

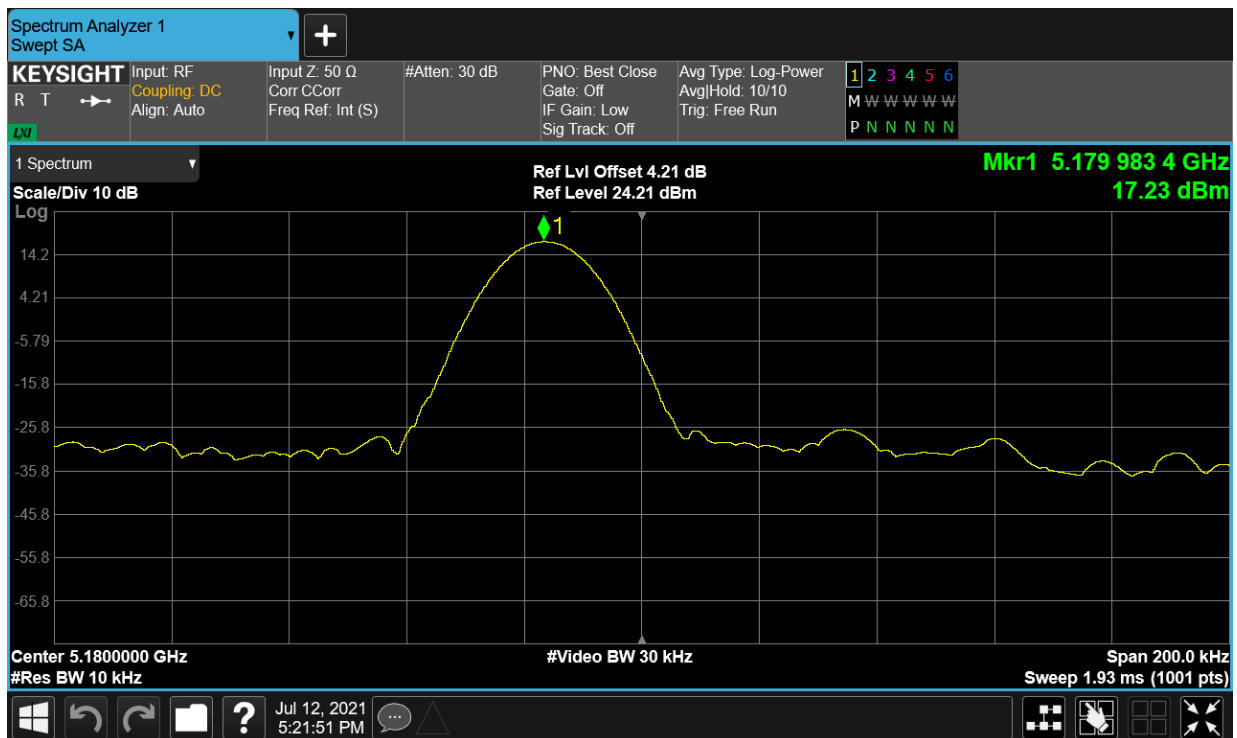
Test Data

Frequency Stability (worst case mode)

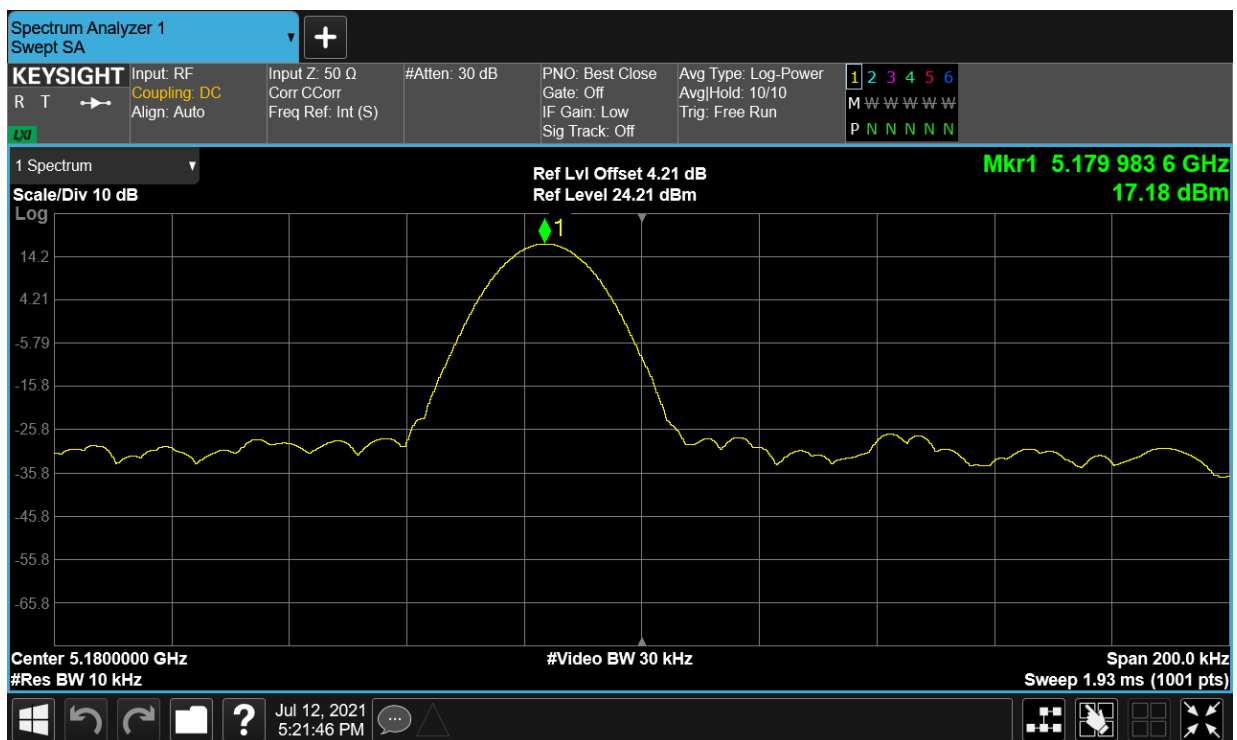
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5180	Ant1	5179.9834	-3.2	25	Pass
HVLT	a	5180	Ant1	5179.9836	-3.17	25	Pass
LVHT	a	5180	Ant1	5179.9836	-3.17	25	Pass
LVLT	a	5180	Ant1	5179.9836	-3.17	25	Pass
NVNT	a	5180	Ant1	5179.9838	-3.13	25	Pass
HVHT	ac80	5210	Ant1	5209.9846	-2.96	25	Pass
HVLT	ac80	5210	Ant1	5209.9844	-2.99	25	Pass
LVHT	ac80	5210	Ant1	5209.9842	-3.03	25	Pass
LVLT	ac80	5210	Ant1	5209.983	-3.26	25	Pass
NVNT	ac80	5210	Ant1	5209.9852	-2.84	25	Pass
HVHT	n40	5190	Ant1	5189.9844	-3.01	25	Pass
HVLT	n40	5190	Ant1	5189.9844	-3.01	25	Pass
LVHT	n40	5190	Ant1	5189.9844	-3.01	25	Pass
LVLT	n40	5190	Ant1	5189.9844	-3.01	25	Pass
NVNT	n40	5190	Ant1	5189.9842	-3.04	25	Pass

Remark: "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage.

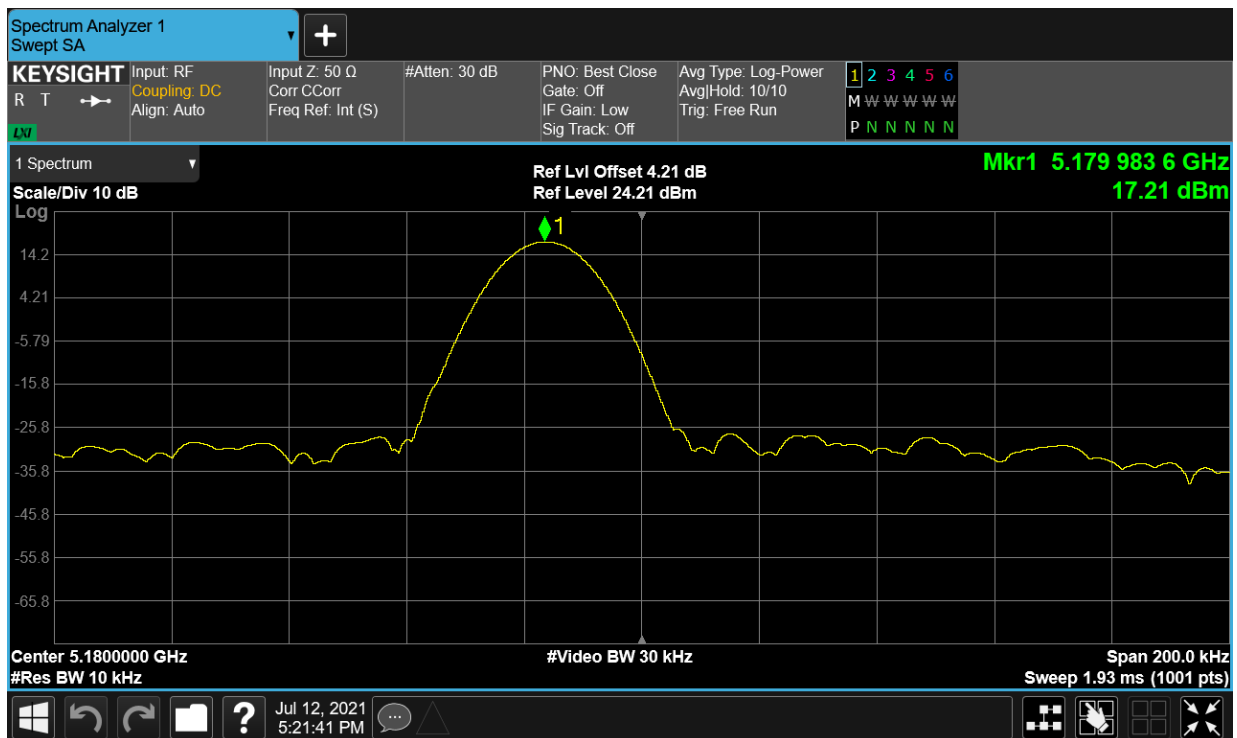
Freq. Stability HVHT a 5180MHz Ant1



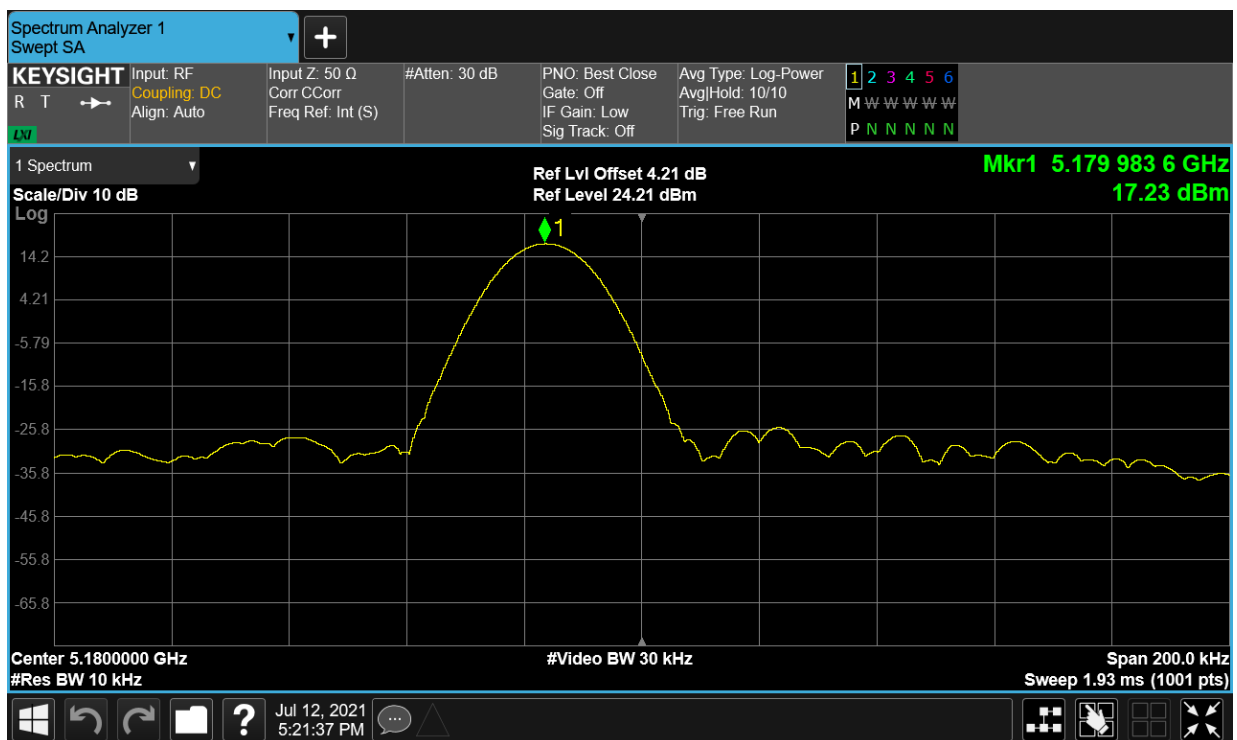
Freq. Stability HVLt a 5180MHz Ant1



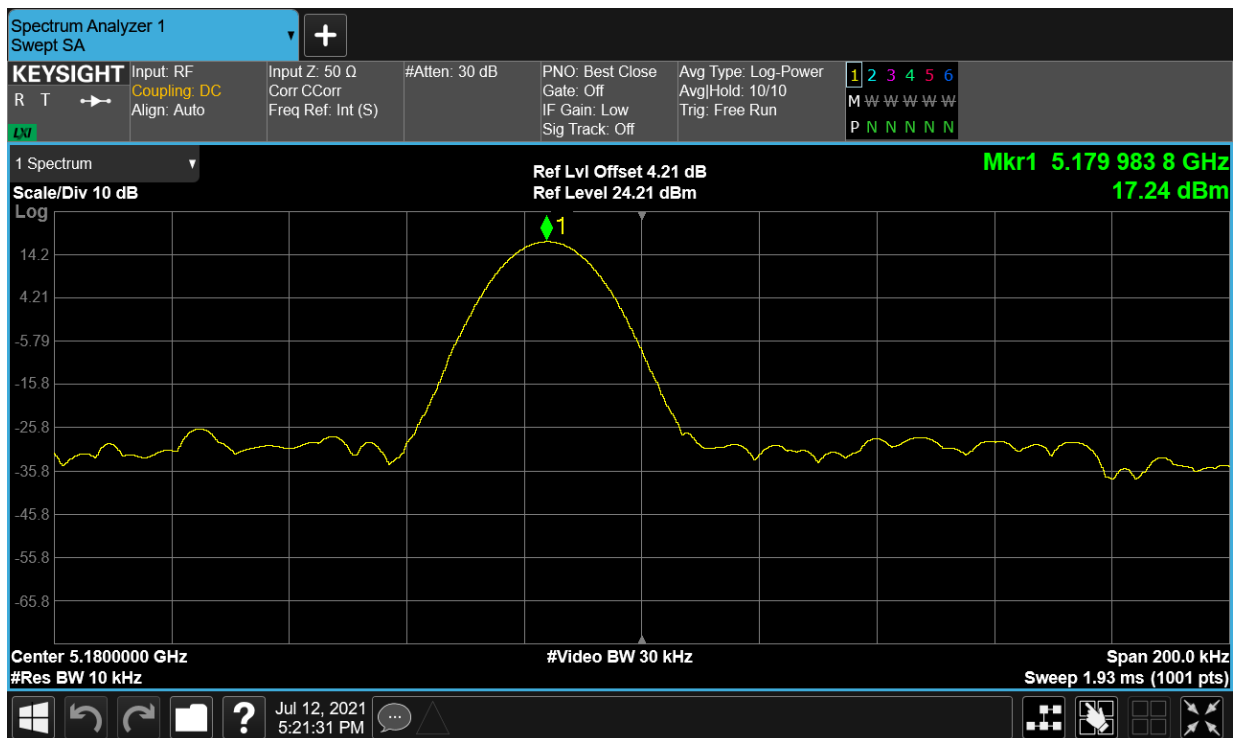
Freq. Stability LVHT a 5180MHz Ant1



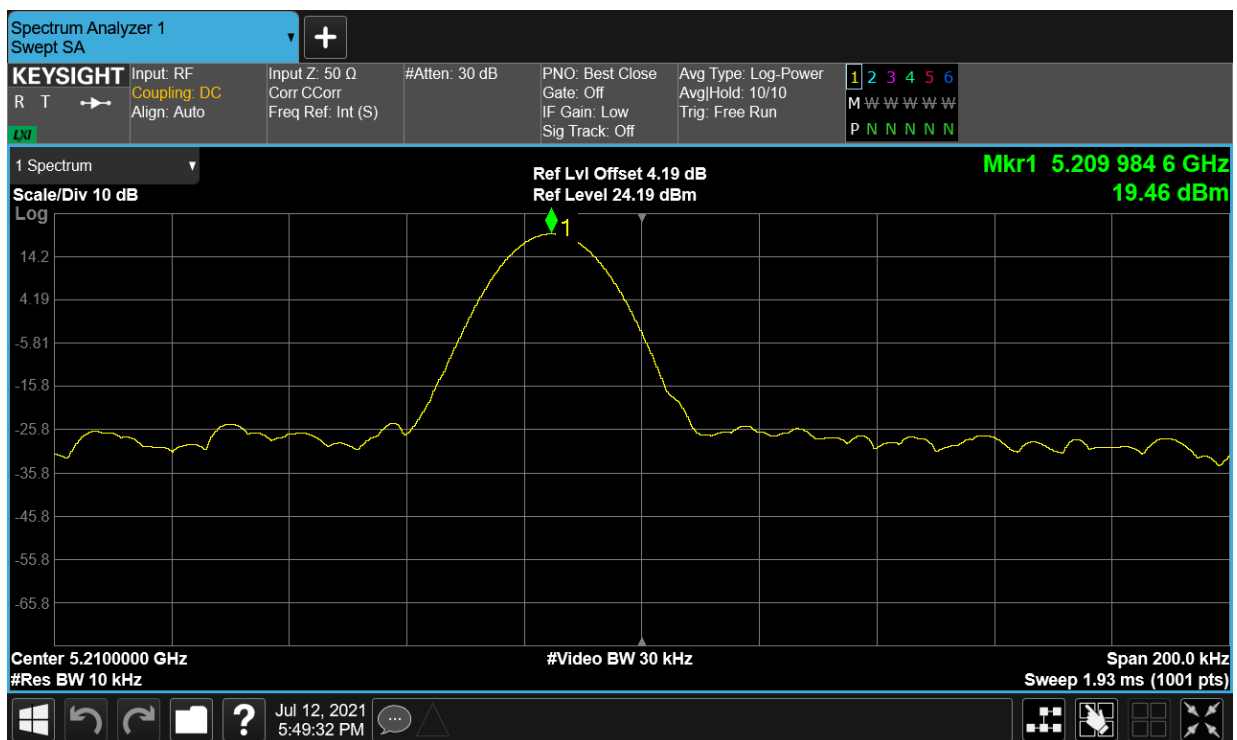
Freq. Stability LVLT a 5180MHz Ant1



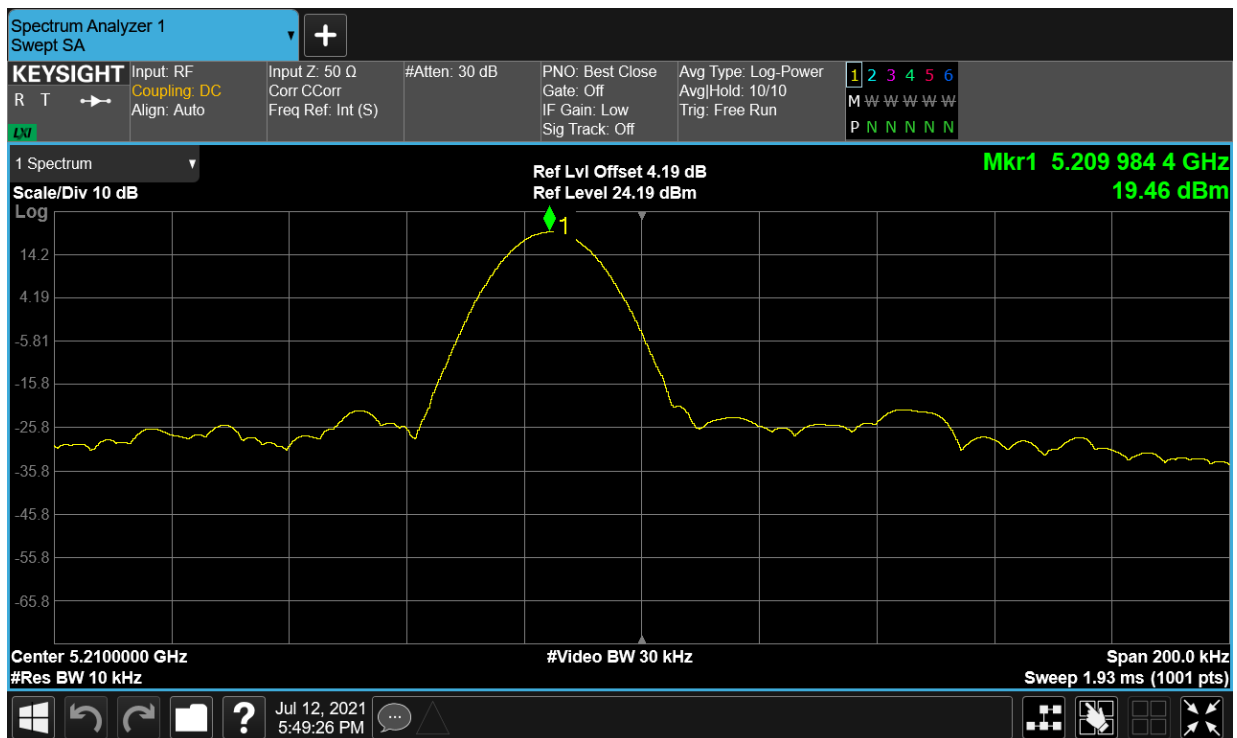
Freq. Stability NVNT a 5180MHz Ant1



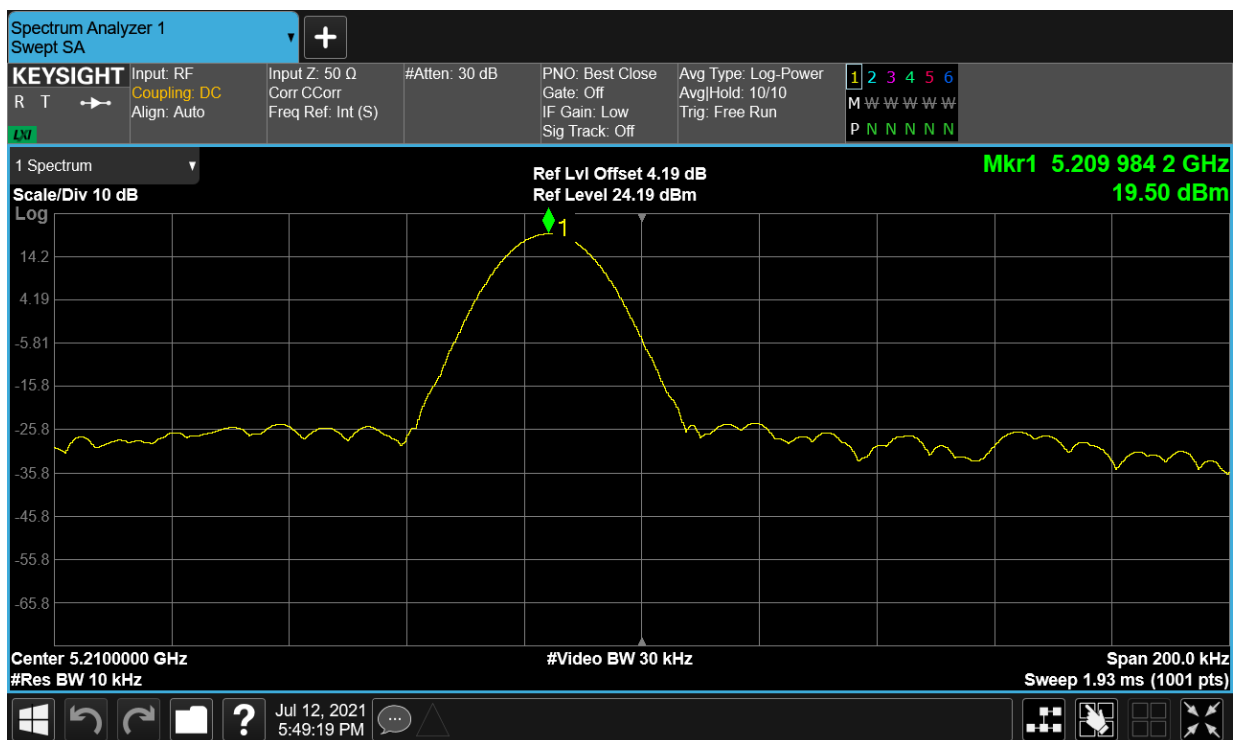
Freq. Stability HVHT ac80 5210MHz Ant1



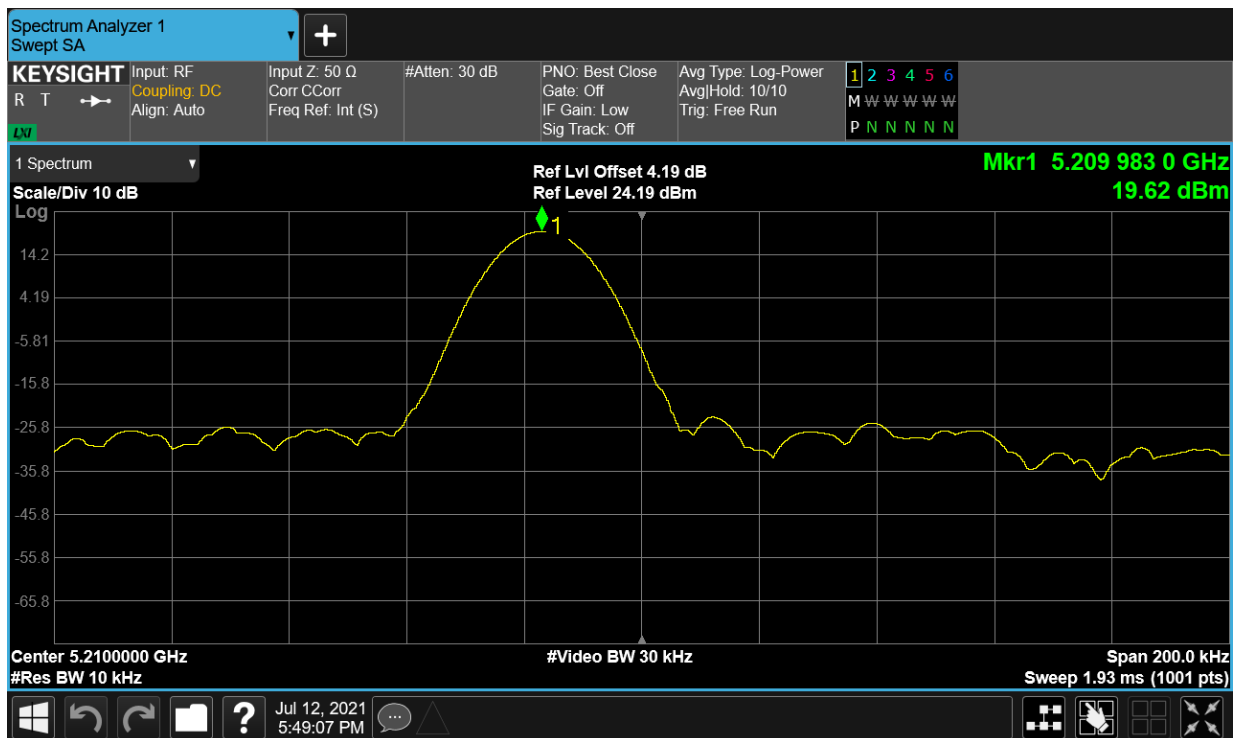
Freq. Stability HVLT ac80 5210MHz Ant1



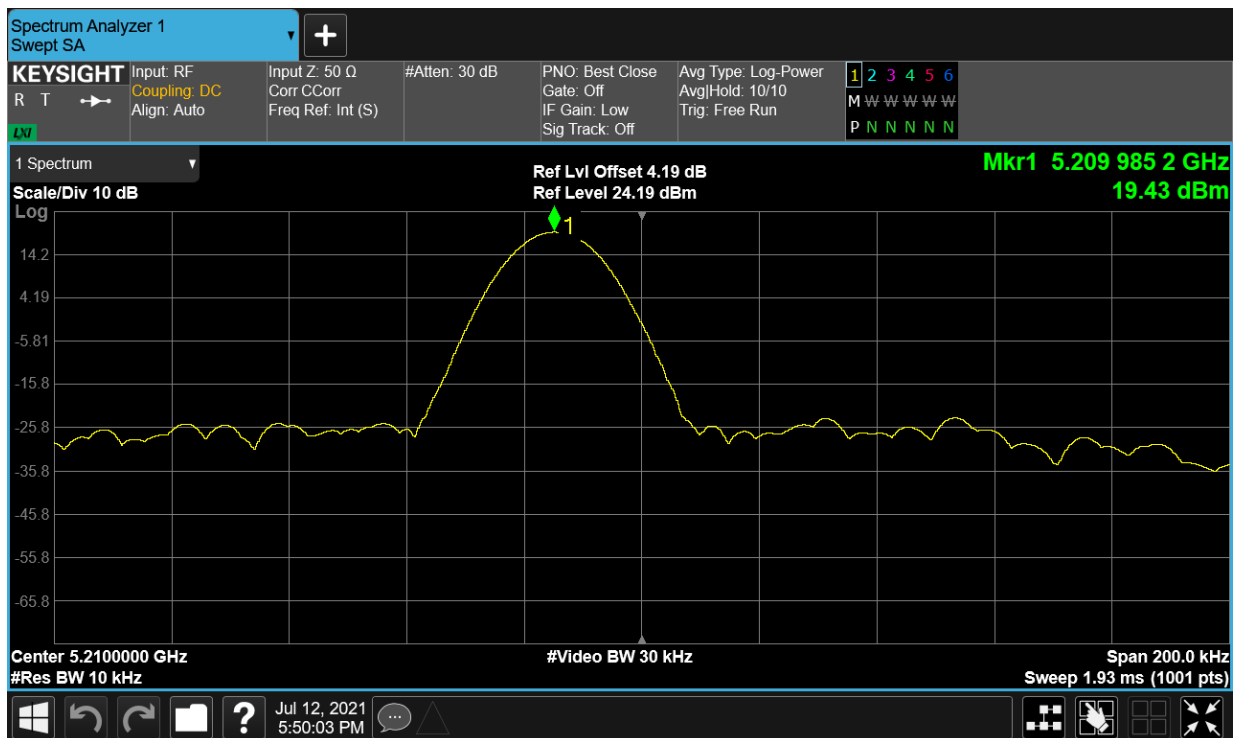
Freq. Stability LVHT ac80 5210MHz Ant1



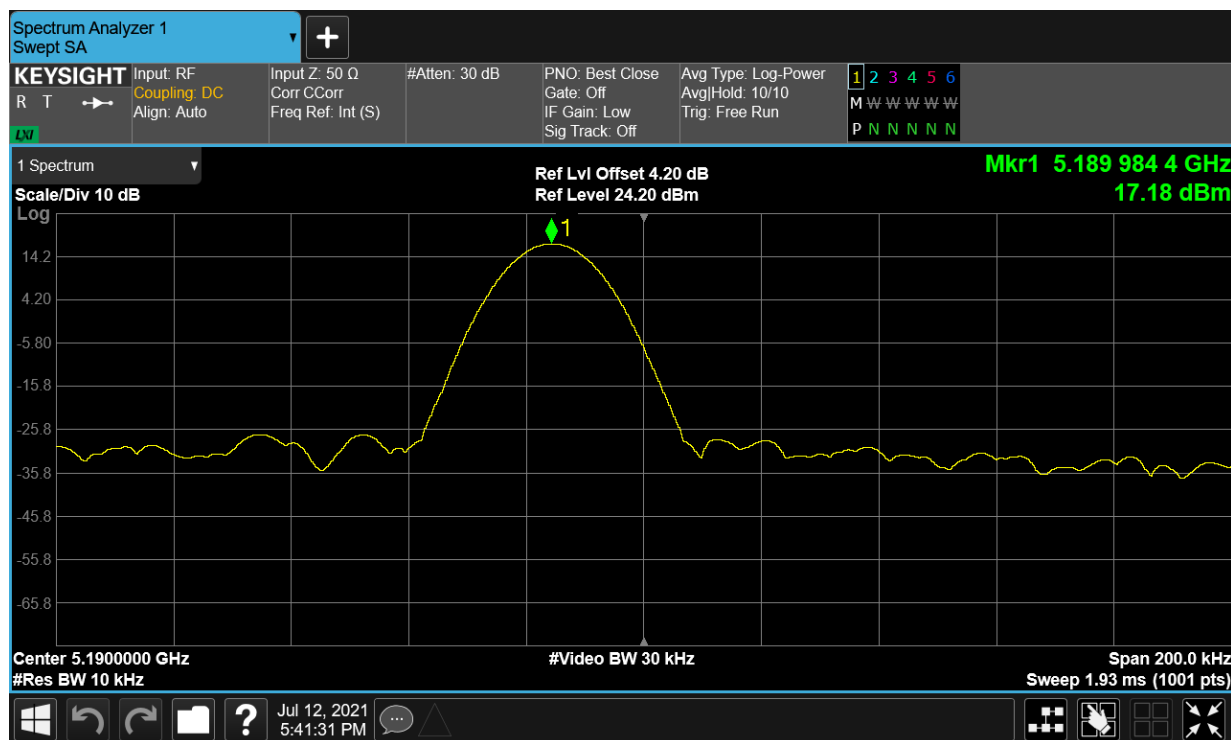
Freq. Stability LVLT ac80 5210MHz Ant1



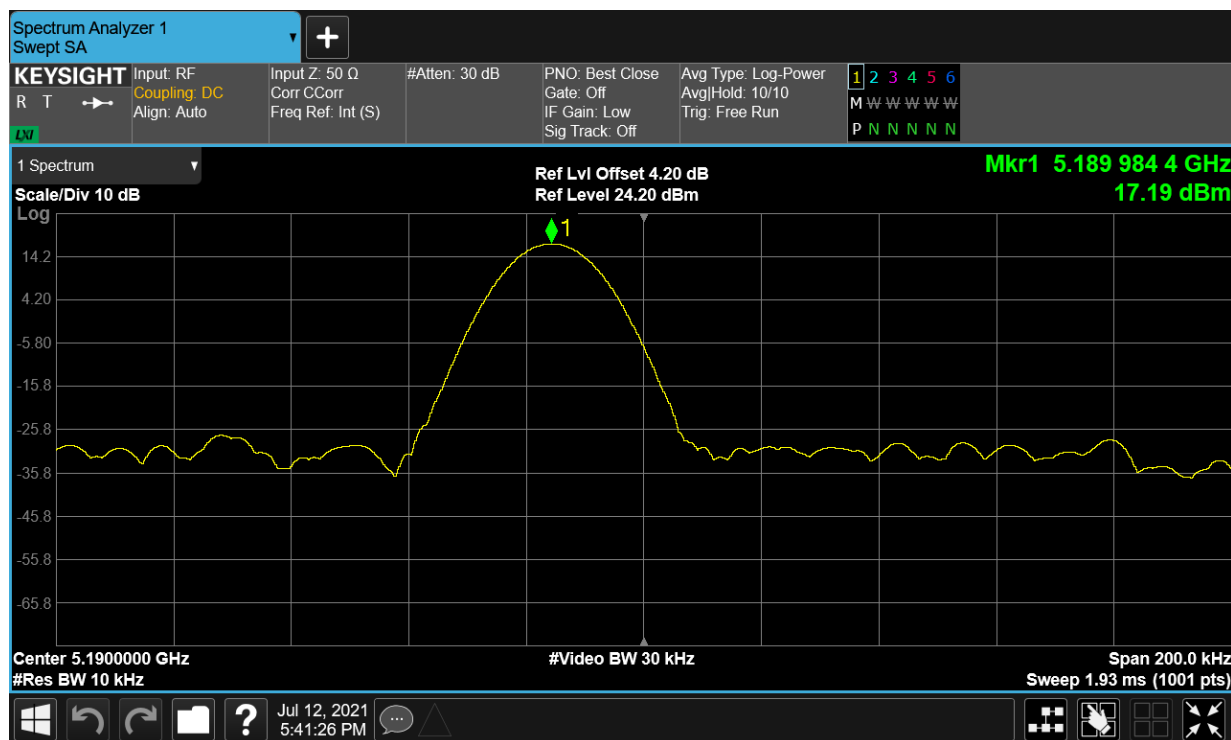
Freq. Stability NVNT ac80 5210MHz Ant1



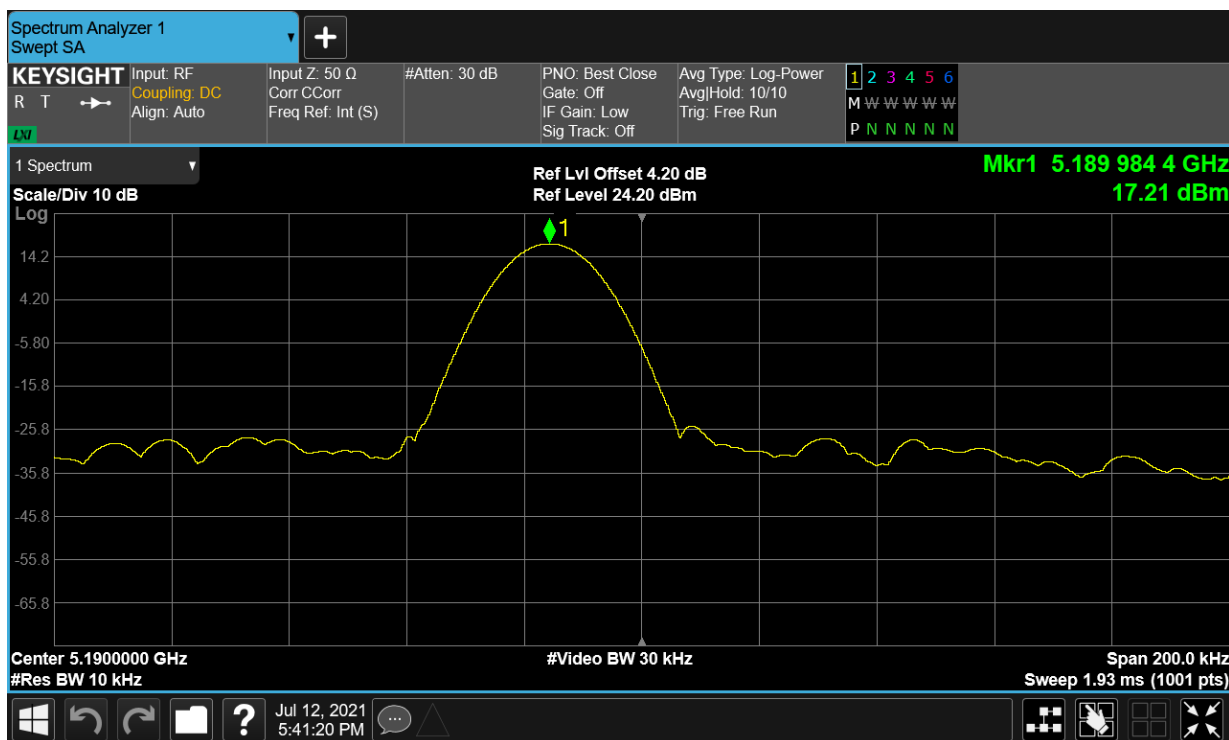
Freq. Stability HVHT n40 5190MHz Ant1



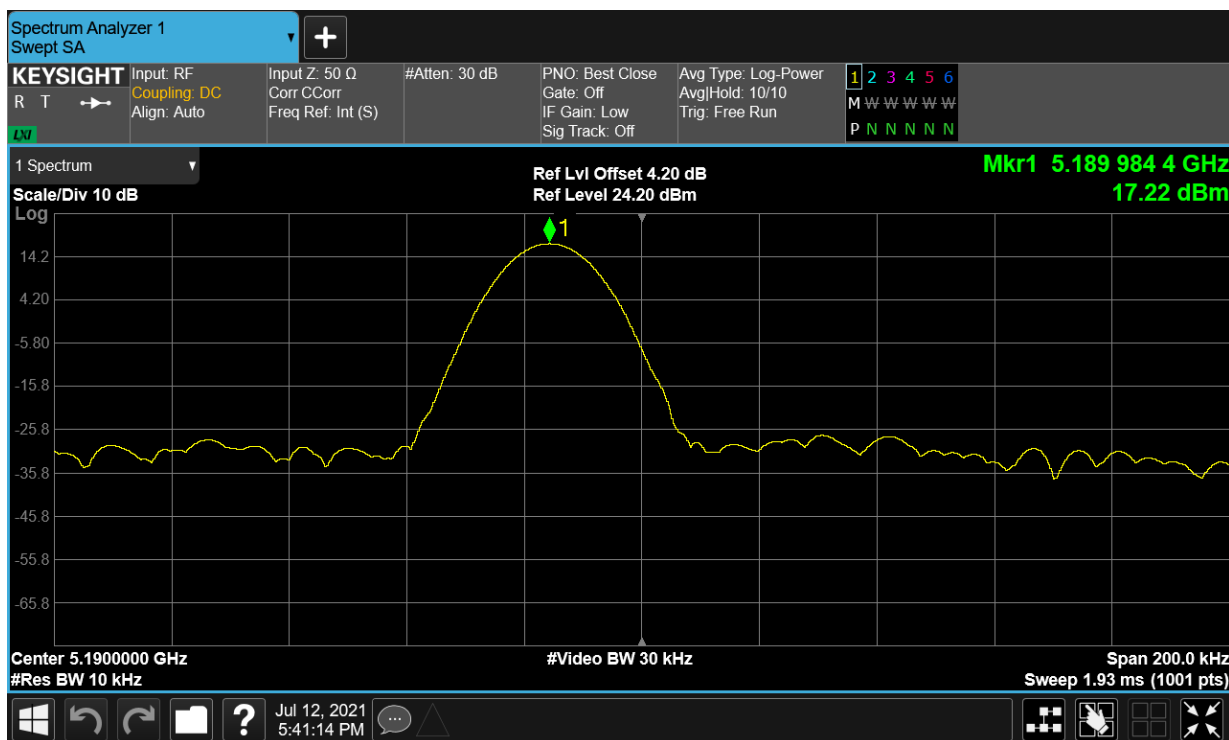
Freq. Stability HVLT n40 5190MHz Ant1



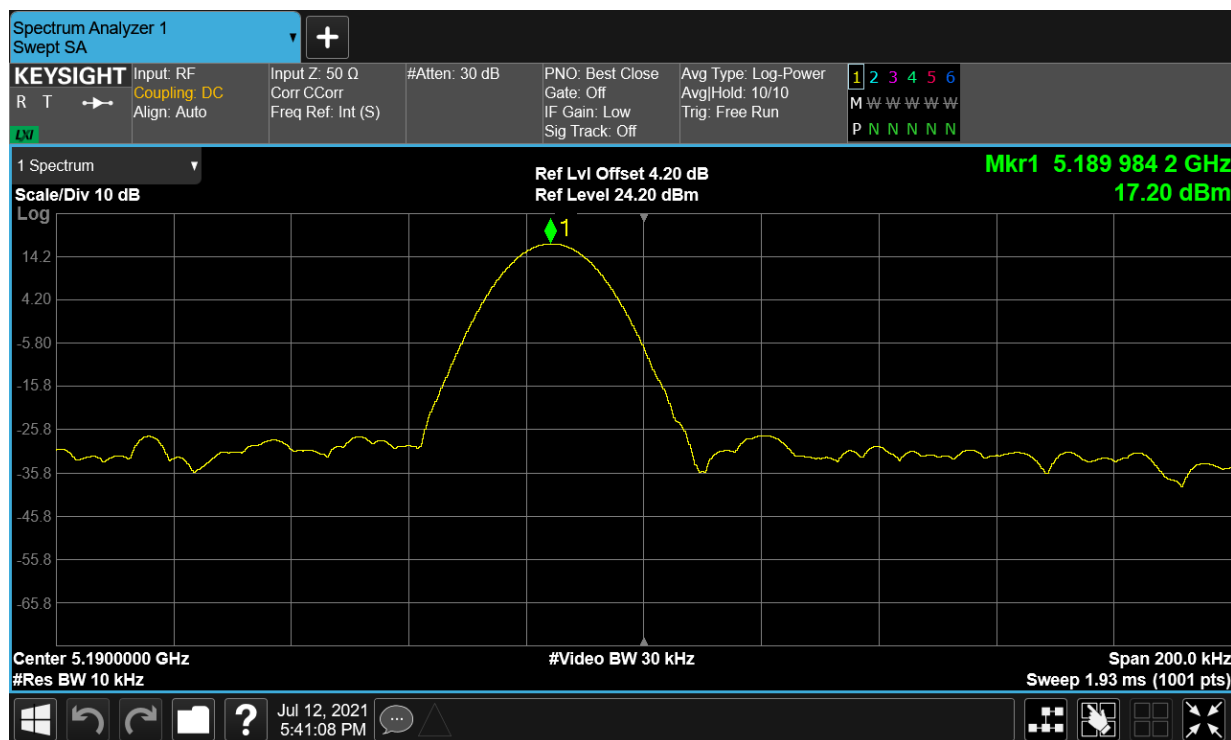
Freq. Stability LVHT n40 5190MHz Ant1



Freq. Stability LVLT n40 5190MHz Ant1



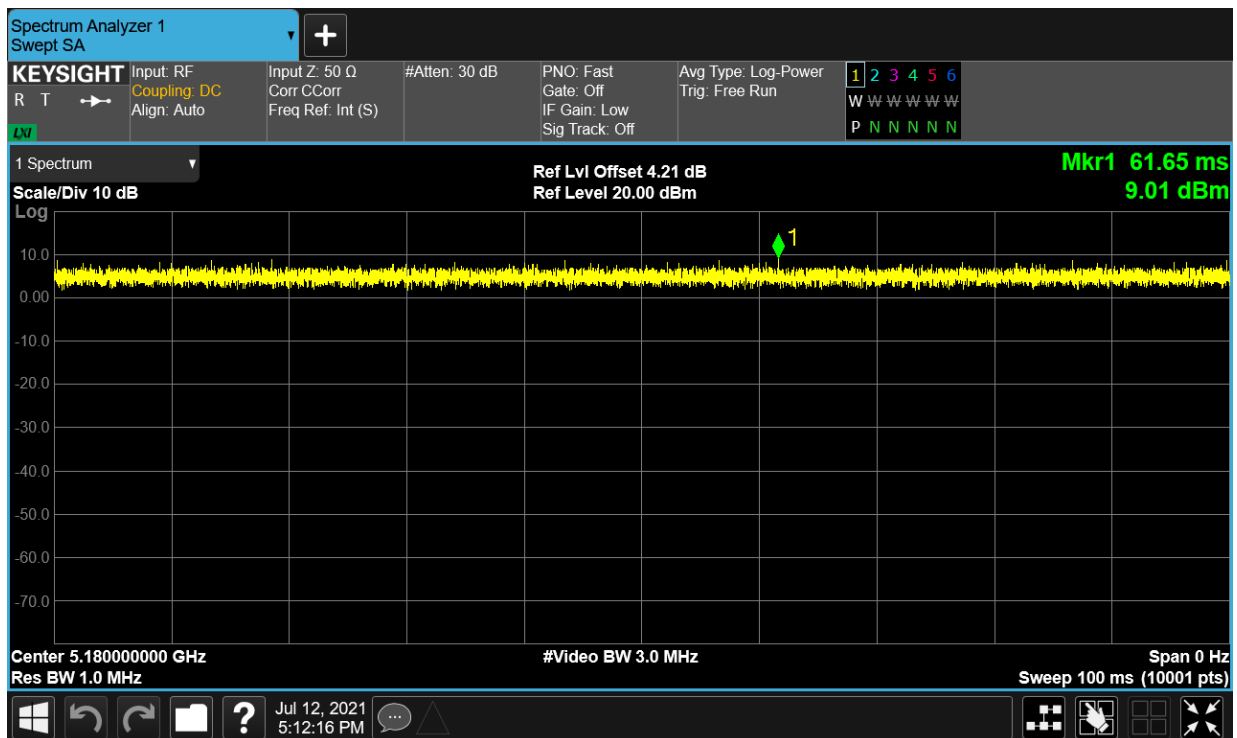
Freq. Stability NVNT n40 5190MHz Ant1



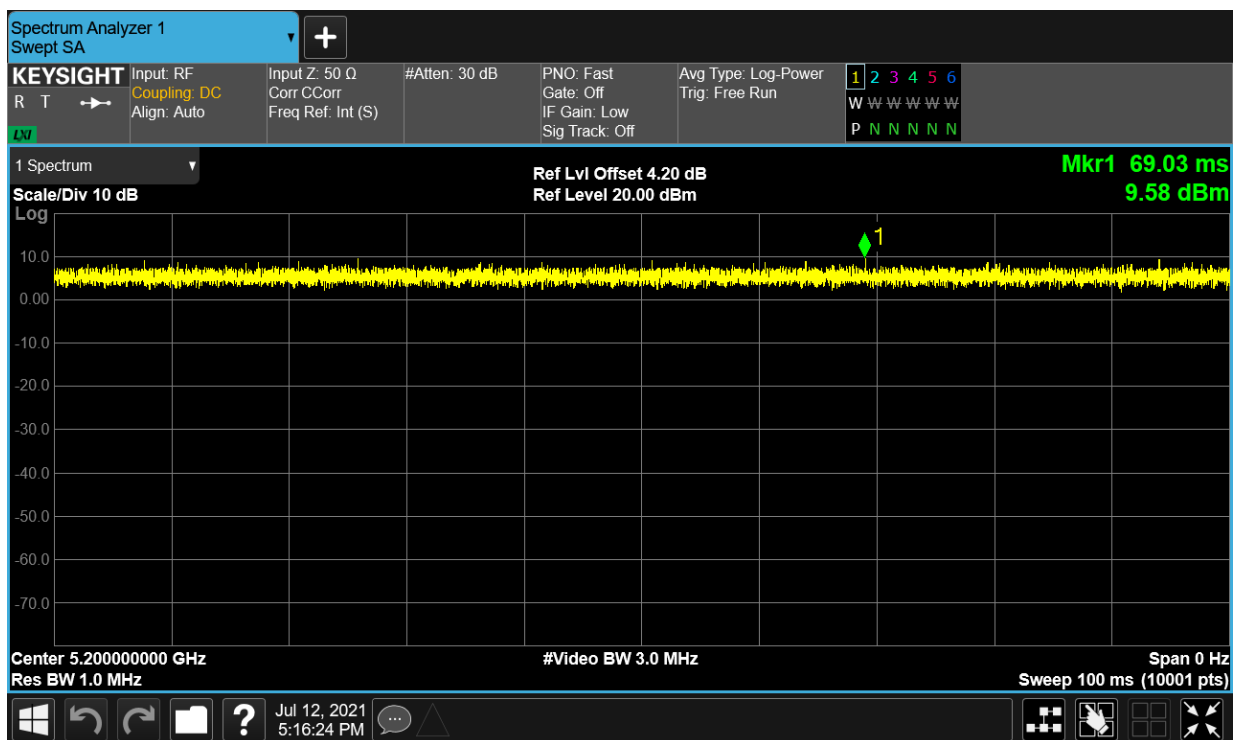
Duty Cycle

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

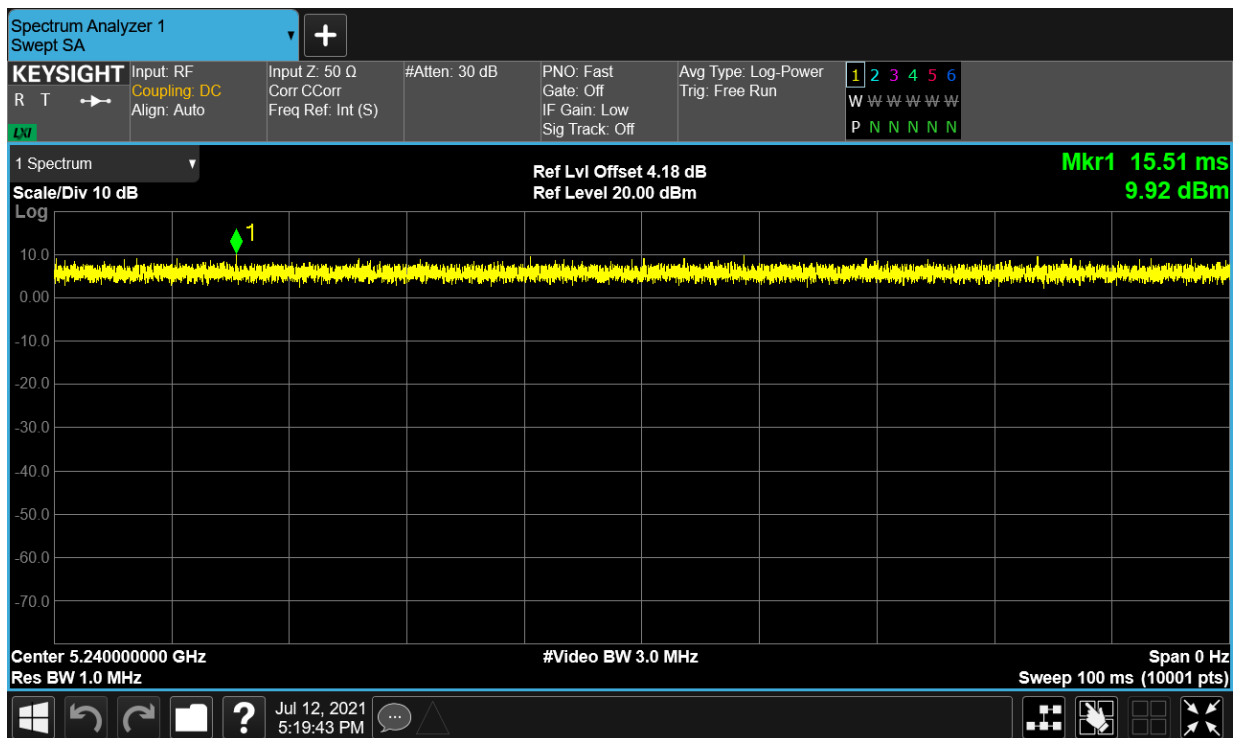
Duty Cycle NVNT a 5180MHz Ant1



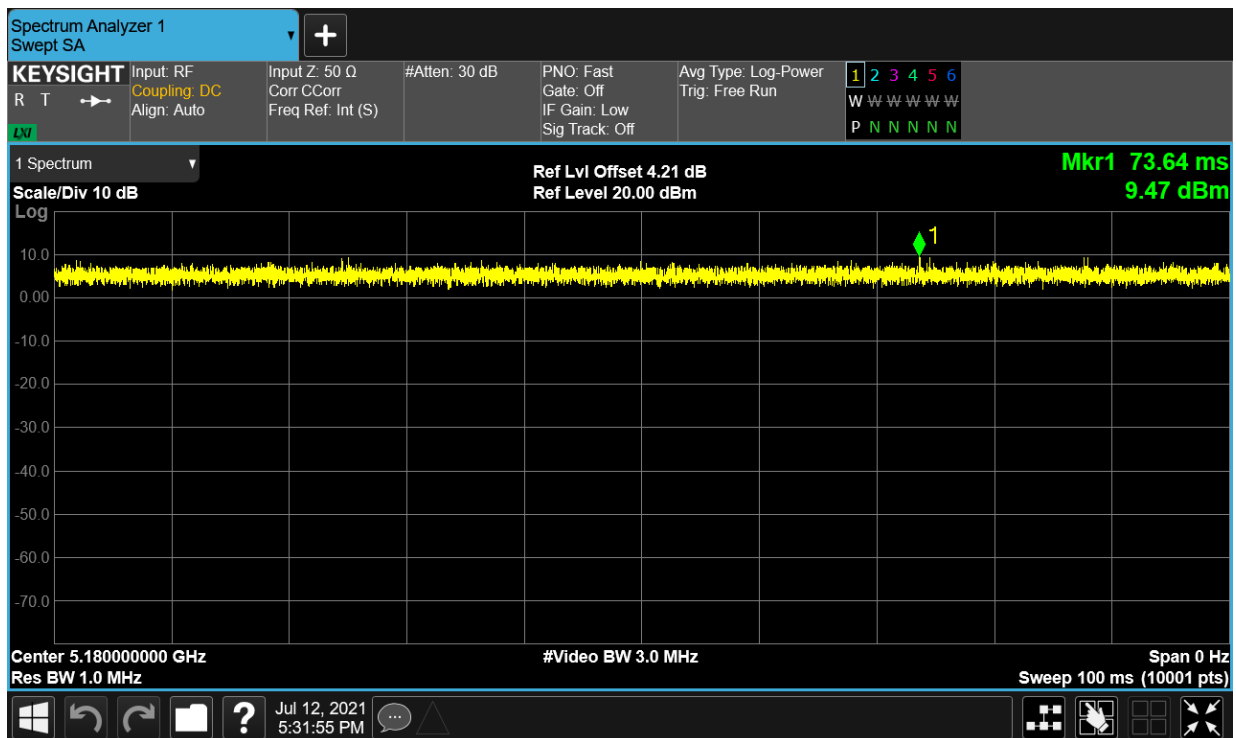
Duty Cycle NVNT a 5200MHz Ant1



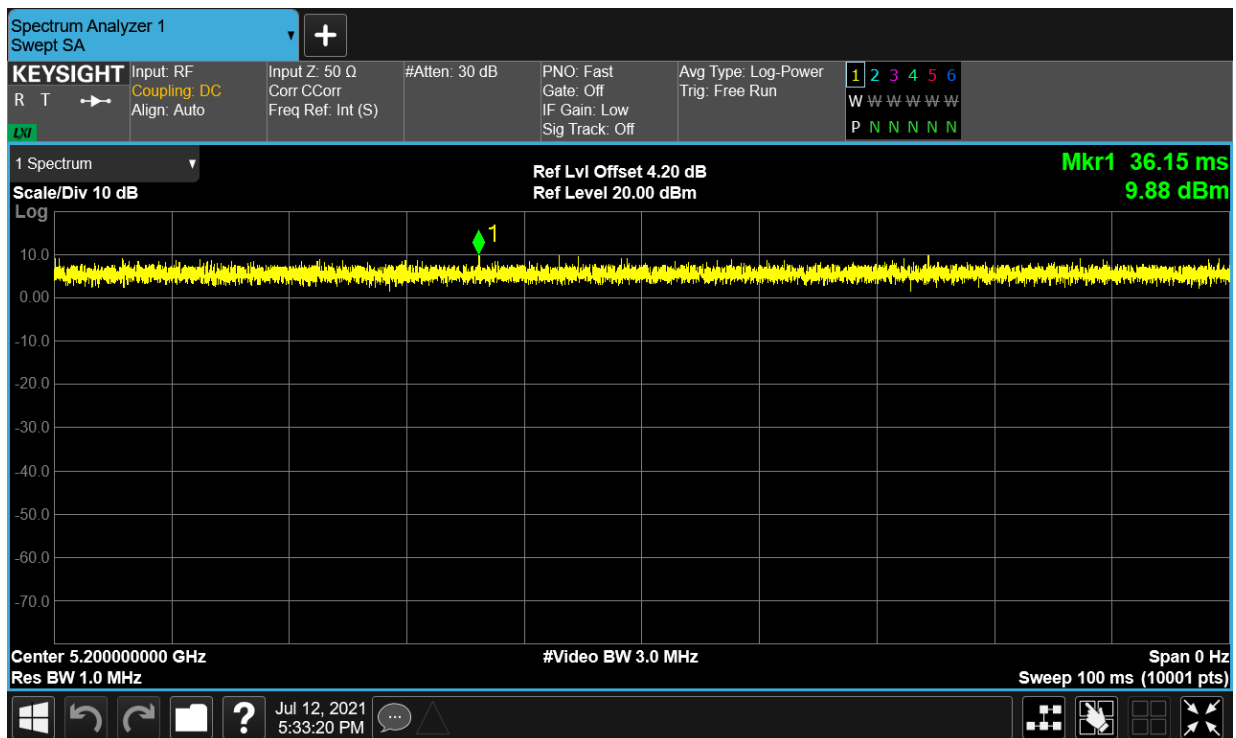
Duty Cycle NVNT a 5240MHz Ant1



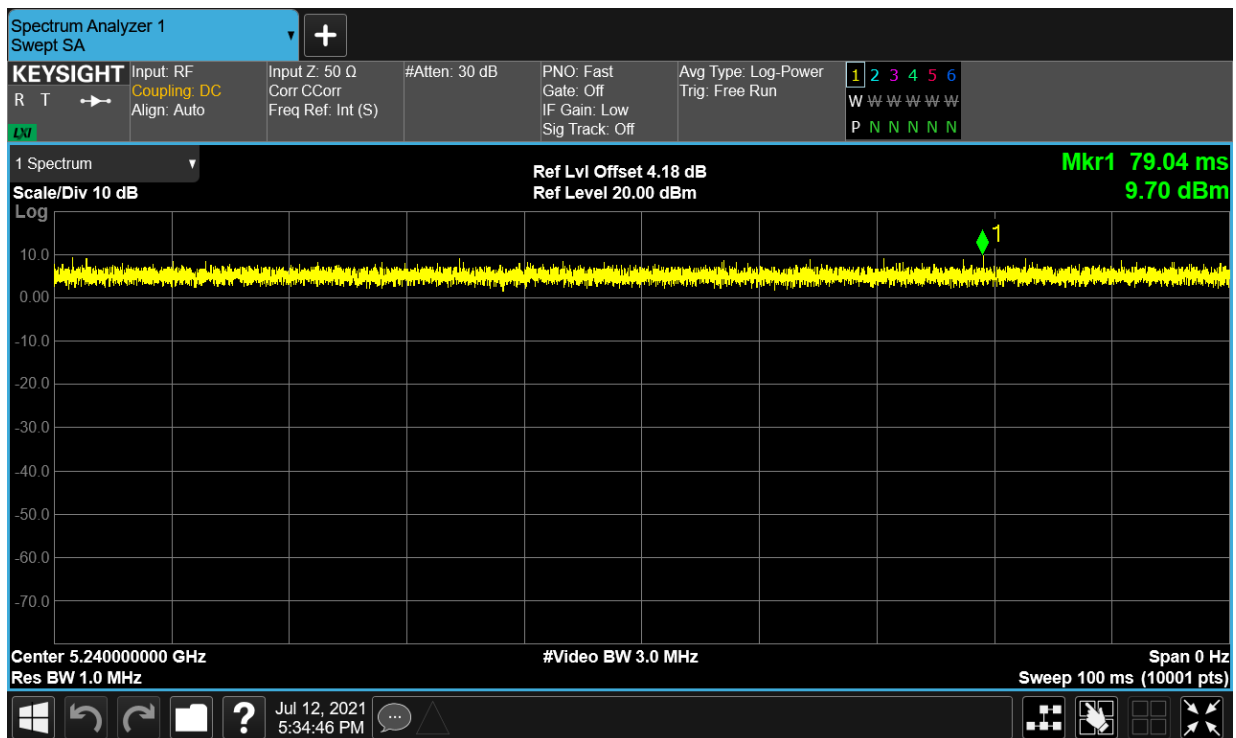
Duty Cycle NVNT ac20 5180MHz Ant1



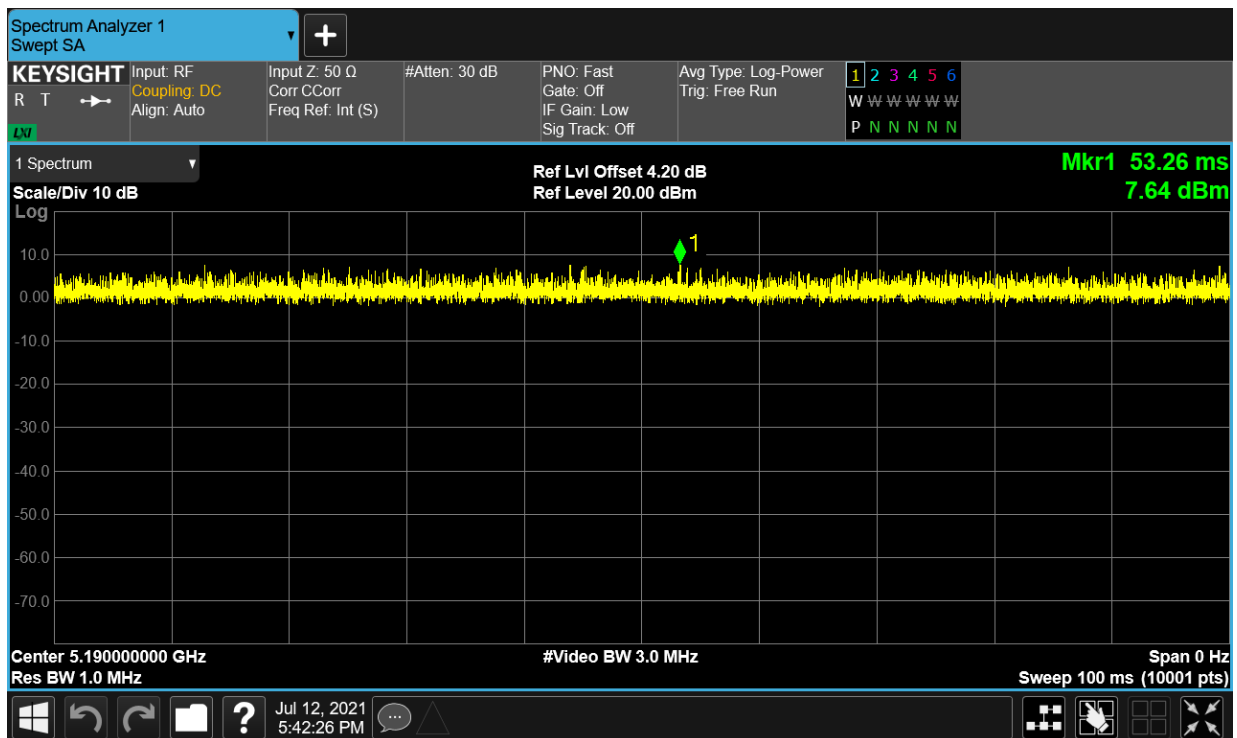
Duty Cycle NVNT ac20 5200MHz Ant1



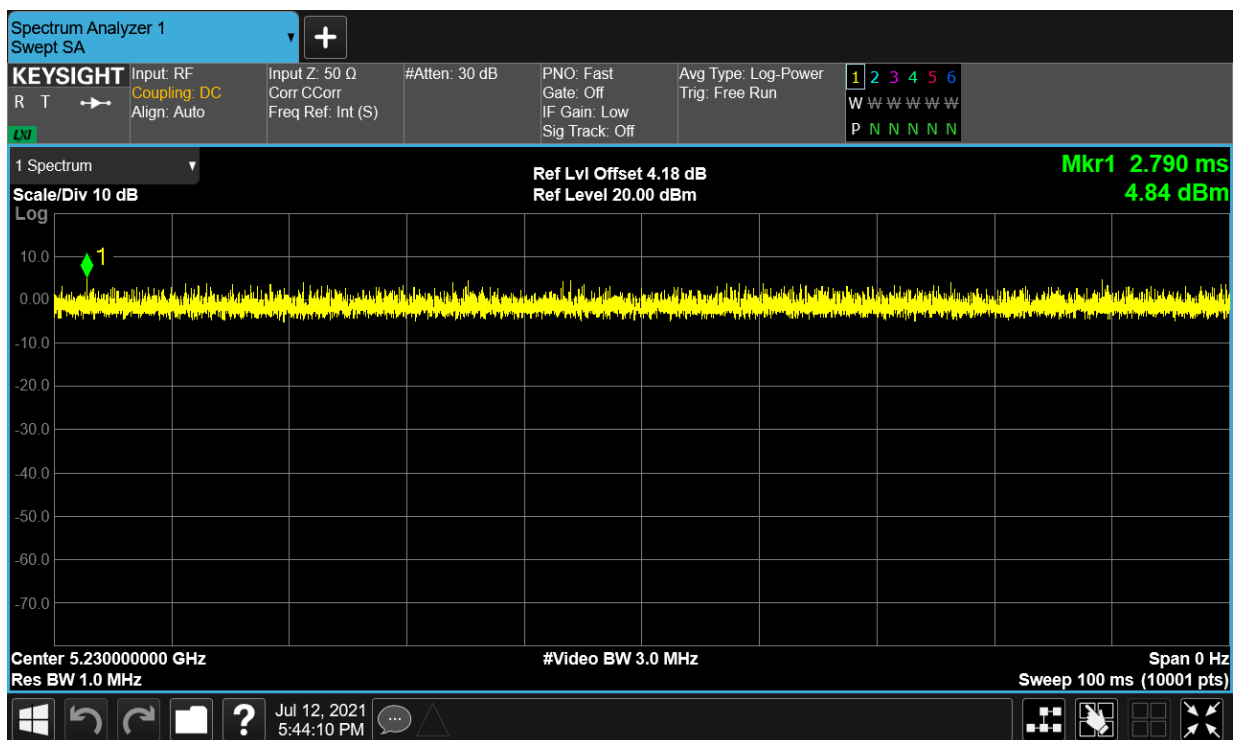
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr C: Corr
Freq Ref: Int (S)

#Atten: 30 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Log-Power
Trig: Free Run

1 2 3 4 5 6
W W W W W W
P N N N N N

1 Spectrum

Scale/Div 10 dB
Log

Ref Lvl Offset 4.19 dB
Ref Level 20.00 dBm

Mkr1 92.10 ms
1.95 dBm

1

Center 5.210000000 GHz
Res BW 1.0 MHz

#Video BW 3.0 MHz

Span 0 Hz
Sweep 100 ms (10001 pts)

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: Log-Power
Trig: Free Run

1 2 3 4 5 6
W W W W W W
P N N N N N

1 Spectrum

Scale/Div 10 dB
Log

Ref Lvl Offset 4.21 dB
Ref Level 20.00 dBm

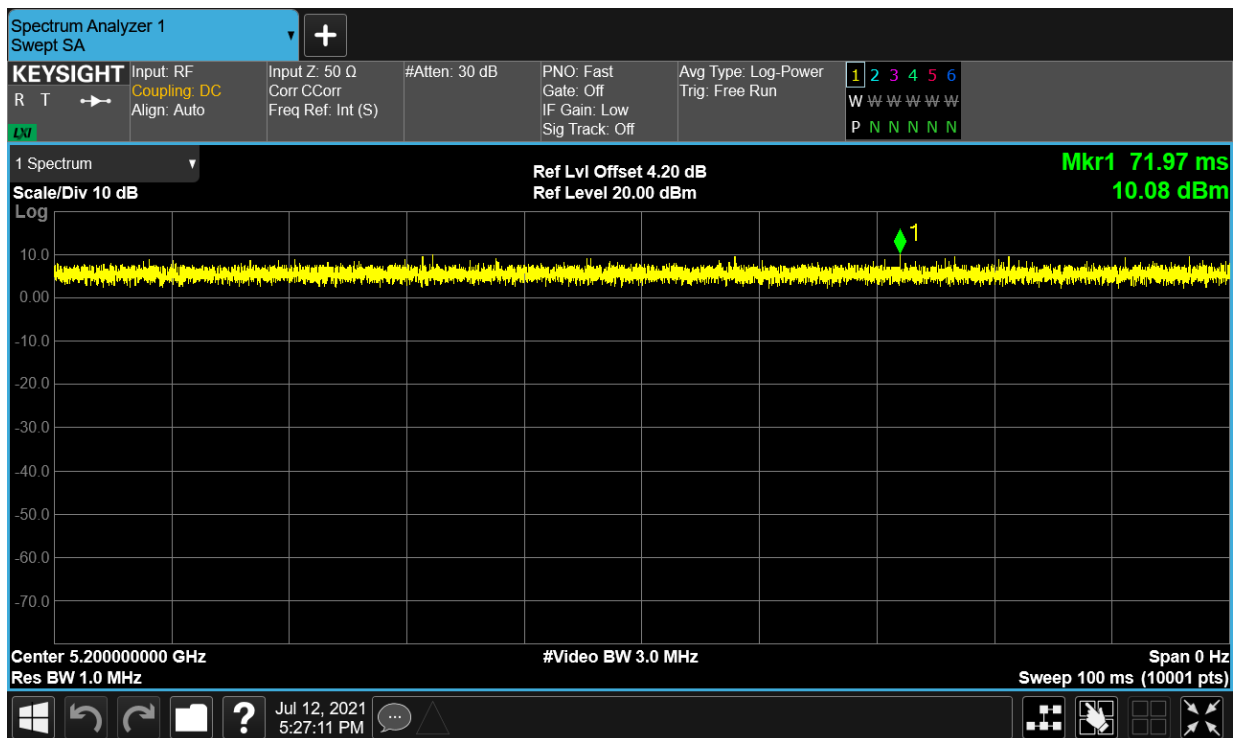
Mkr1 78.28 ms
12.90 dBm

Center 5.180000000 GHz
Res BW 1.0 MHz

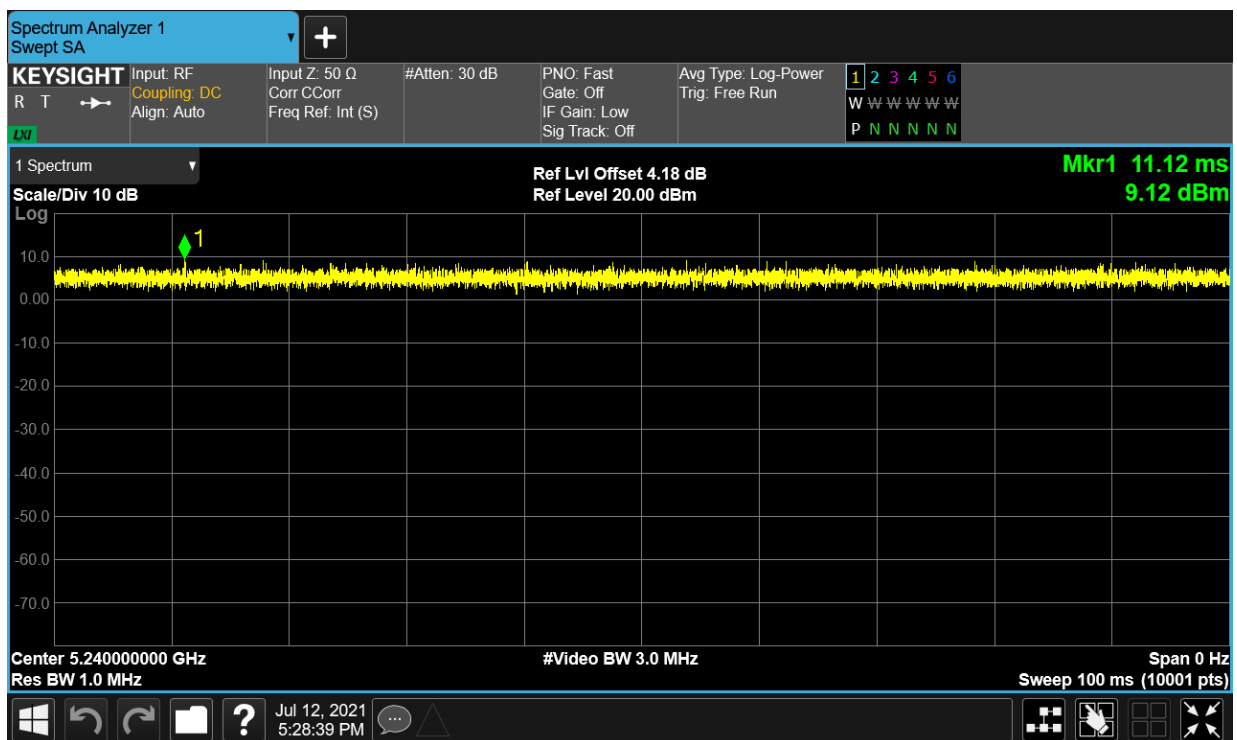
#Video BW 3.0 MHz

Span 0 Hz
Sweep 100 ms (10001 pts)

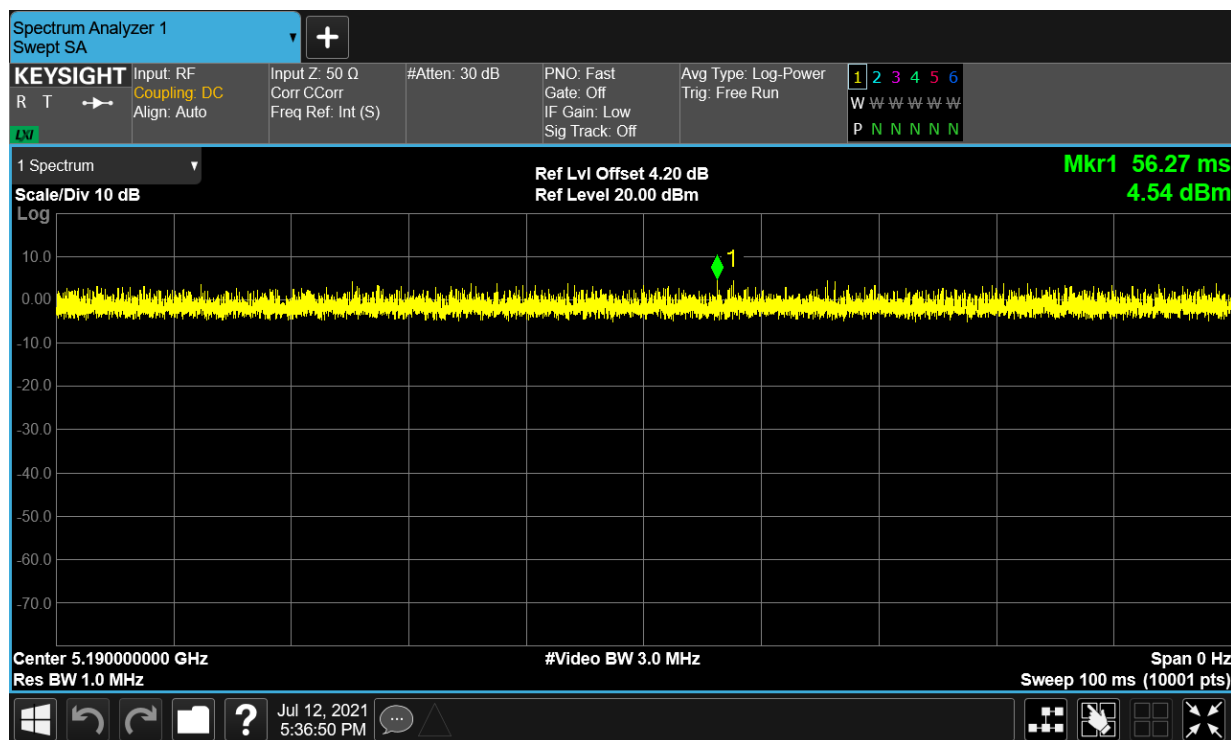
Duty Cycle NVNT n20 5200MHz Ant1



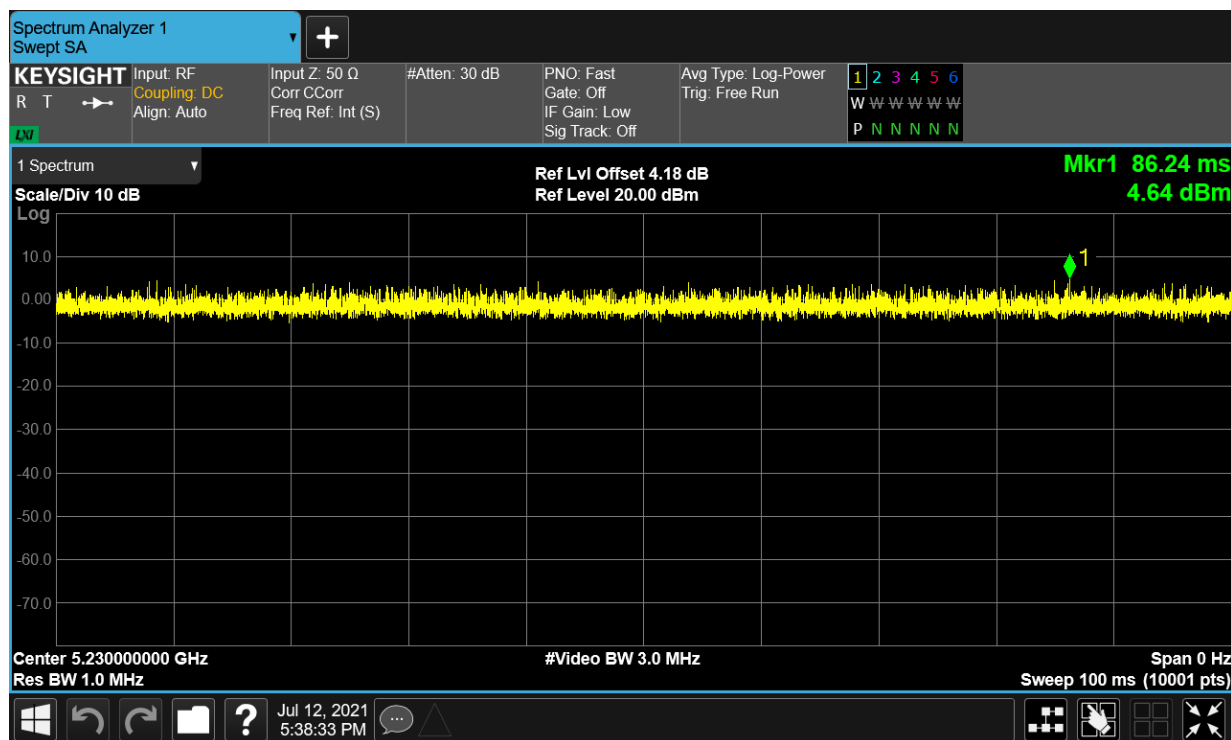
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

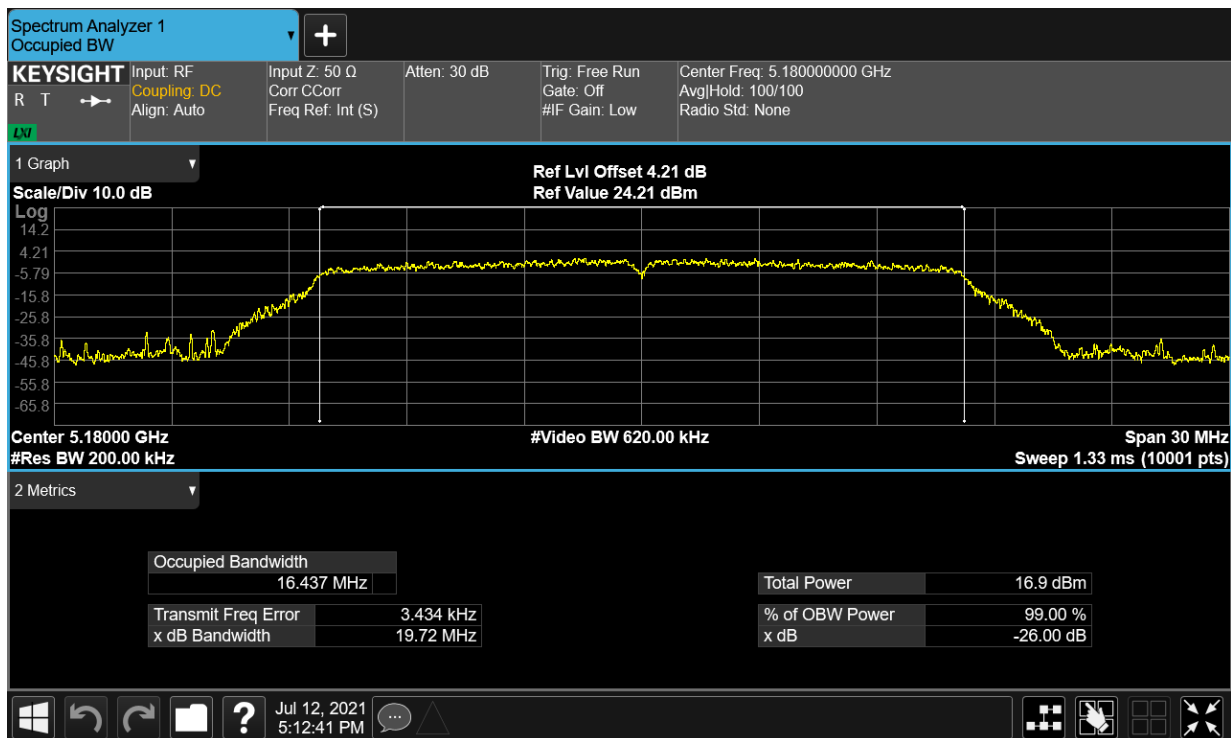
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.87	0	11.87	24	Pass

NVNT	a	5200	Ant1	11.83	0	11.83	24	Pass
NVNT	a	5240	Ant1	11.99	0	11.99	24	Pass
NVNT	ac20	5180	Ant1	11.75	0	11.75	24	Pass
NVNT	ac20	5200	Ant1	12.05	0	12.05	24	Pass
NVNT	ac20	5240	Ant1	11.57	0	11.57	24	Pass
NVNT	ac40	5190	Ant1	14.71	0	14.71	24	Pass
NVNT	ac40	5230	Ant1	11.53	0	11.53	24	Pass
NVNT	ac80	5210	Ant1	11.62	0	11.62	24	Pass
NVNT	n20	5180	Ant1	14.72	0	14.72	24	Pass
NVNT	n20	5200	Ant1	12.01	0	12.01	24	Pass
NVNT	n20	5240	Ant1	11.55	0	11.55	24	Pass
NVNT	n40	5190	Ant1	11.5	0	11.5	24	Pass
NVNT	n40	5230	Ant1	11.49	0	11.49	24	Pass

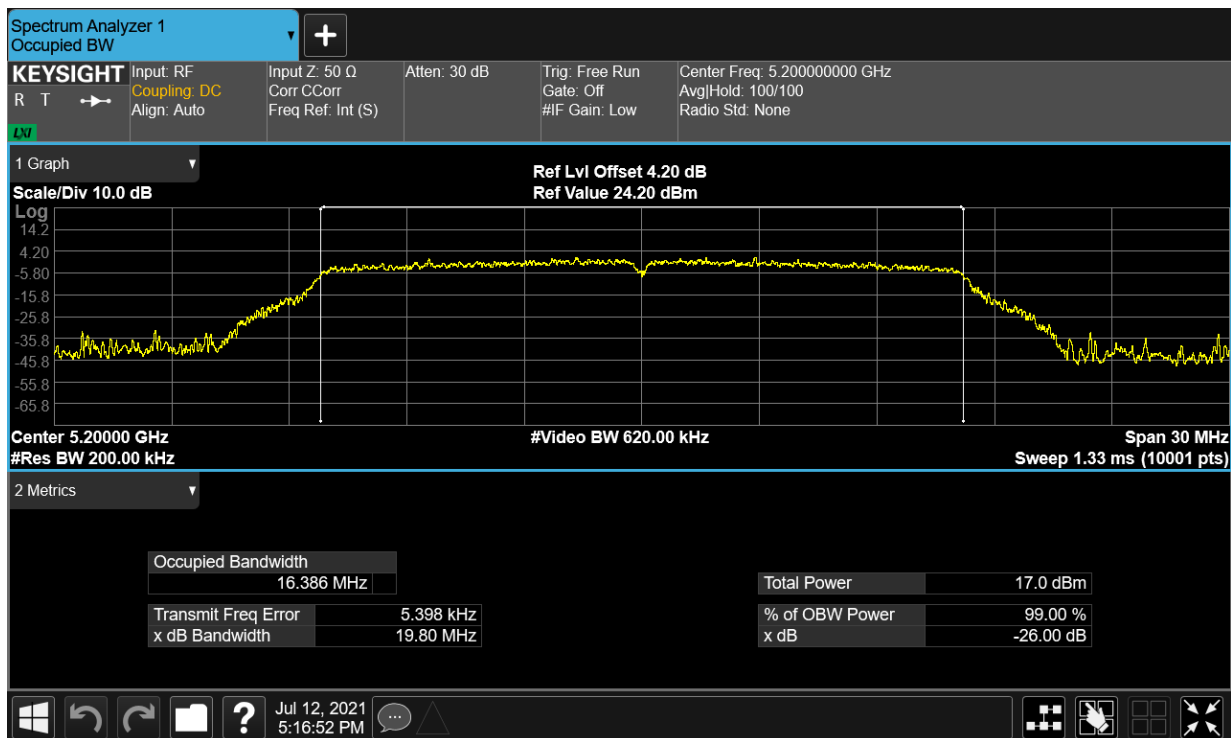
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.43736036
NVNT	a	5200	Ant1	16.38556527
NVNT	a	5240	Ant1	16.38769495
NVNT	ac20	5180	Ant1	17.55683159
NVNT	ac20	5200	Ant1	17.56034918
NVNT	ac20	5240	Ant1	17.55973109
NVNT	ac40	5190	Ant1	36.02347023
NVNT	ac40	5230	Ant1	35.97043462
NVNT	ac80	5210	Ant1	75.165288
NVNT	n20	5180	Ant1	17.5698097
NVNT	n20	5200	Ant1	17.56966624
NVNT	n20	5240	Ant1	17.56010489
NVNT	n40	5190	Ant1	35.99761096
NVNT	n40	5230	Ant1	35.97278829

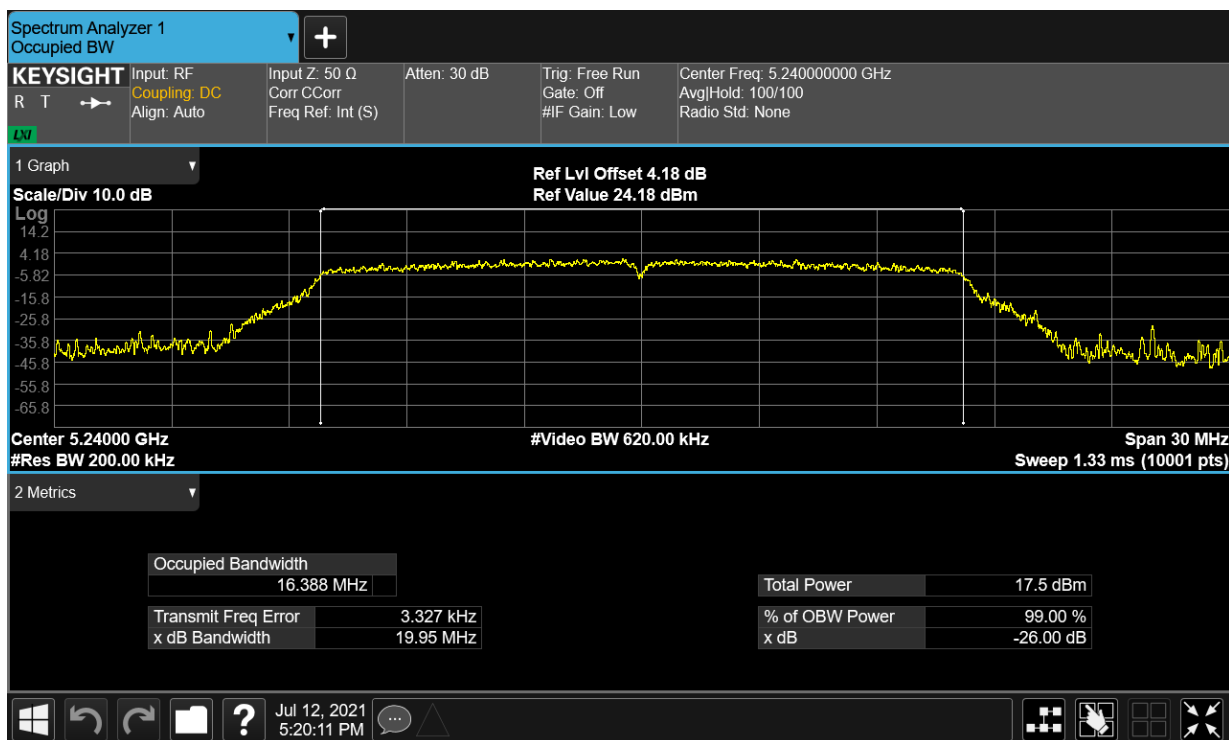
OBW NVNT a 5180MHz Ant1



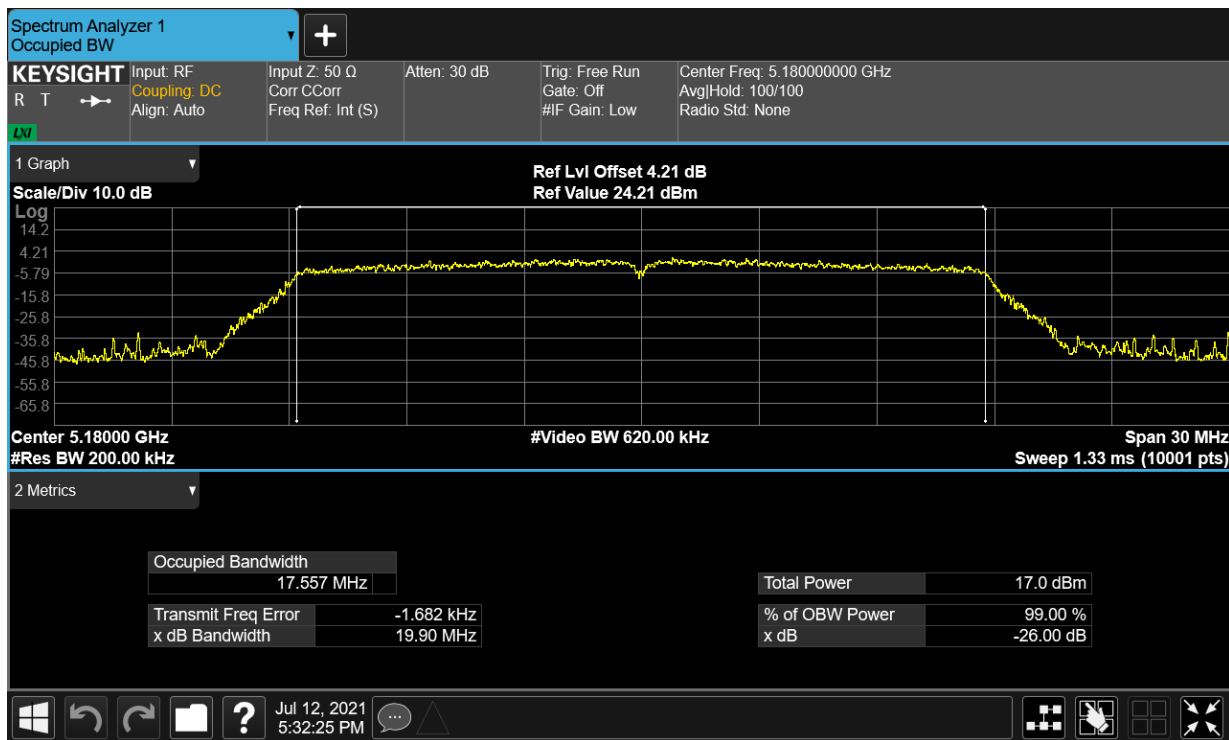
OBW NVNT a 5200MHz Ant1



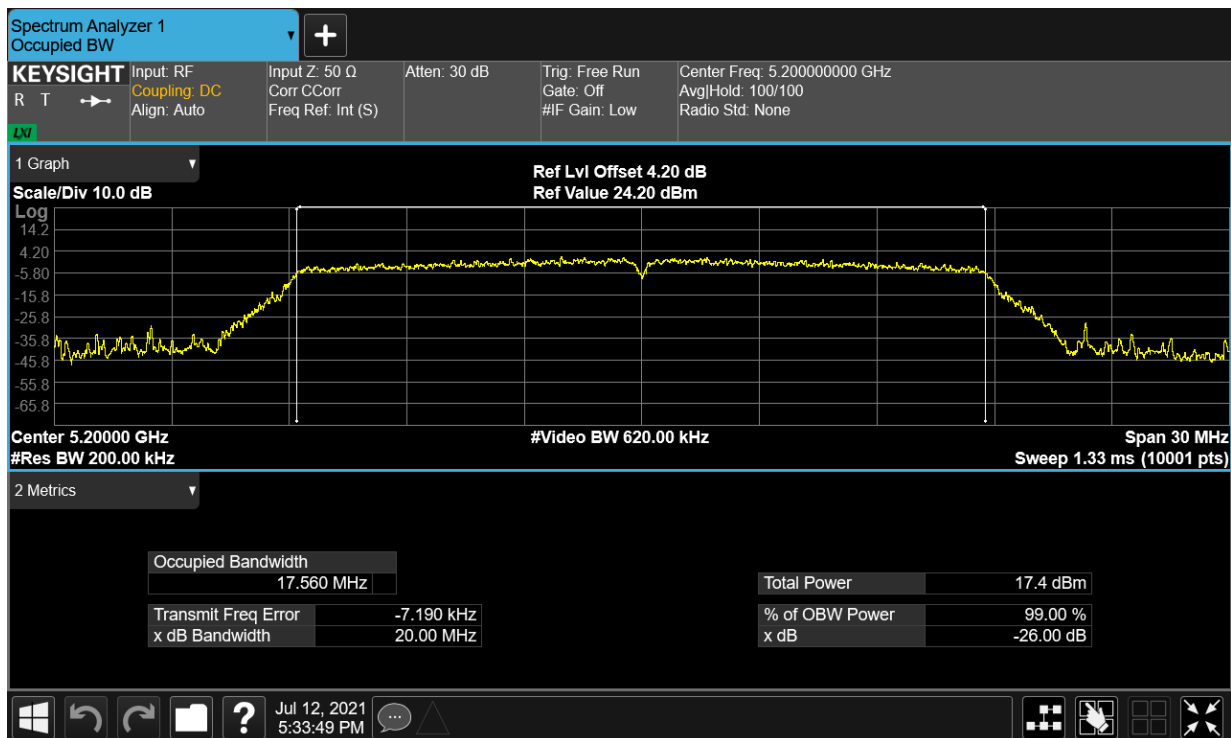
OBW NVNT a 5240MHz Ant1



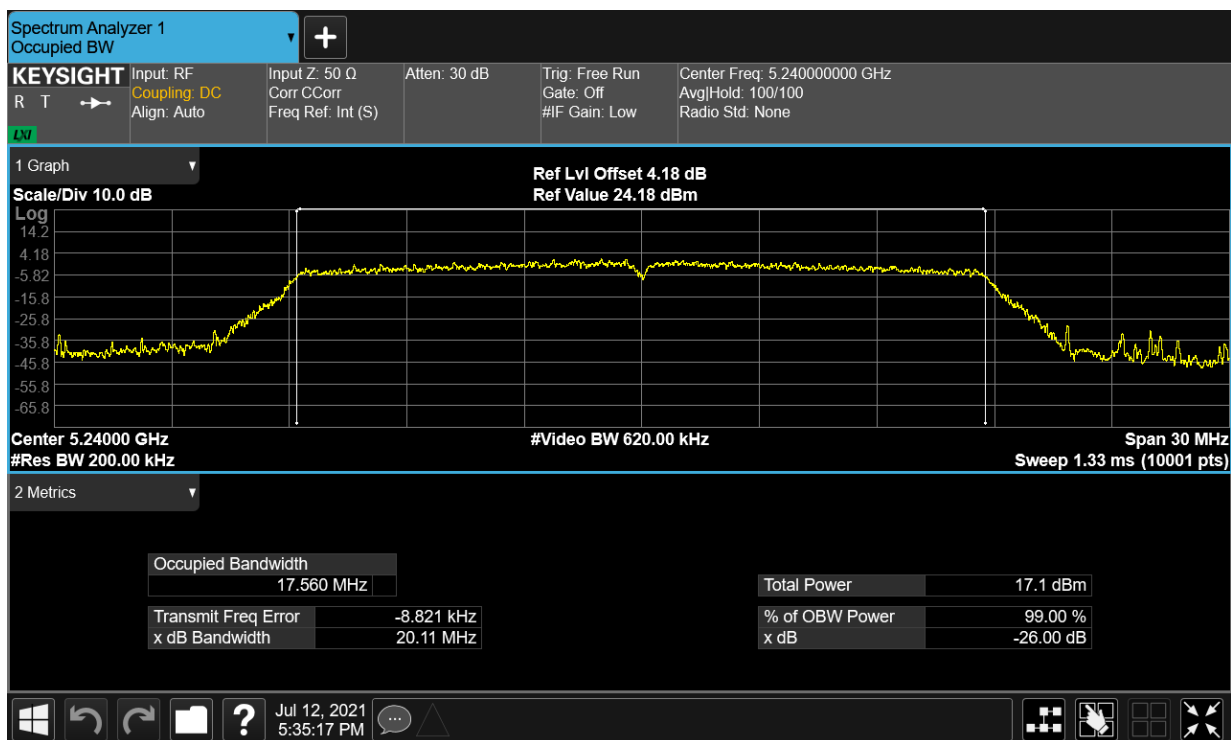
OBW NVNT ac20 5180MHz Ant1



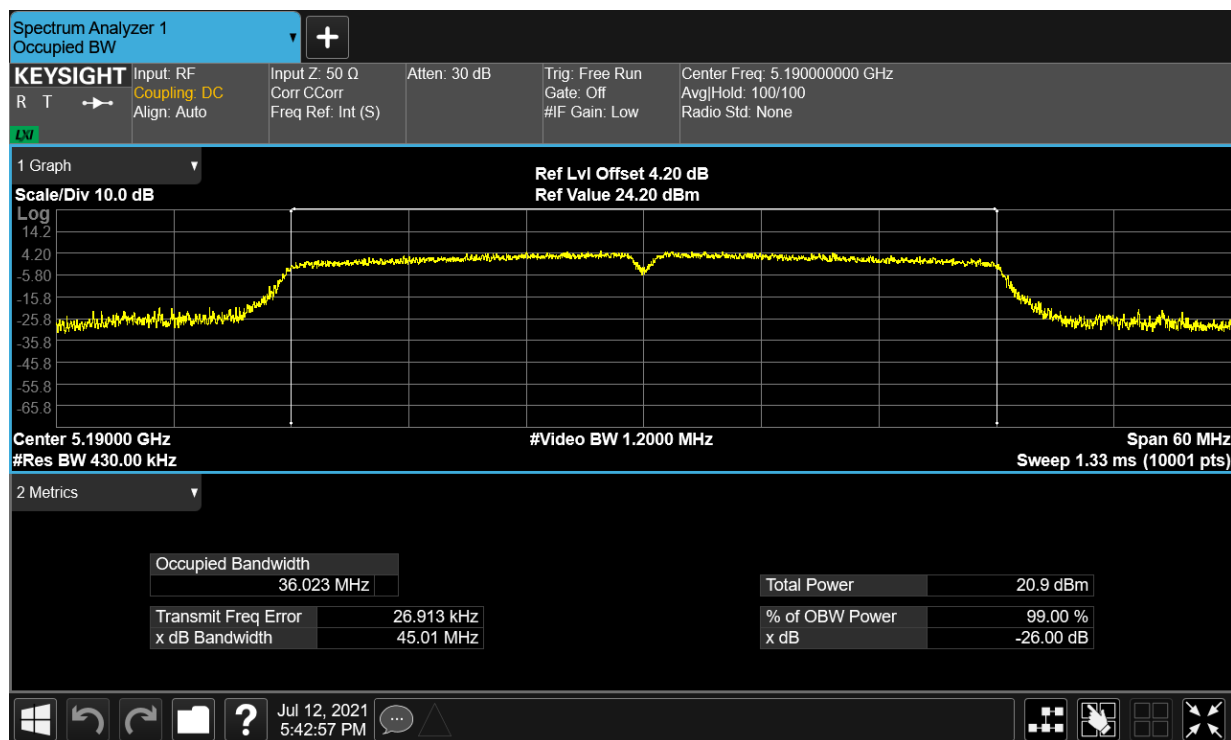
OBW NVNT ac20 5200MHz Ant1



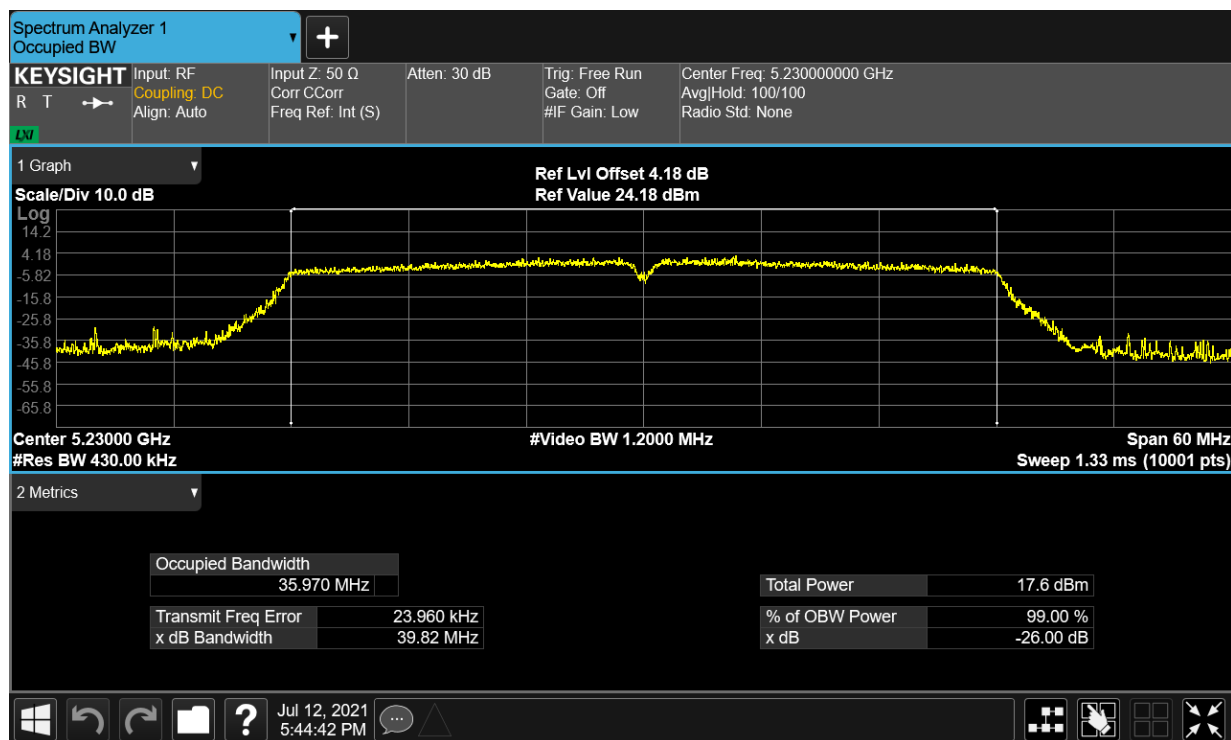
OBW NVNT ac20 5240MHz Ant1



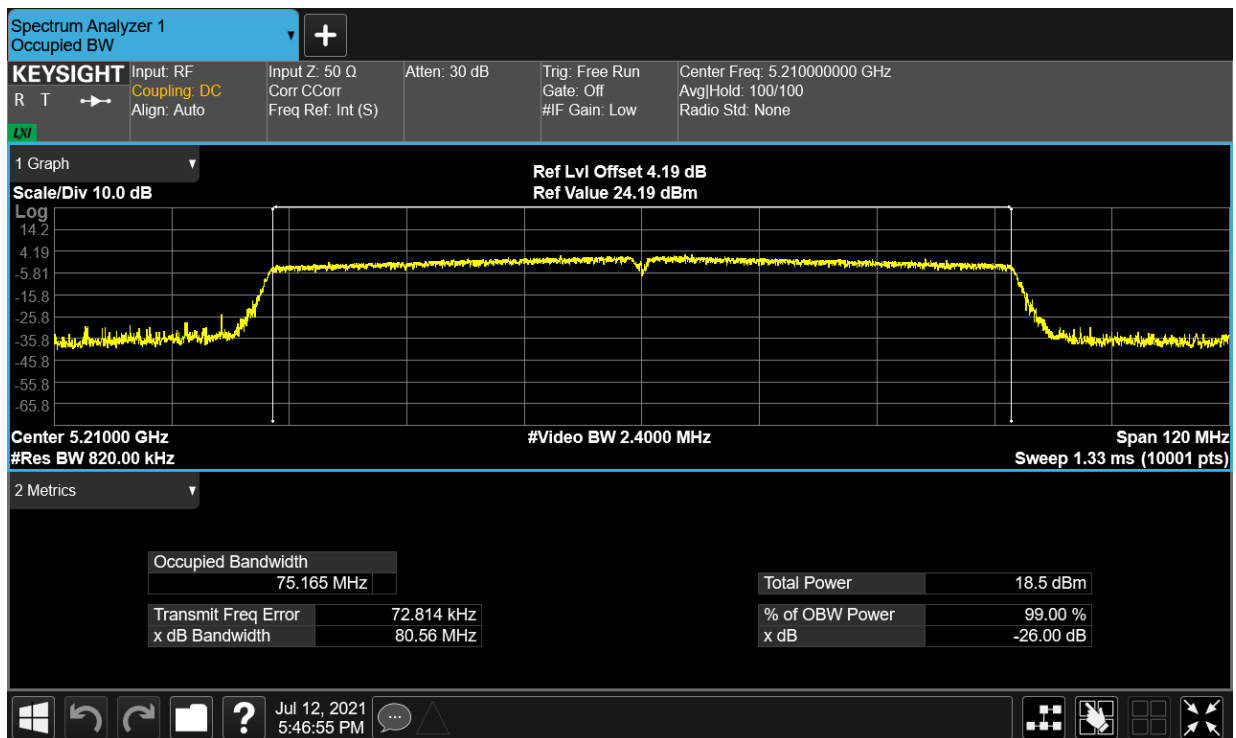
OBW NVNT ac40 5190MHz Ant1



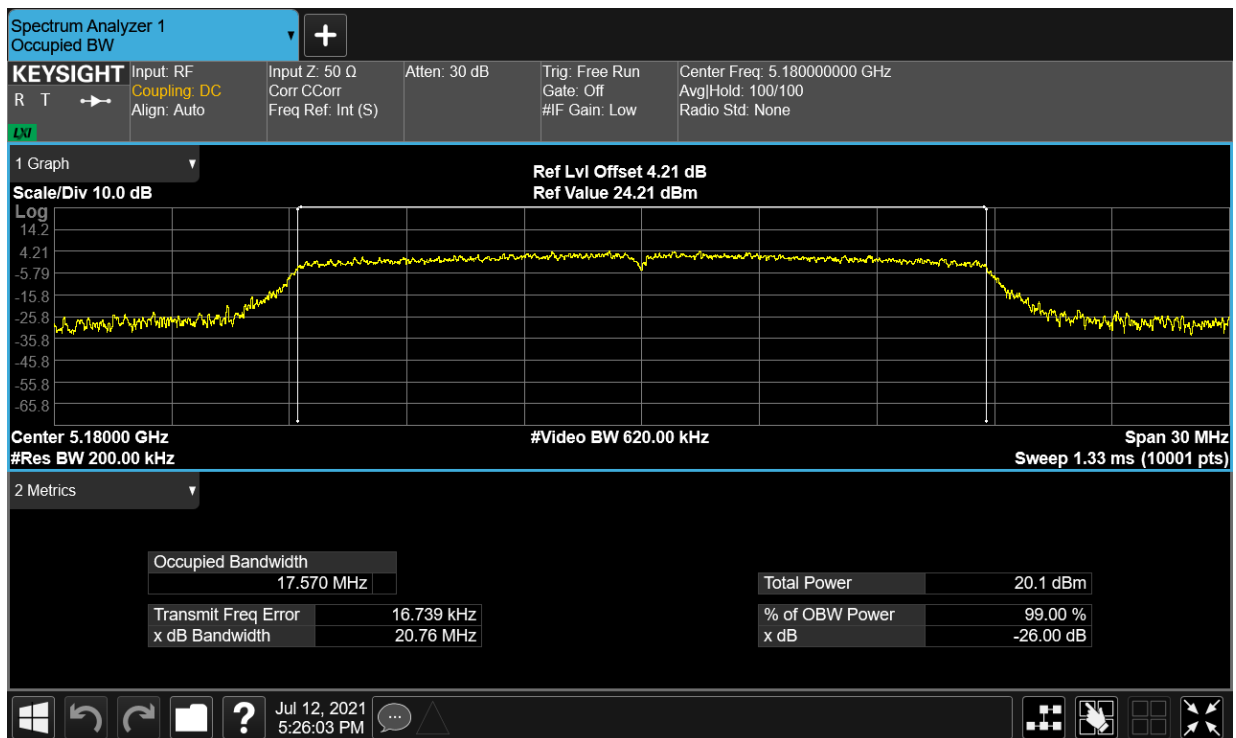
OBW NVNT ac40 5230MHz Ant1



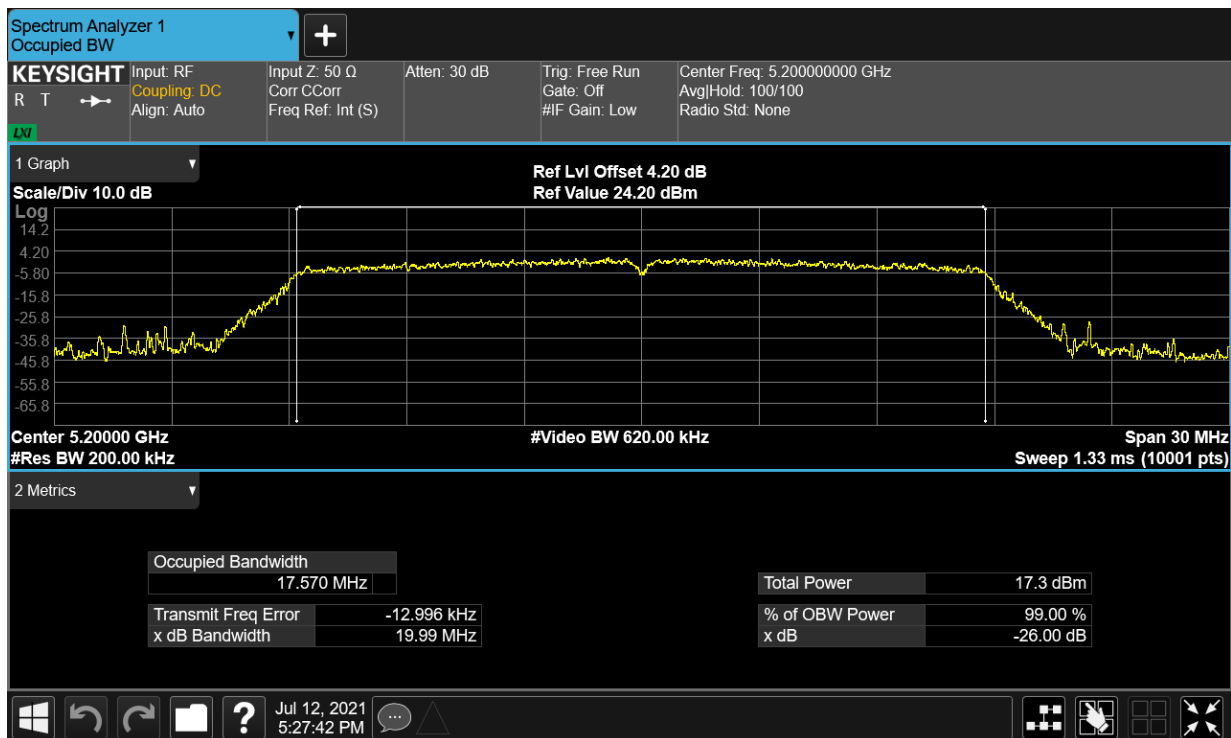
OBW NVNT ac80 5210MHz Ant1



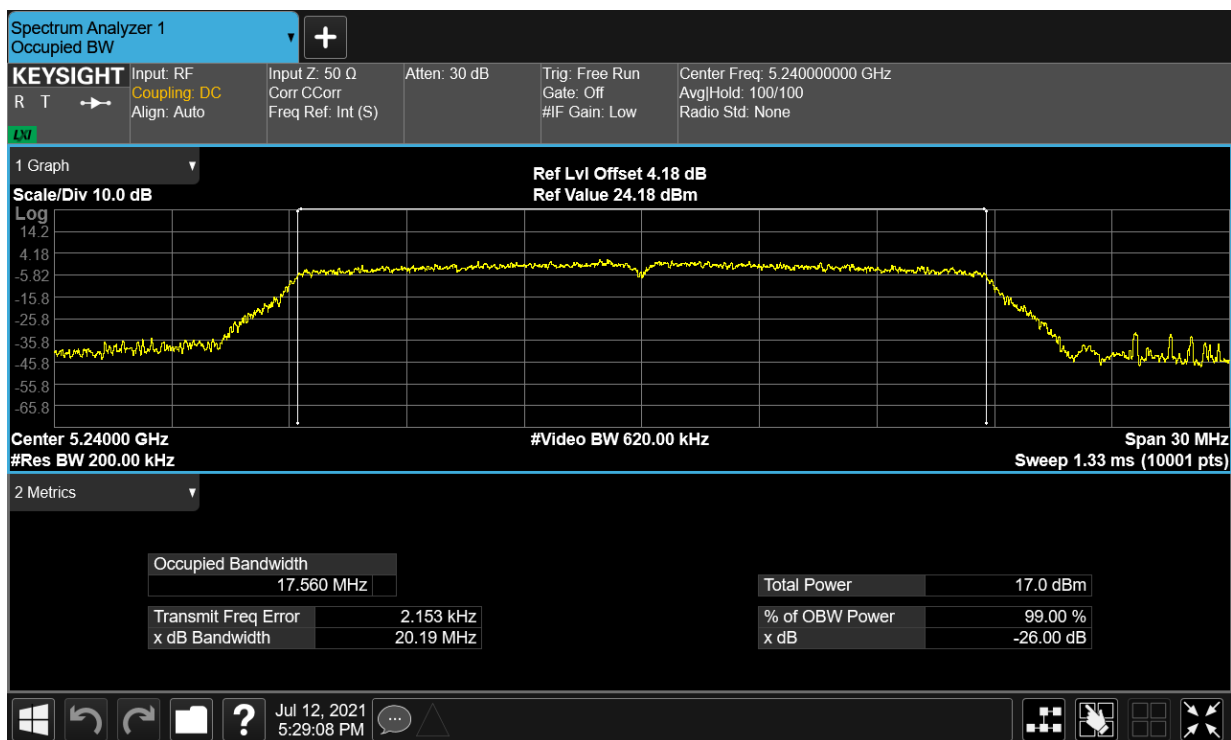
OBW NVNT n20 5180MHz Ant1



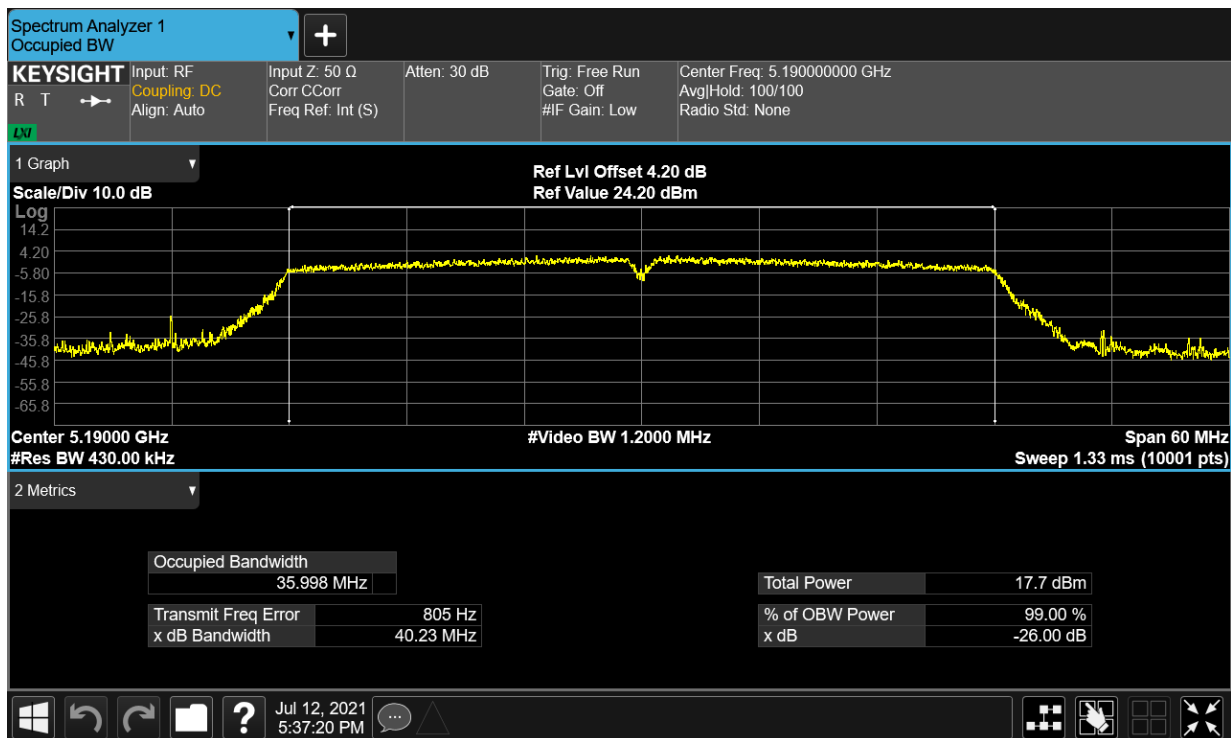
OBW NVNT n20 5200MHz Ant1



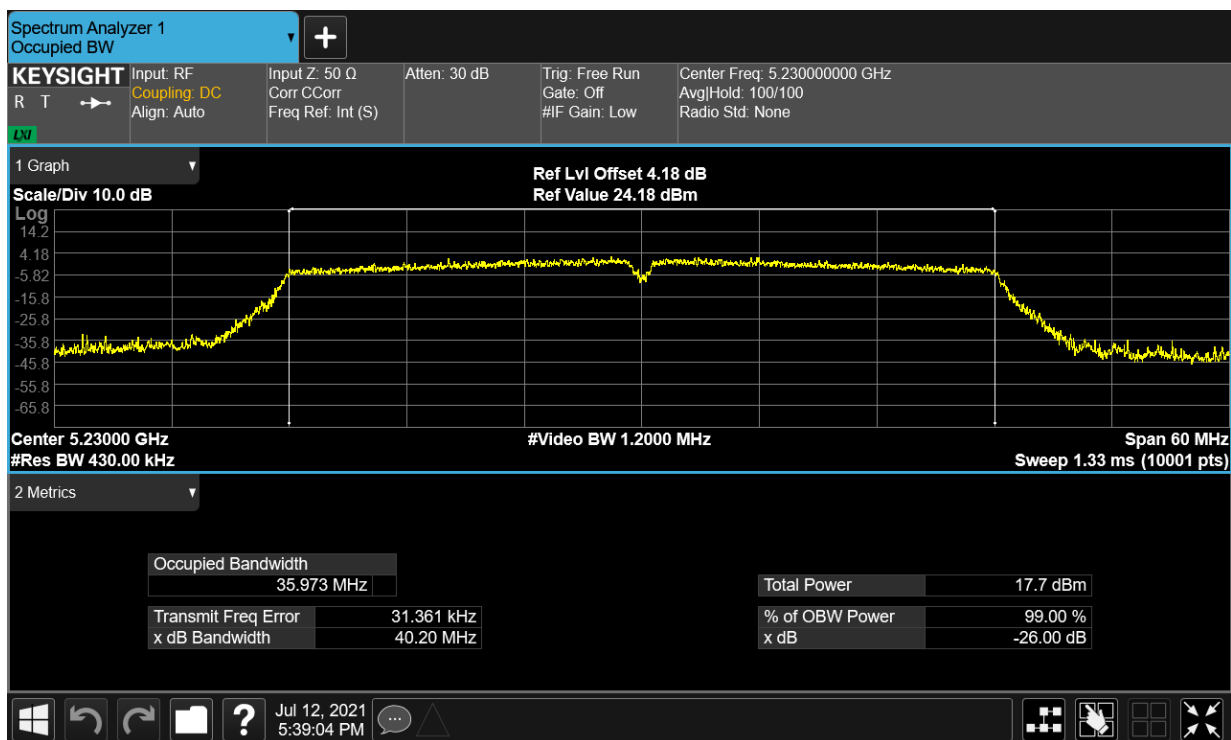
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



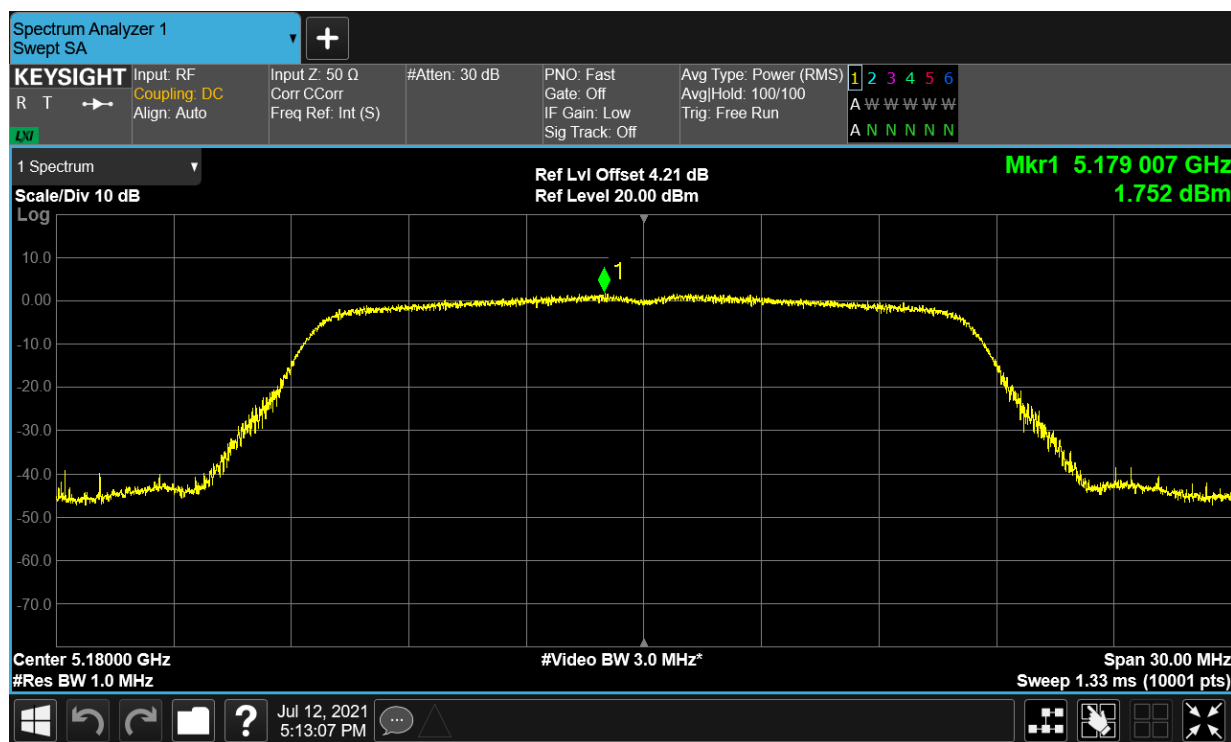
OBW NVNT n40 5230MHz Ant1



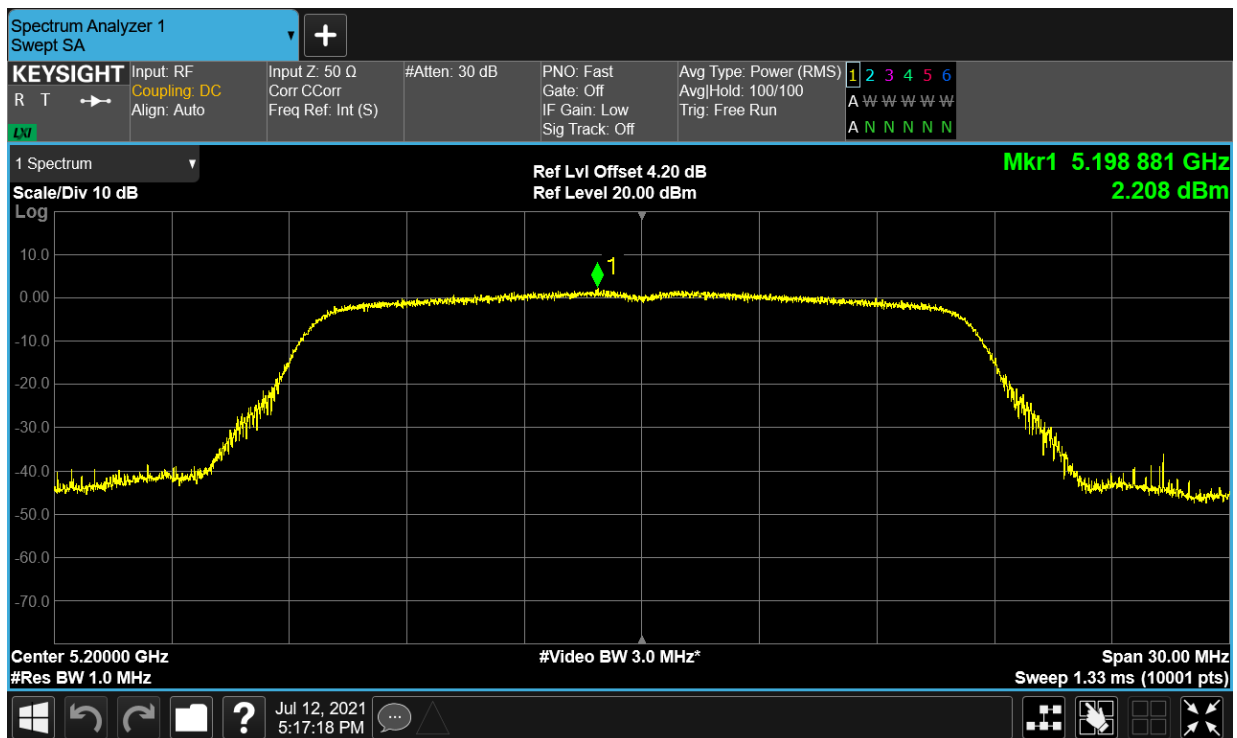
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.752	11	Pass
NVNT	a	5200	Ant1	2.208	11	Pass
NVNT	a	5240	Ant1	2.496	11	Pass
NVNT	ac20	5180	Ant1	1.765	11	Pass
NVNT	ac20	5200	Ant1	2.424	11	Pass
NVNT	ac20	5240	Ant1	1.9	11	Pass
NVNT	ac40	5190	Ant1	2.383	11	Pass
NVNT	ac40	5230	Ant1	-0.793	11	Pass
NVNT	ac80	5210	Ant1	-3.665	11	Pass
NVNT	n20	5180	Ant1	4.586	11	Pass
NVNT	n20	5200	Ant1	1.916	11	Pass
NVNT	n20	5240	Ant1	1.843	11	Pass
NVNT	n40	5190	Ant1	-0.442	11	Pass
NVNT	n40	5230	Ant1	-0.654	11	Pass

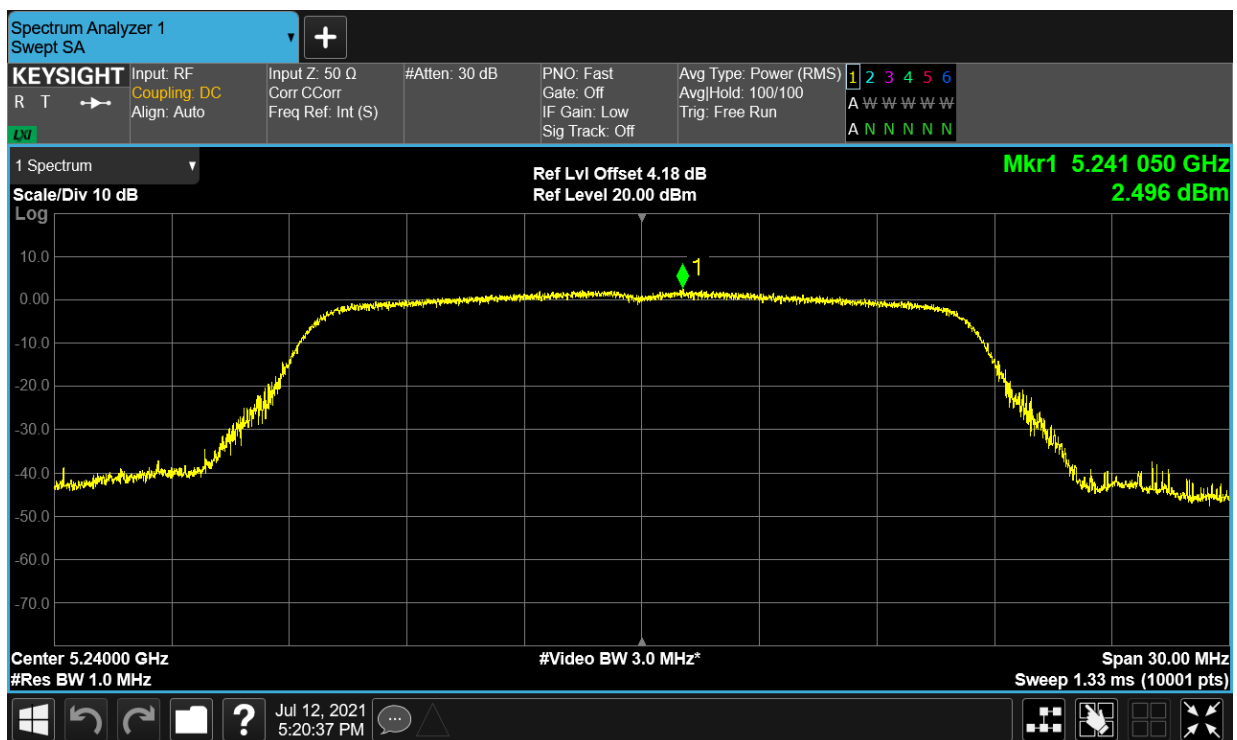
PSD NVNT a 5180MHz Ant1



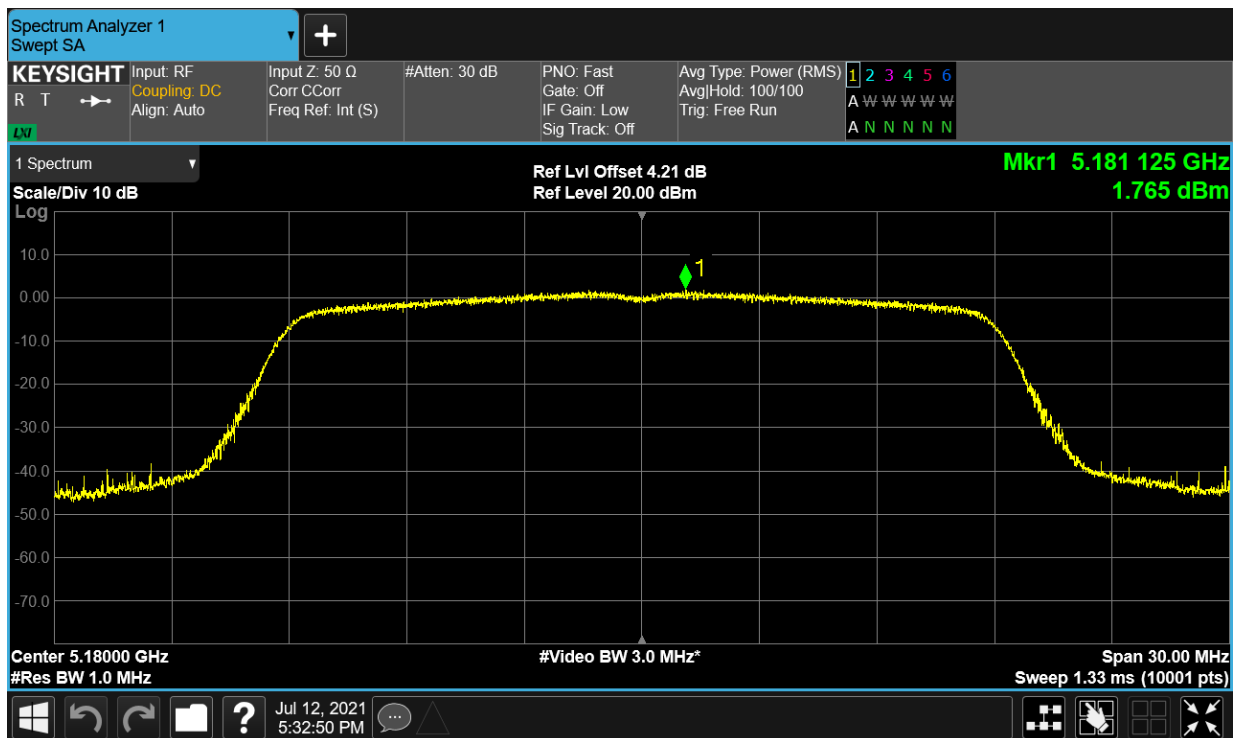
PSD NVNT a 5200MHz Ant1



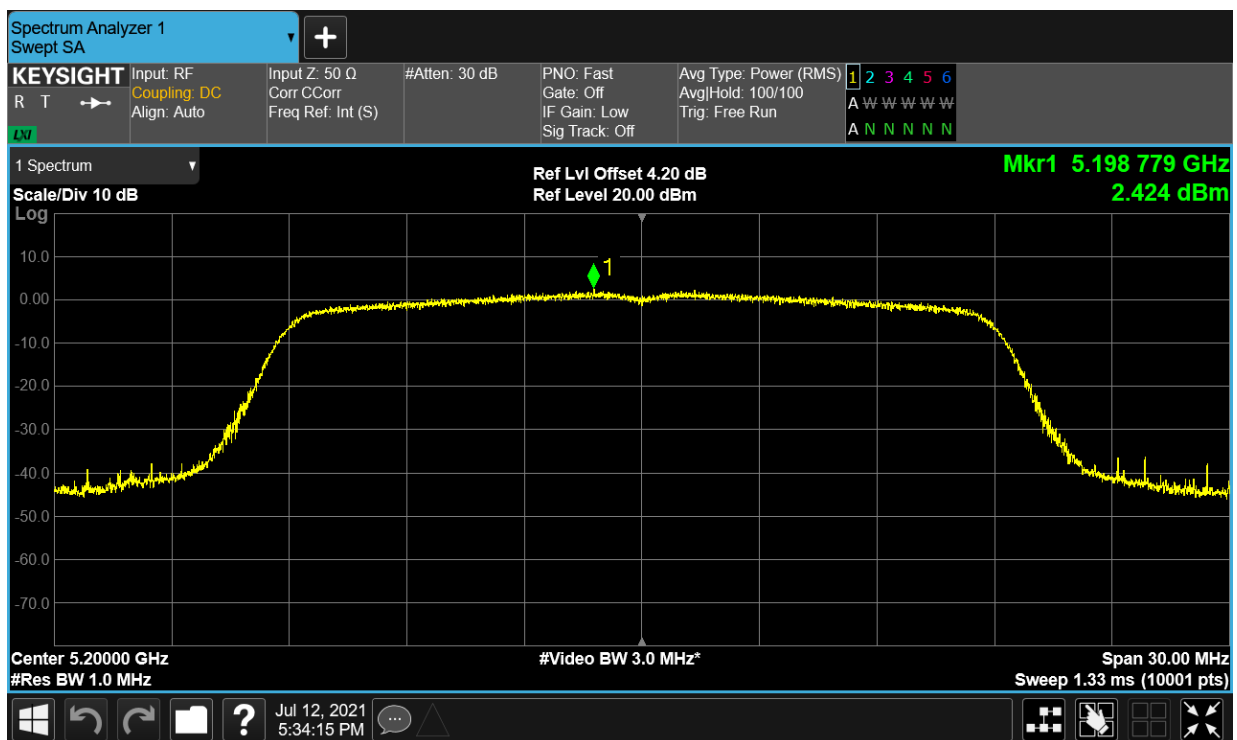
PSD NVNT a 5240MHz Ant1



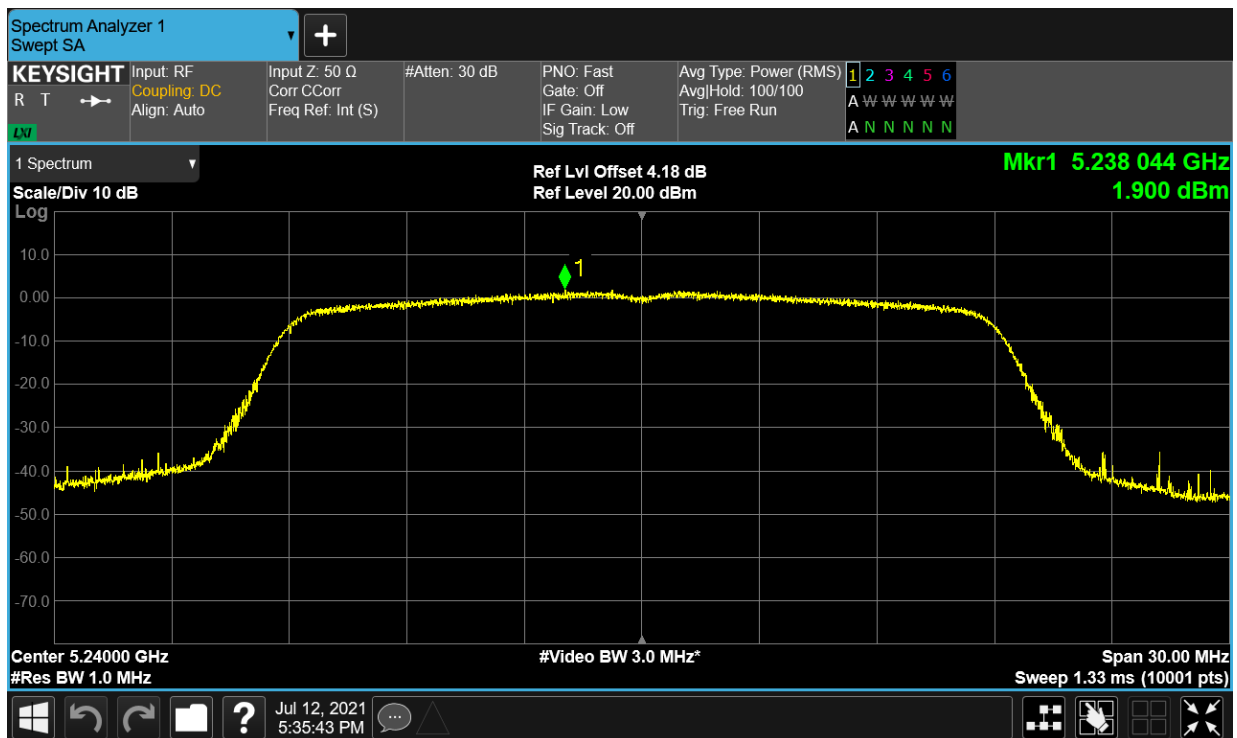
PSD NVNT ac20 5180MHz Ant1



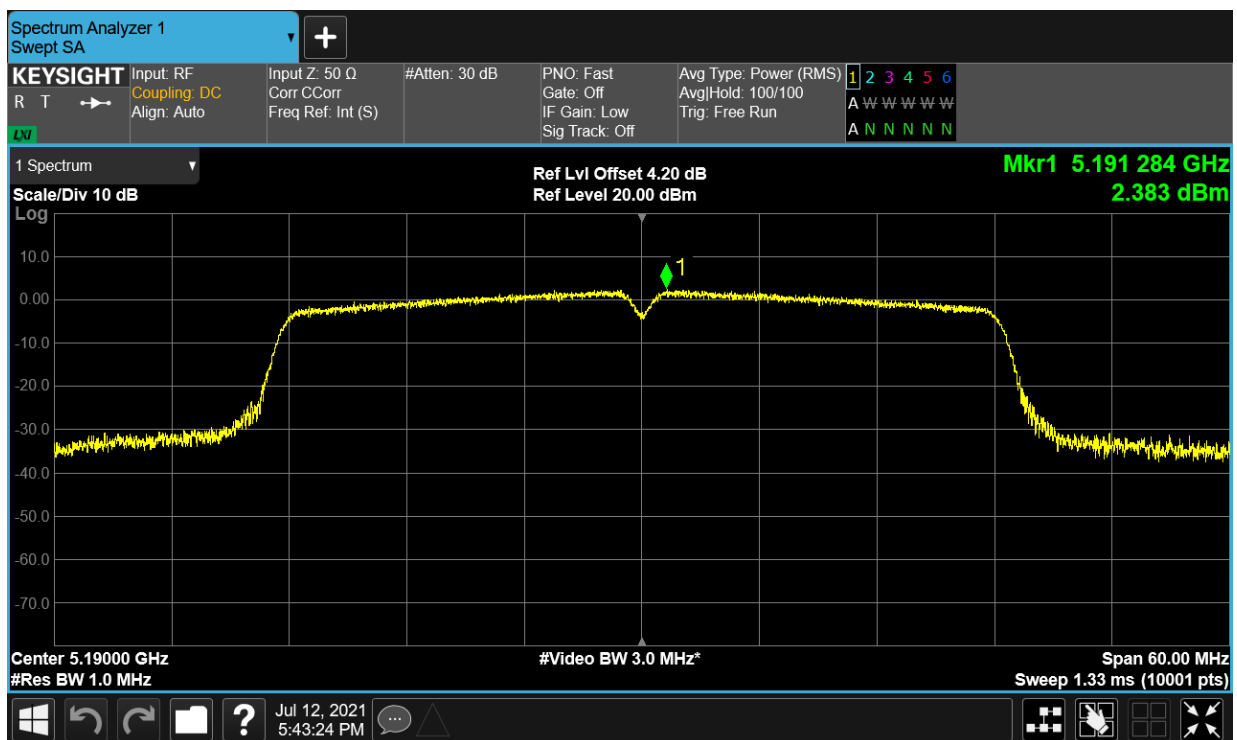
PSD NVNT ac20 5200MHz Ant1



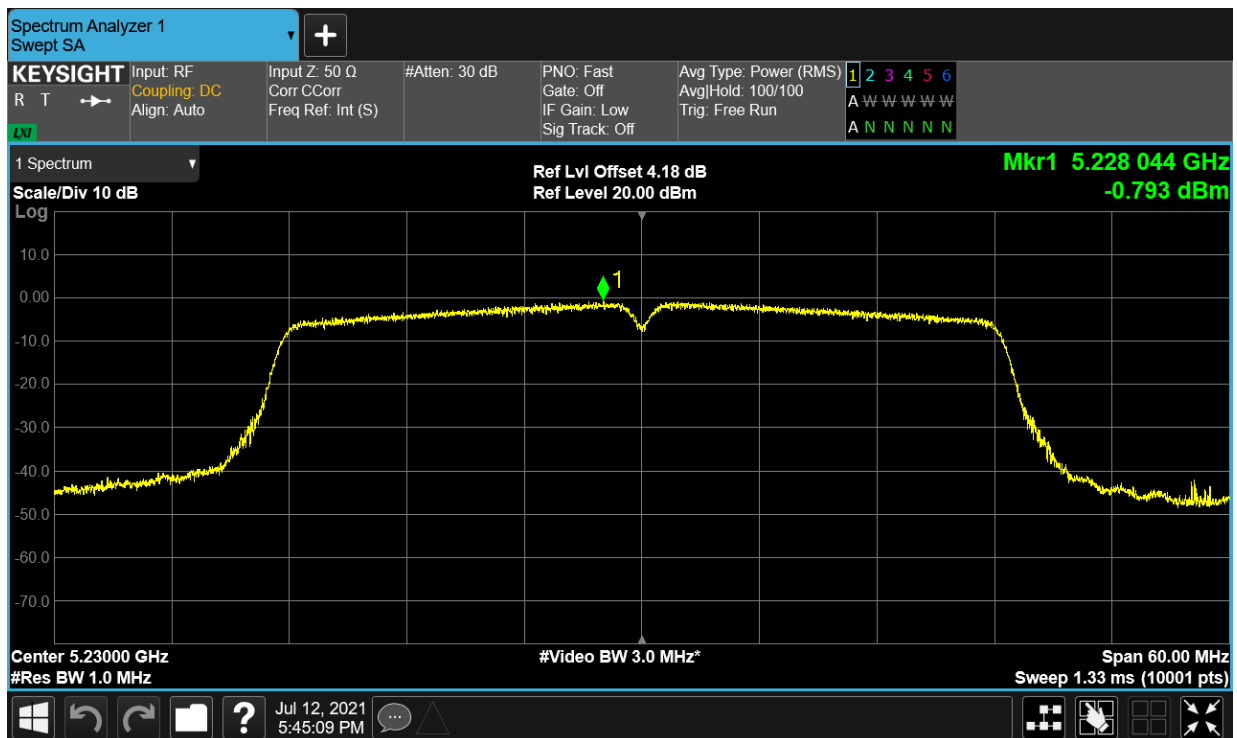
PSD NVNT ac20 5240MHz Ant1



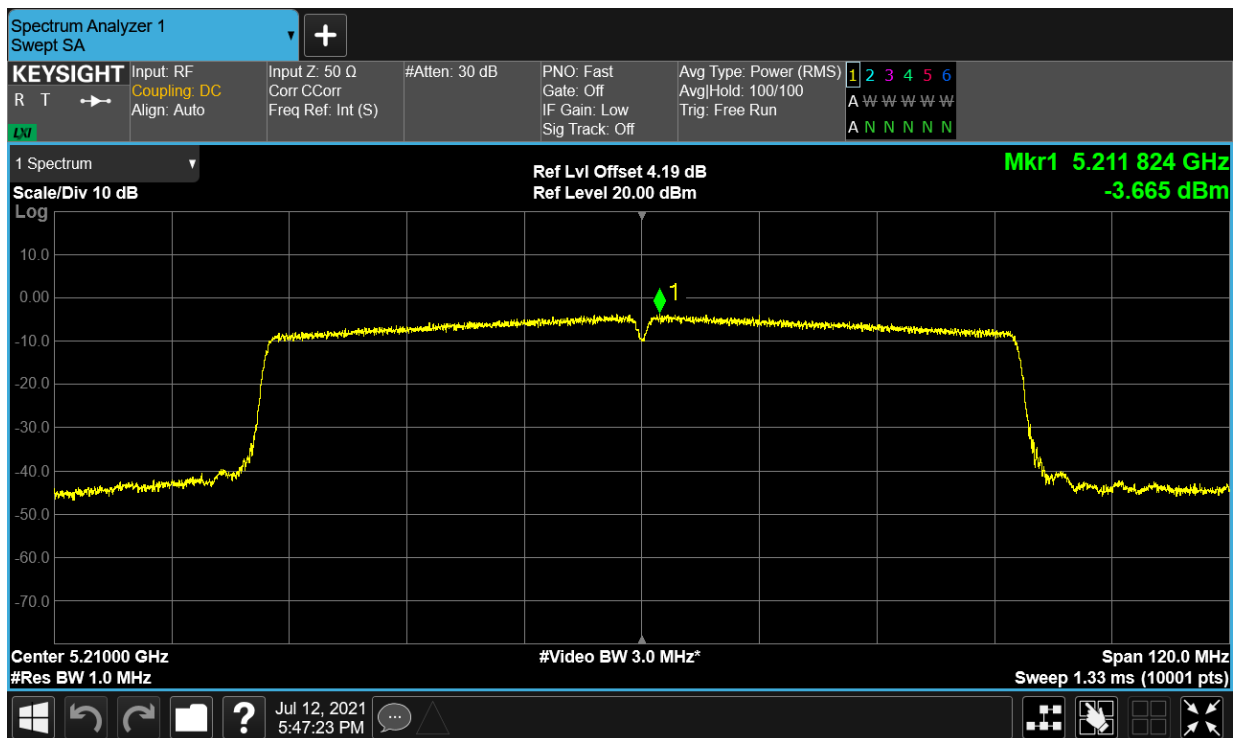
PSD NVNT ac40 5190MHz Ant1



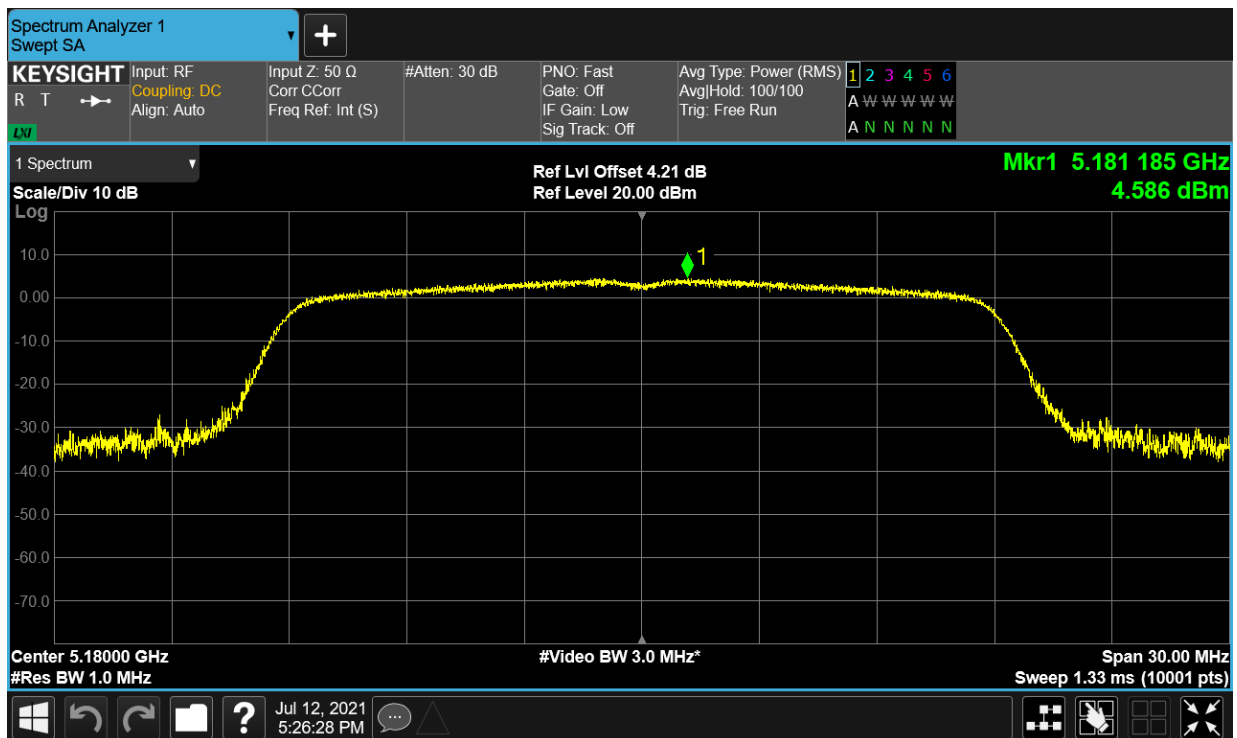
PSD NVNT ac40 5230MHz Ant1



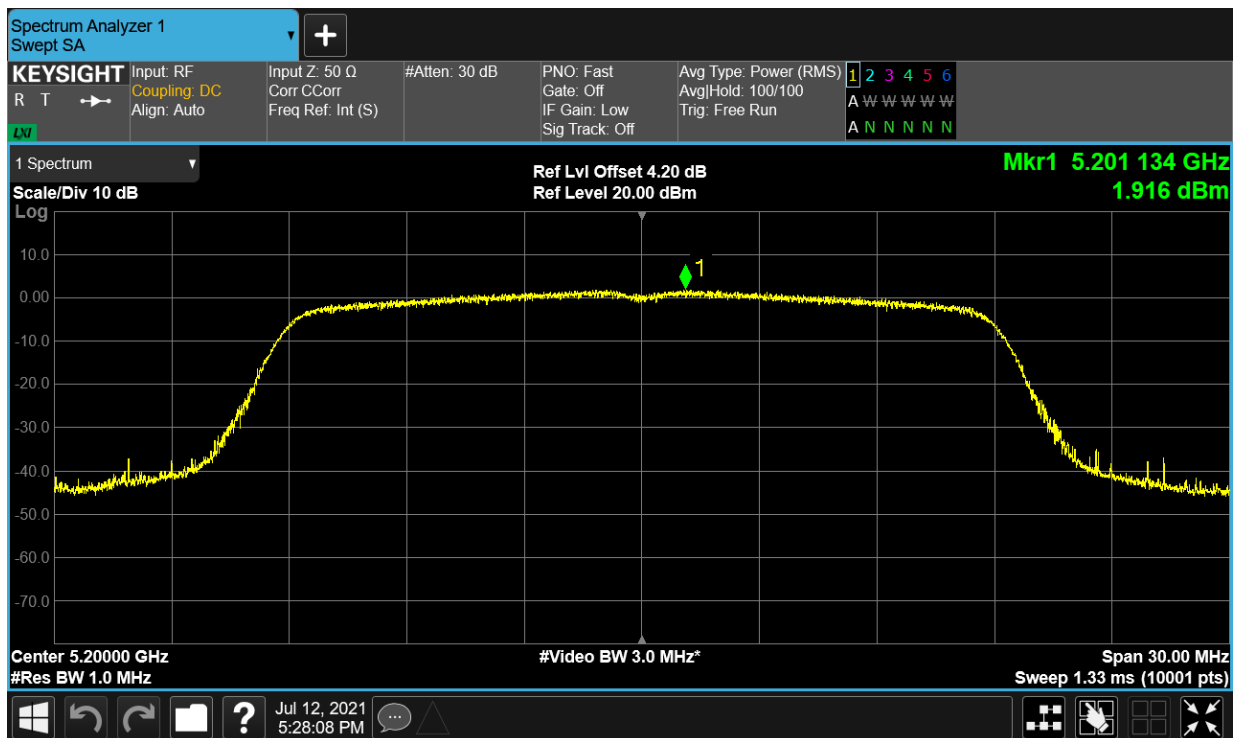
PSD NVNT ac80 5210MHz Ant1



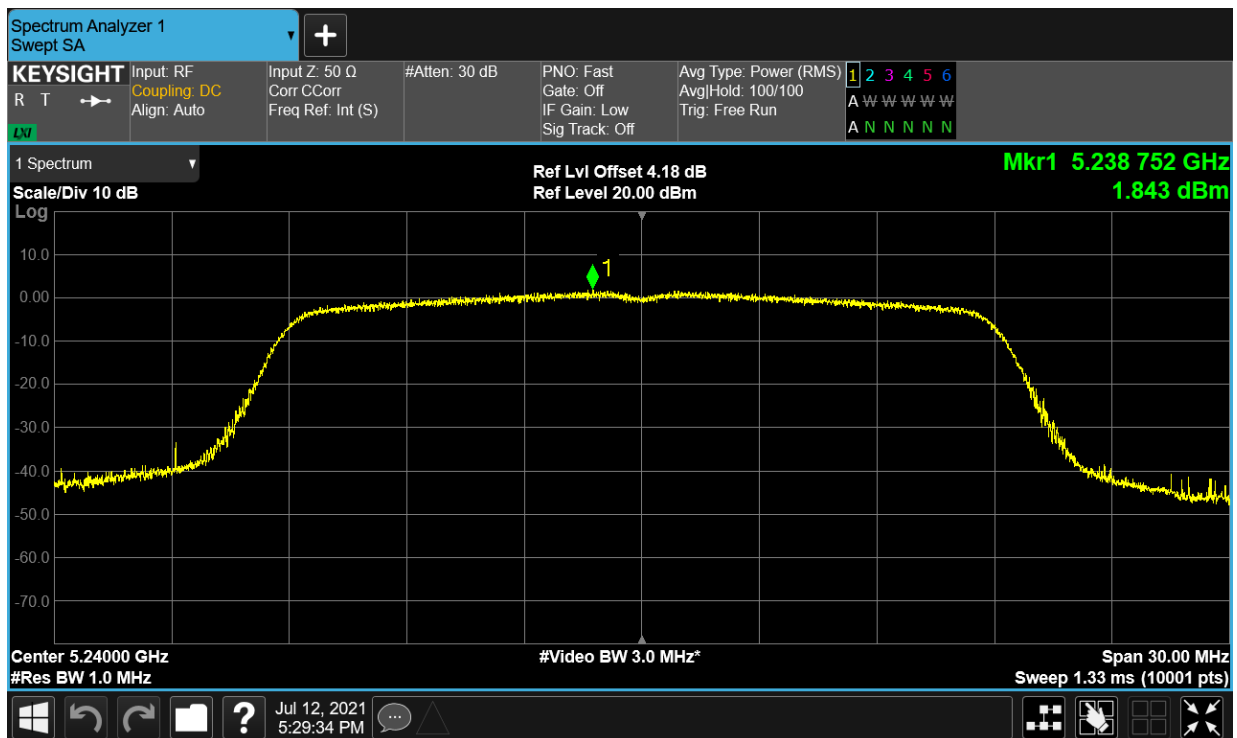
PSD NVNT n20 5180MHz Ant1



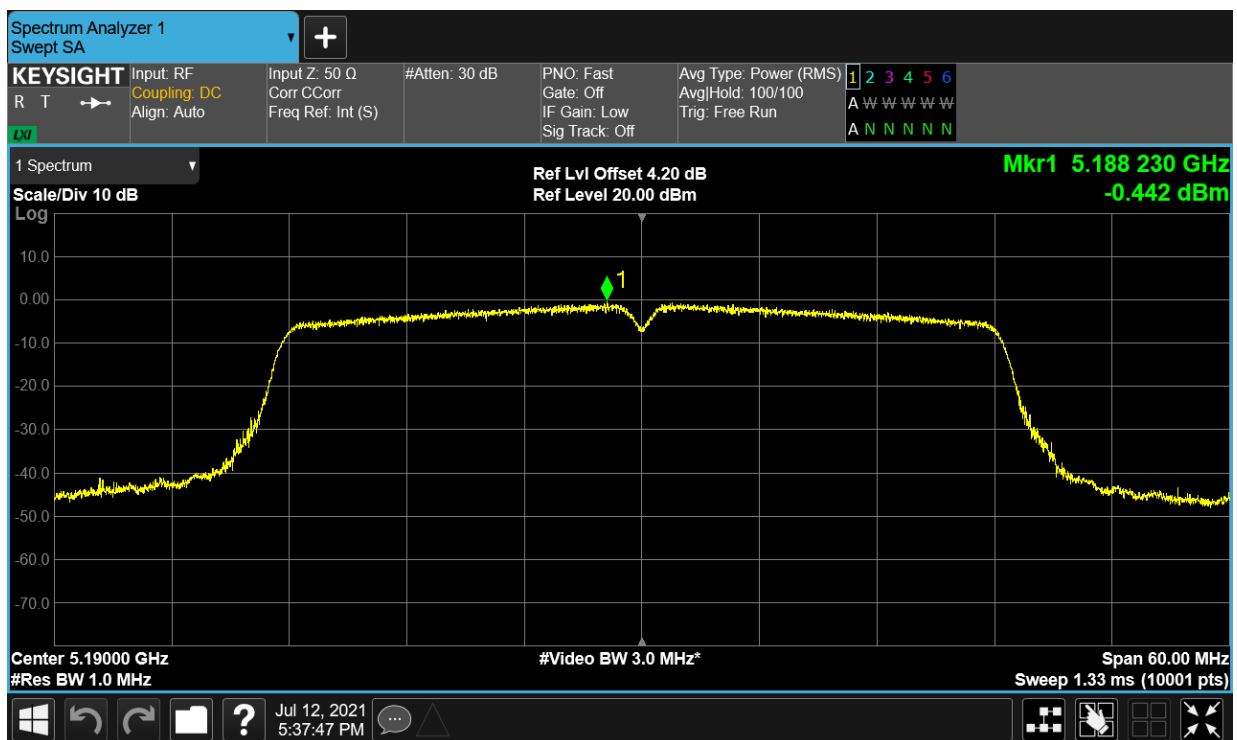
PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

