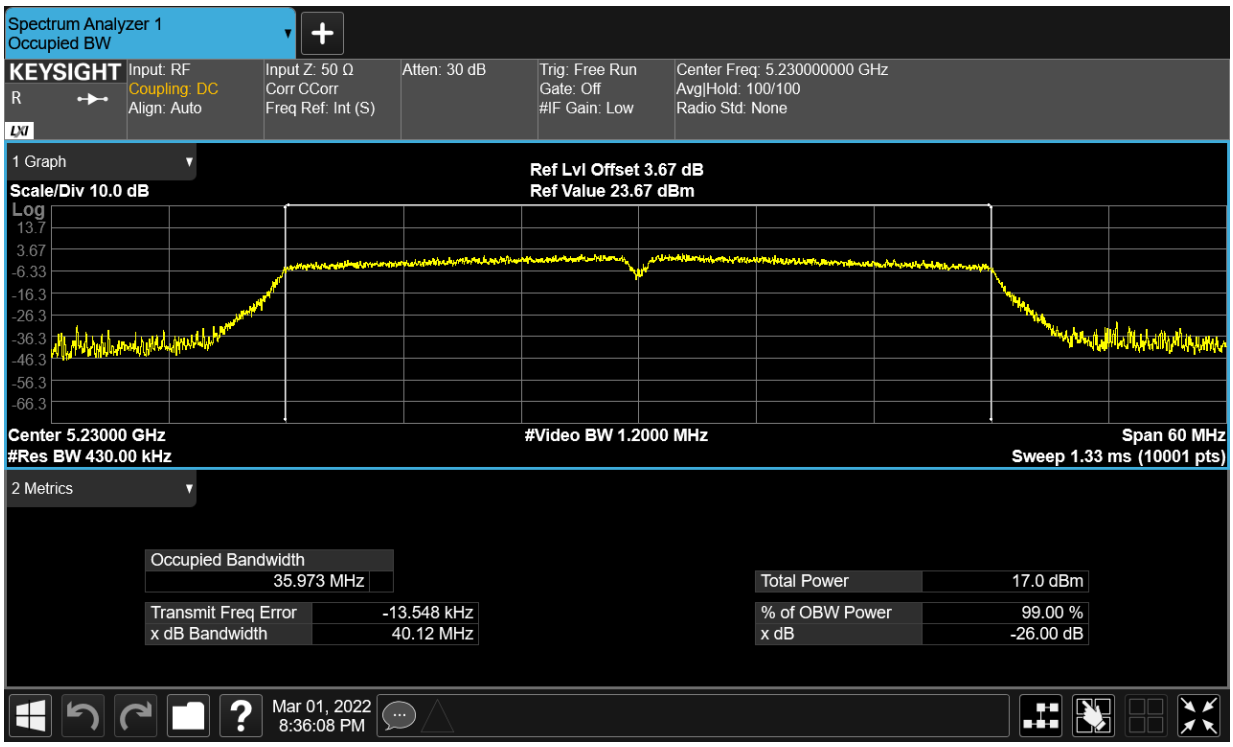
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



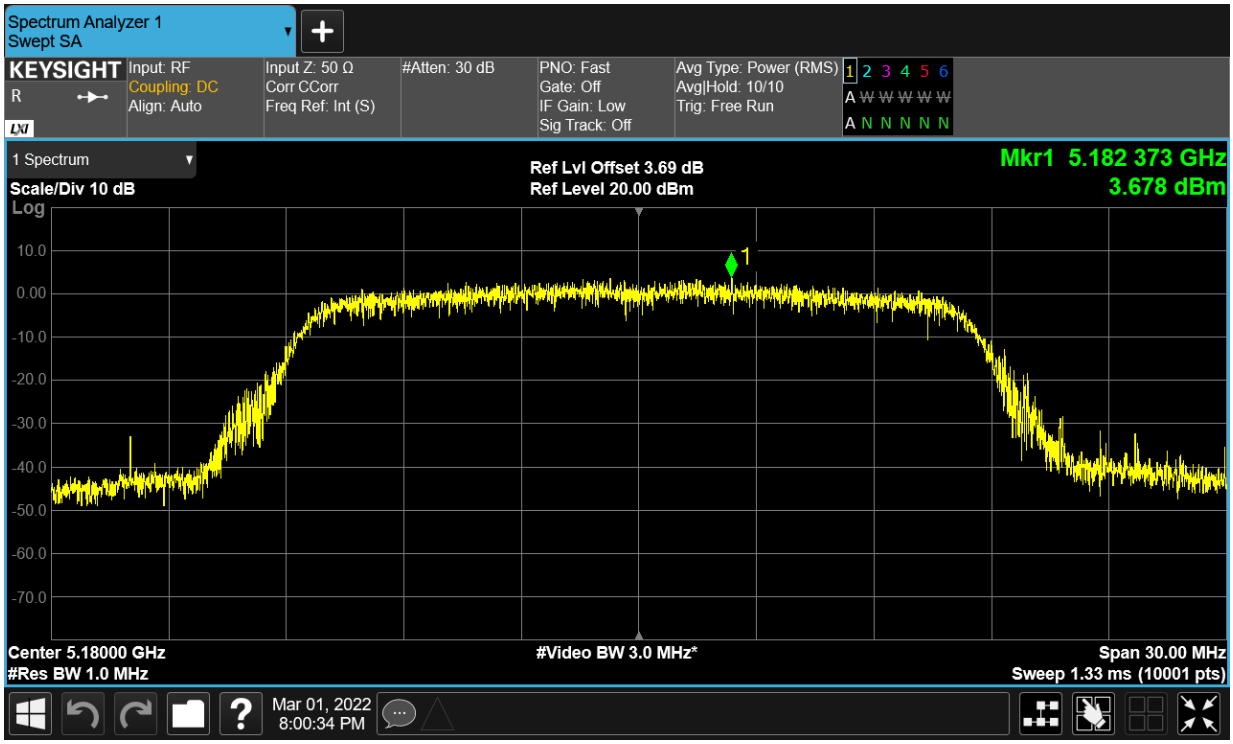
OBW NVNT n40 5230MHz Ant1



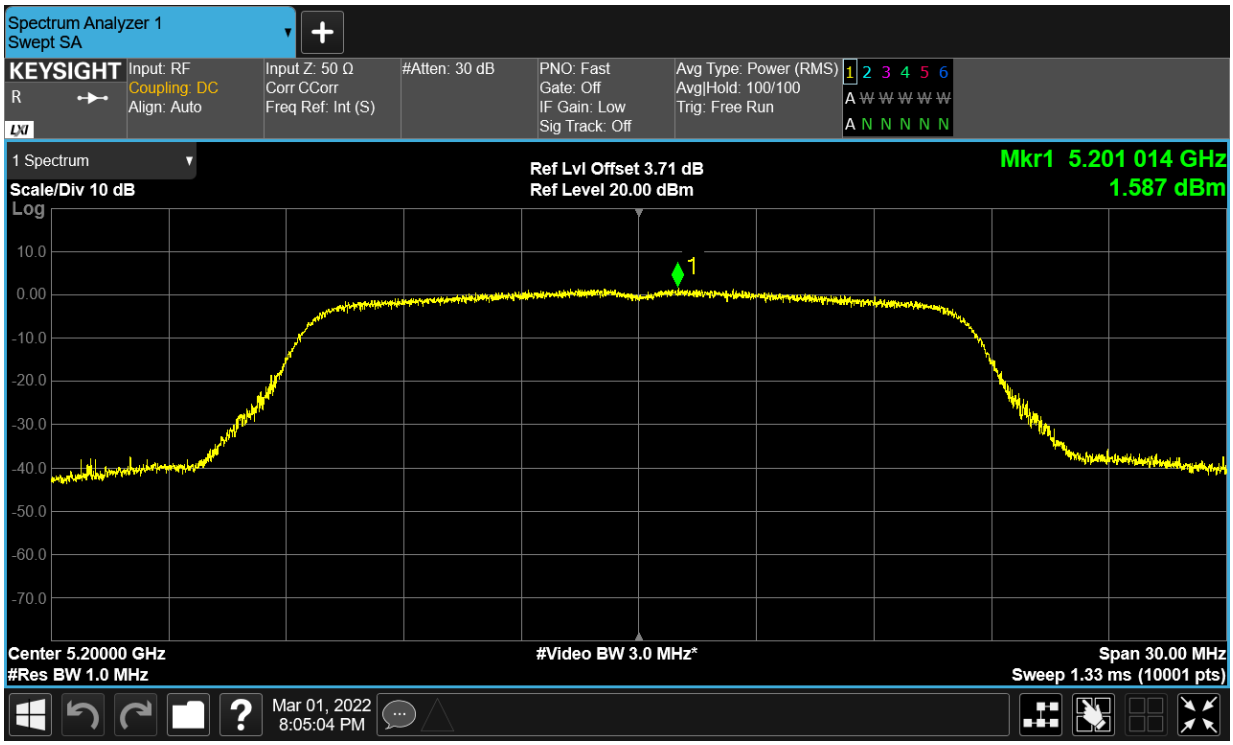
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	3.678	11	Pass
NVNT	a	5200	Ant1	1.587	11	Pass
NVNT	a	5240	Ant1	1.882	11	Pass
NVNT	ac20	5180	Ant1	1.477	11	Pass
NVNT	ac20	5200	Ant1	1.351	11	Pass
NVNT	ac20	5240	Ant1	1.079	11	Pass
NVNT	ac40	5190	Ant1	-1.111	11	Pass
NVNT	ac40	5230	Ant1	-1.387	11	Pass
NVNT	ac80	5210	Ant1	-4.836	11	Pass
NVNT	n20	5180	Ant1	1.669	11	Pass
NVNT	n20	5200	Ant1	1.466	11	Pass
NVNT	n20	5240	Ant1	1.29	11	Pass
NVNT	n40	5190	Ant1	-1.356	11	Pass
NVNT	n40	5230	Ant1	-1.146	11	Pass

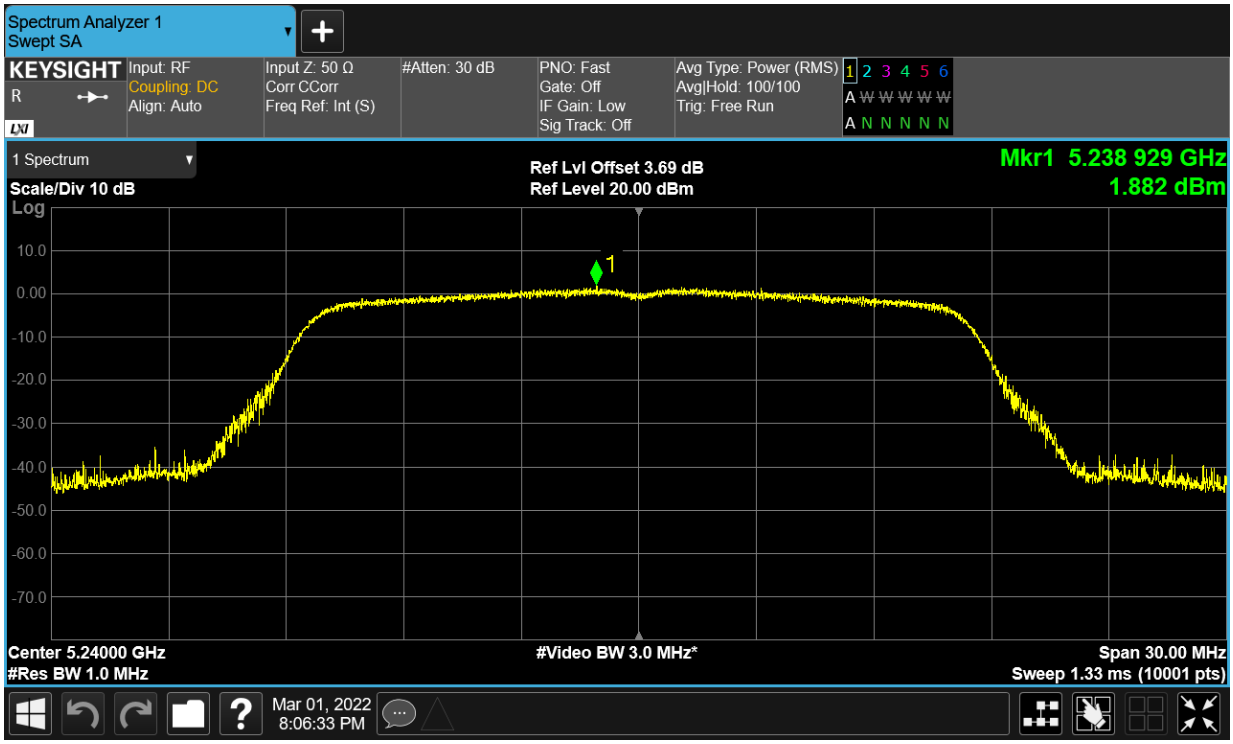
Test Graphs
PSD NVNT a 5180MHz Ant1



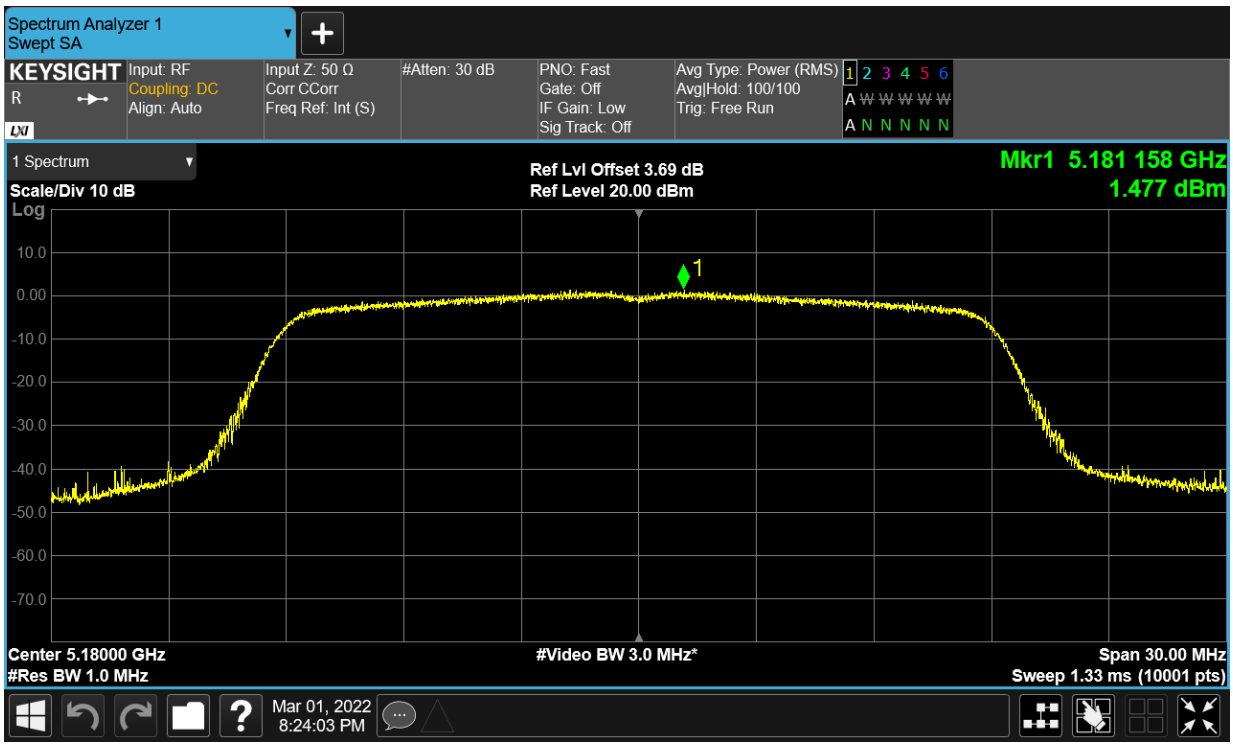
PSD NVNT a 5200MHz Ant1



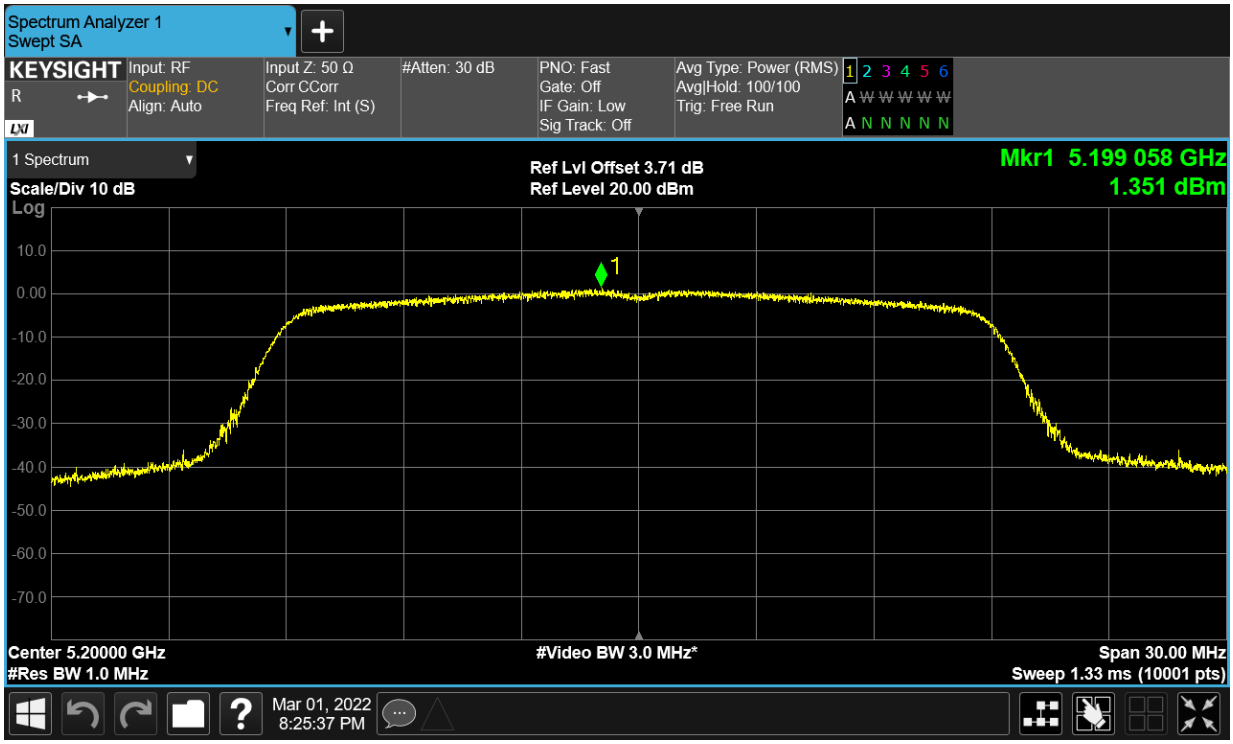
PSD NVNT a 5240MHz Ant1



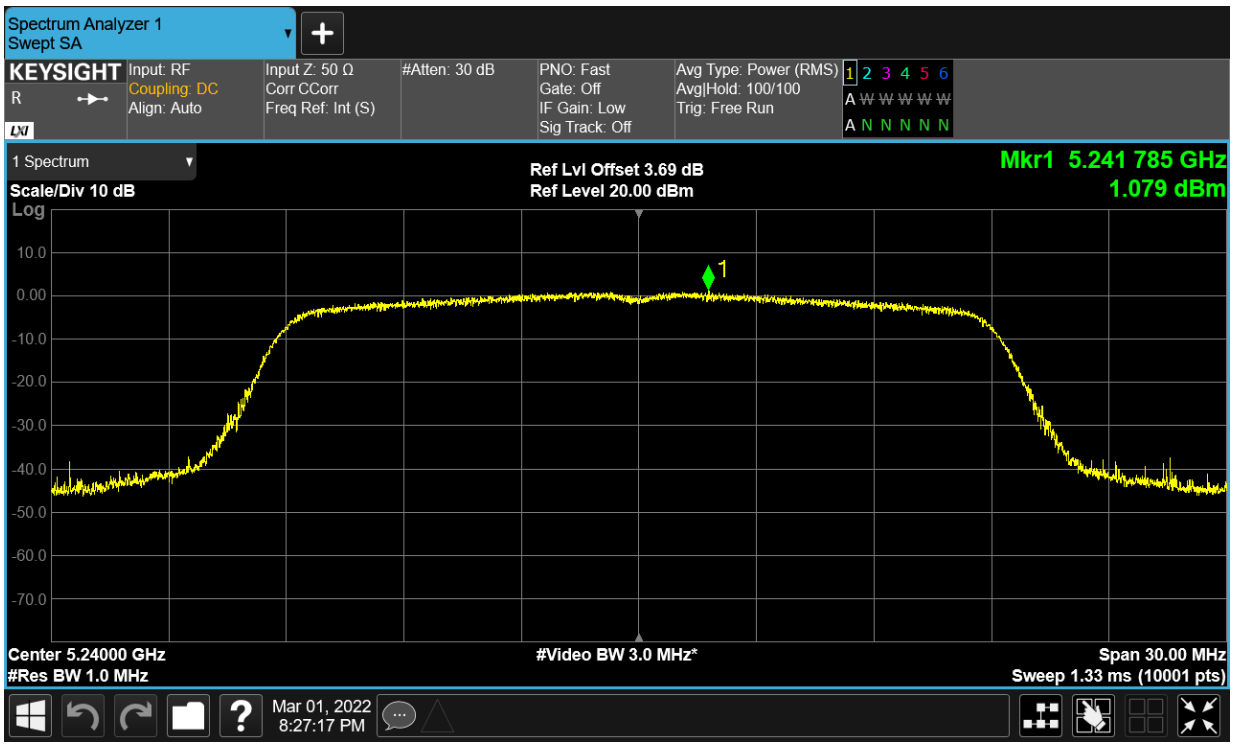
PSD NVNT ac20 5180MHz Ant1



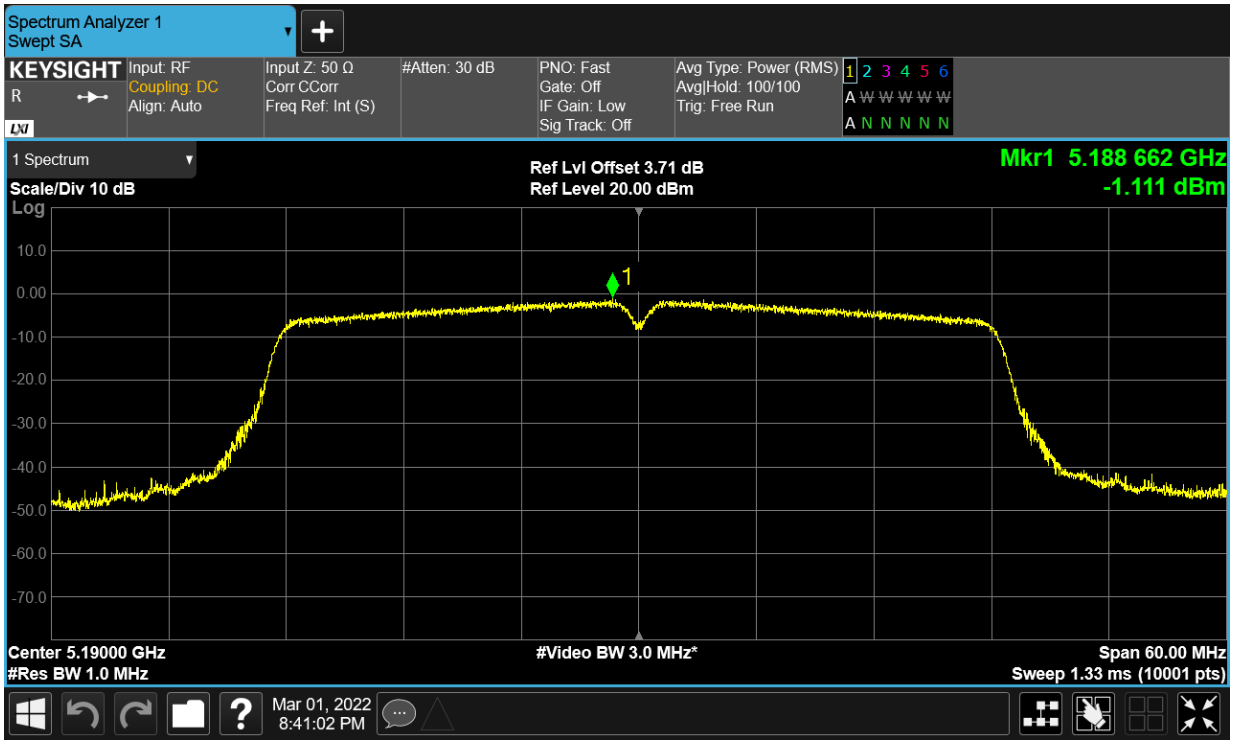
PSD NVNT ac20 5200MHz Ant1



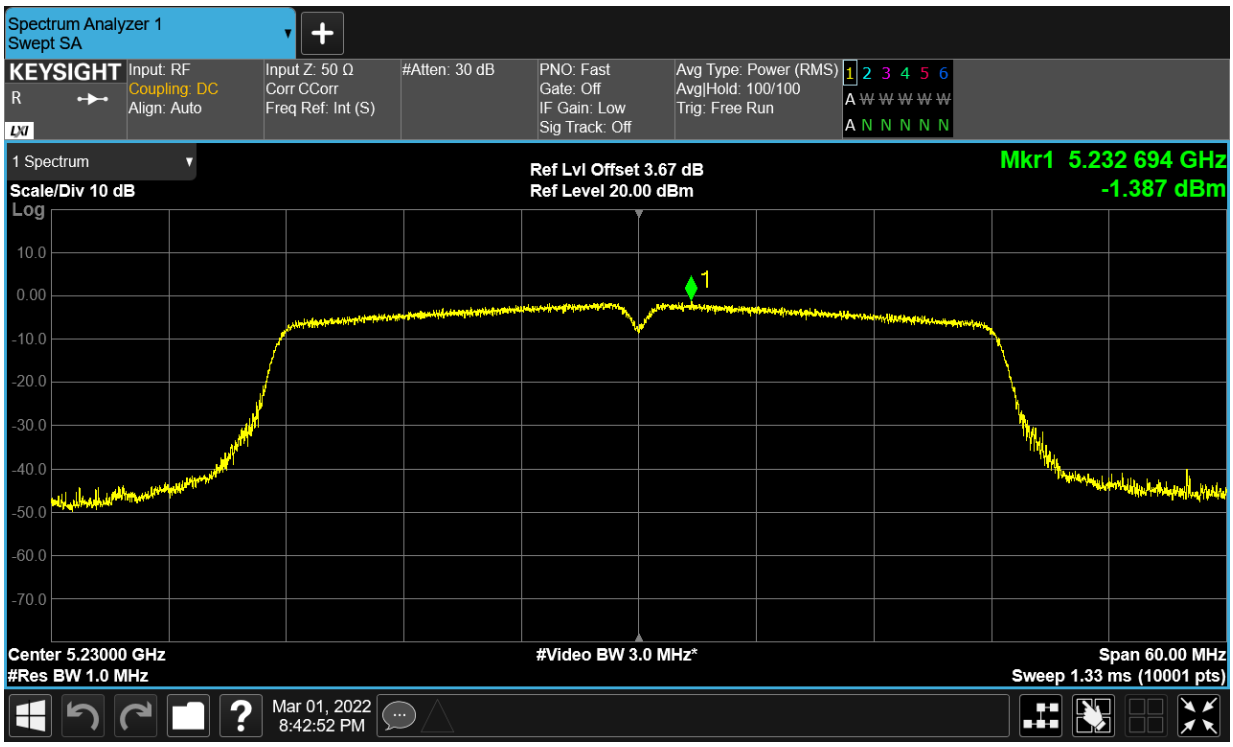
PSD NVNT ac20 5240MHz Ant1



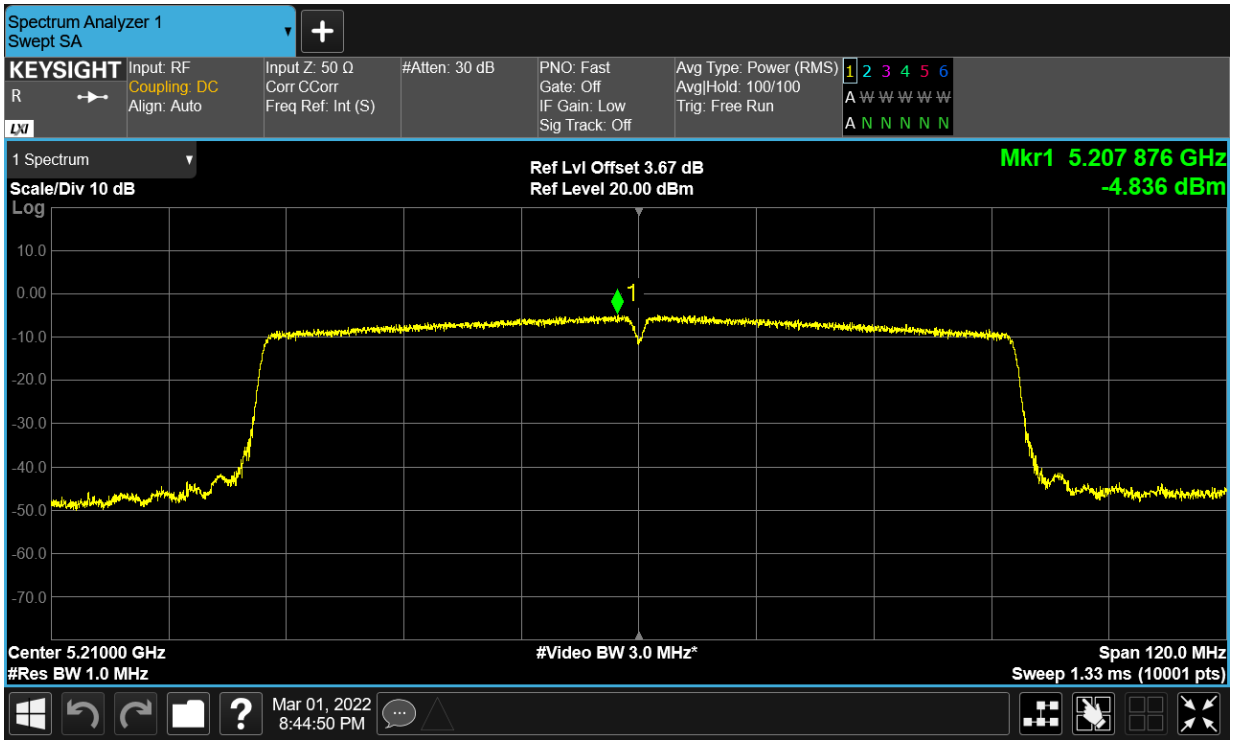
PSD NVNT ac40 5190MHz Ant1



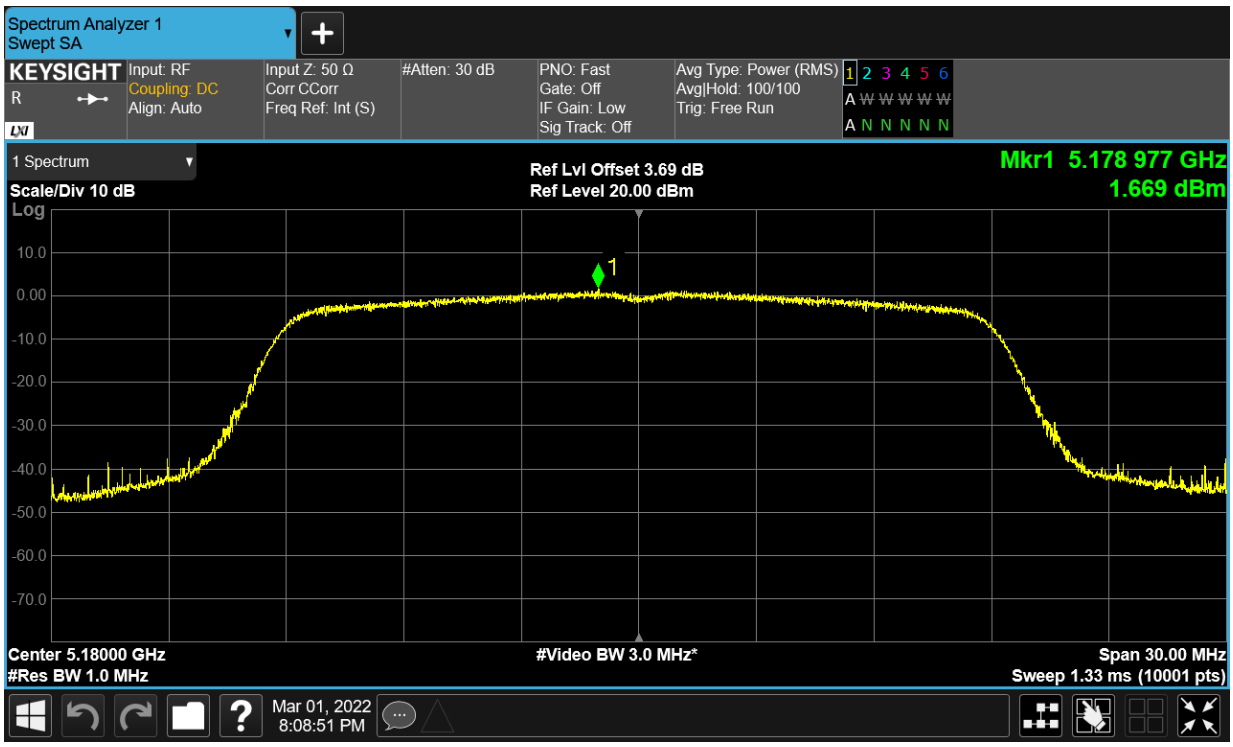
PSD NVNT ac40 5230MHz Ant1



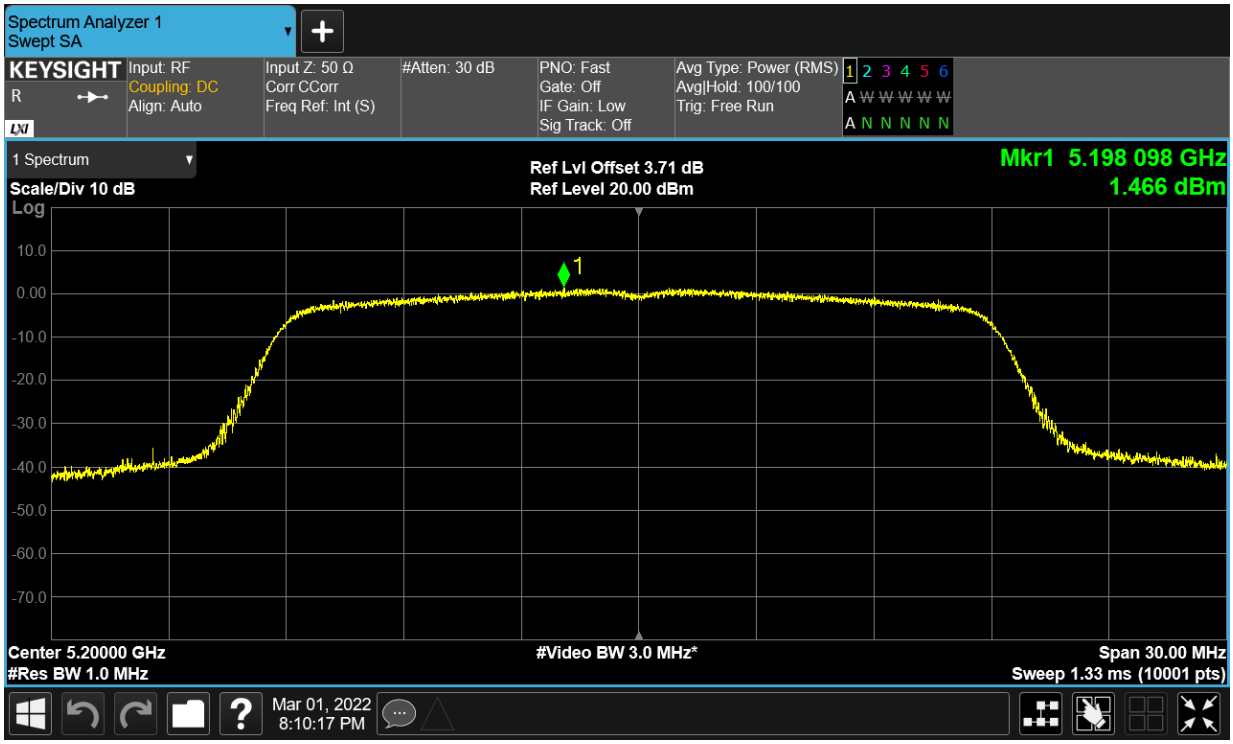
PSD NVNT ac80 5210MHz Ant1



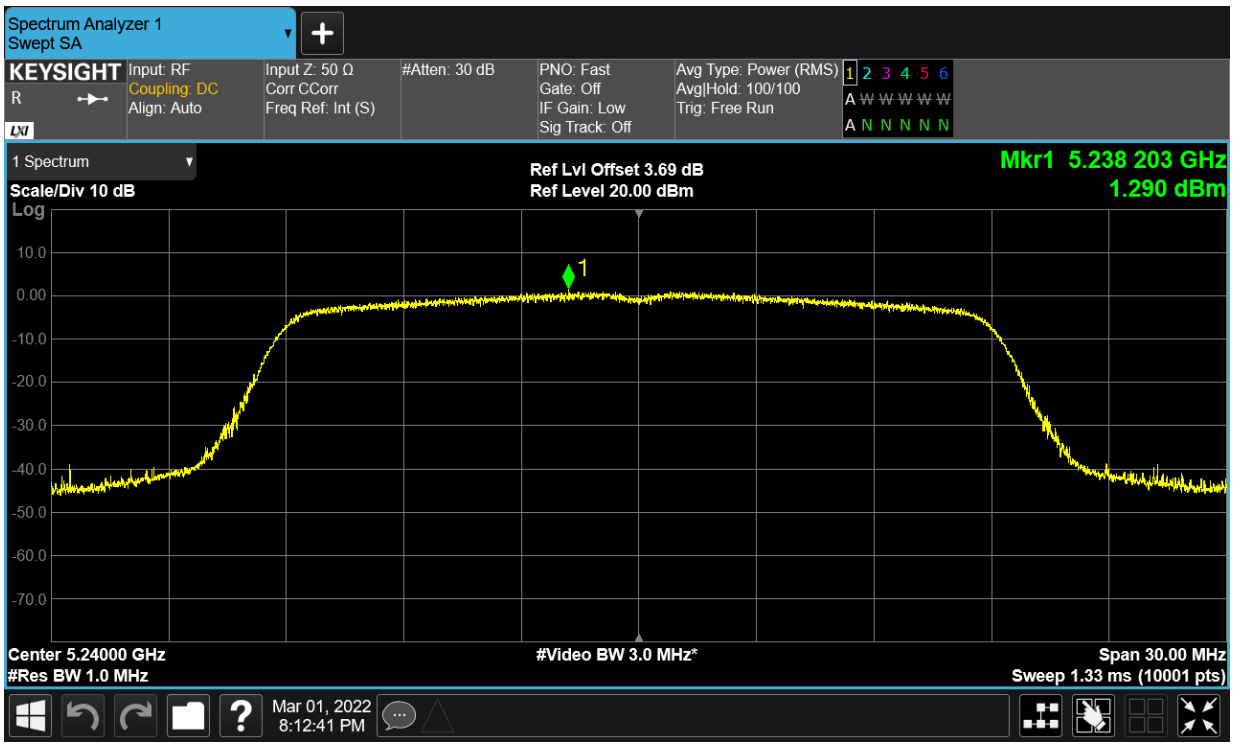
PSD NVNT n20 5180MHz Ant1



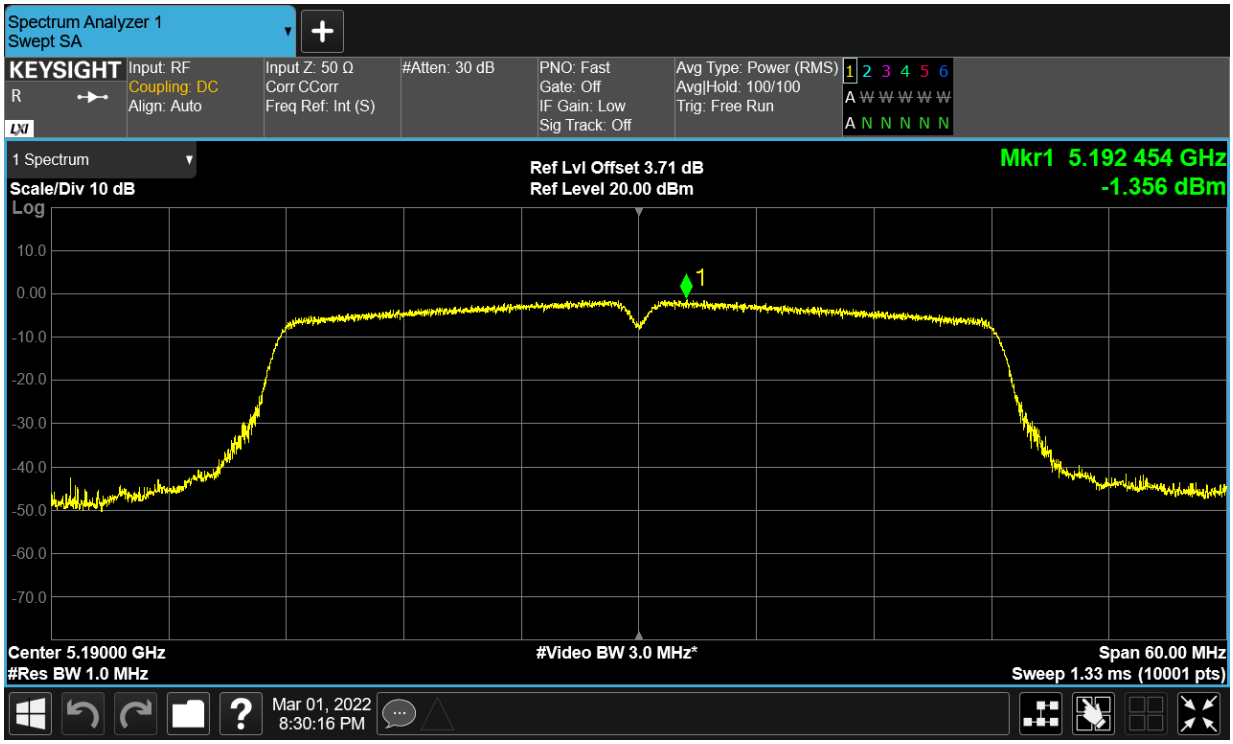
PSD NVNT n20 5200MHz Ant1



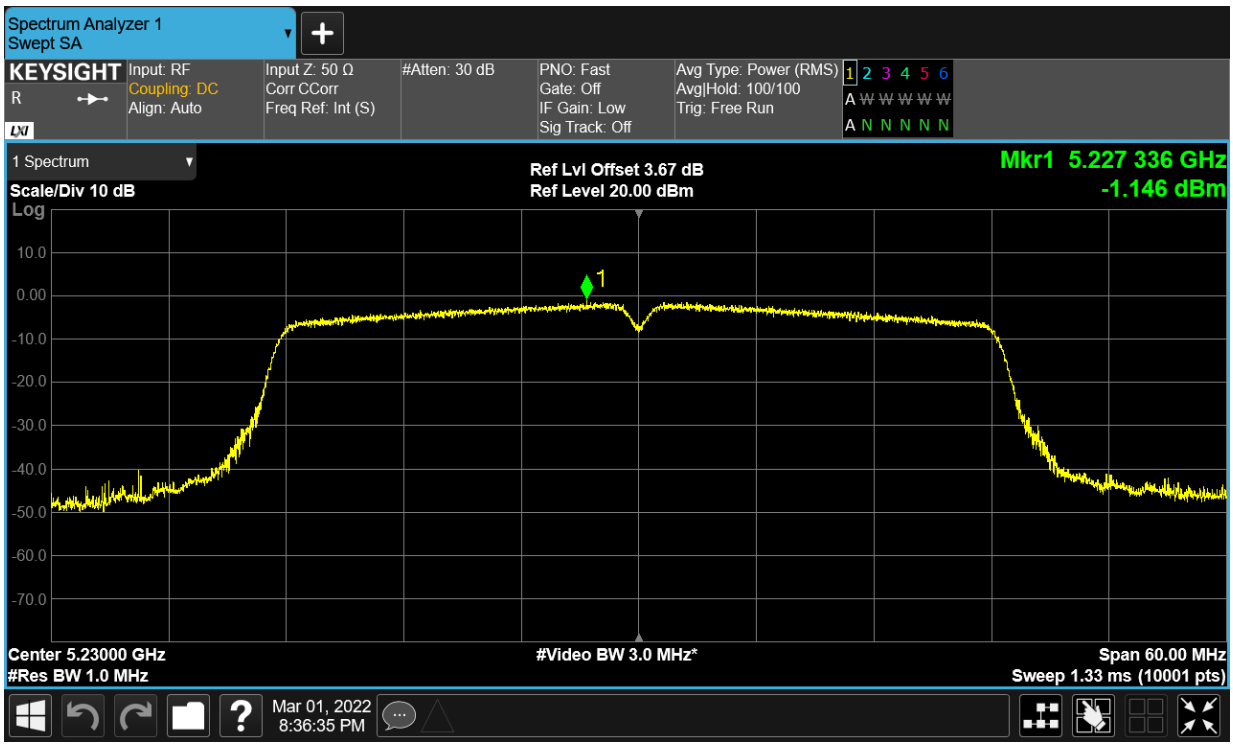
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



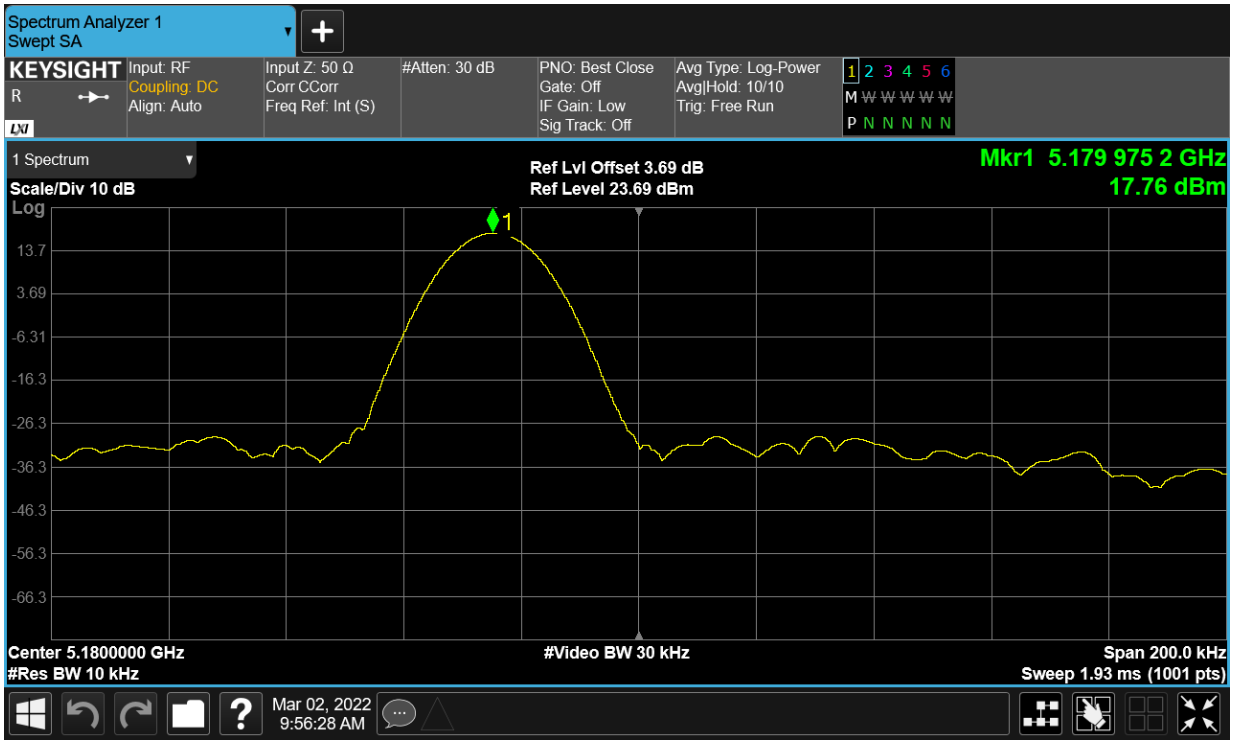
PSD NVNT n40 5230MHz Ant1



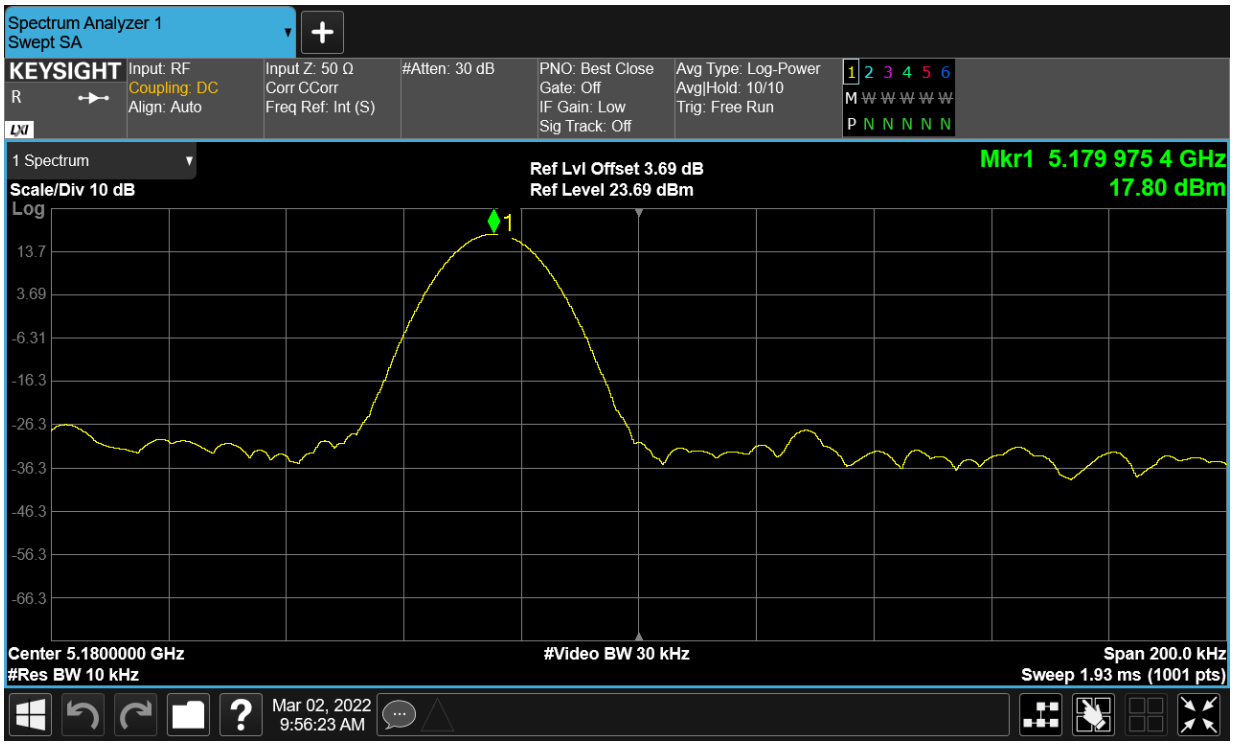
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5179.9752	-4.79	25	Pass
LVNT	a	5180	Ant1	5179.9754	-4.75	25	Pass
NVHT	a	5180	Ant1	5179.9754	-4.75	25	Pass
NVLT	a	5180	Ant1	5179.9754	-4.75	25	Pass
NVNT	a	5180	Ant1	5179.9916	-1.62	25	Pass
HVNT	ac80	5210	Ant1	5209.9754	-4.72	25	Pass
LVNT	ac80	5210	Ant1	5209.9754	-4.72	25	Pass
NVHT	ac80	5210	Ant1	5209.9754	-4.72	25	Pass
NVLT	ac80	5210	Ant1	5209.9754	-4.72	25	Pass
NVNT	ac80	5210	Ant1	5209.9756	-4.68	25	Pass
HVNT	n40	5190	Ant1	5189.9754	-4.74	25	Pass
LVNT	n40	5190	Ant1	5189.9756	-4.7	25	Pass
NVHT	n40	5190	Ant1	5189.9756	-4.7	25	Pass
NVLT	n40	5190	Ant1	5189.9756	-4.7	25	Pass
NVNT	n40	5190	Ant1	5189.9758	-4.66	25	Pass

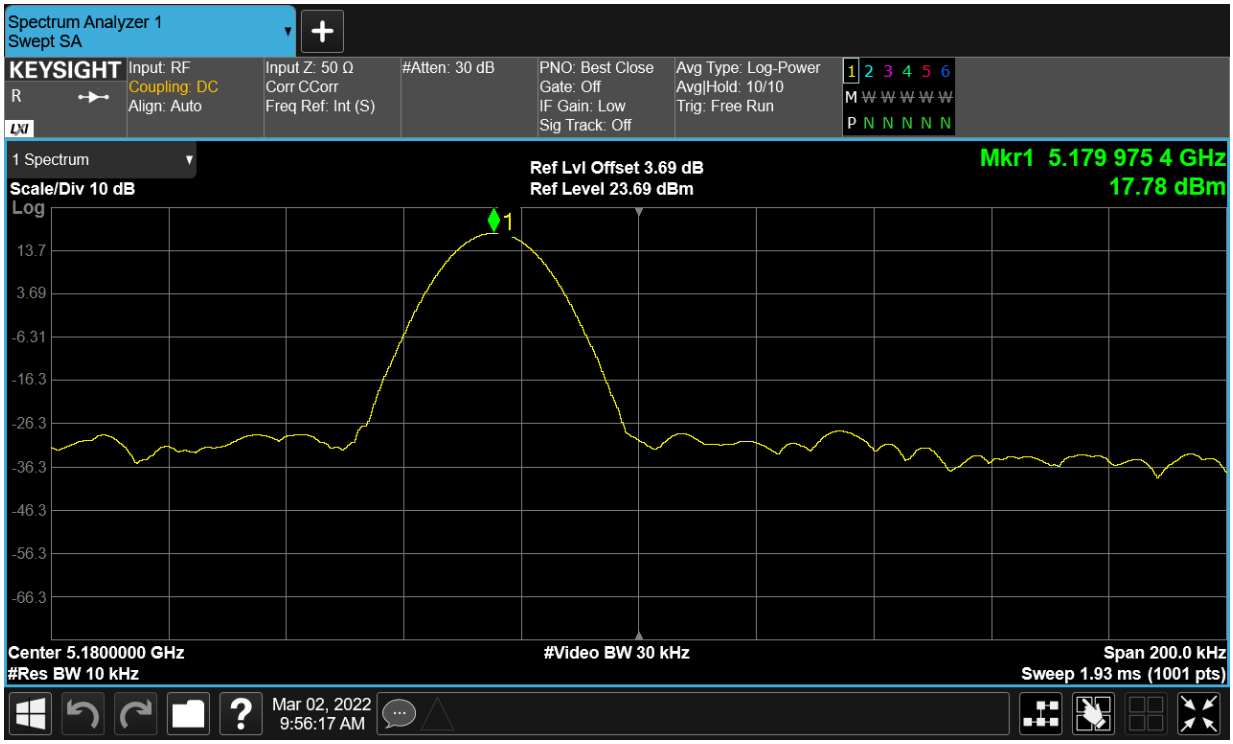
Test Graphs
Freq. Stability HVNT a 5180MHz Ant1



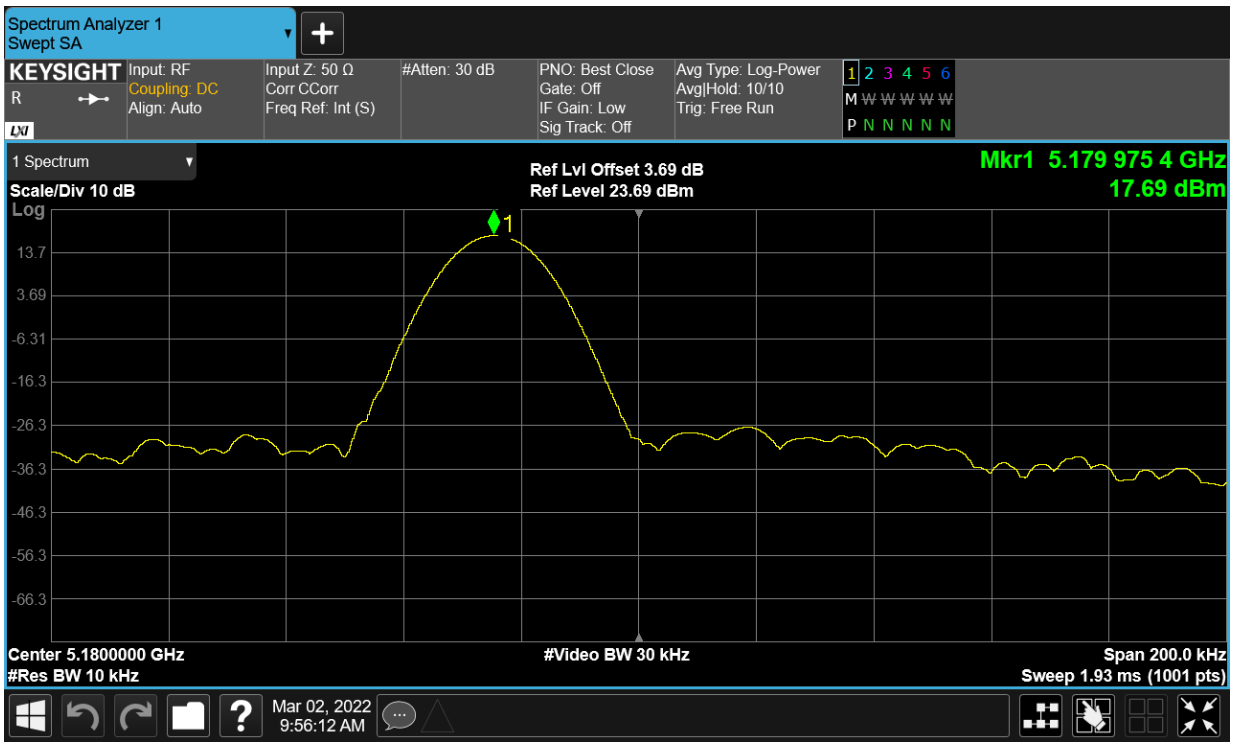
Freq. Stability LVNT a 5180MHz Ant1



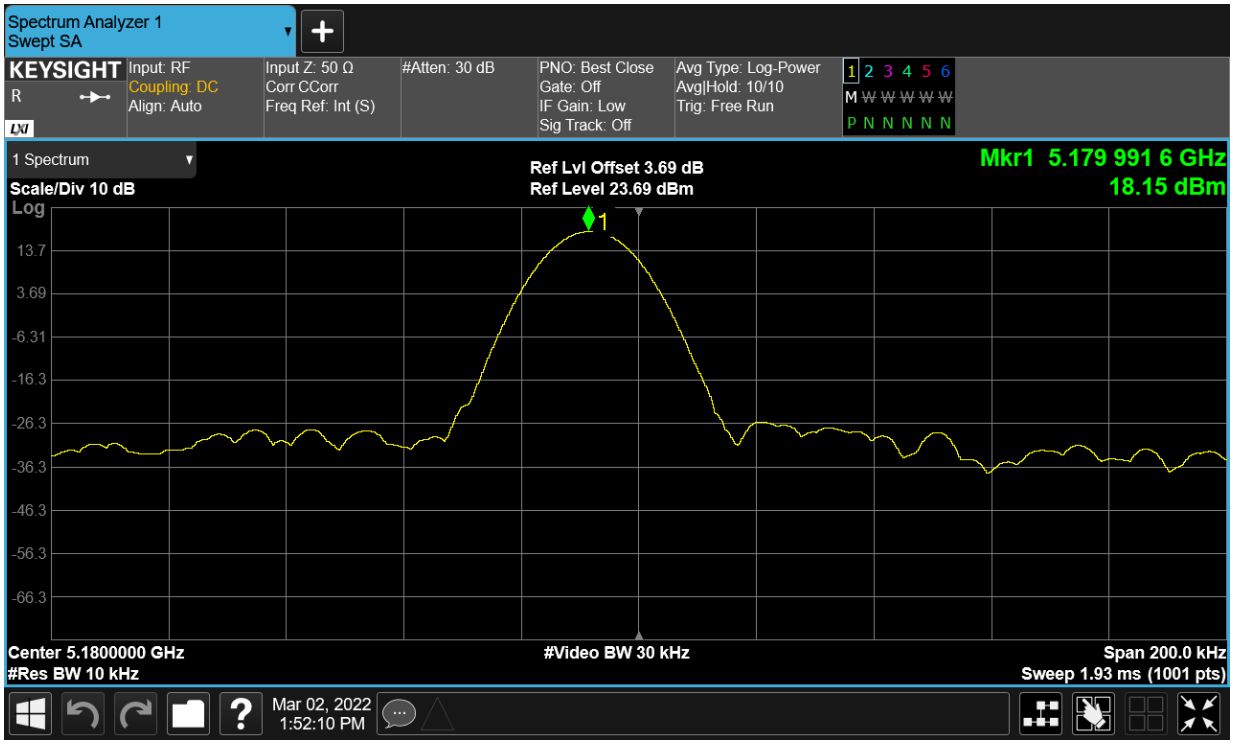
Freq. Stability NVHT a 5180MHz Ant1



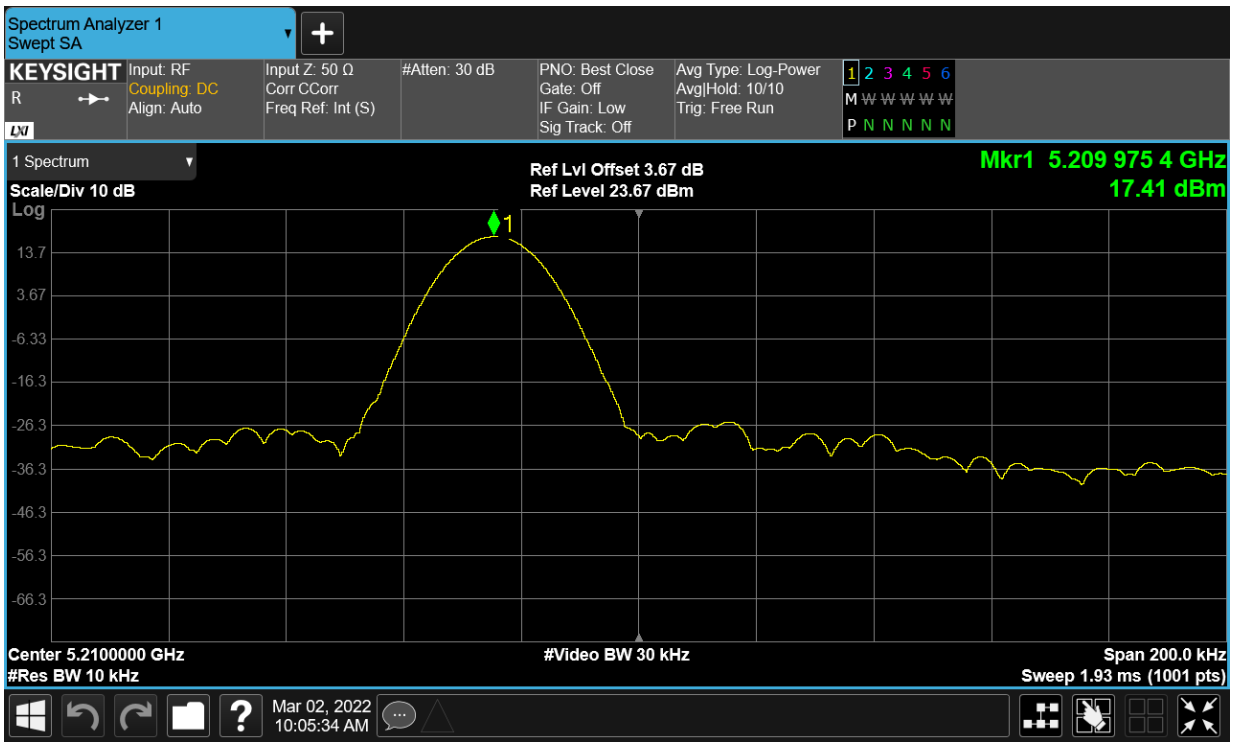
Freq. Stability NVLT a 5180MHz Ant1



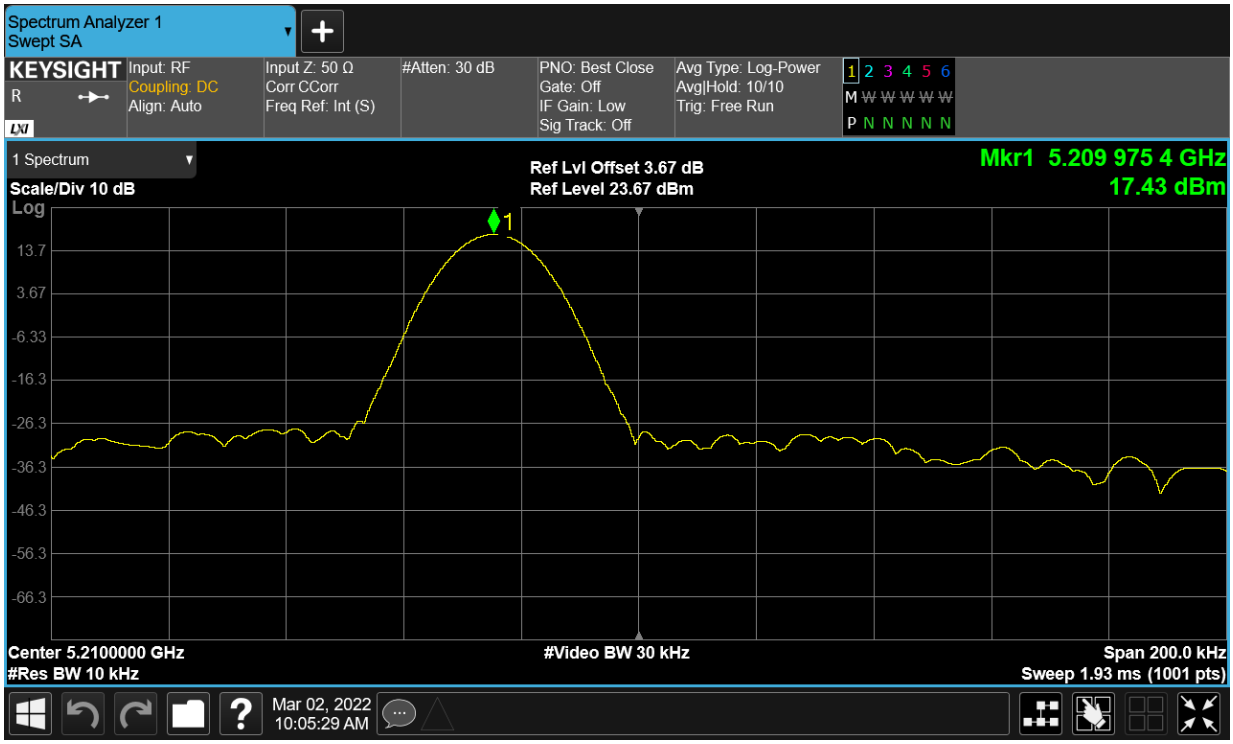
Freq. Stability NVNT a 5180MHz Ant1



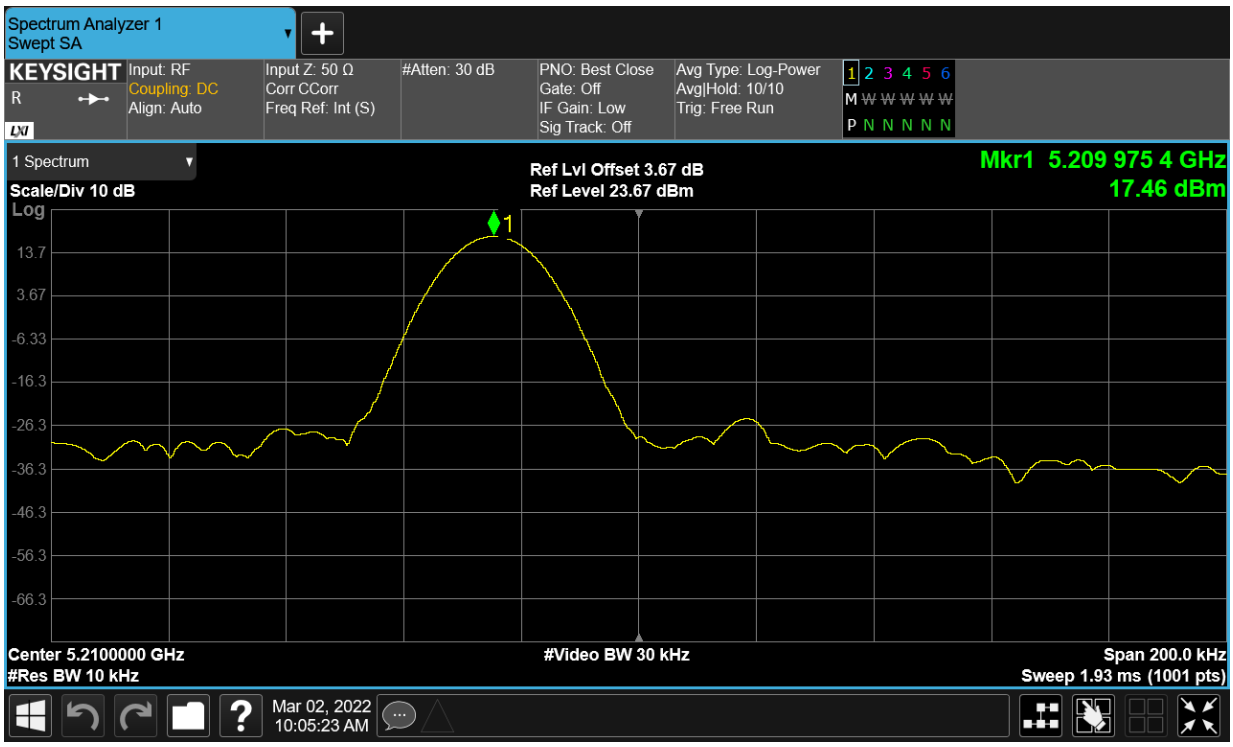
Freq. Stability HVNT ac80 5210MHz Ant1



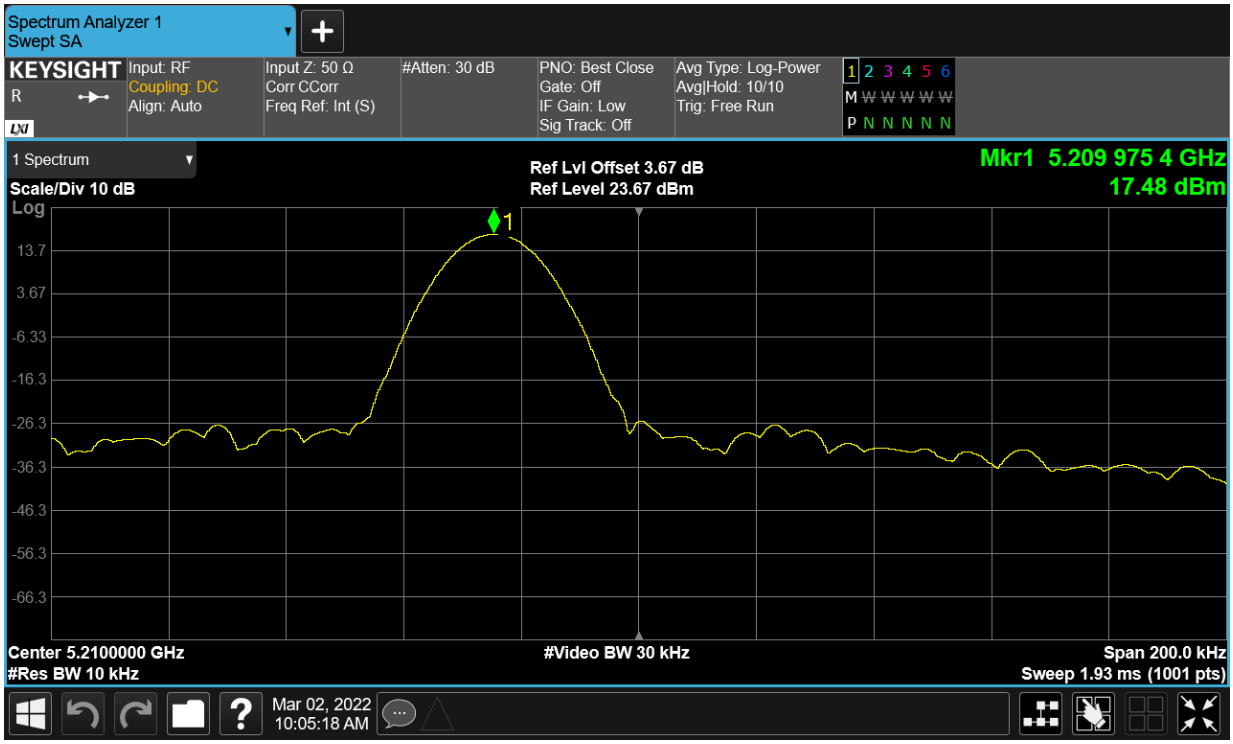
Freq. Stability LVNT ac80 5210MHz Ant1



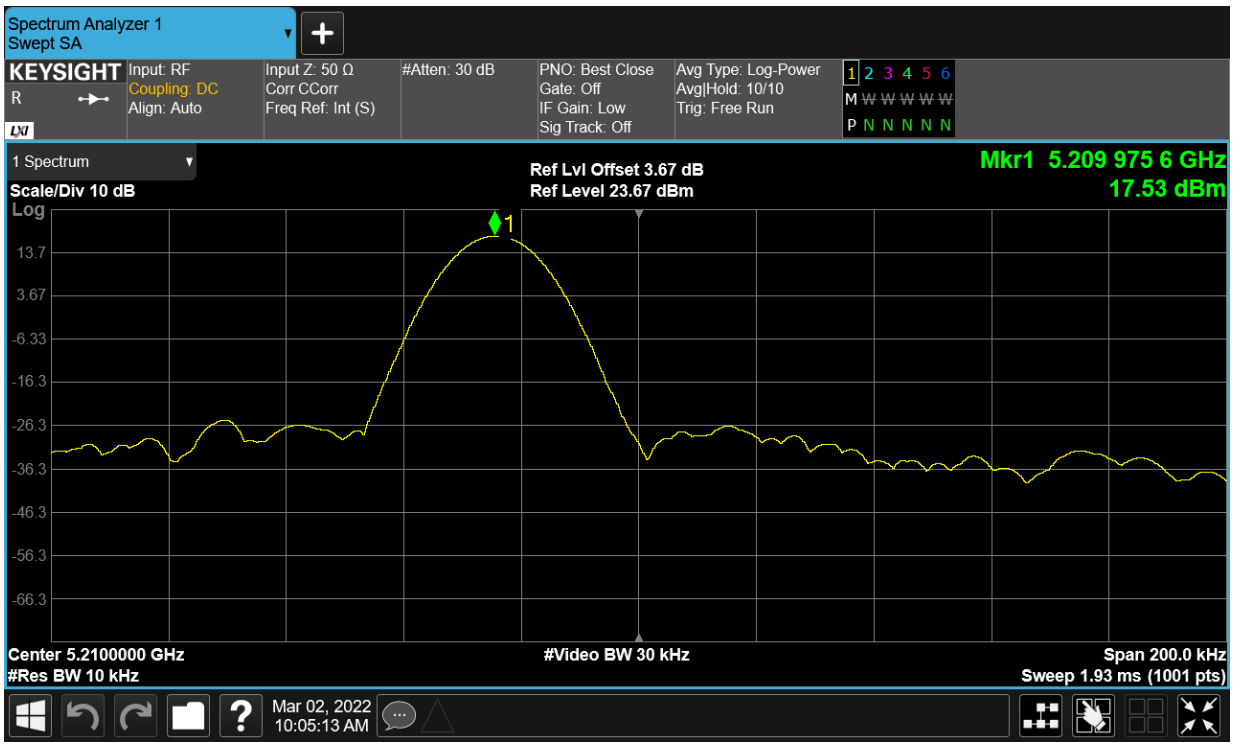
Freq. Stability NVHT ac80 5210MHz Ant1



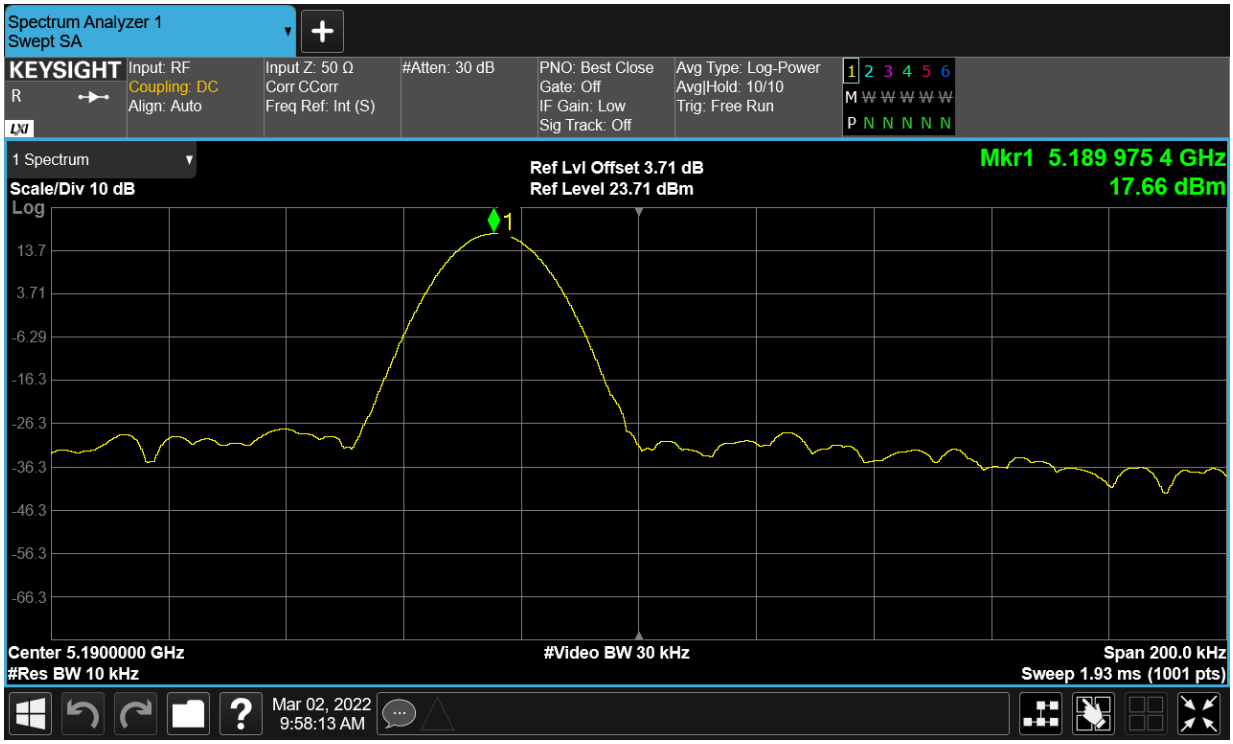
Freq. Stability NVLT ac80 5210MHz Ant1



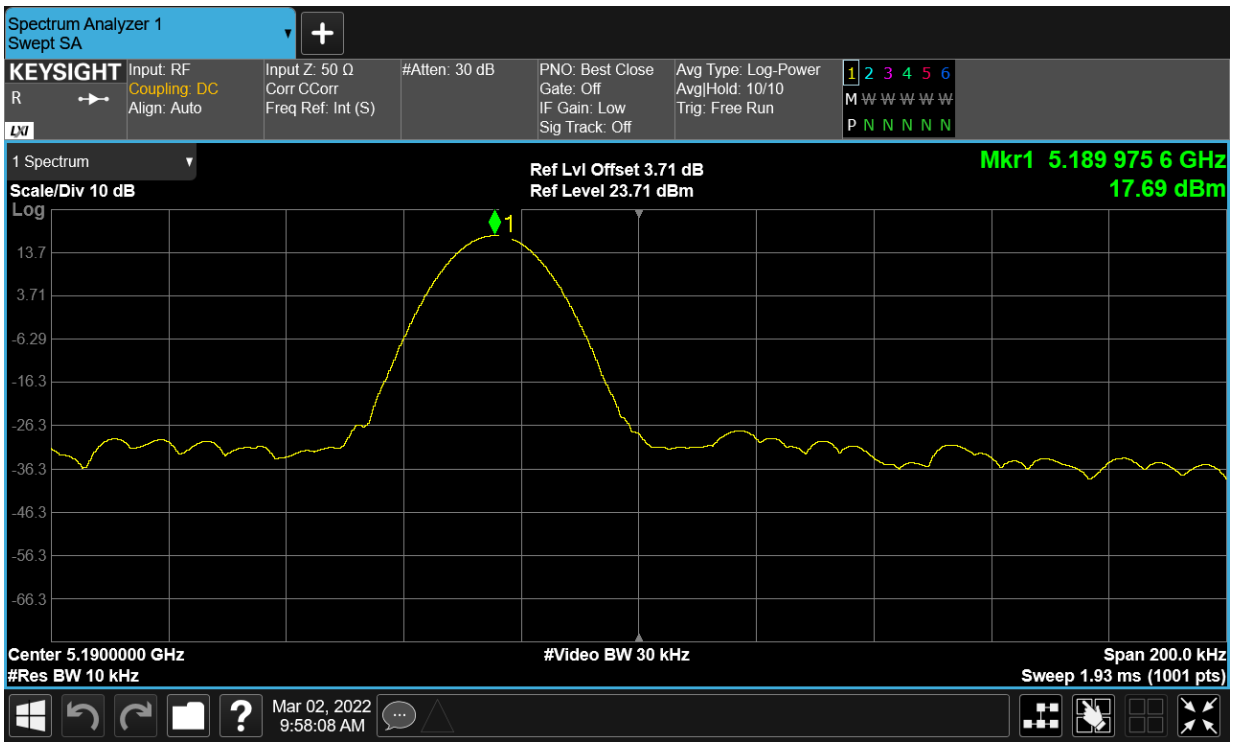
Freq. Stability NVNT ac80 5210MHz Ant1



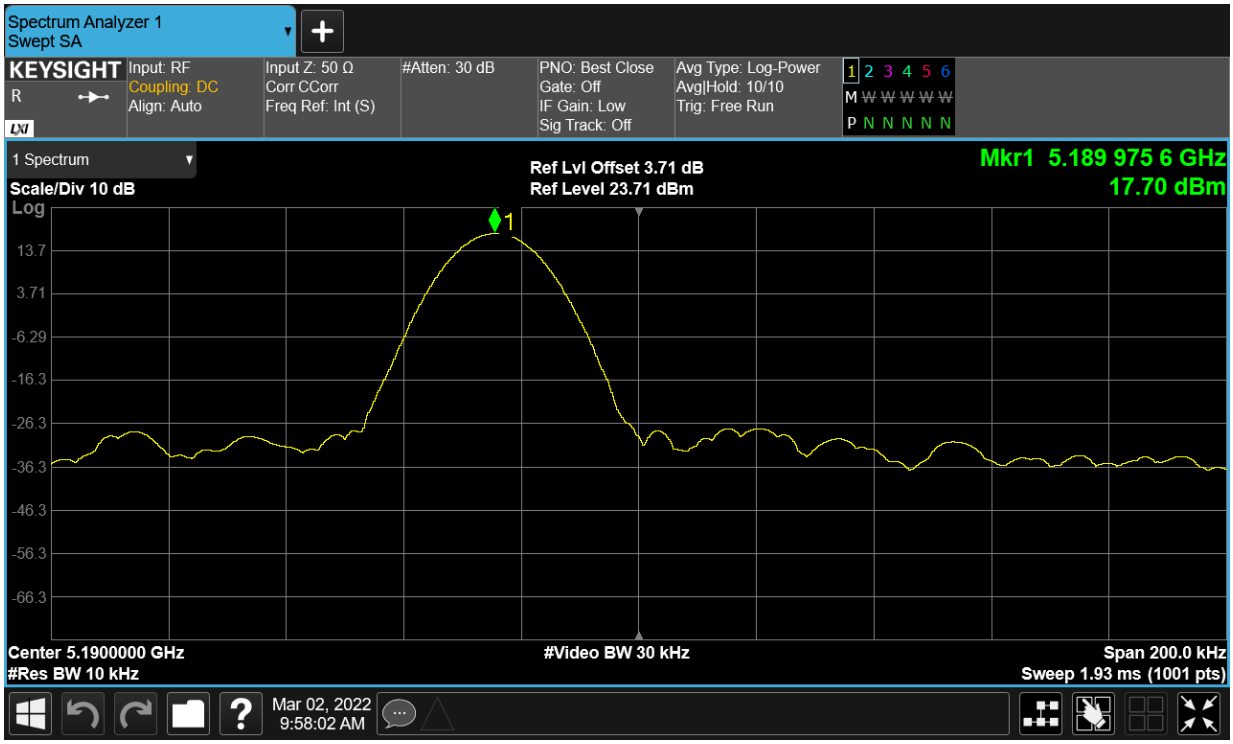
Freq. Stability HVNT n40 5190MHz Ant1



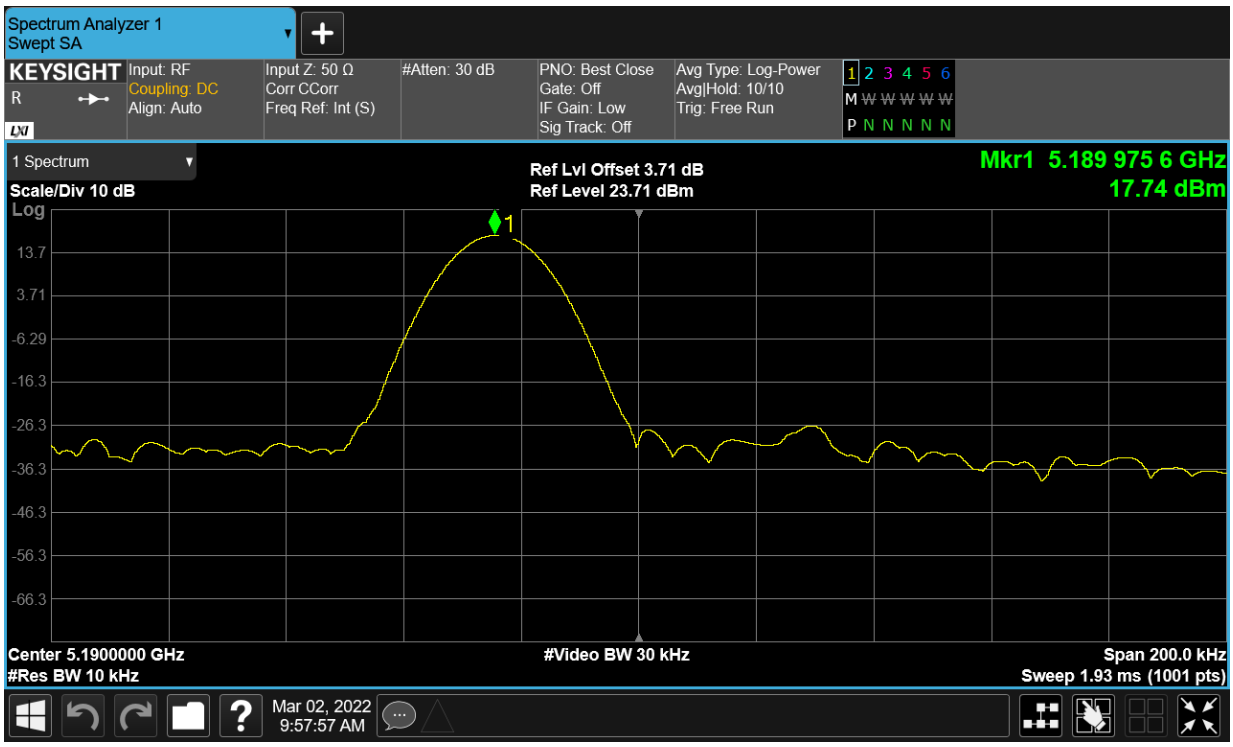
Freq. Stability LVNT n40 5190MHz Ant1



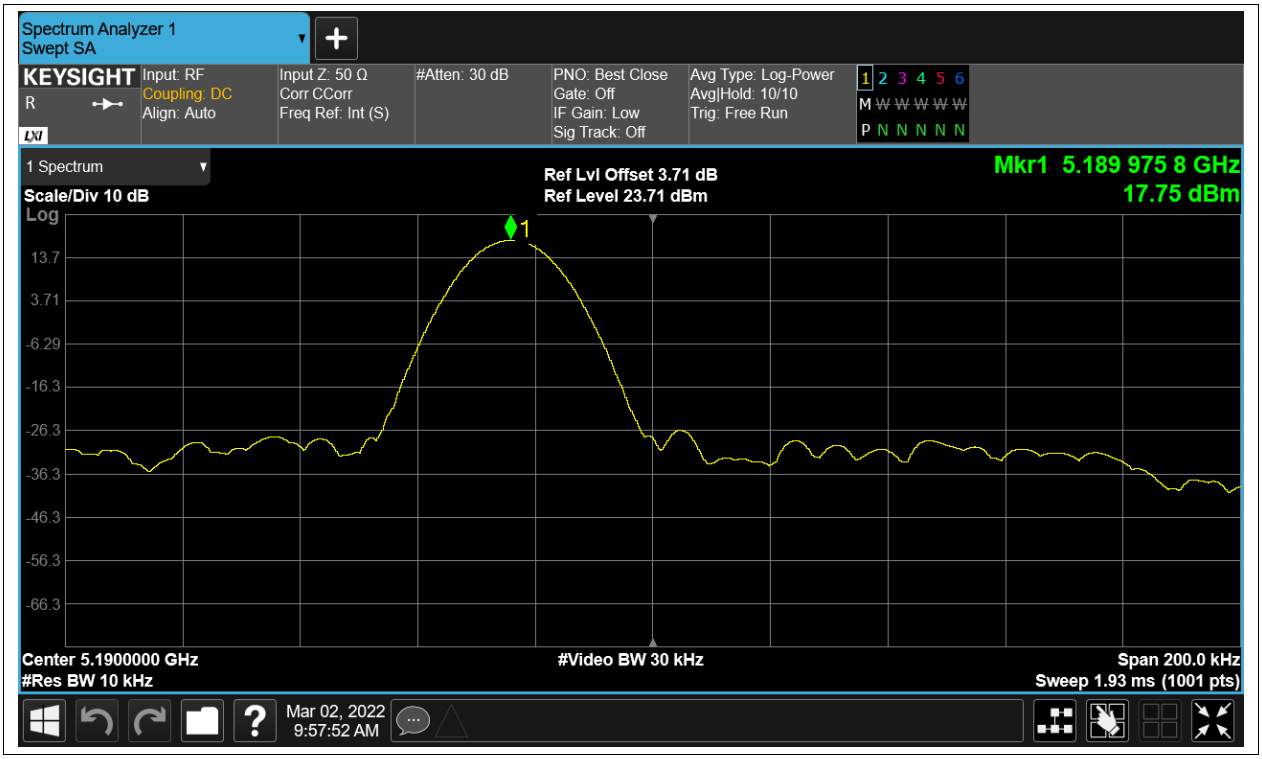
Freq. Stability NVHT n40 5190MHz Ant1



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: 30 dB
PNO: Best Close
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 3.71 dB
Ref Level 23.71 dBm
Mkr1 5.189 975 8 GHz
17.75 dBm
Log
13.7
3.71
-6.29
-16.3
-26.3
-36.3
-46.3
-56.3
-66.3
Center 5.1900000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 200.0 kHz
Sweep 1.93 ms (1001 pts)
Mar 02, 2022
9:57:52 AM