

Appendix A - 5G WIFI

Appendix A – 5.2G Wi-Fi

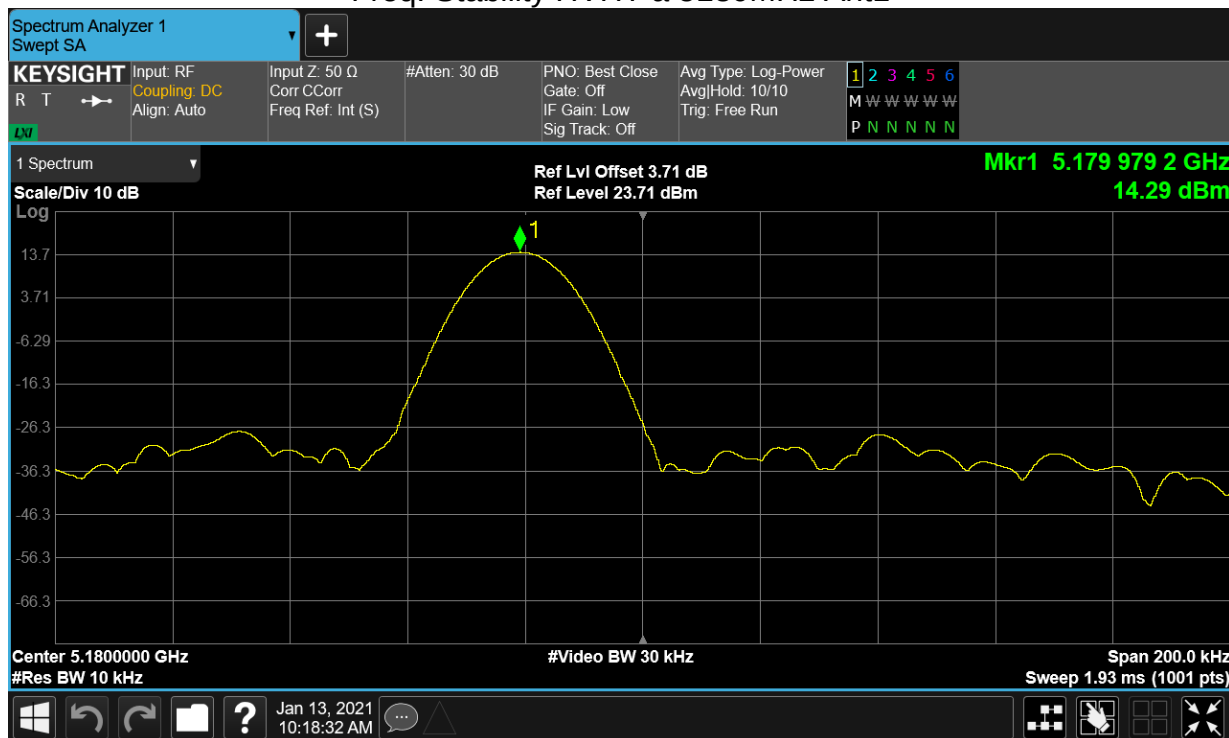
Test Data

Frequency Stability (worst case mode)

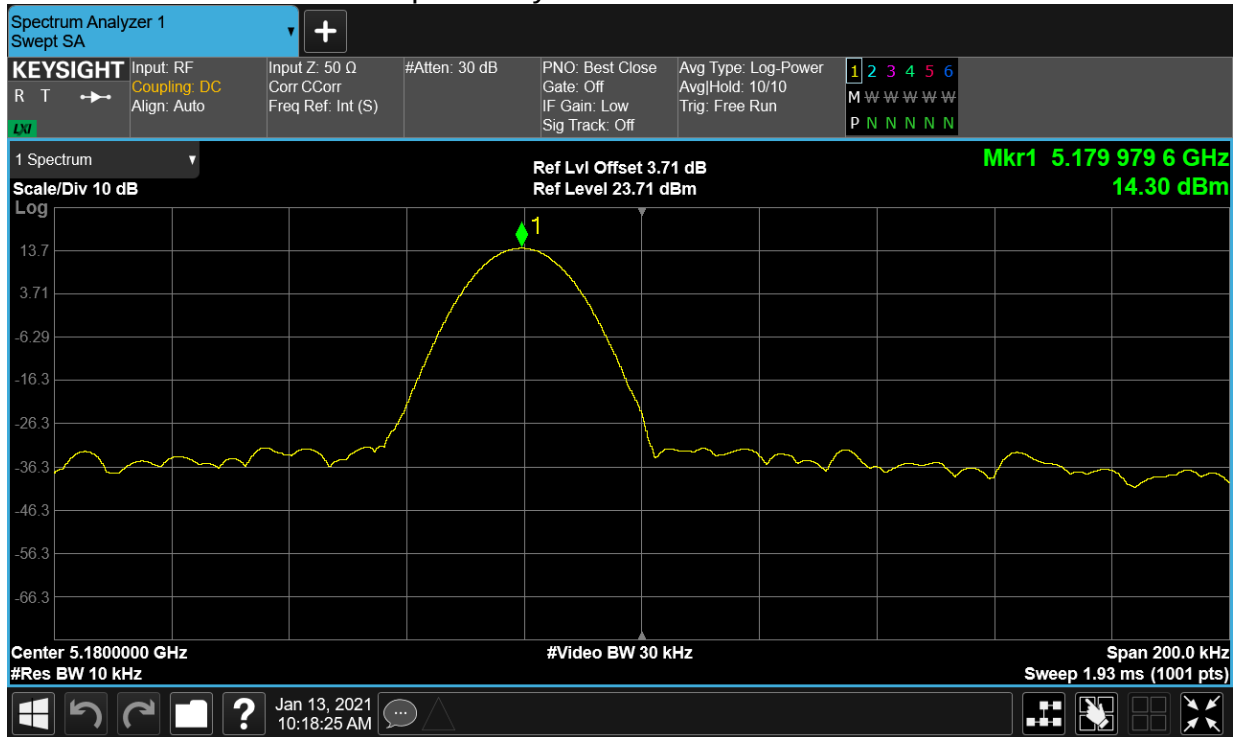
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5180	Ant1	5179.9792	-4.02	25	Pass
HVLT	a	5180	Ant1	5179.9796	-3.94	25	Pass
LVHT	a	5180	Ant1	5179.9788	-4.09	25	Pass
LVLt	a	5180	Ant1	5179.9788	-4.09	25	Pass
NVNT	a	5180	Ant1	5179.9788	-4.09	25	Pass
HVHT	ac80	5210	Ant1	5209.9784	-4.15	25	Pass
HVLT	ac80	5210	Ant1	5209.978	-4.22	25	Pass
LVHT	ac80	5210	Ant1	5209.978	-4.22	25	Pass
LVLt	ac80	5210	Ant1	5209.978	-4.22	25	Pass
NVNT	ac80	5210	Ant1	5209.9778	-4.26	25	Pass
HVHT	n40	5190	Ant1	5189.9784	-4.16	25	Pass
HVLT	n40	5190	Ant1	5189.9784	-4.16	25	Pass
LVHT	n40	5190	Ant1	5189.9784	-4.16	25	Pass
LVLt	n40	5190	Ant1	5189.9784	-4.16	25	Pass
NVNT	n40	5190	Ant1	5189.9784	-4.16	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.

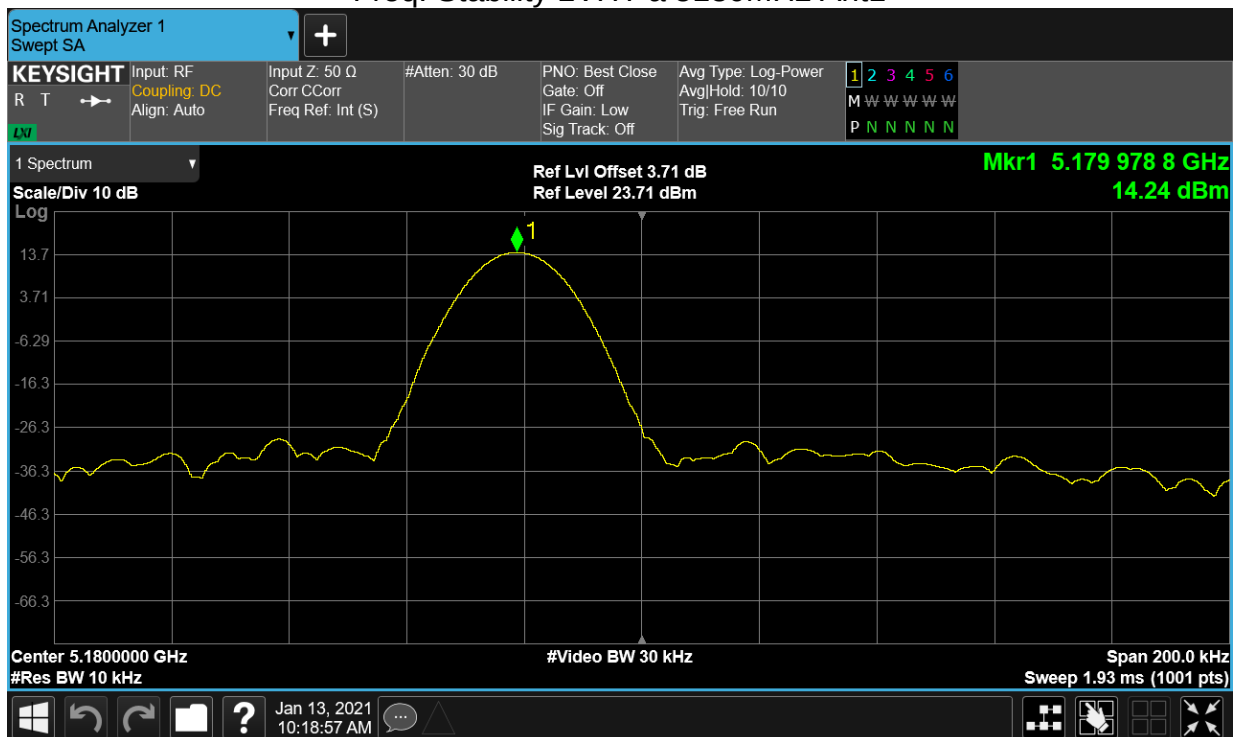
Freq. Stability HVHT a 5180MHz Ant1



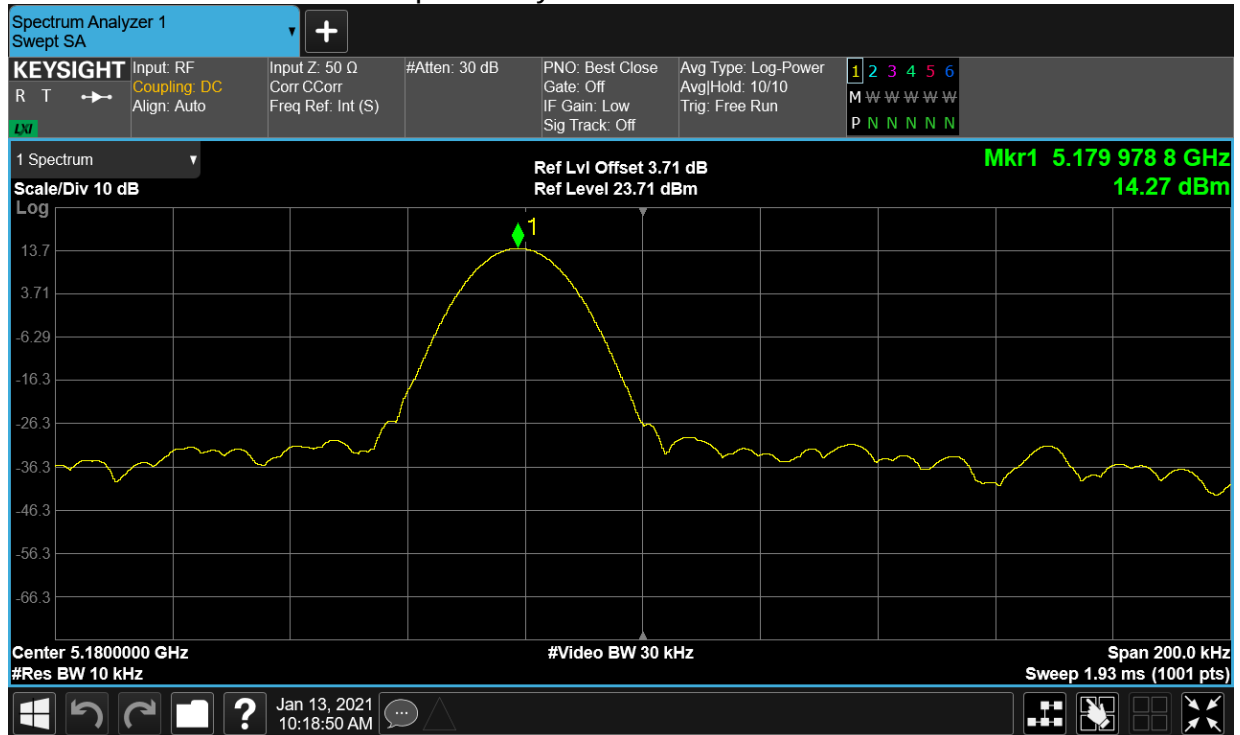
Freq. Stability HVLT a 5180MHz Ant1



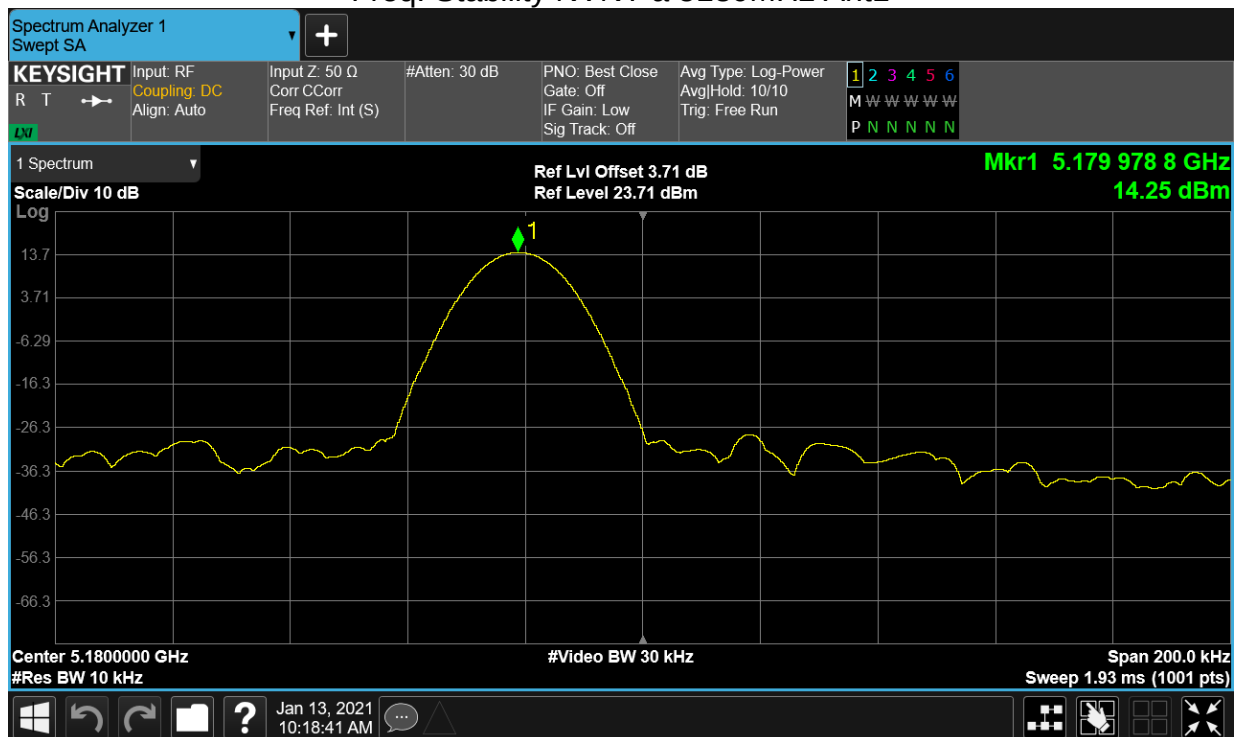
Freq. Stability LVHT a 5180MHz Ant1



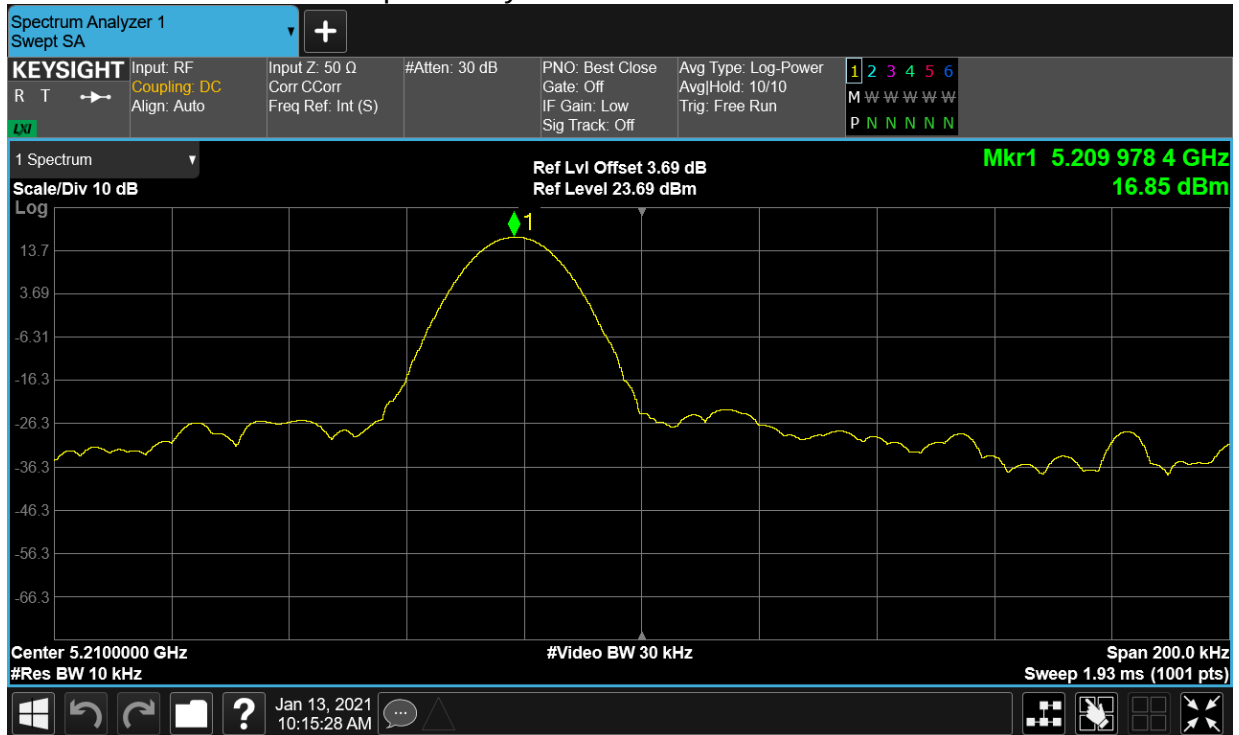
Freq. Stability LVLTA 5180MHz Ant1



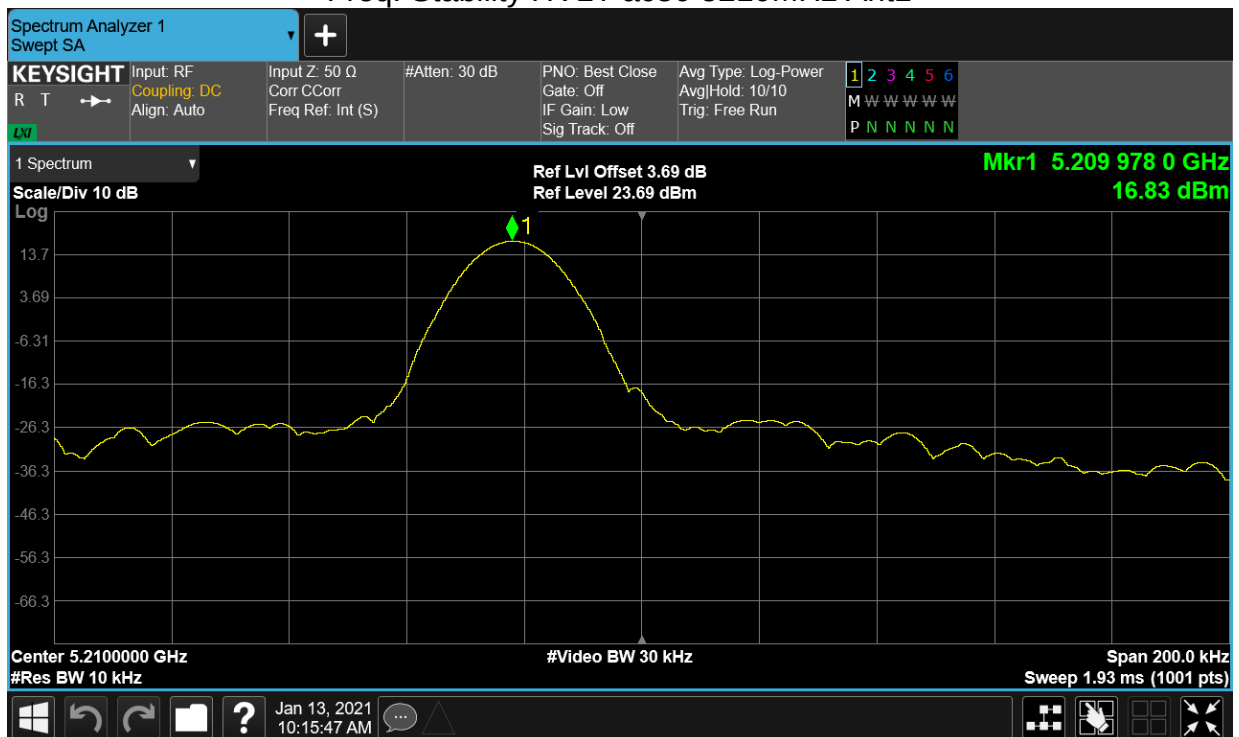
Freq. Stability NVNT a 5180MHz Ant1



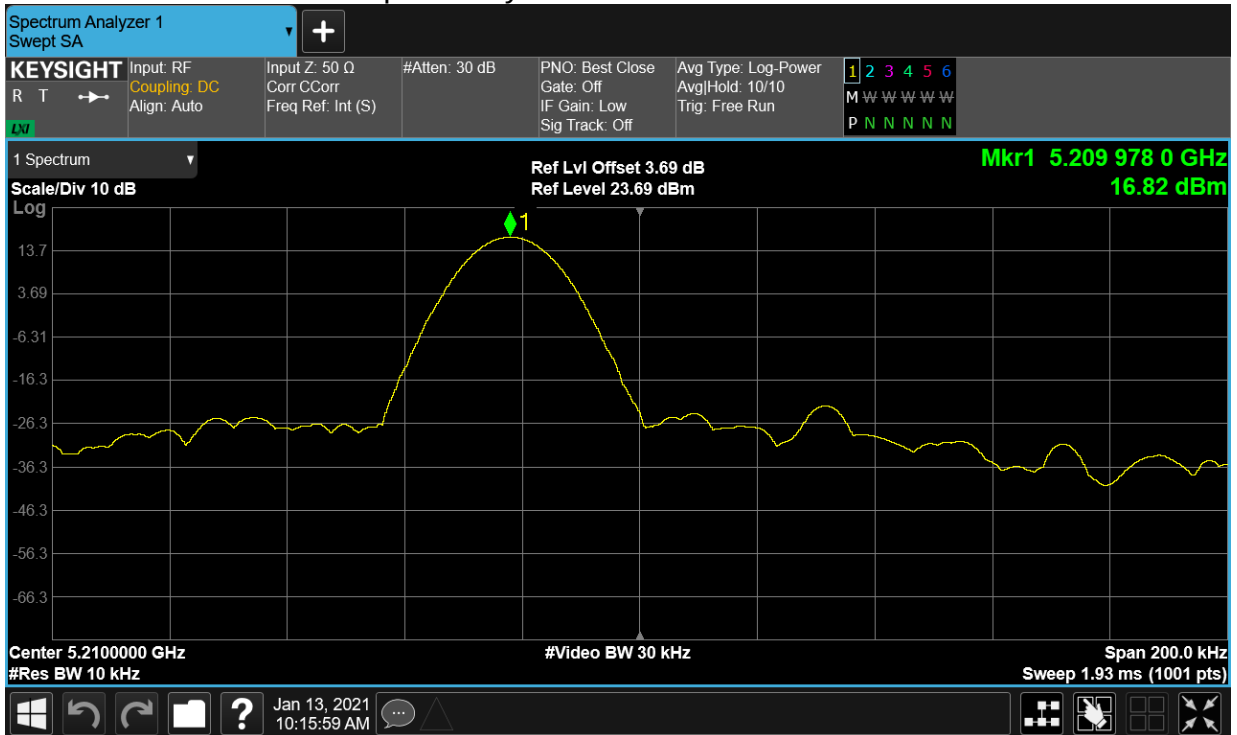
Freq. Stability HVHT ac80 5210MHz Ant1



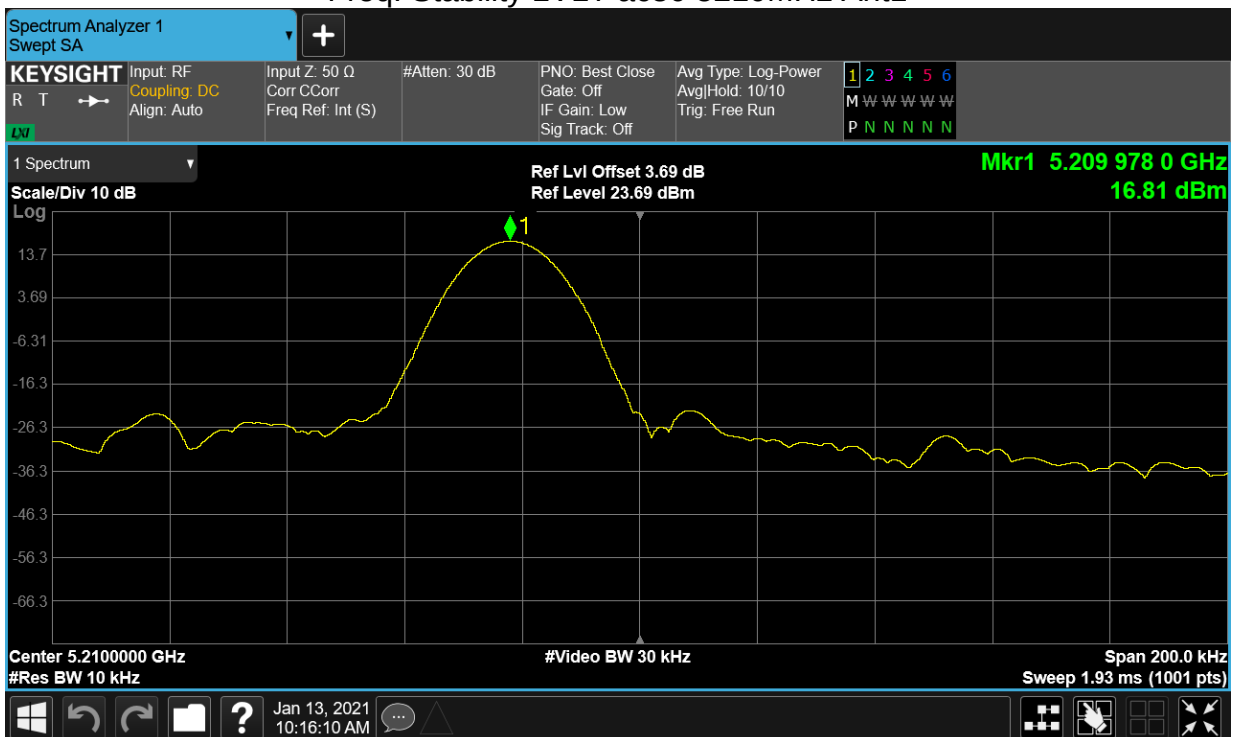
Freq. Stability HVLT ac80 5210MHz Ant1



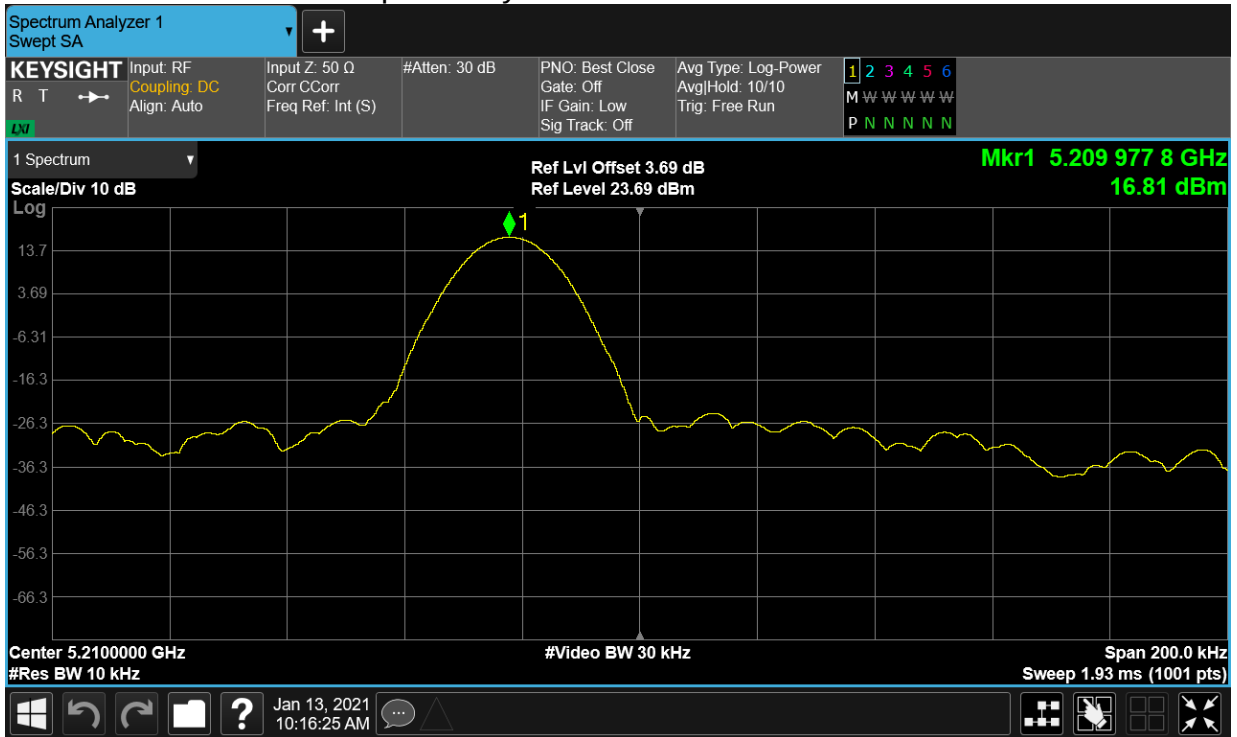
Freq. Stability LVHT ac80 5210MHz Ant1



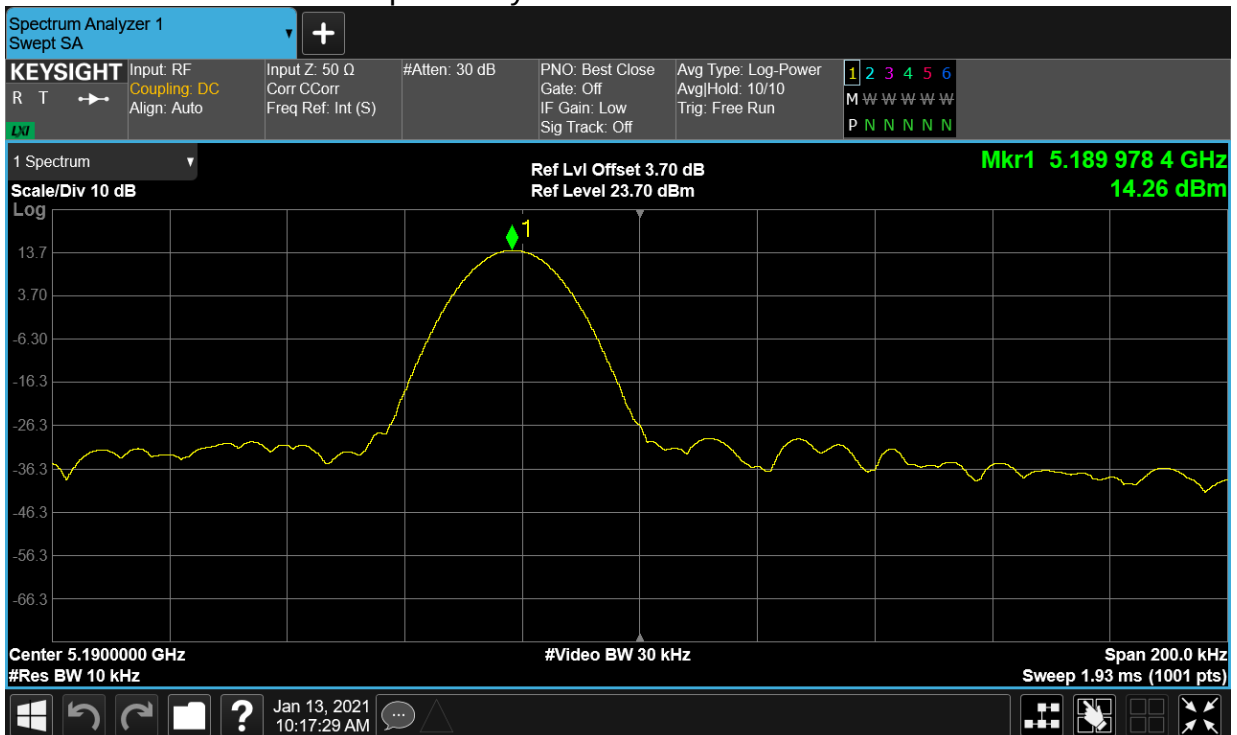
Freq. Stability LVL T ac80 5210MHz Ant1



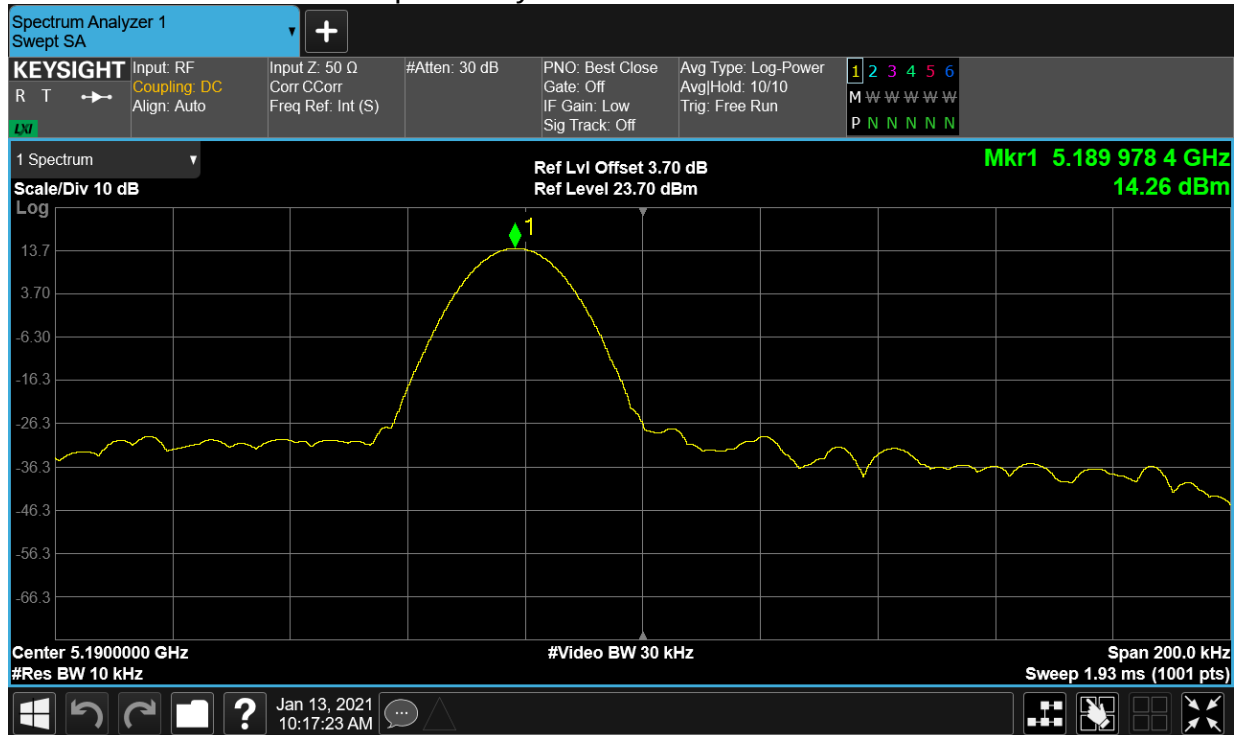
Freq. Stability NVNT ac80 5210MHz Ant1



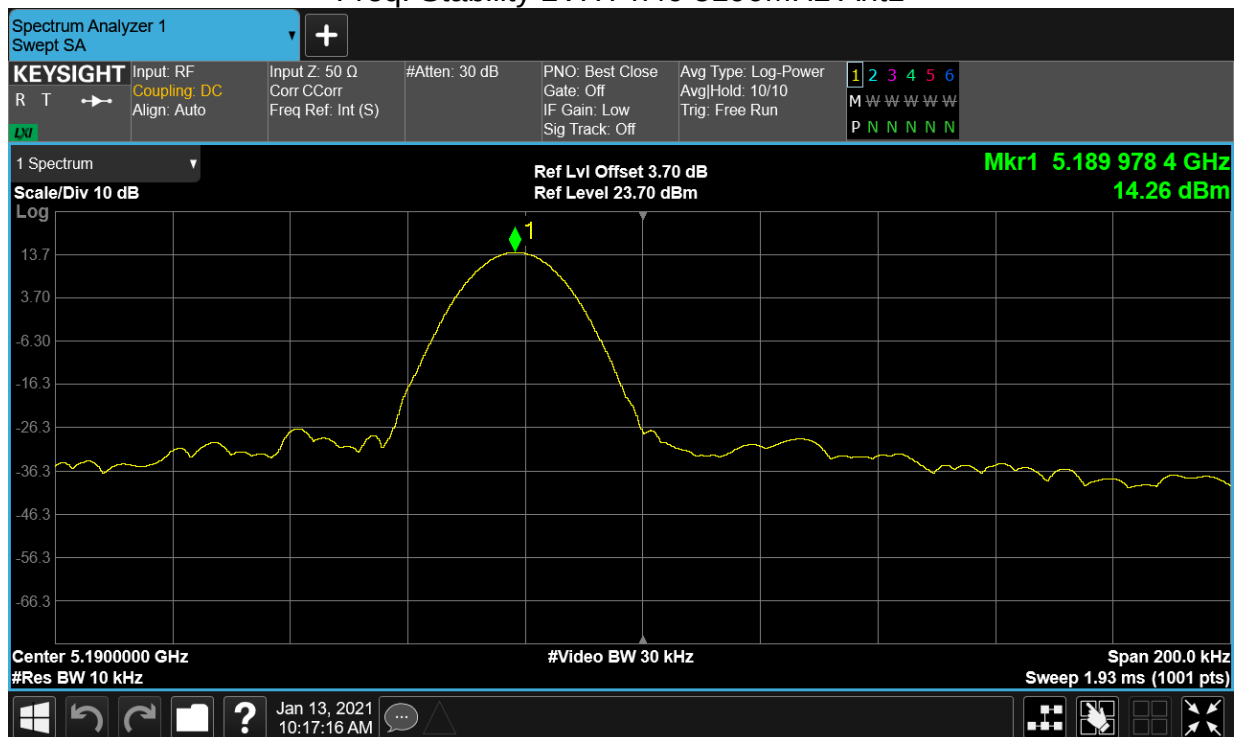
Freq. Stability HVHT n40 5190MHz Ant1



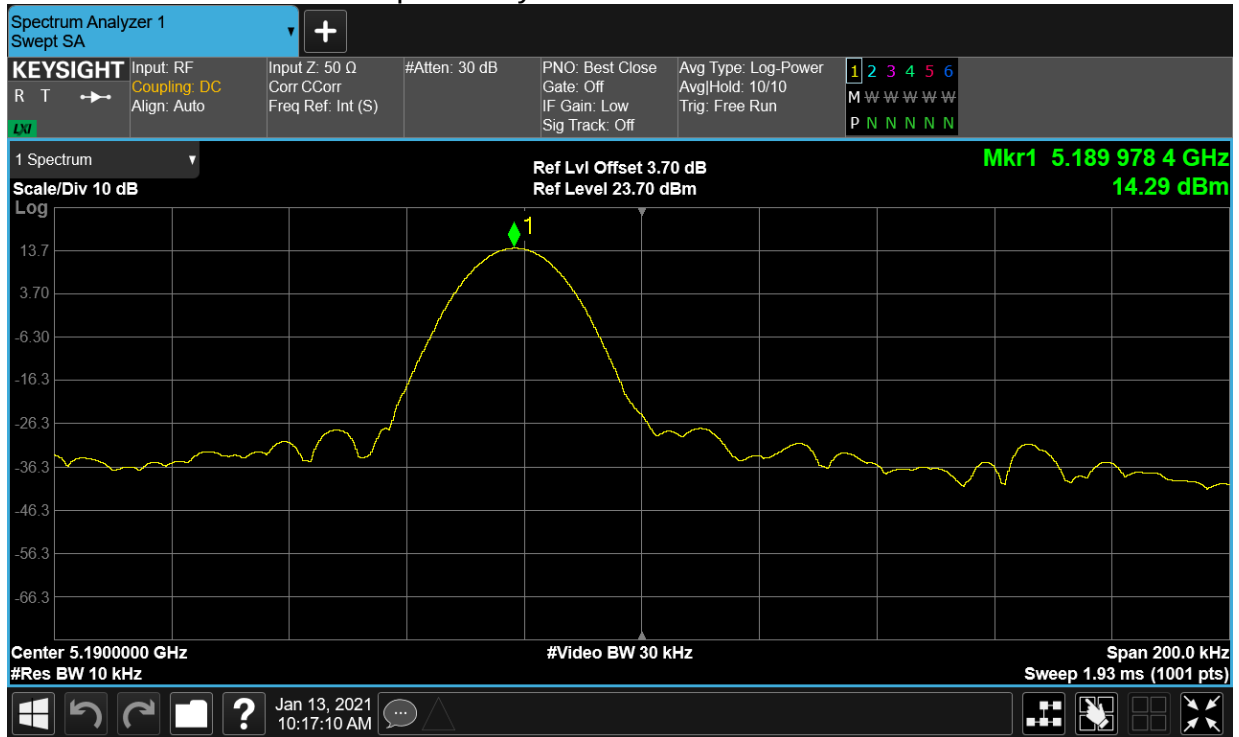
Freq. Stability HVLT n40 5190MHz Ant1



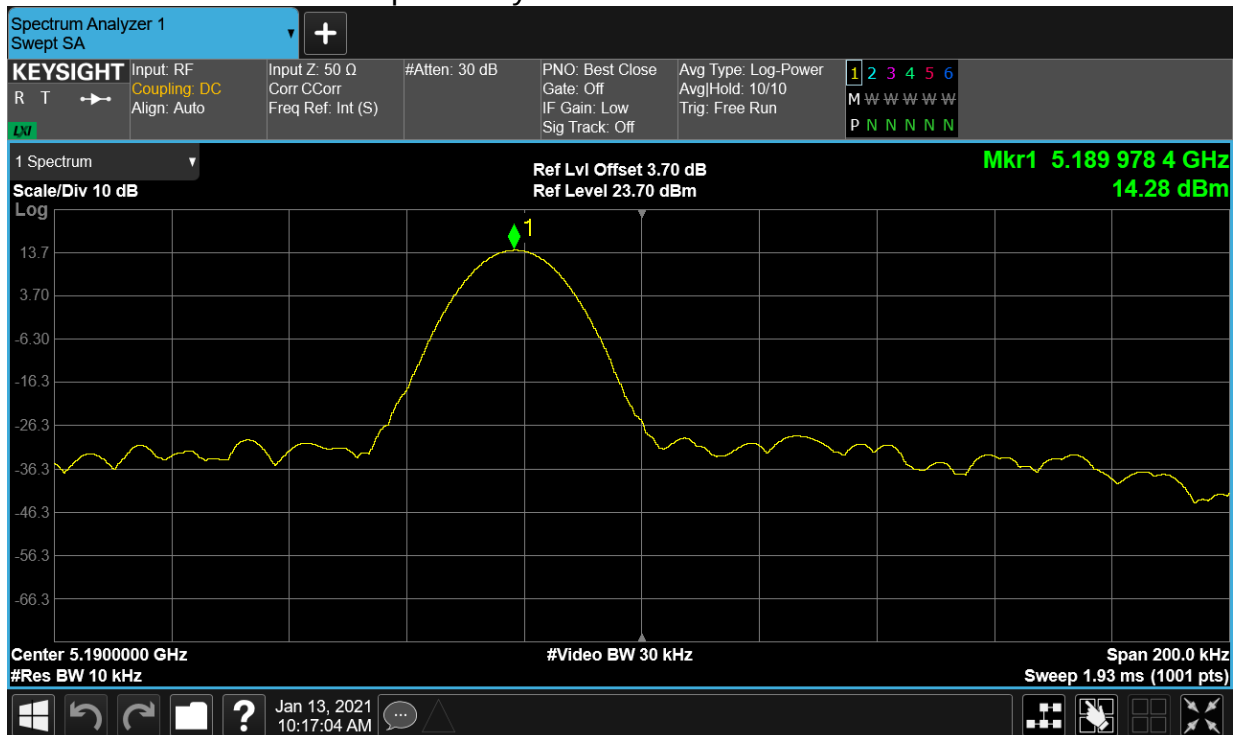
Freq. Stability LVHT n40 5190MHz Ant1



Freq. Stability LVL T n40 5190MHz Ant1



Freq. Stability NVNT n40 5190MHz Ant1

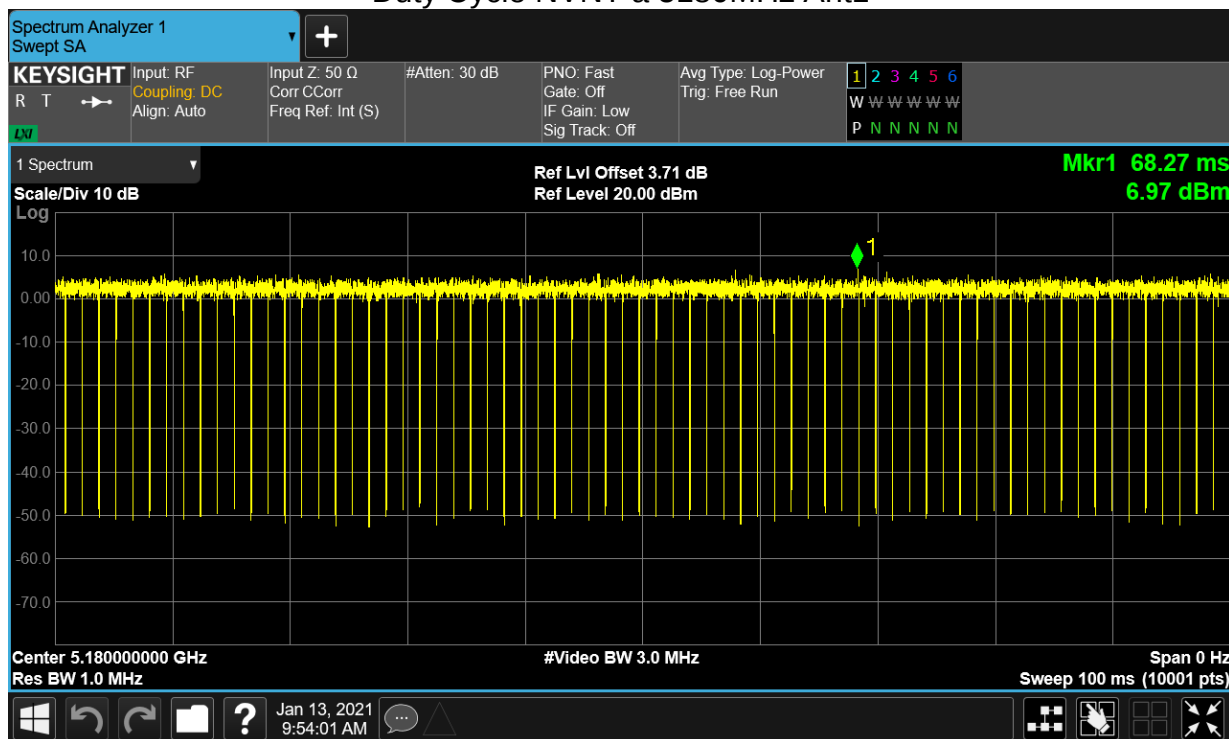


Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	97.72	0.1
NVNT	a	5200	Ant1	97.73	0.1
NVNT	a	5240	Ant1	97.75	0.1
NVNT	ac20	5180	Ant1	97.59	0.11
NVNT	ac20	5200	Ant1	97.6	0.11
NVNT	ac20	5240	Ant1	97.59	0.11

NVNT	ac40	5190	Ant1	95.33	0.21
NVNT	ac40	5230	Ant1	95.34	0.21
NVNT	ac80	5210	Ant1	91.2	0.4
NVNT	n20	5180	Ant1	97.59	0.11
NVNT	n20	5200	Ant1	97.58	0.11
NVNT	n20	5240	Ant1	97.57	0.11
NVNT	n40	5190	Ant1	95.3	0.21
NVNT	n40	5230	Ant1	95.28	0.21

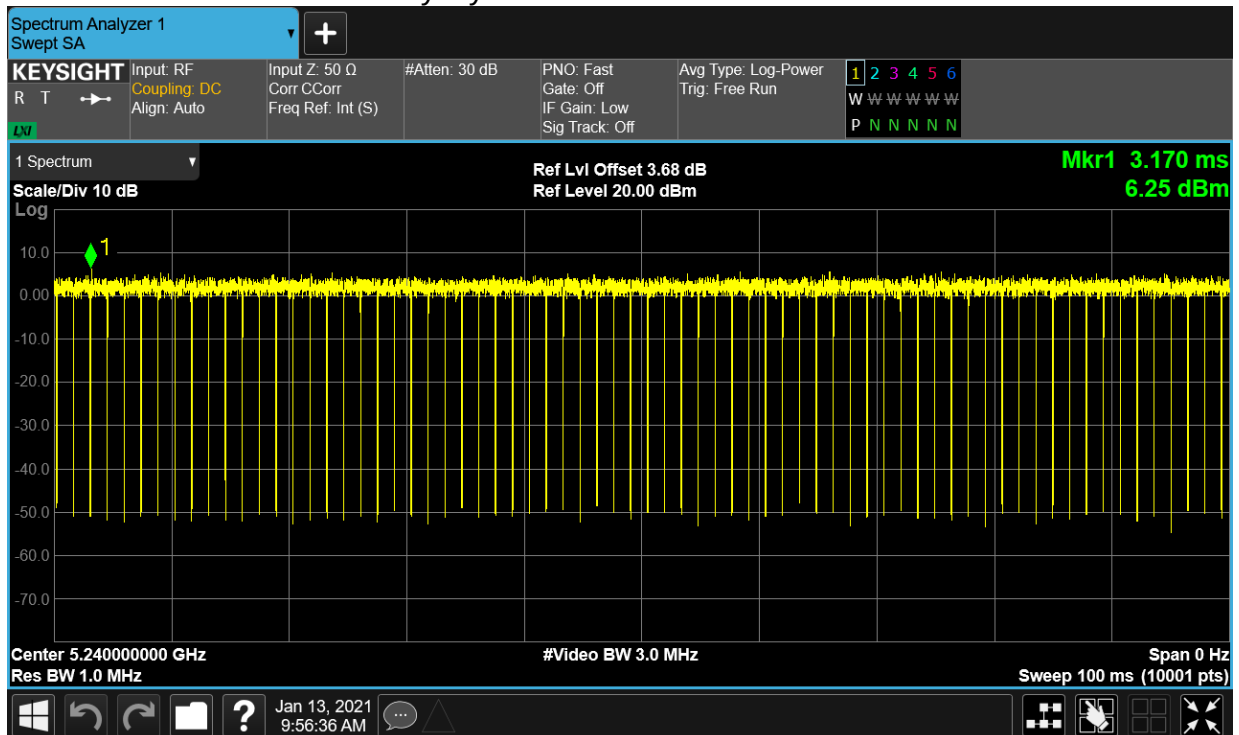
Duty Cycle NVNT a 5180MHz Ant1

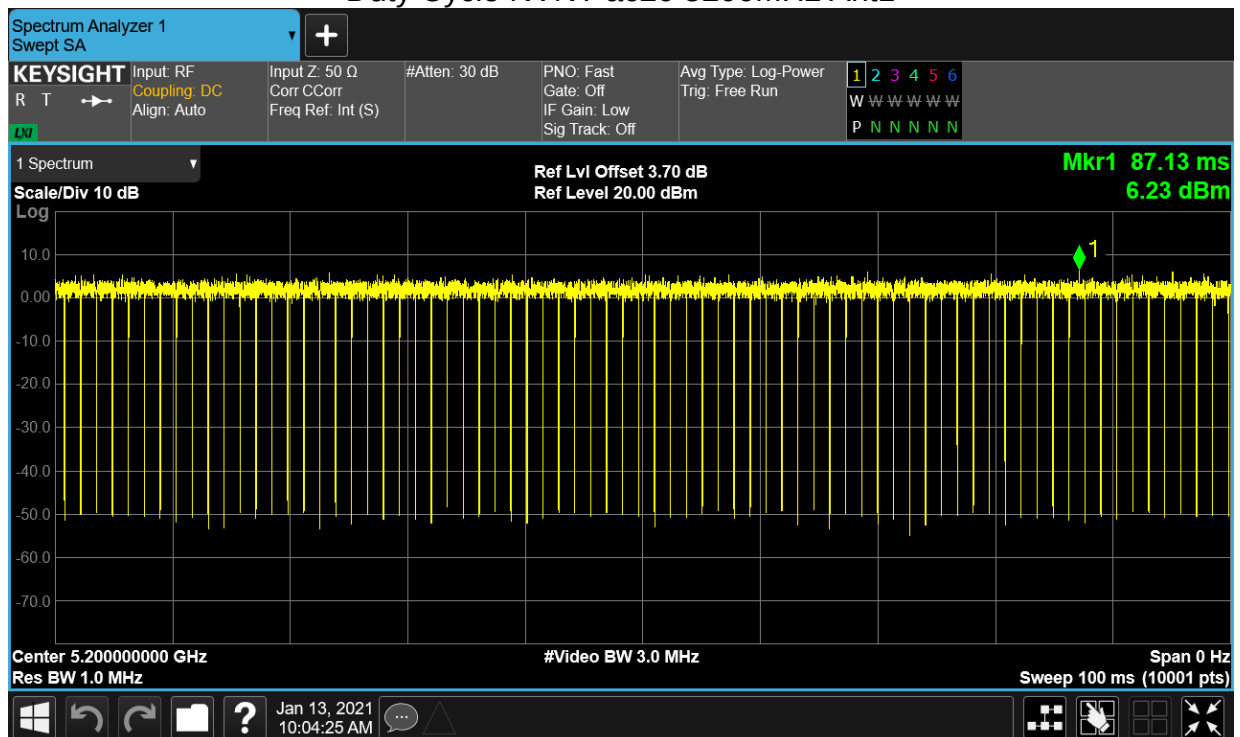


Duty Cycle NVNT a 5200MHz Ant1

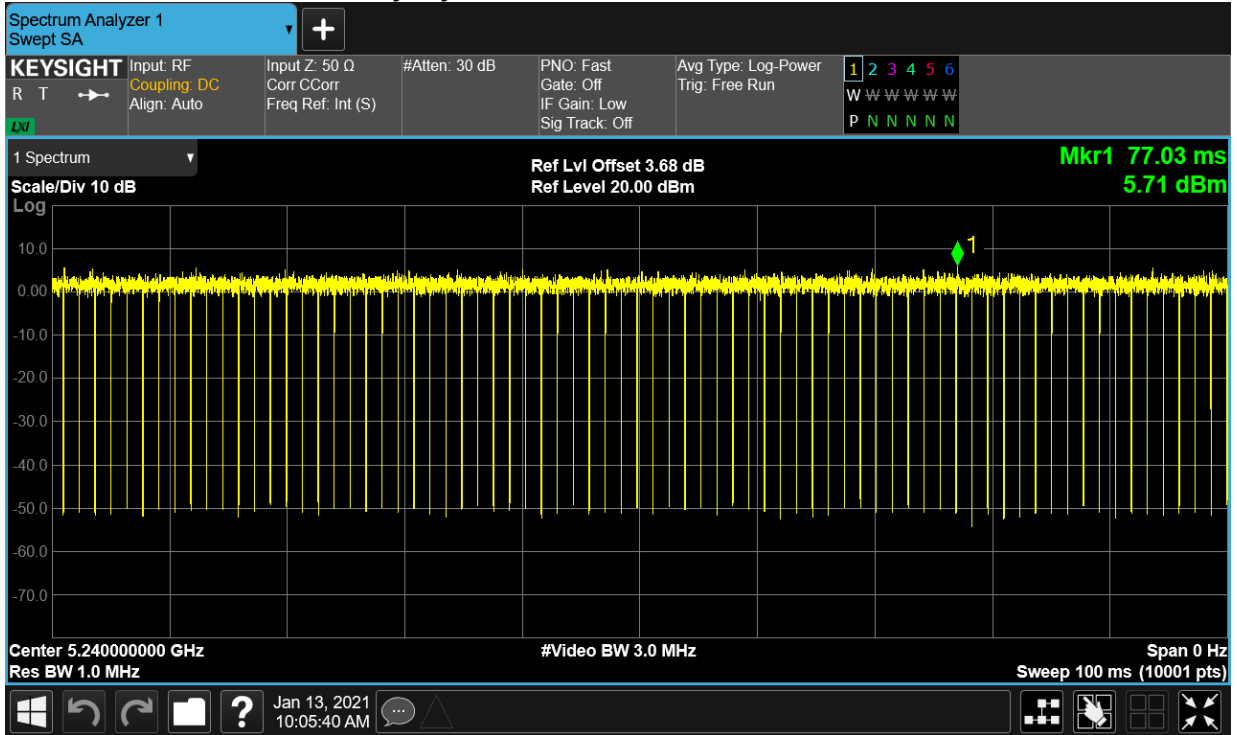


Duty Cycle NVNT a 5240MHz Ant1

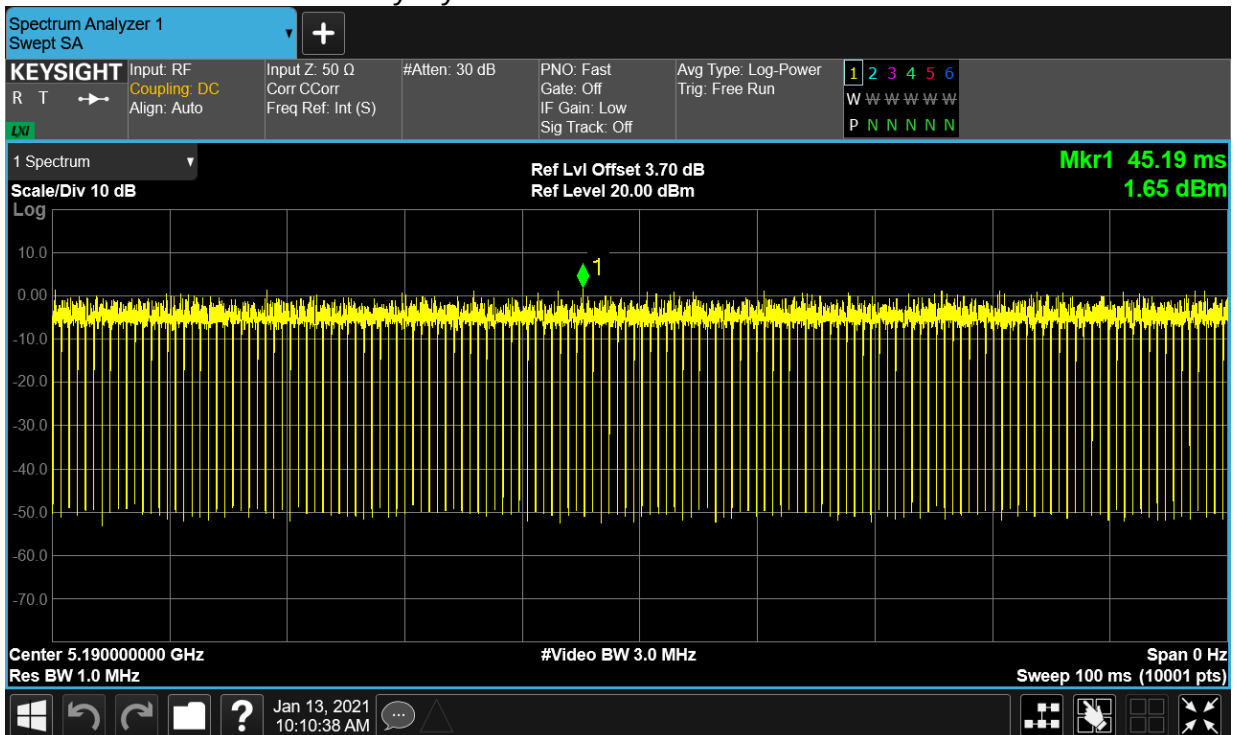




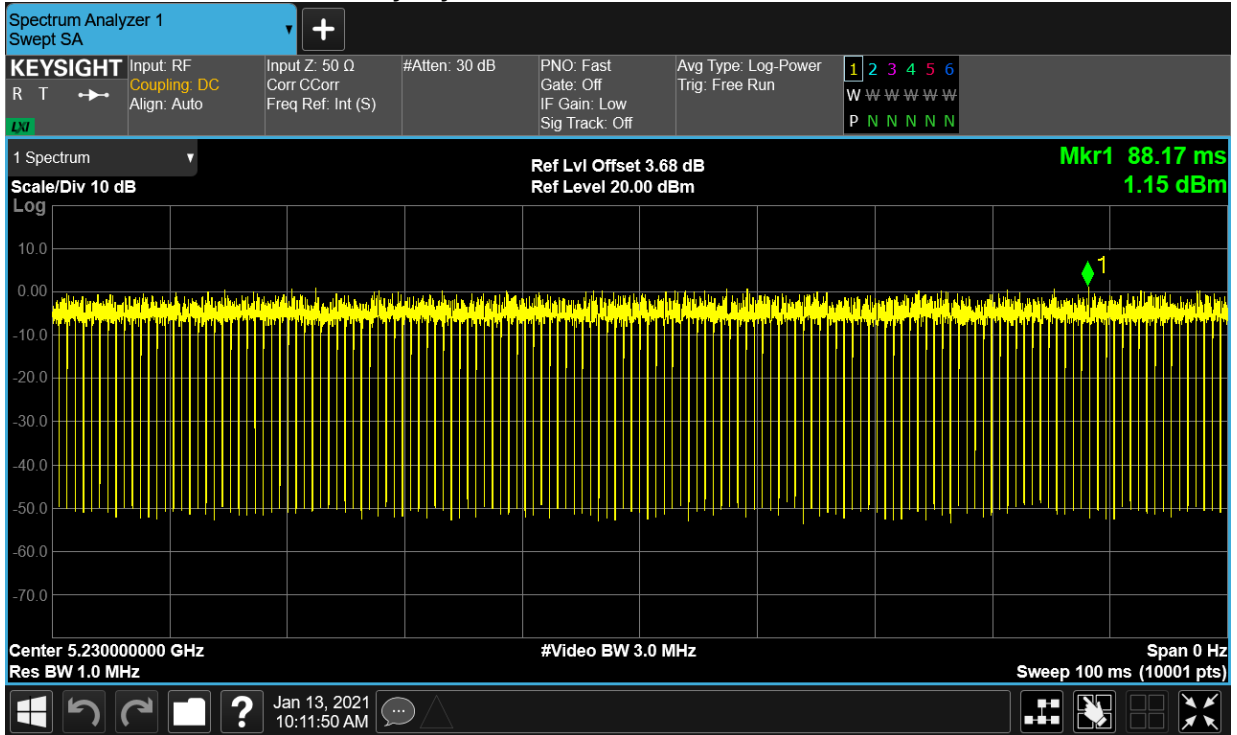
Duty Cycle NVNT ac20 5240MHz Ant1



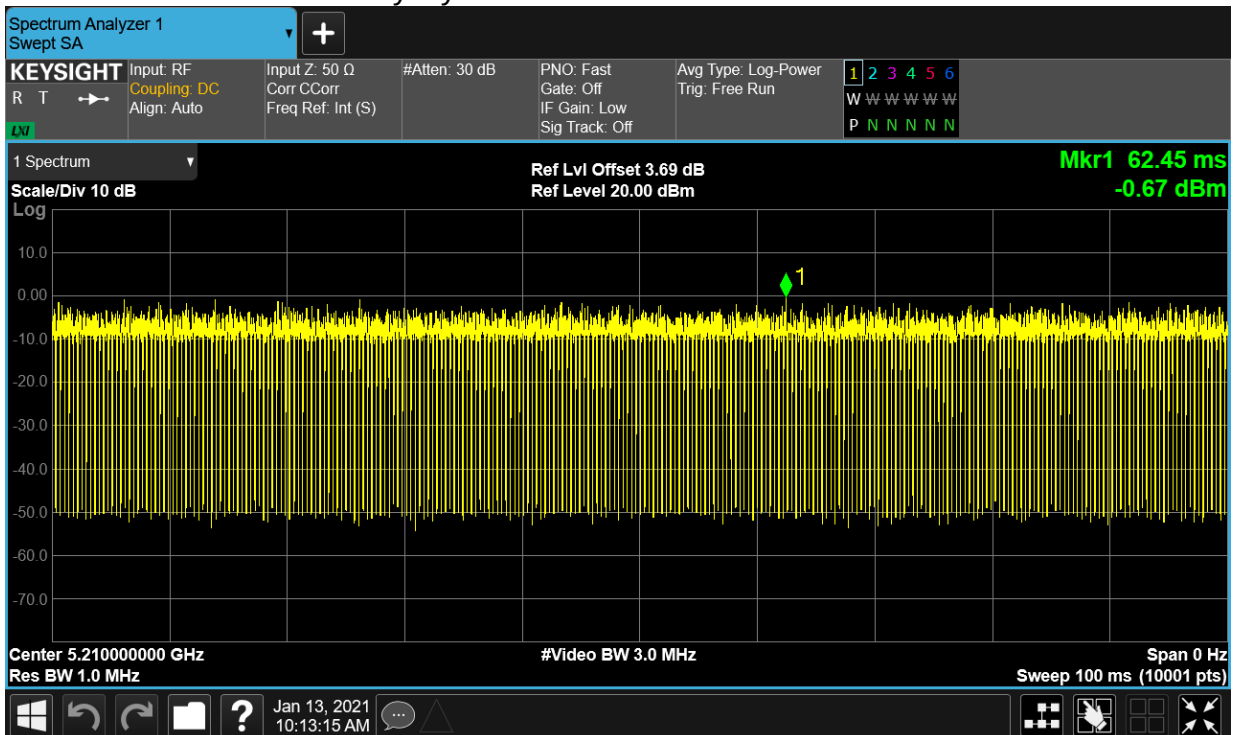
Duty Cycle NVNT ac40 5190MHz Ant1



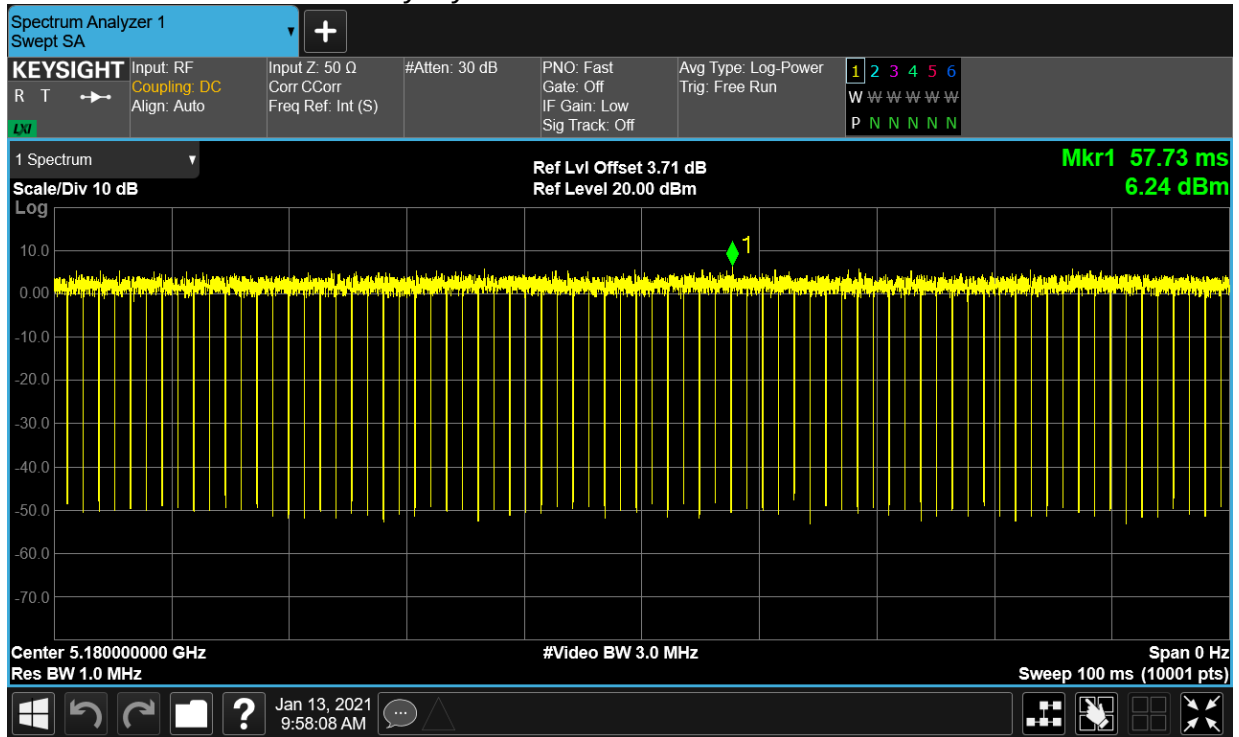
Duty Cycle NVNT ac40 5230MHz Ant1



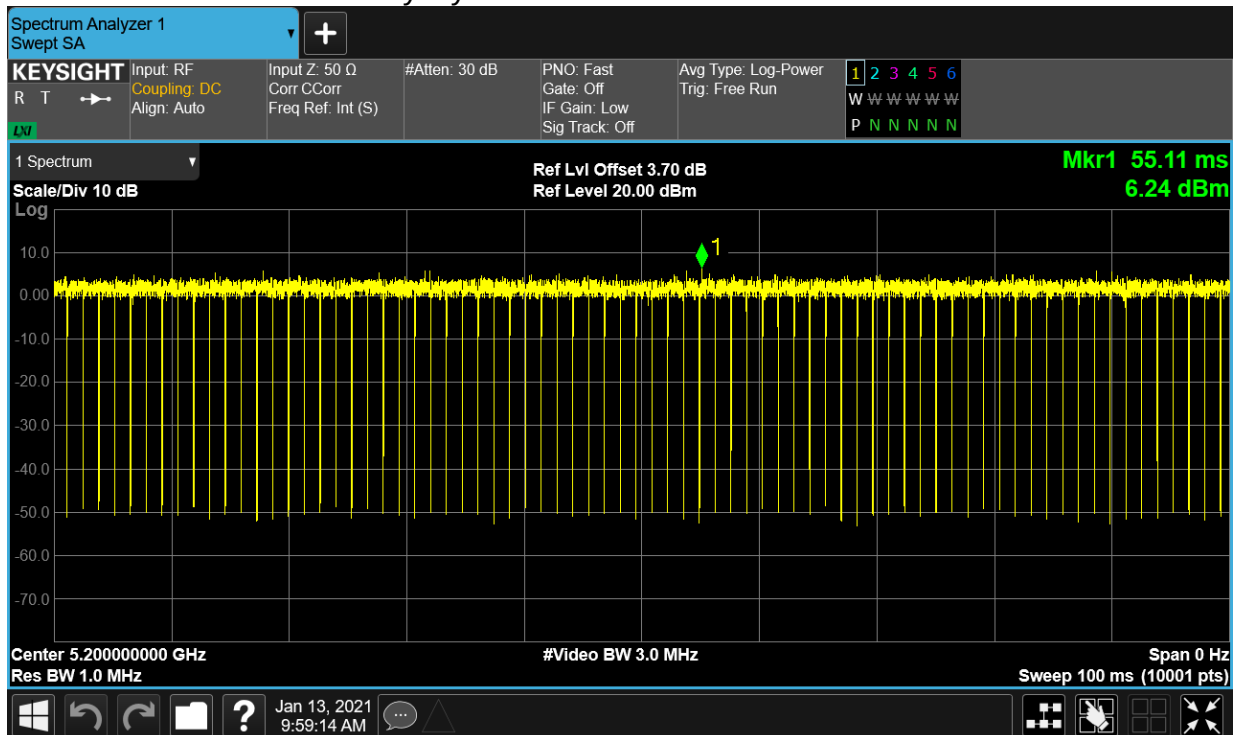
Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



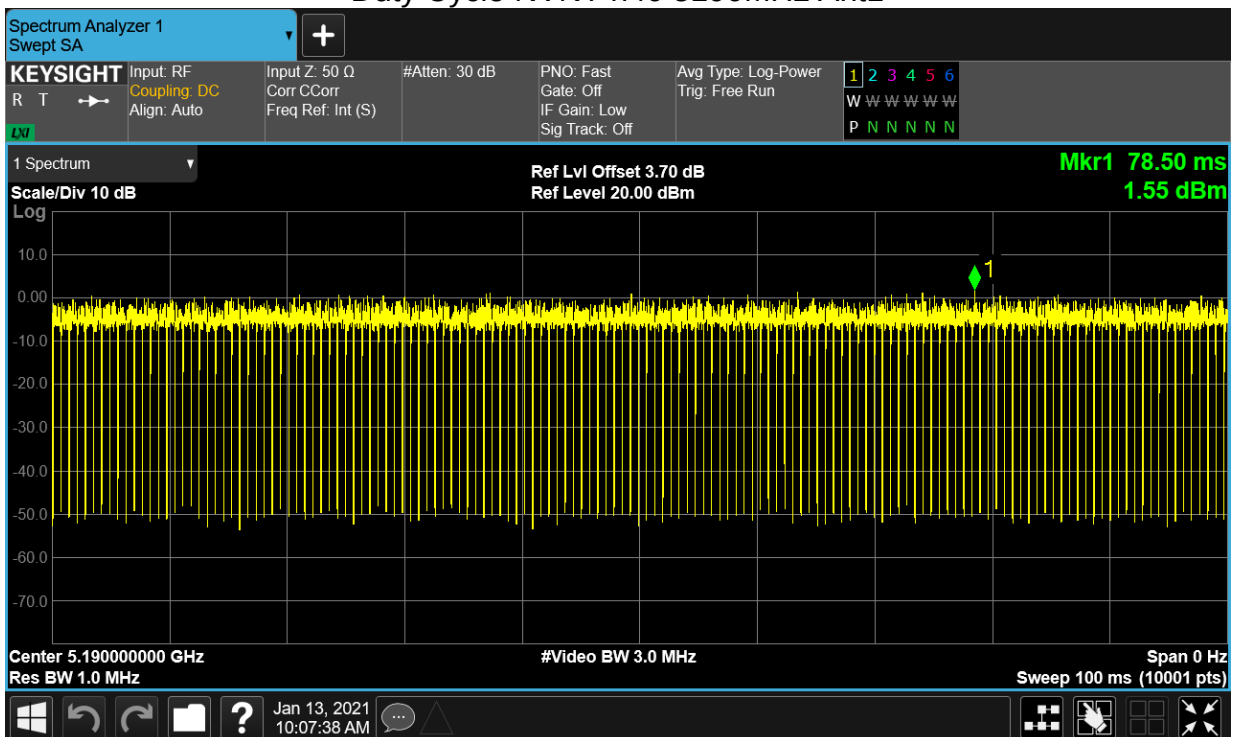
Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

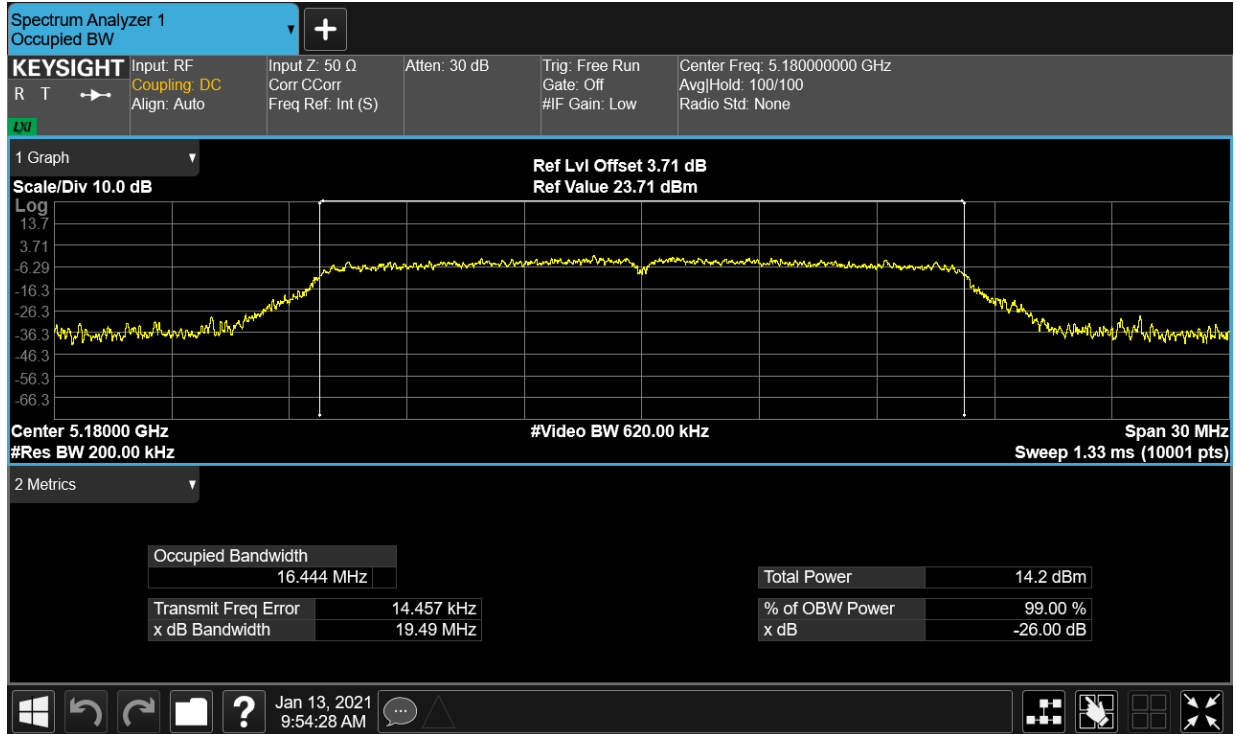
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	8.91	0.1	9.01	24	Pass
NVNT	a	5200	Ant1	8.29	0.1	8.39	24	Pass
NVNT	a	5240	Ant1	9.08	0.1	9.18	24	Pass
NVNT	ac20	5180	Ant1	8.66	0.11	8.77	24	Pass
NVNT	ac20	5200	Ant1	8.16	0.11	8.27	24	Pass
NVNT	ac20	5240	Ant1	8.89	0.11	9	24	Pass
NVNT	ac40	5190	Ant1	8.28	0.21	8.49	24	Pass
NVNT	ac40	5230	Ant1	8.92	0.21	9.13	24	Pass
NVNT	ac80	5210	Ant1	8.6	0.4	9	24	Pass
NVNT	n20	5180	Ant1	8.8	0.11	8.91	24	Pass
NVNT	n20	5200	Ant1	8.19	0.11	8.3	24	Pass
NVNT	n20	5240	Ant1	8.87	0.11	8.98	24	Pass
NVNT	n40	5190	Ant1	8.29	0.21	8.5	24	Pass
NVNT	n40	5230	Ant1	8.83	0.21	9.04	24	Pass

Occupied Channel Bandwidth

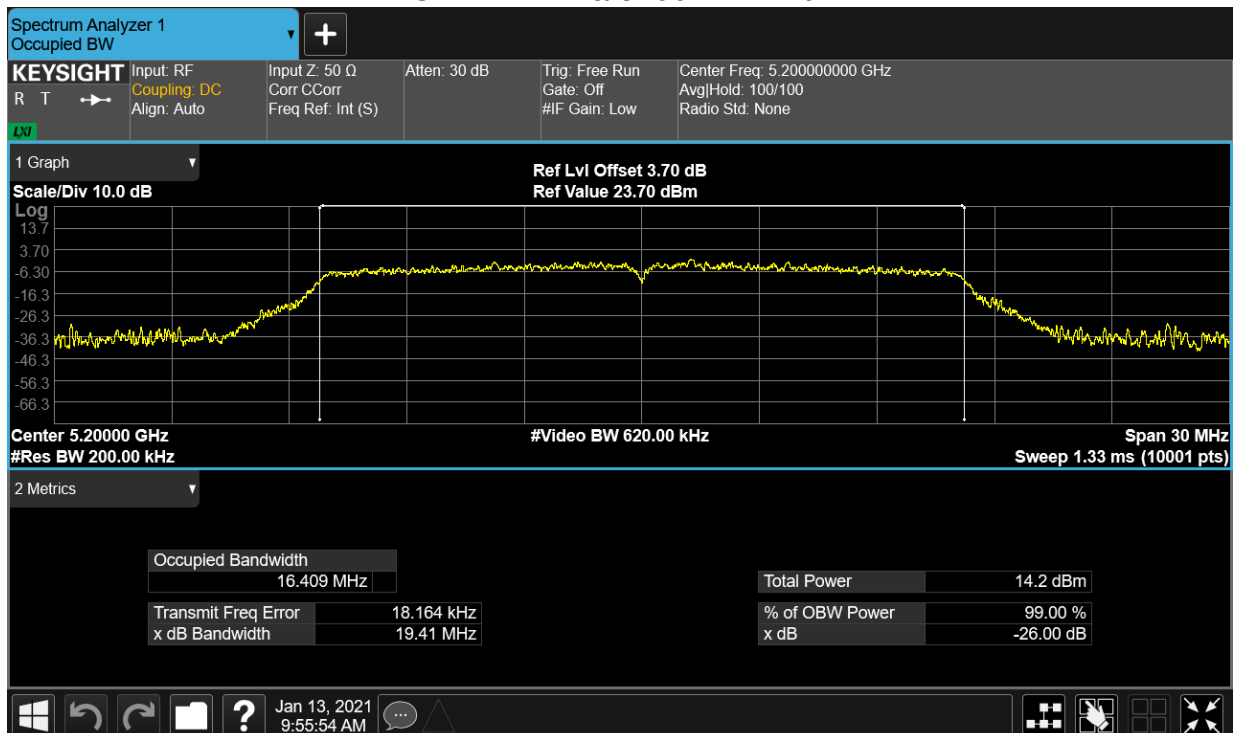
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.44399634
NVNT	a	5200	Ant1	16.408882
NVNT	a	5240	Ant1	16.45481732
NVNT	ac20	5180	Ant1	17.55792226
NVNT	ac20	5200	Ant1	17.56003506
NVNT	ac20	5240	Ant1	17.59159668
NVNT	ac40	5190	Ant1	35.94608057
NVNT	ac40	5230	Ant1	36.0238396

NVNT	ac80	5210	Ant1	75.24918332
NVNT	n20	5180	Ant1	17.5724465
NVNT	n20	5200	Ant1	17.57136838
NVNT	n20	5240	Ant1	17.5714228
NVNT	n40	5190	Ant1	35.98973385
NVNT	n40	5230	Ant1	36.05055896

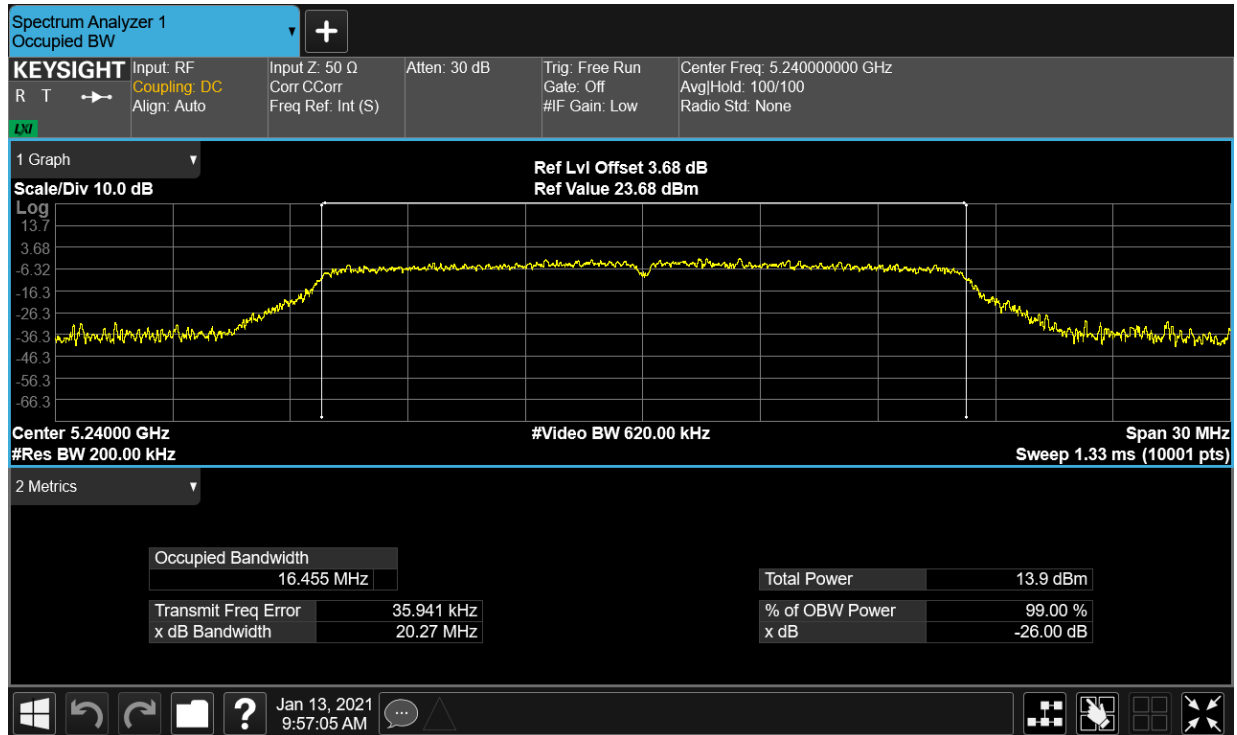
OBW NVNT a 5180MHz Ant1



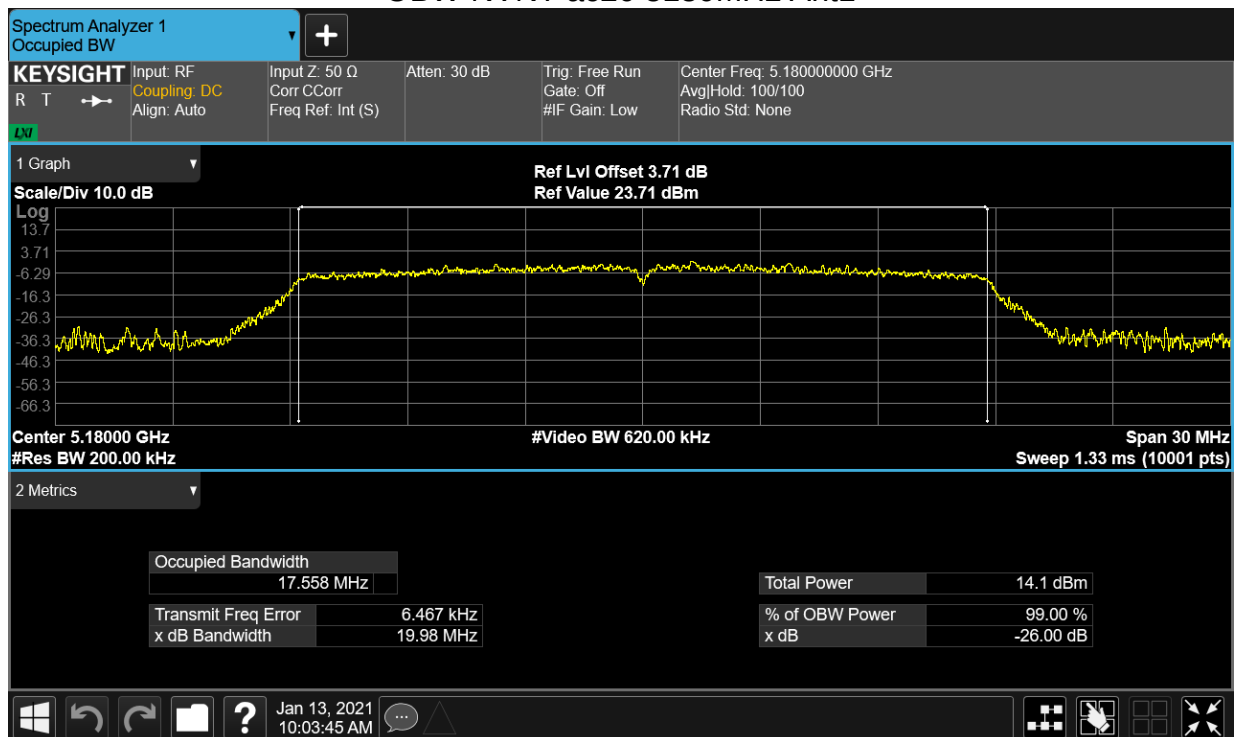
OBW NVNT a 5200MHz Ant1



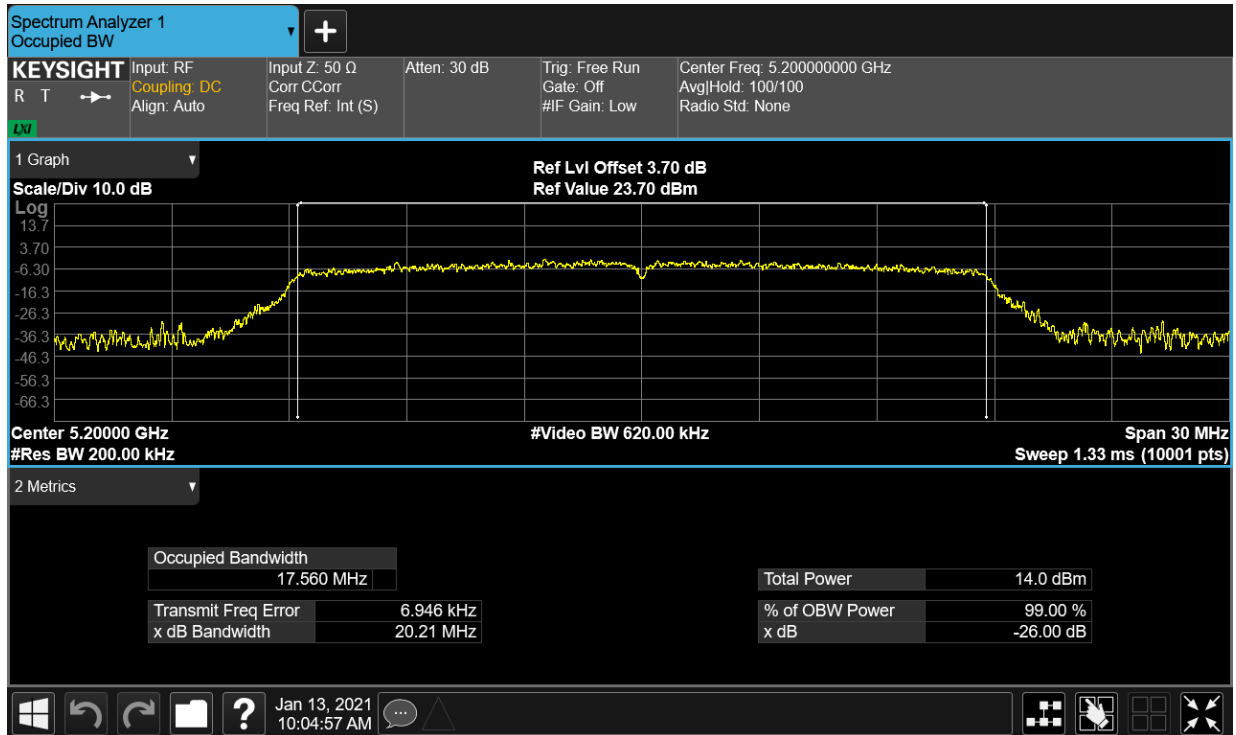
OBW NVNT a 5240MHz Ant1



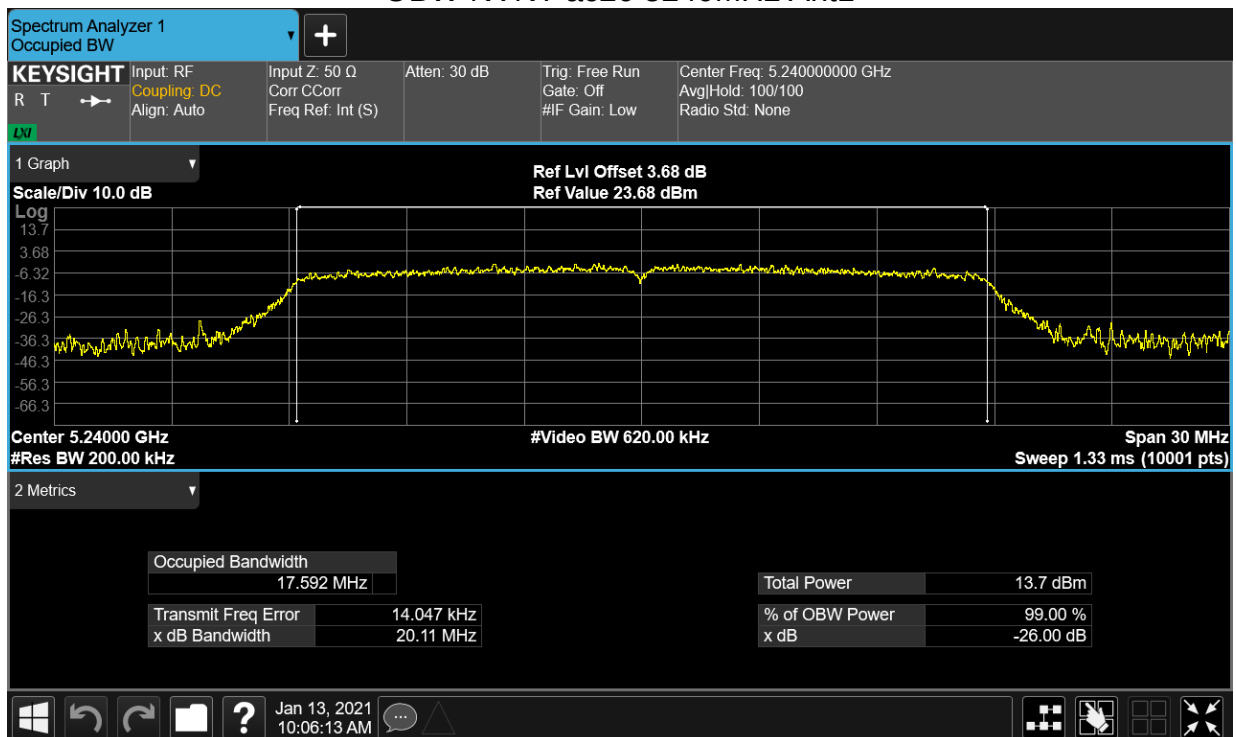
OBW NVNT ac20 5180MHz Ant1



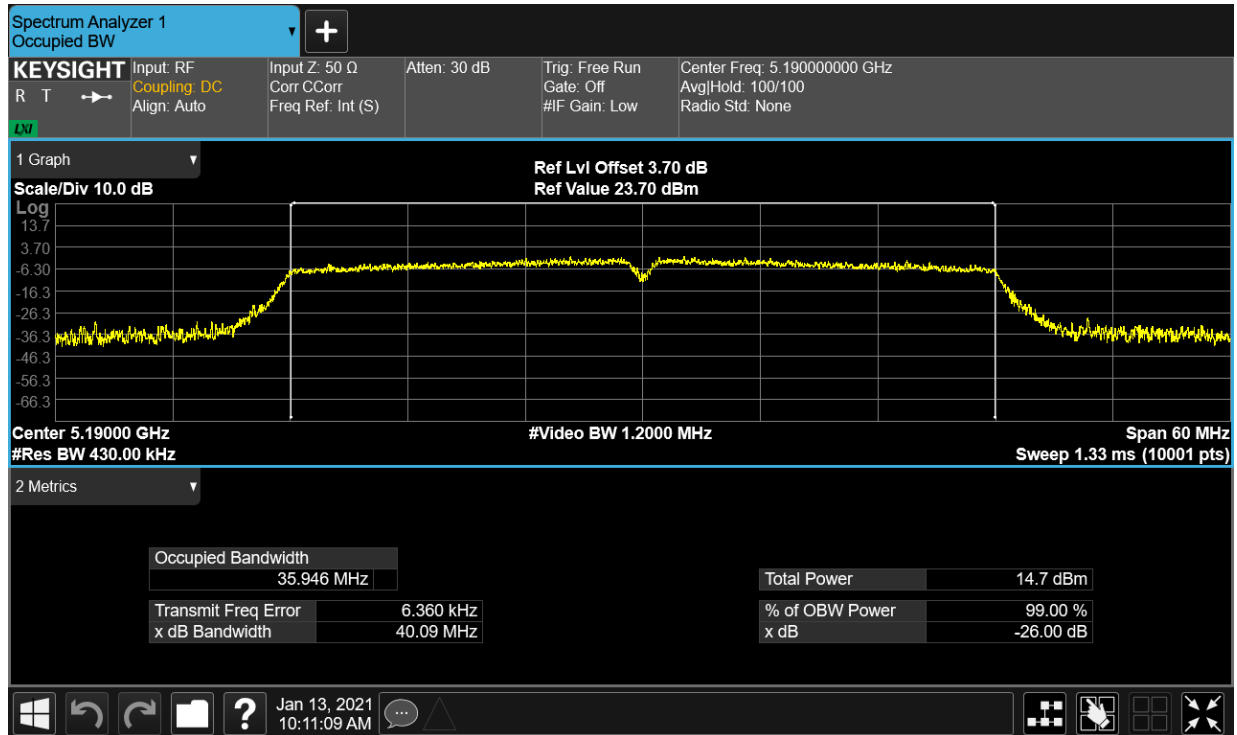
OBW NVNT ac20 5200MHz Ant1



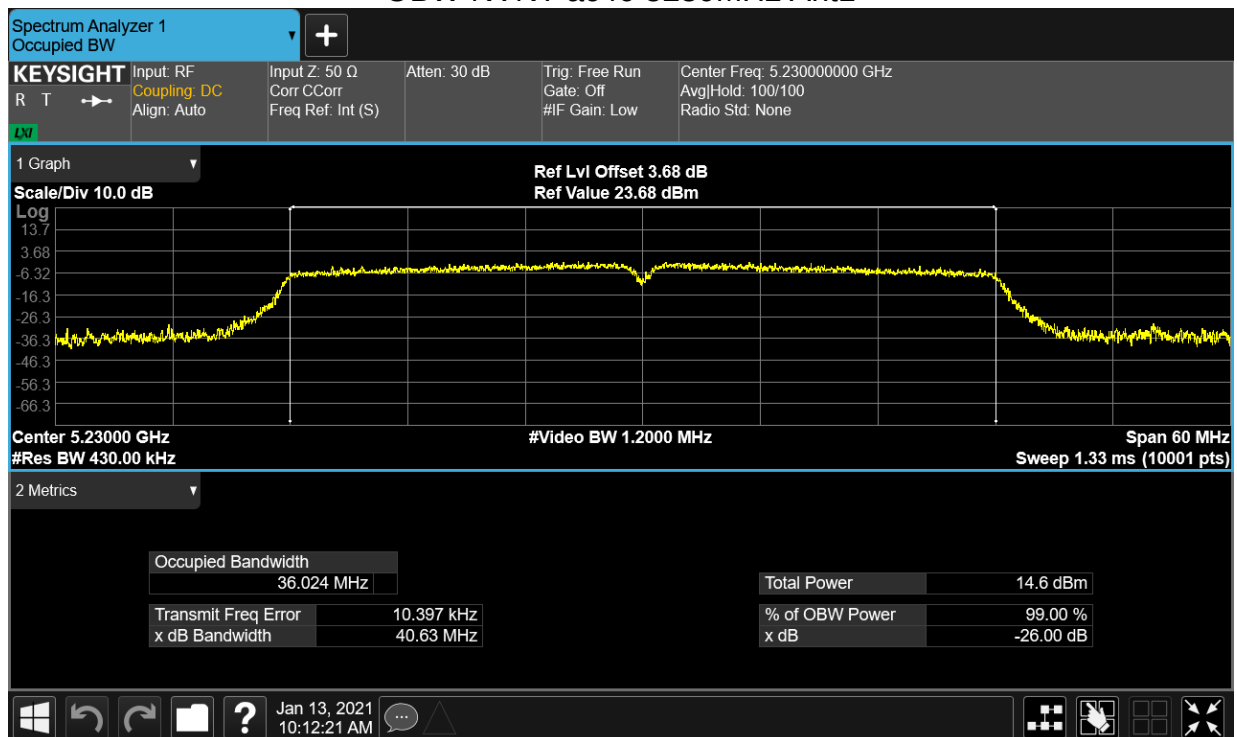
OBW NVNT ac20 5240MHz Ant1



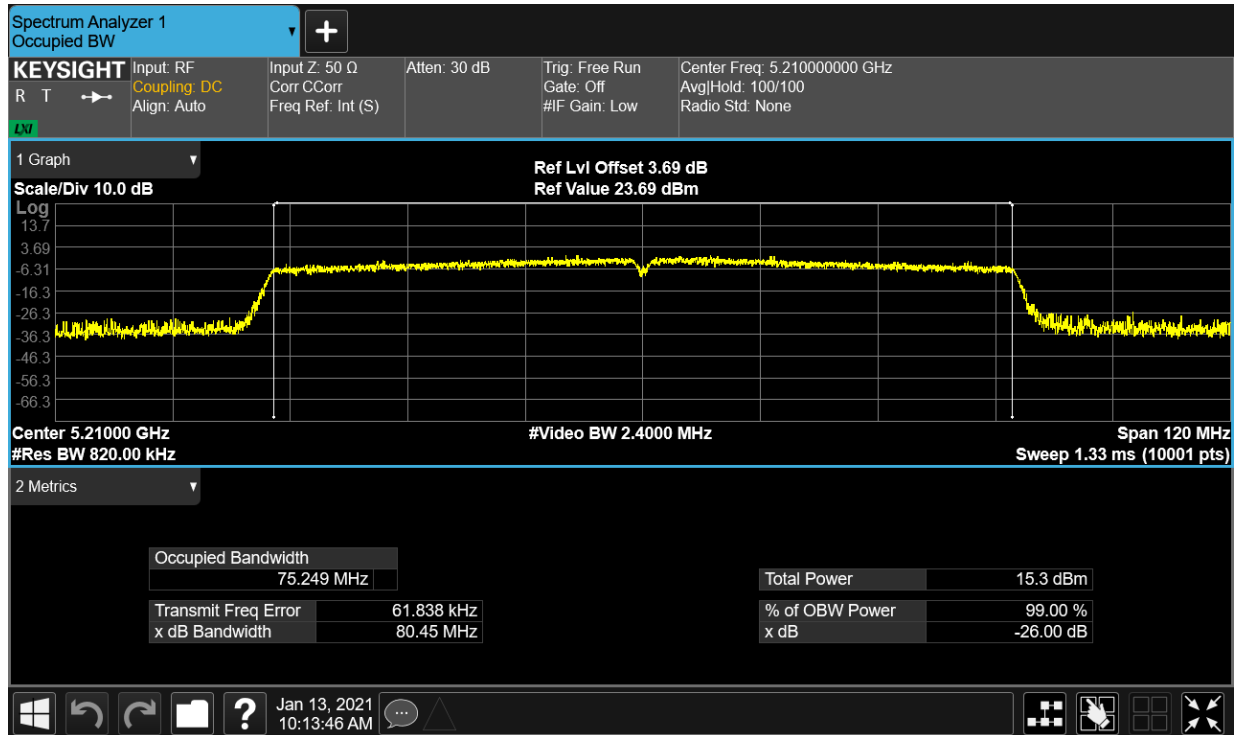
OBW NVNT ac40 5190MHz Ant1



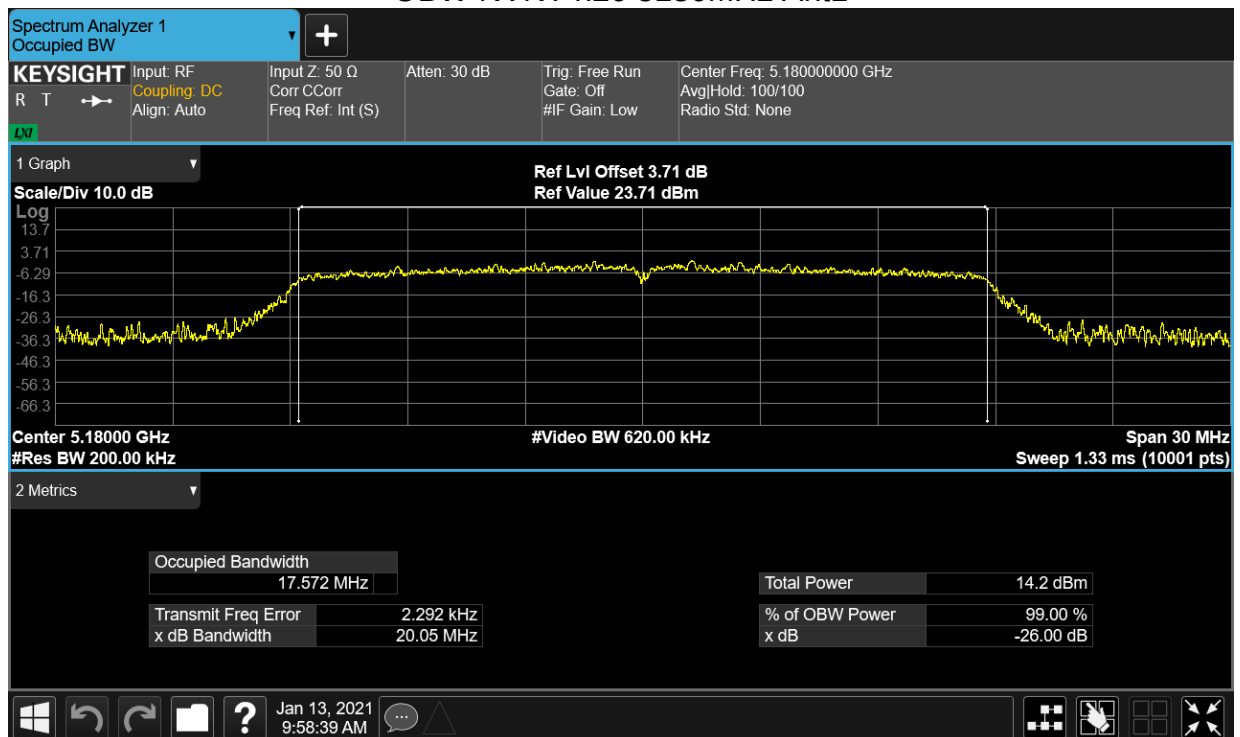
OBW NVNT ac40 5230MHz Ant1



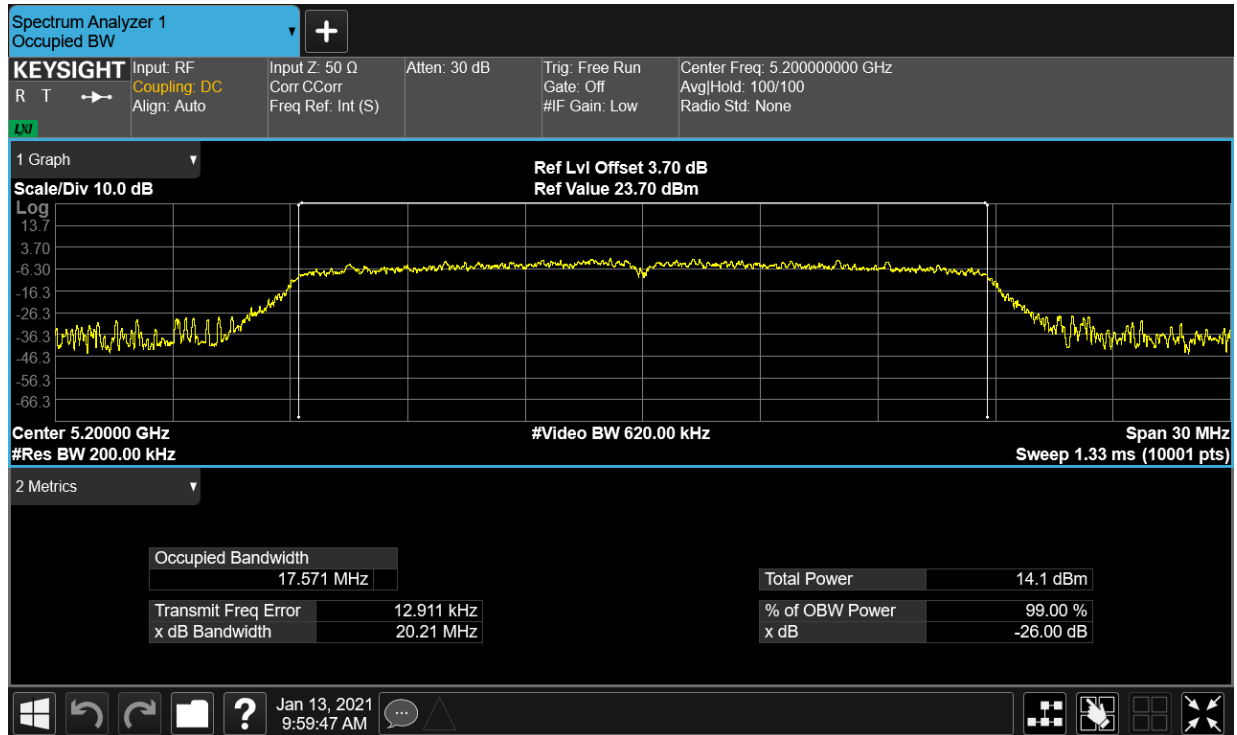
OBW NVNT ac80 5210MHz Ant1



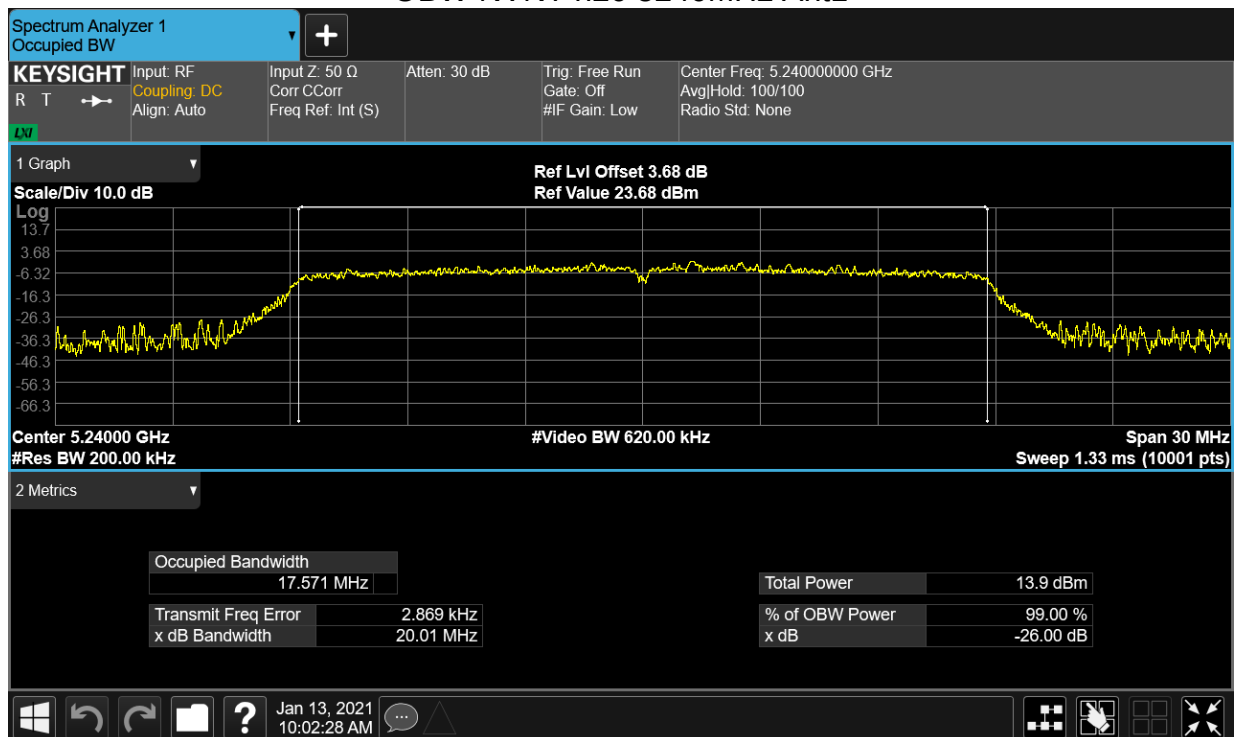
OBW NVNT n20 5180MHz Ant1



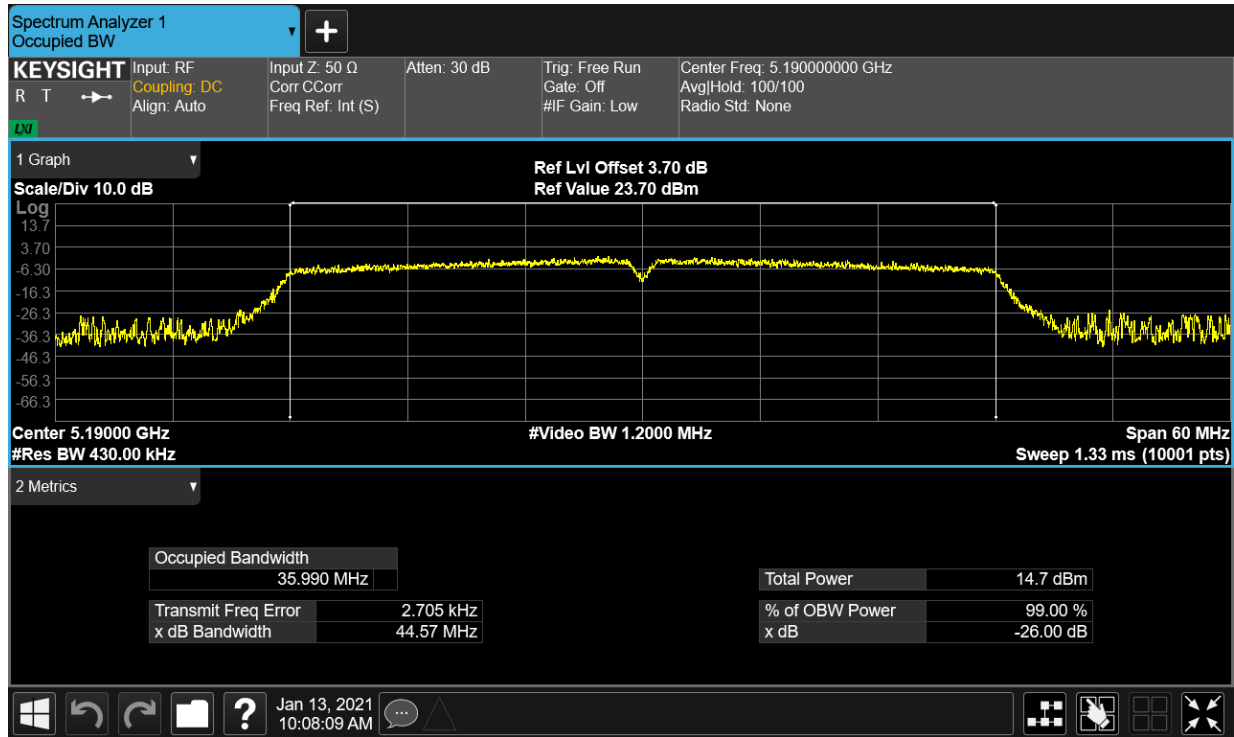
OBW NVNT n20 5200MHz Ant1



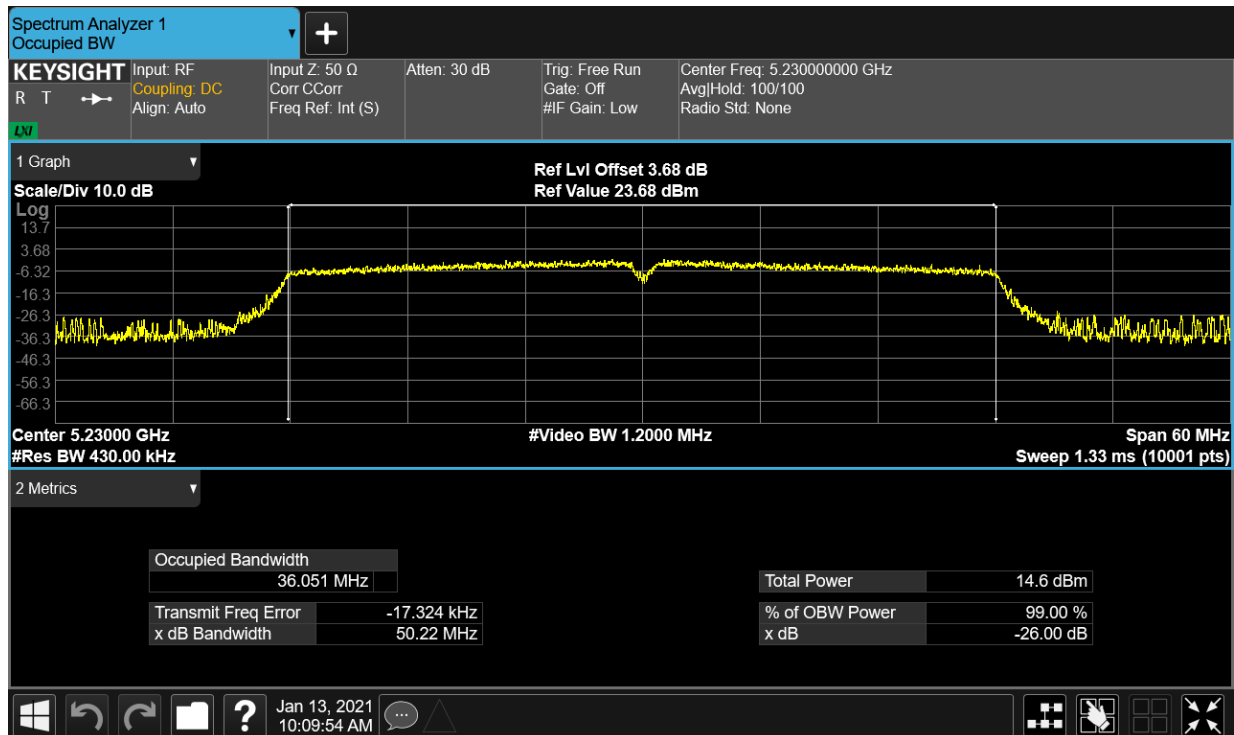
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



Maximum Power Spectral Density Level

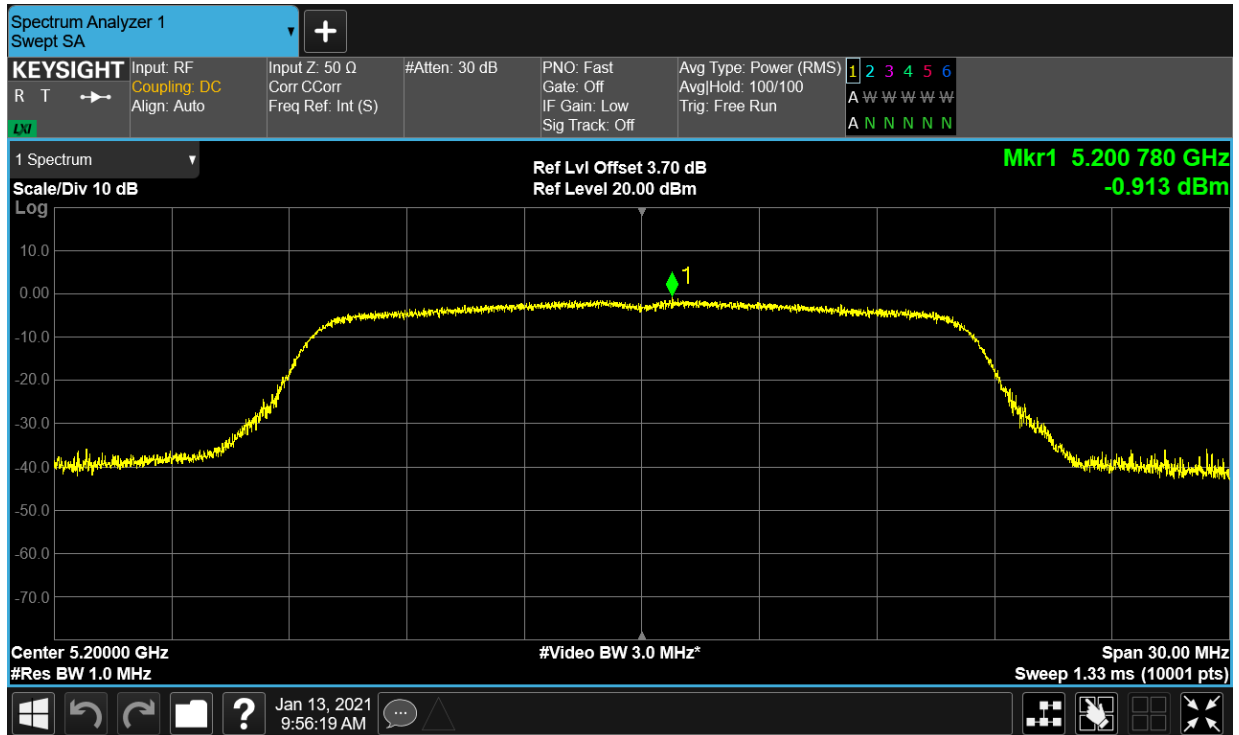
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.877	11	Pass
NVNT	a	5200	Ant1	-0.913	11	Pass
NVNT	a	5240	Ant1	-1.319	11	Pass
NVNT	ac20	5180	Ant1	-1.113	11	Pass
NVNT	ac20	5200	Ant1	-1.481	11	Pass
NVNT	ac20	5240	Ant1	-1.813	11	Pass

NVNT	ac40	5190	Ant1	-3.995	11	Pass
NVNT	ac40	5230	Ant1	-3.731	11	Pass
NVNT	ac80	5210	Ant1	-7.209	11	Pass
NVNT	n20	5180	Ant1	-1.449	11	Pass
NVNT	n20	5200	Ant1	-1.537	11	Pass
NVNT	n20	5240	Ant1	-1.408	11	Pass
NVNT	n40	5190	Ant1	-3.839	11	Pass
NVNT	n40	5230	Ant1	-4.087	11	Pass

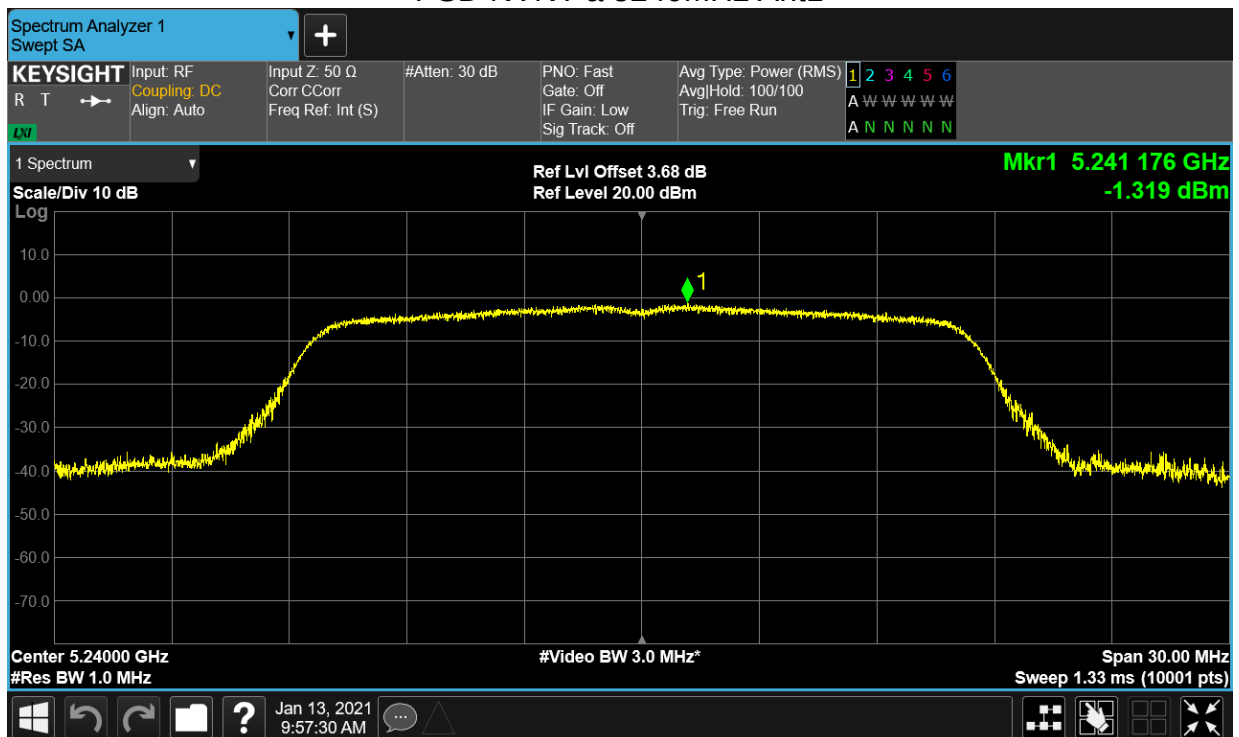
PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



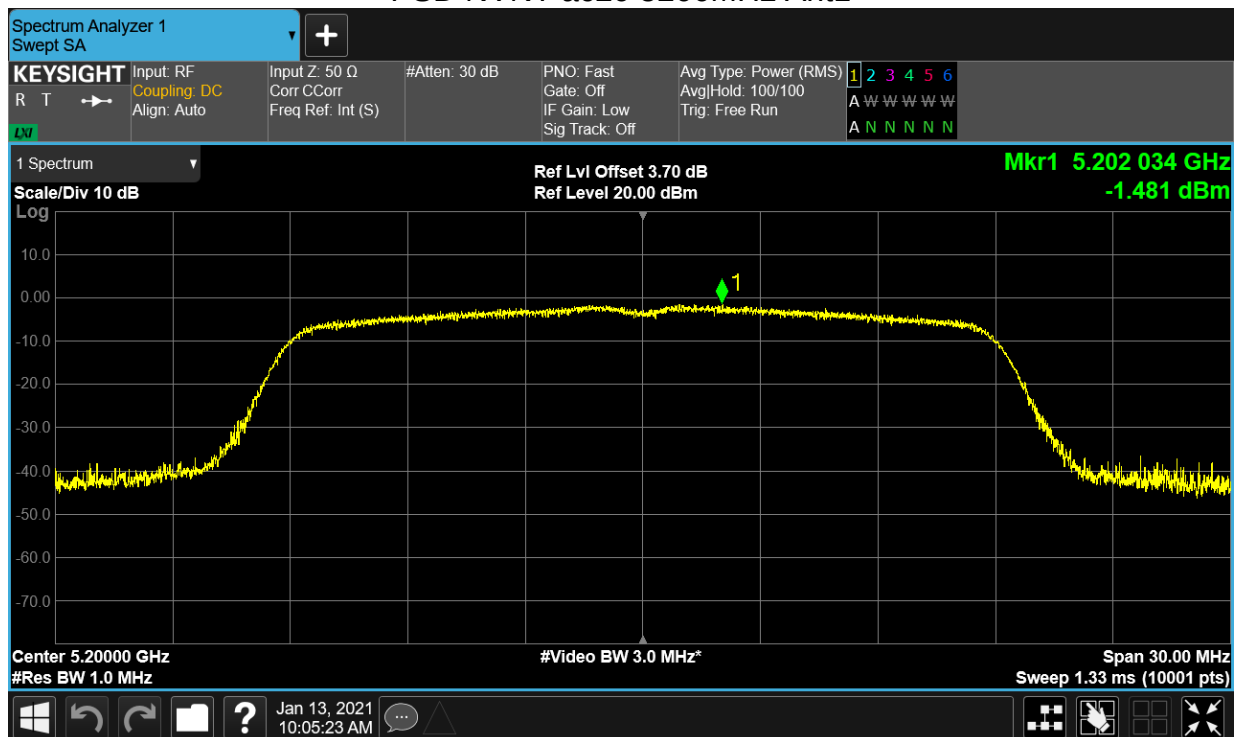
PSD NVNT a 5240MHz Ant1



PSD NVNT ac20 5180MHz Ant1



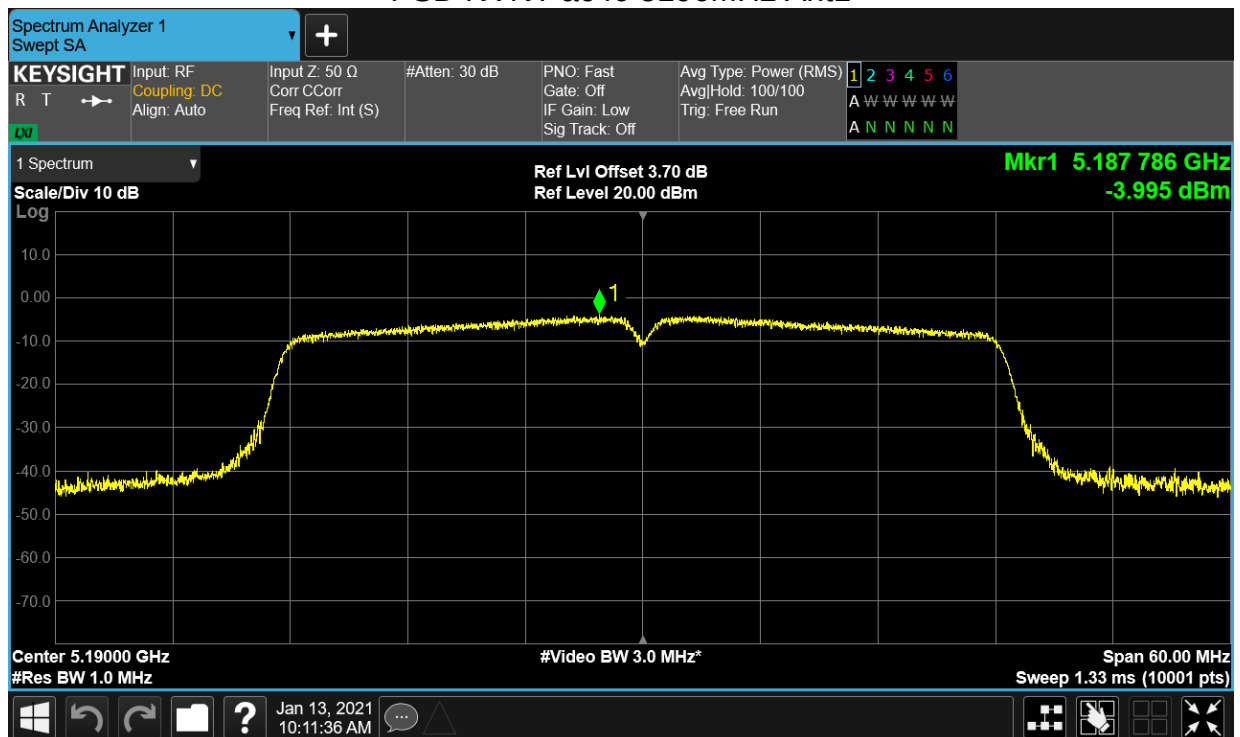
PSD NVNT ac20 5200MHz Ant1



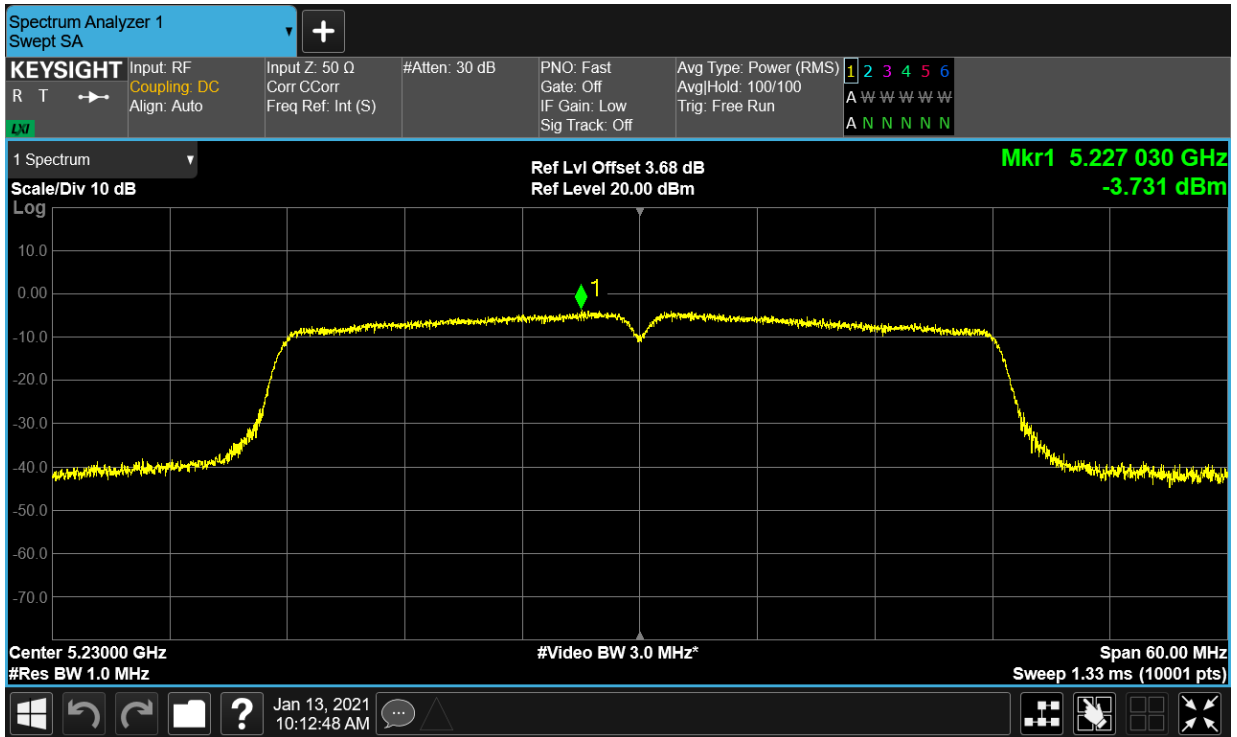
PSD NVNT ac20 5240MHz Ant1



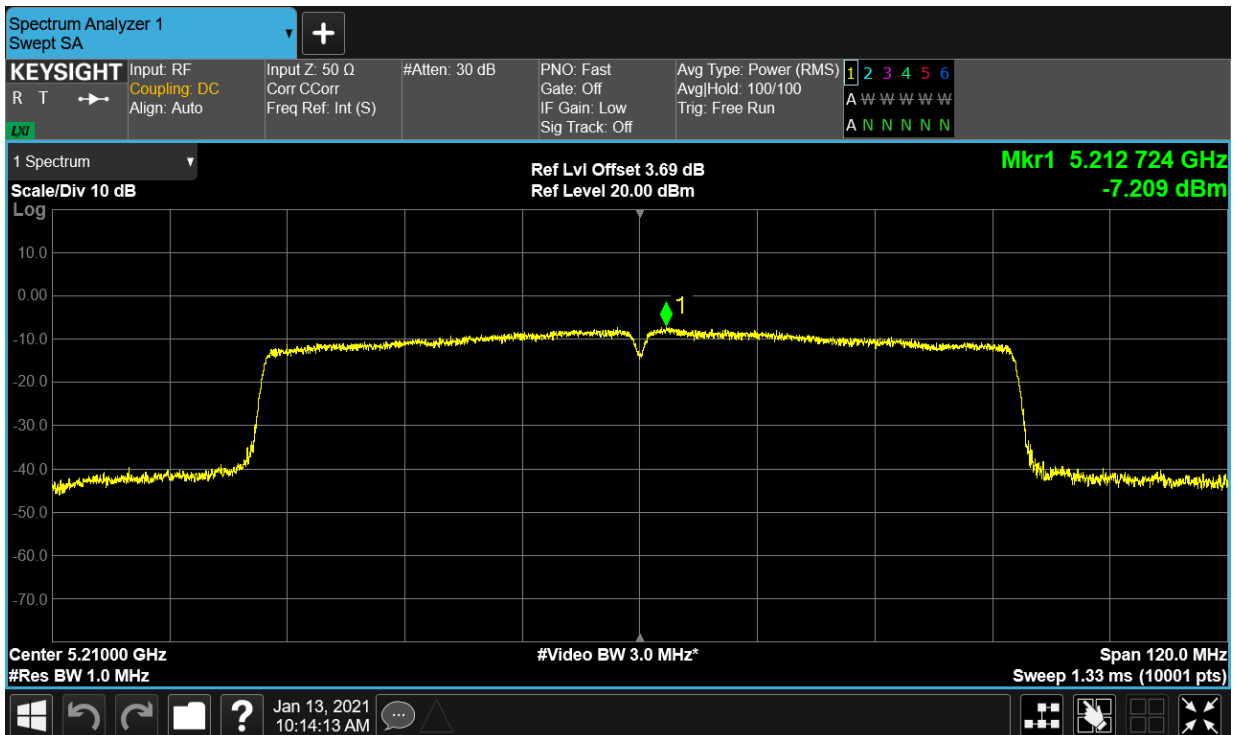
PSD NVNT ac40 5190MHz Ant1



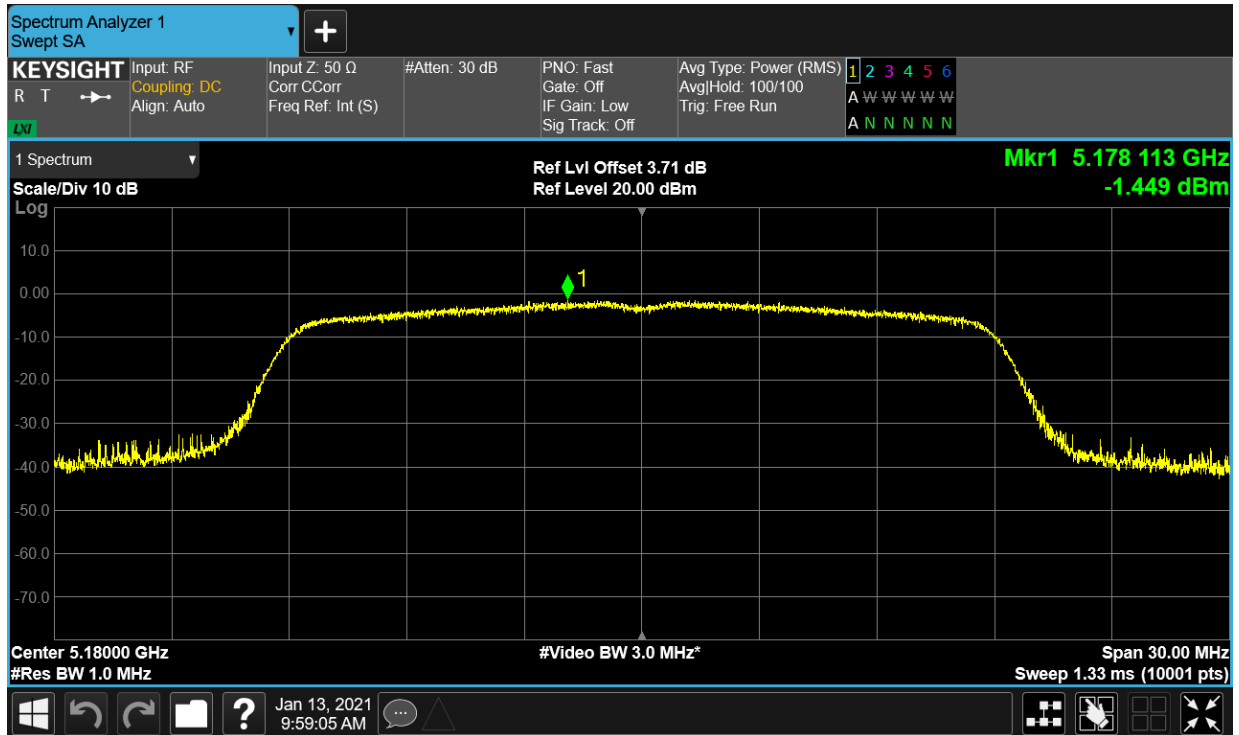
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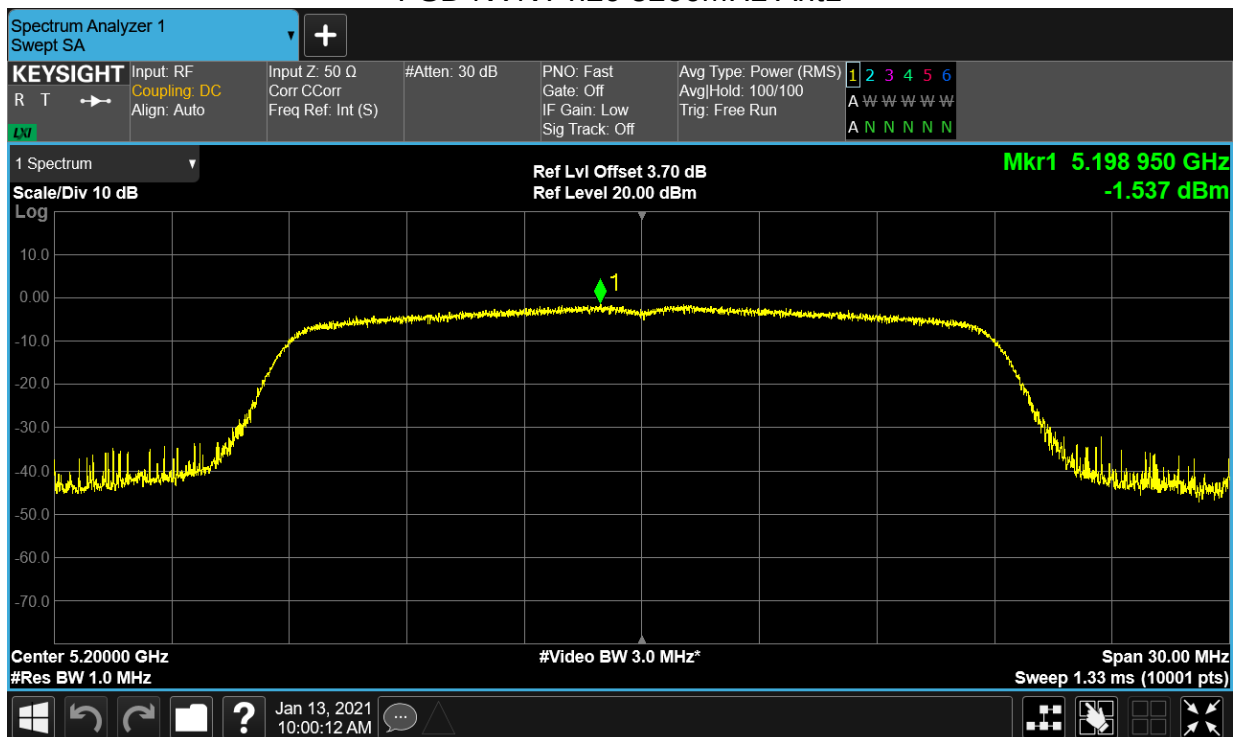
PSD NVNT ac80 5210MHz Ant1



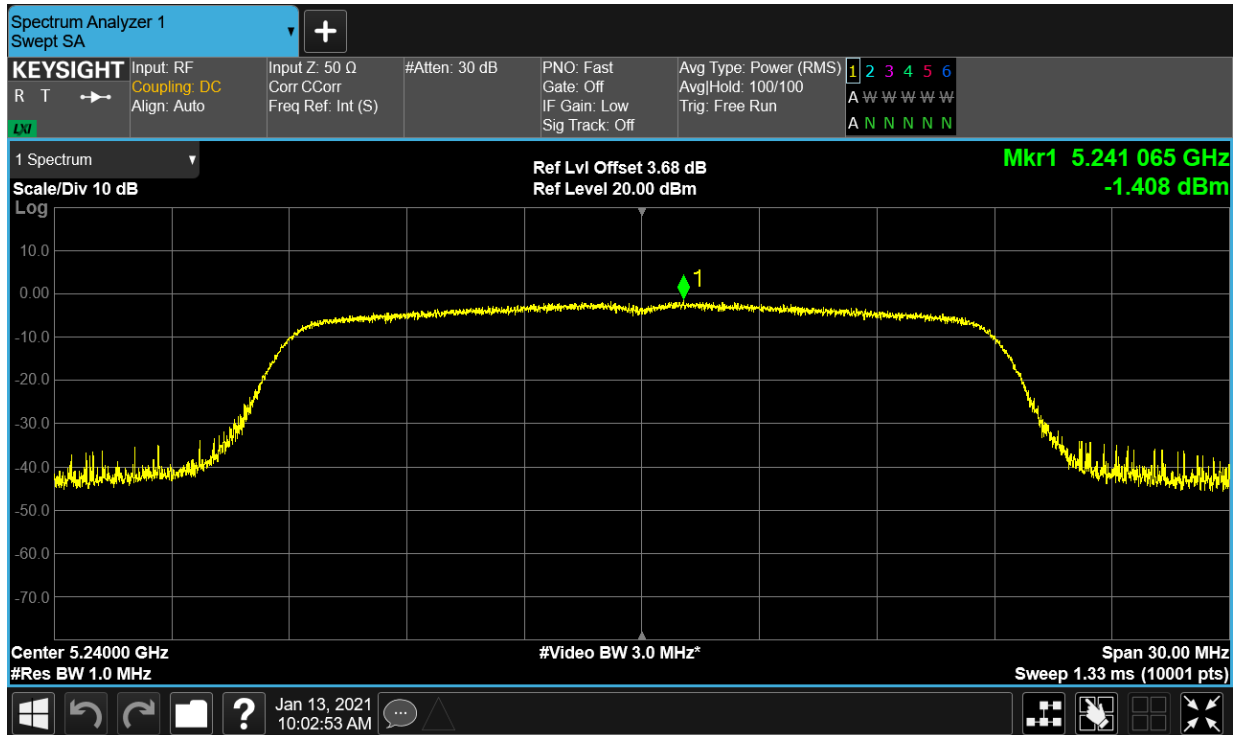
PSD NVNT n20 5180MHz Ant1



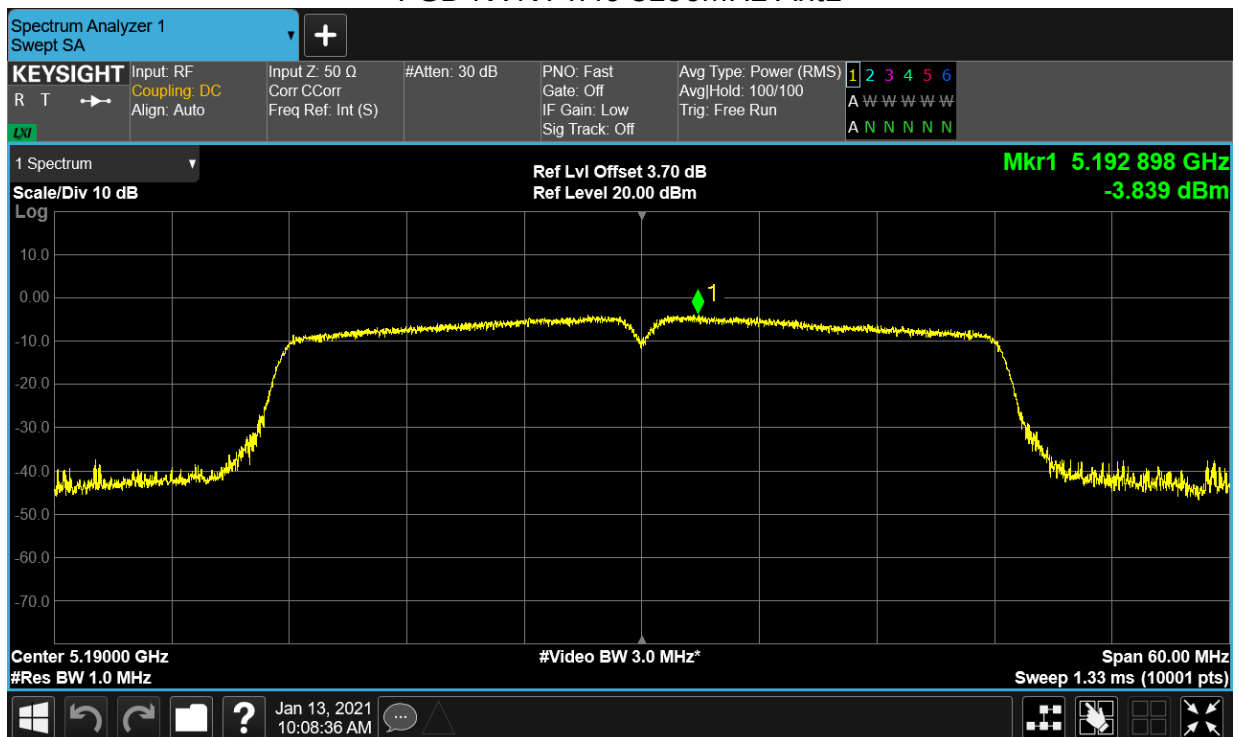
PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

