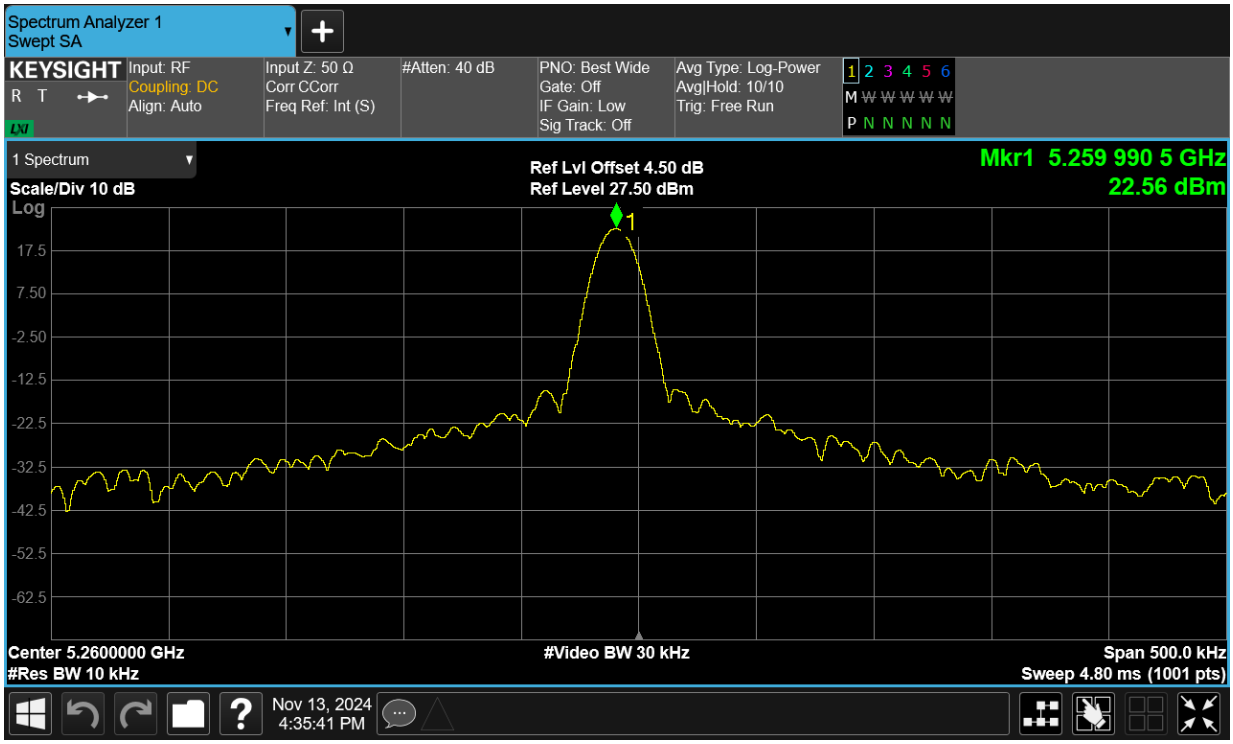
Test Data

Frequency Stability

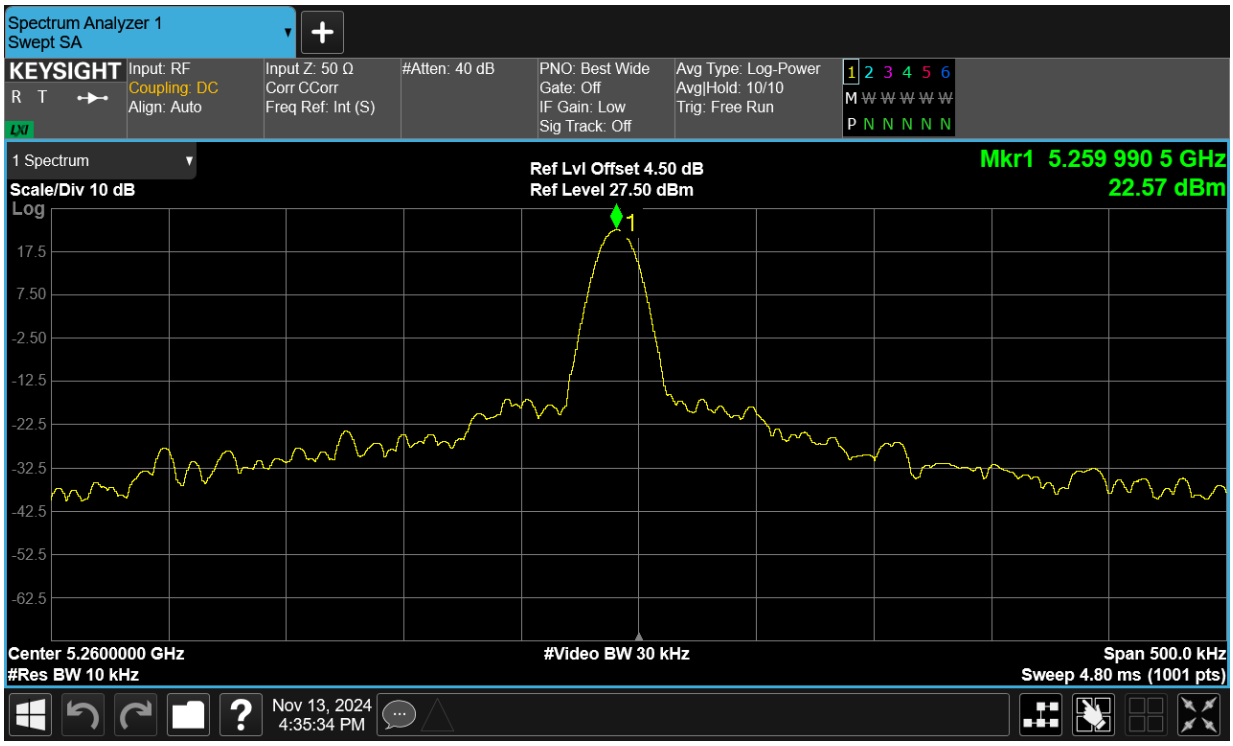
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant1	5259.9905	-1.81	Within authorized band	Pass
LVNT	a	5260	Ant1	5259.9905	-1.81		Pass
NVHT	a	5260	Ant1	5259.991	-1.71		Pass
NVLT	a	5260	Ant1	5259.9915	-1.62		Pass
NVNT	a	5260	Ant1	5259.9925	-1.43		Pass
HVNT	ac80	5290	Ant1	5289.9885	-2.17		Pass
LVNT	ac80	5290	Ant1	5289.989	-2.08		Pass
NVHT	ac80	5290	Ant1	5289.989	-2.08		Pass
NVLT	ac80	5290	Ant1	5289.989	-2.08		Pass
NVNT	ac80	5290	Ant1	5289.99	-1.89		Pass
HVNT	n40	5270	Ant1	5269.9885	-2.18		Pass
LVNT	n40	5270	Ant1	5269.989	-2.09		Pass
NVHT	n40	5270	Ant1	5269.9895	-1.99		Pass
NVLT	n40	5270	Ant1	5269.99	-1.9		Pass
NVNT	n40	5270	Ant1	5269.9905	-1.8		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

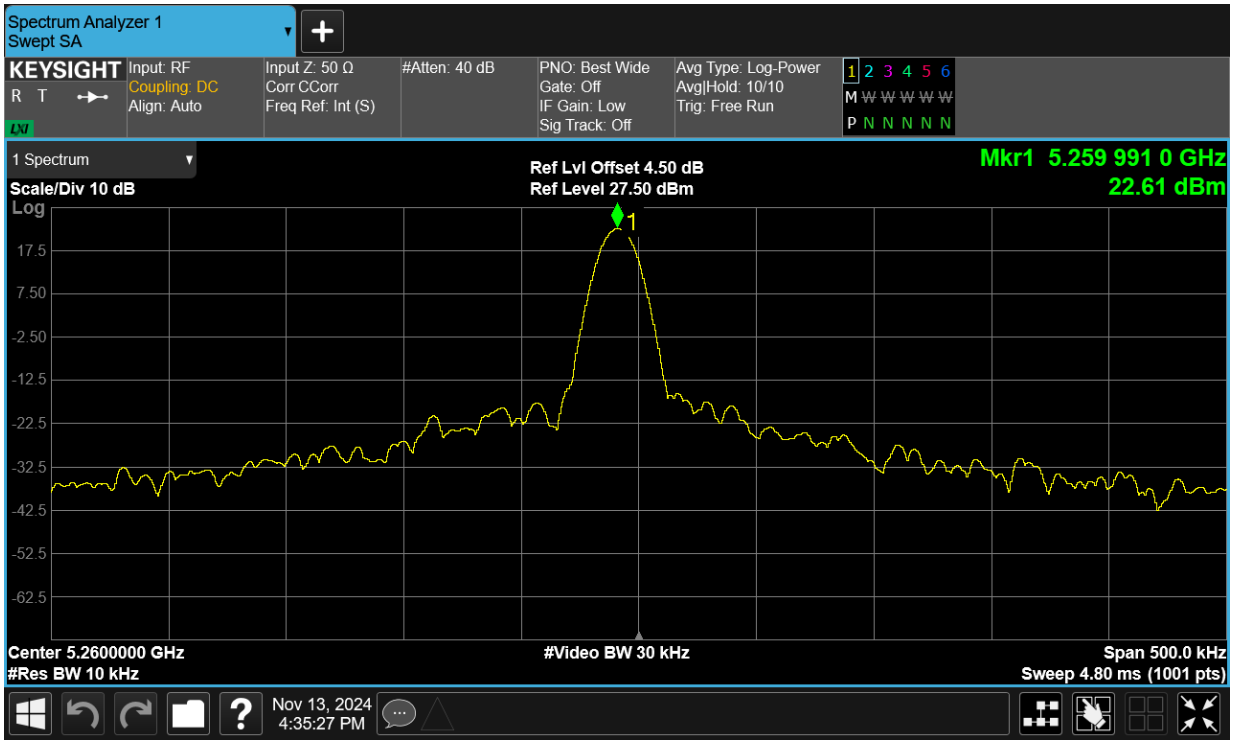
Freq. Stability HVNT a 5260MHz Ant1



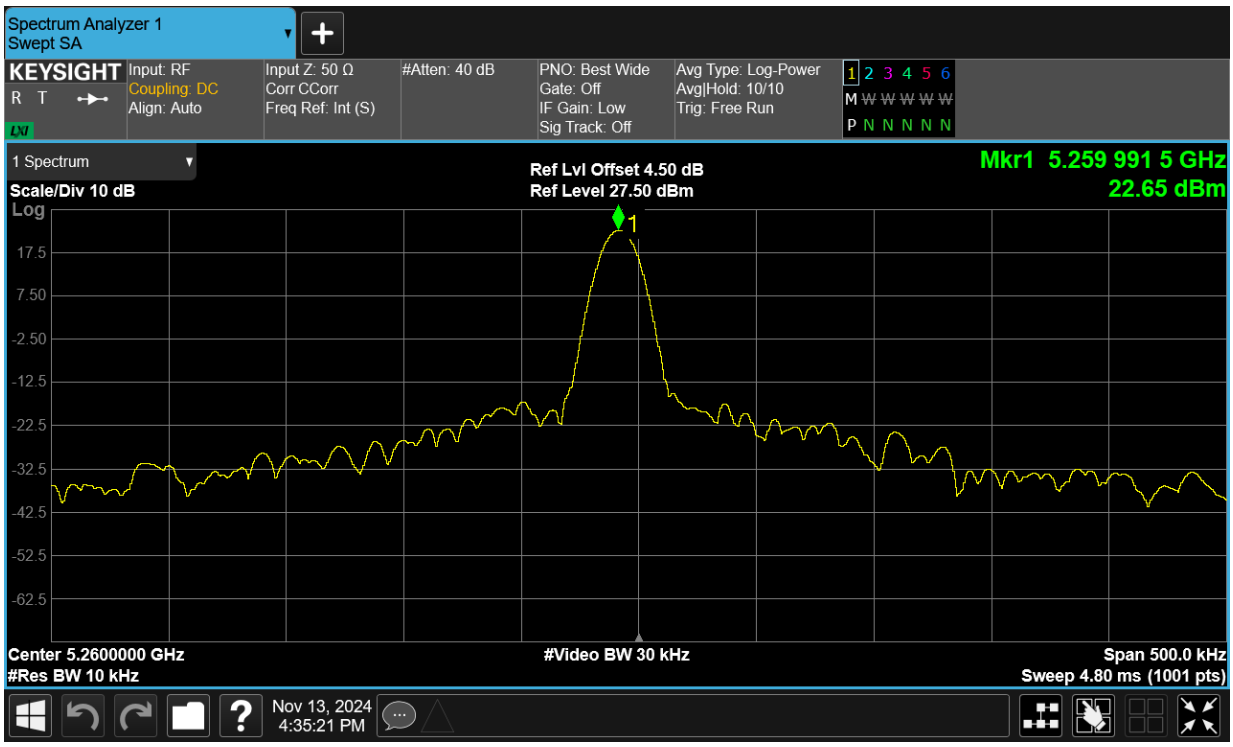
Freq. Stability LVNT a 5260MHz Ant1



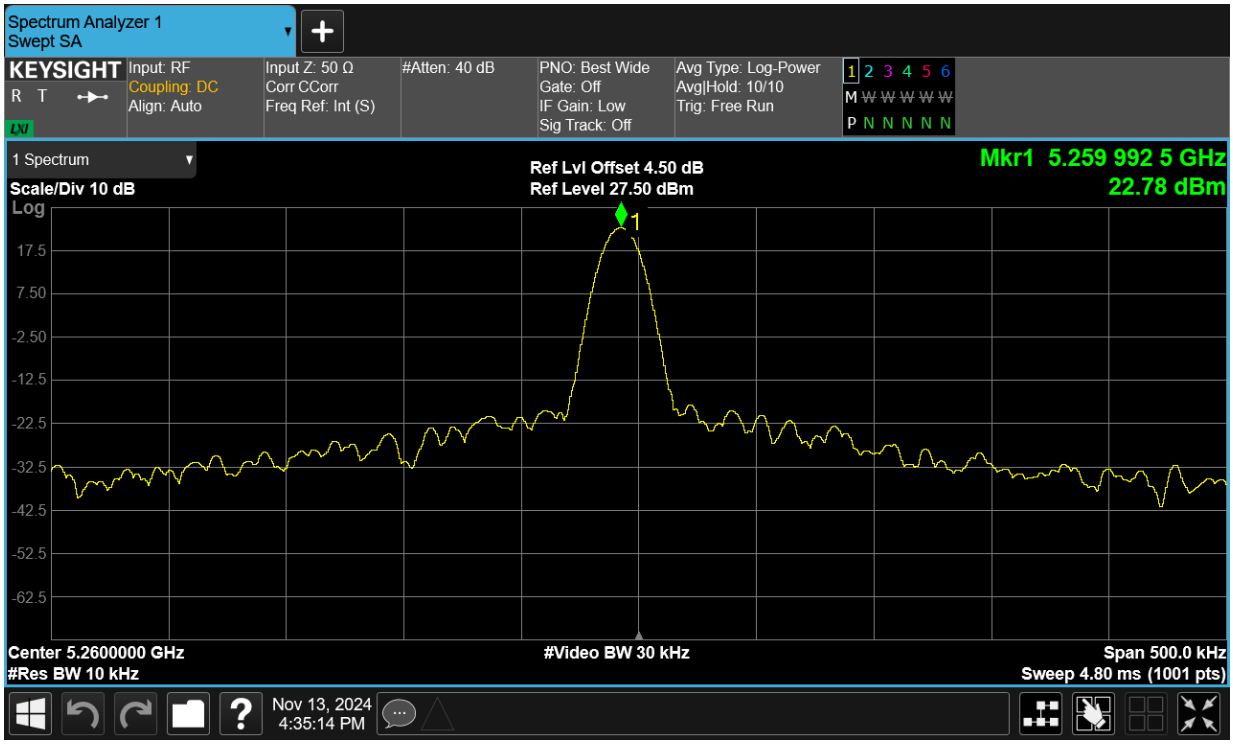
Freq. Stability NVHT a 5260MHz Ant1



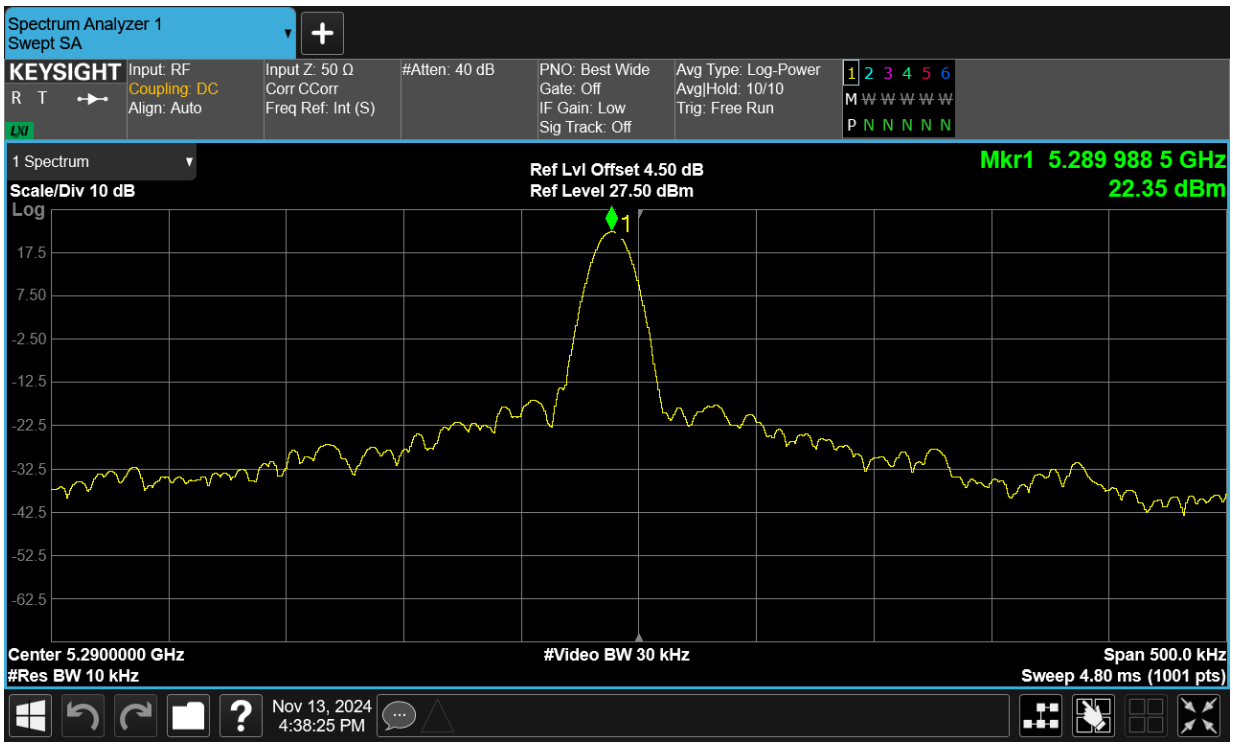
Freq. Stability NVLT a 5260MHz Ant1



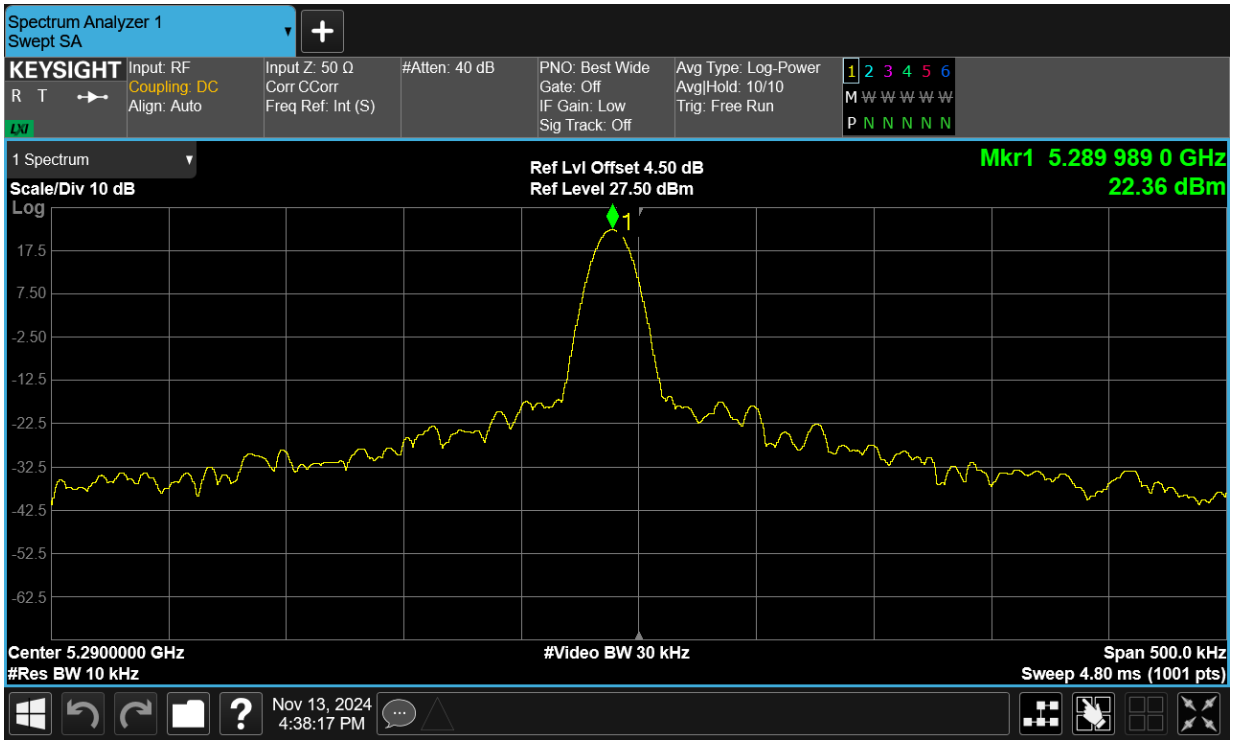
Freq. Stability NVNT a 5260MHz Ant1



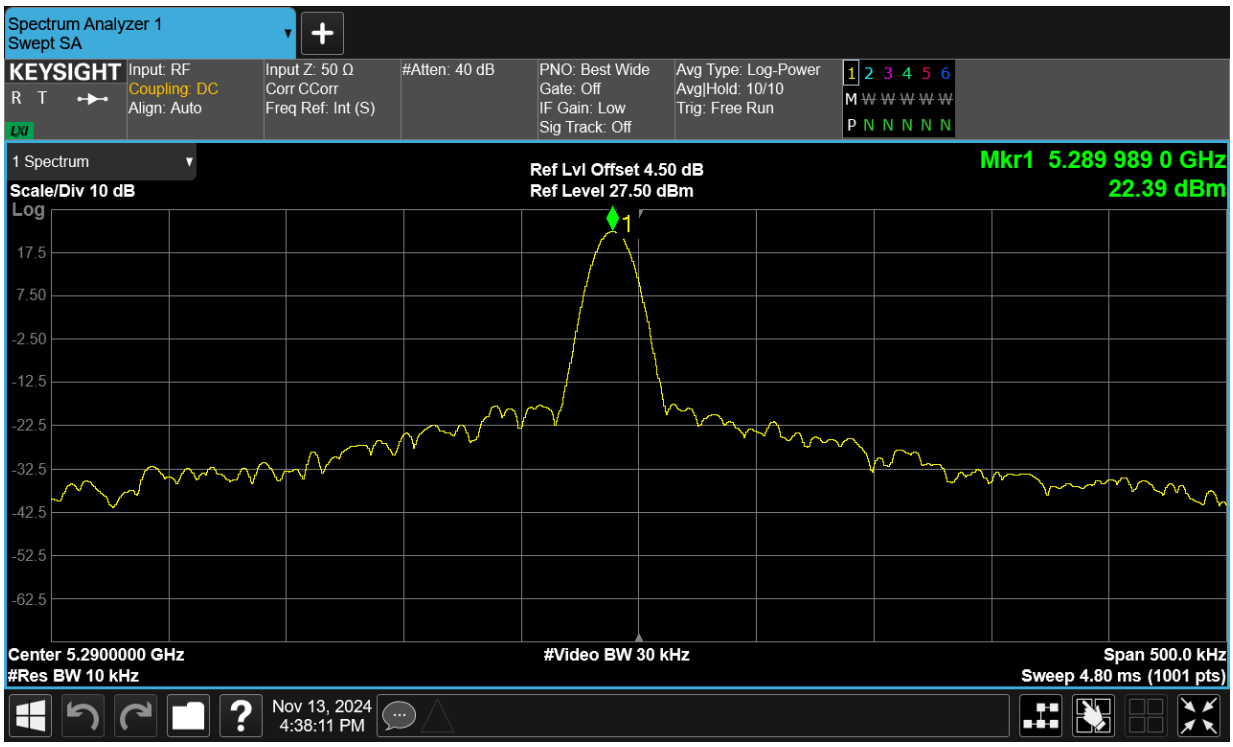
Freq. Stability HVNT ac80 5290MHz Ant1



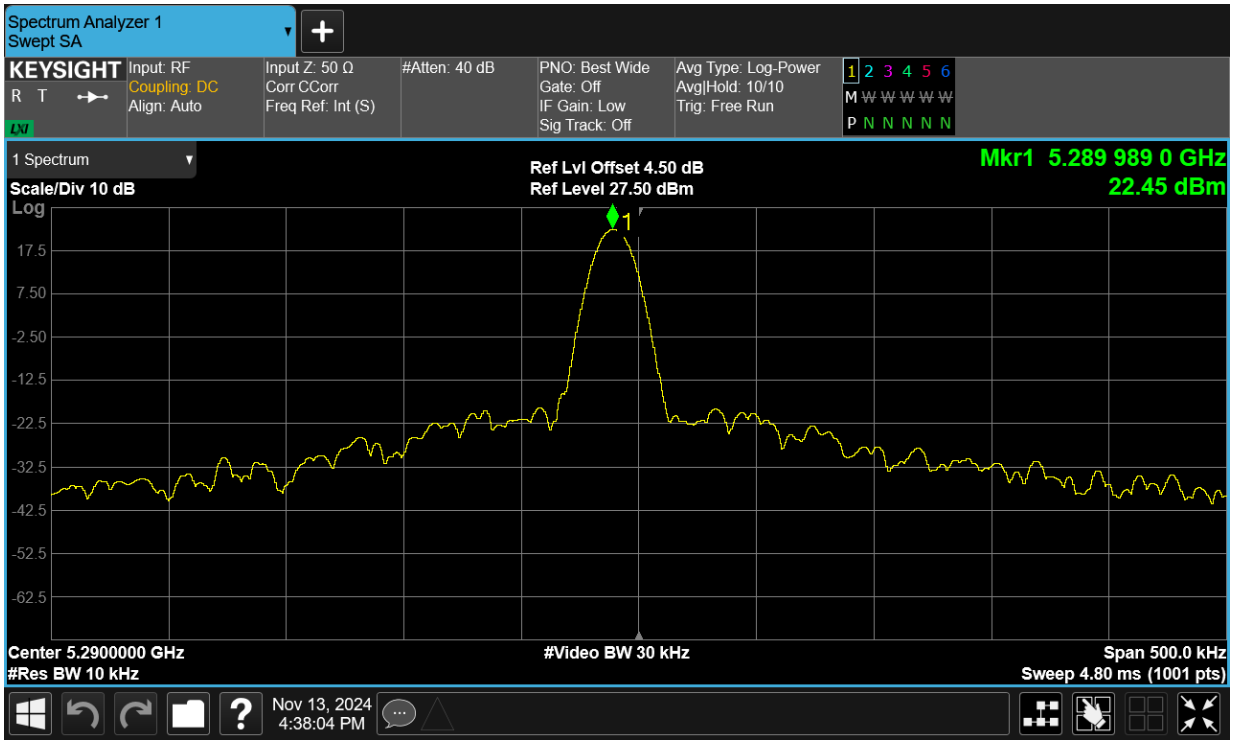
Freq. Stability LVNT ac80 5290MHz Ant1



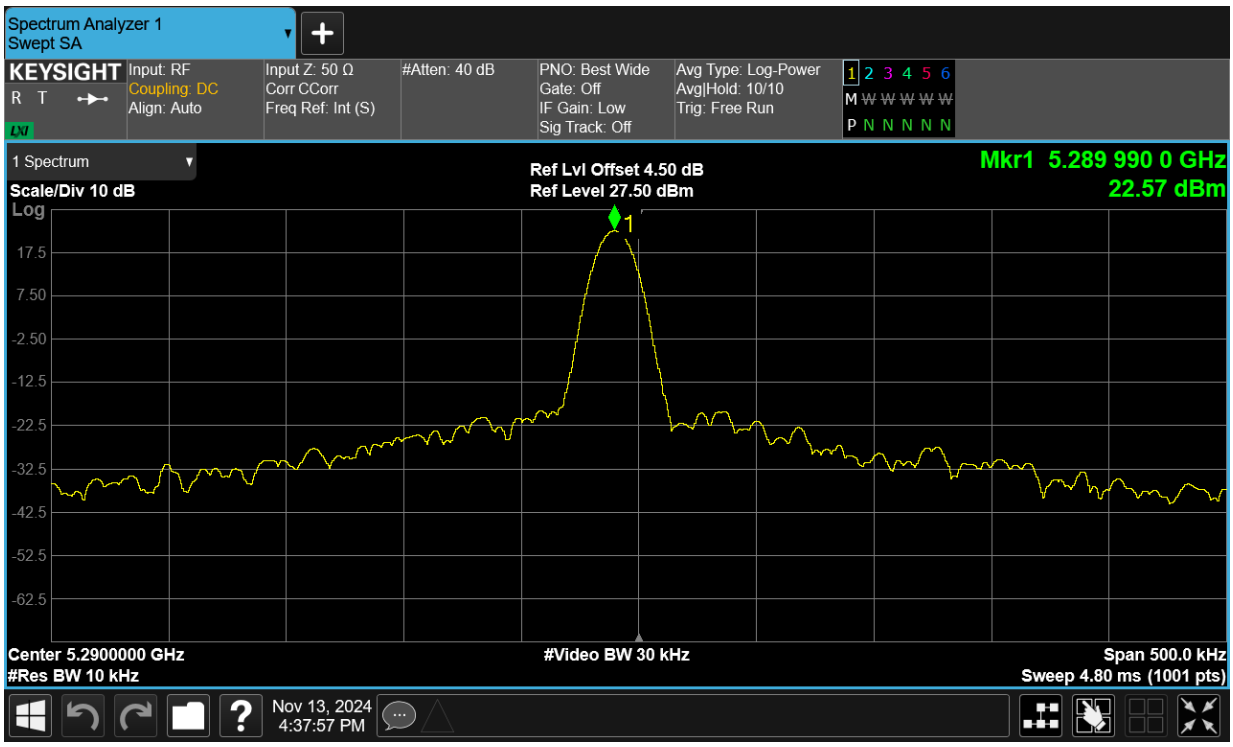
Freq. Stability NVHT ac80 5290MHz Ant1



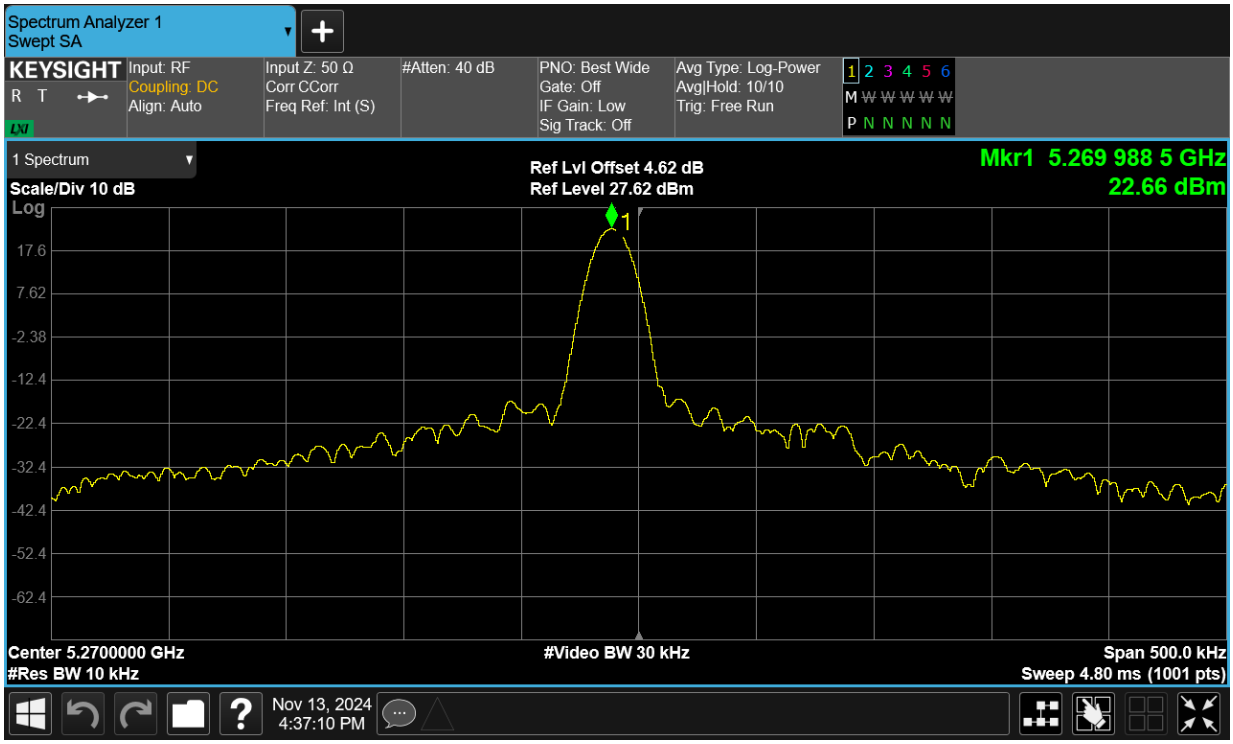
Freq. Stability NVLT ac80 5290MHz Ant1



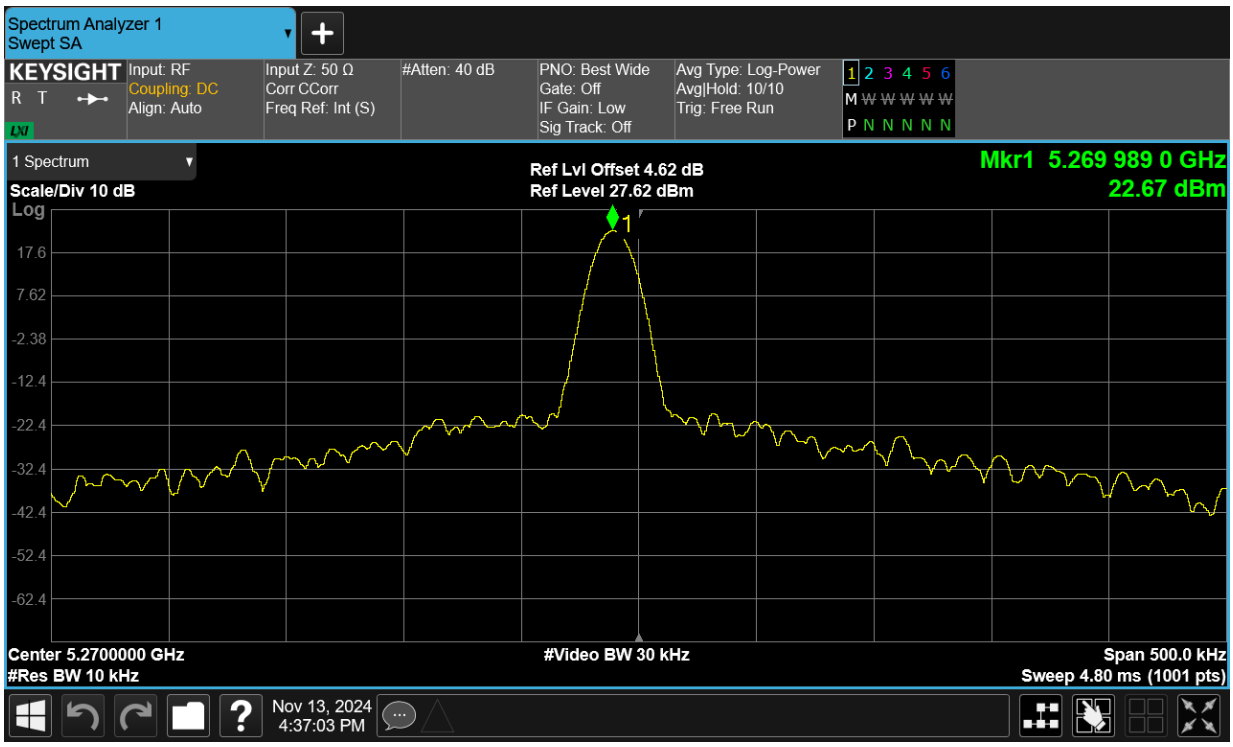
Freq. Stability NVNT ac80 5290MHz Ant1



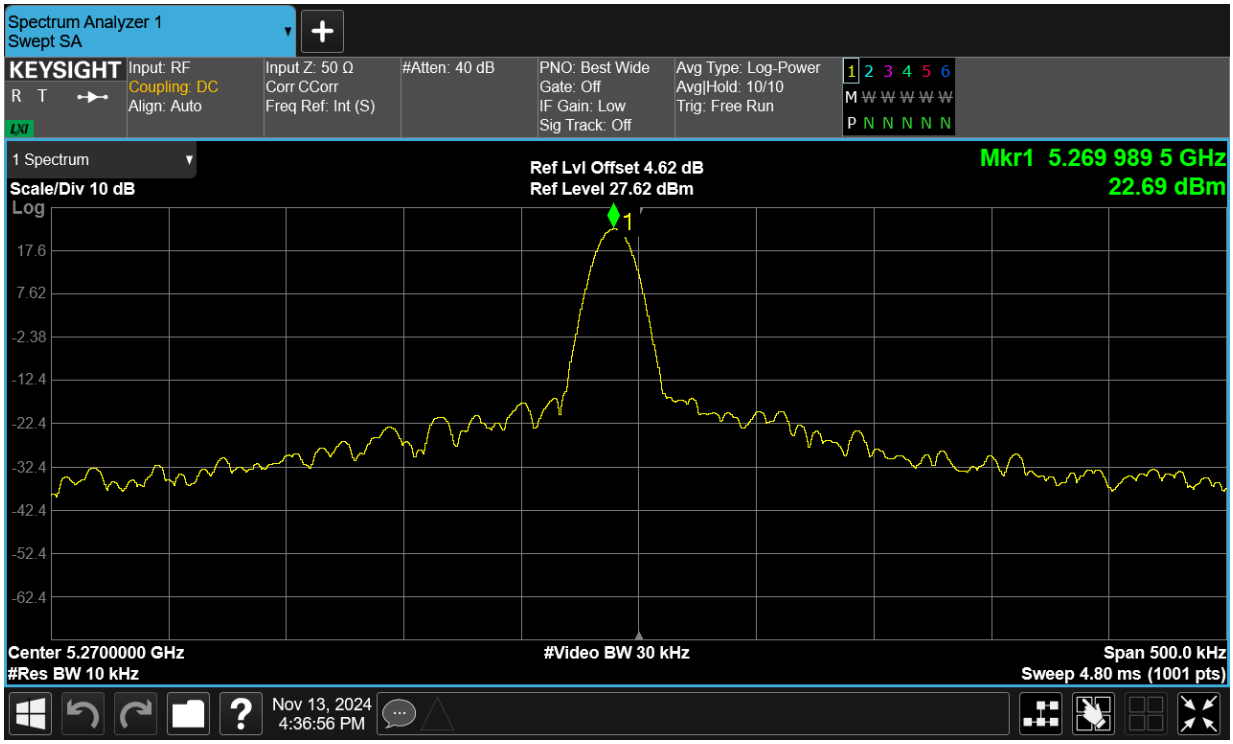
Freq. Stability HVNT n40 5270MHz Ant1



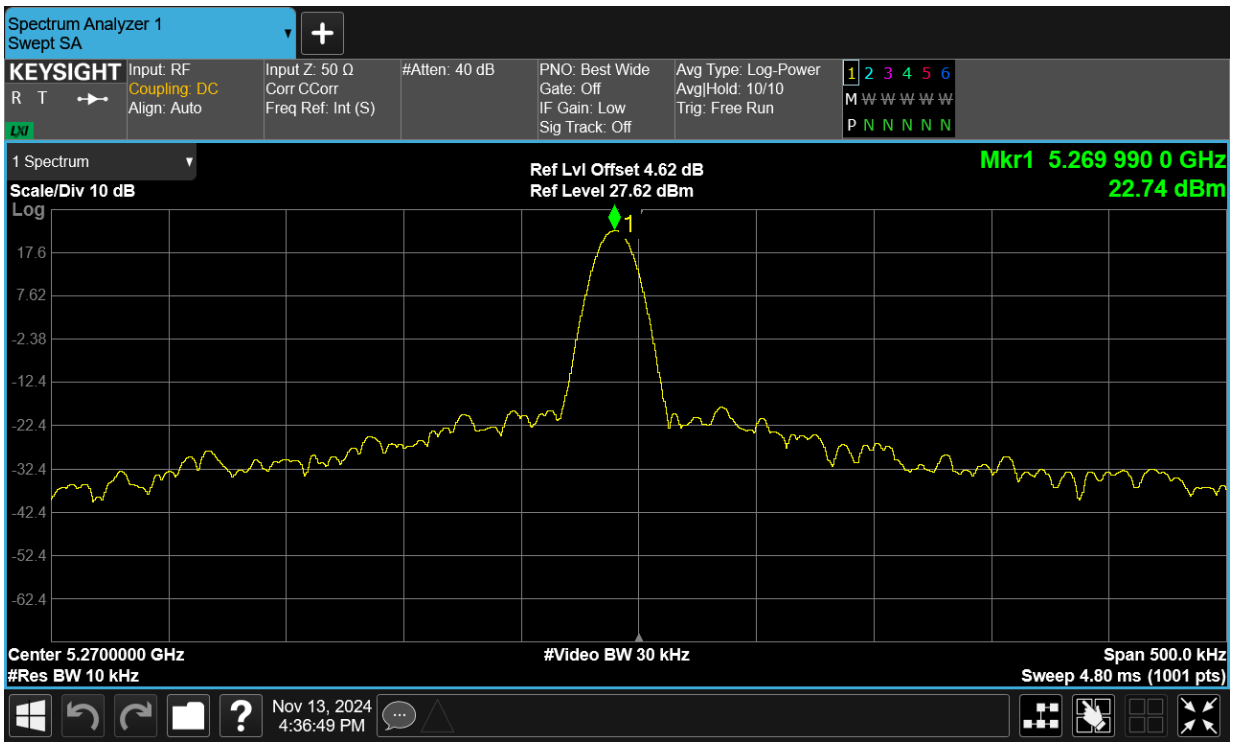
Freq. Stability LVNT n40 5270MHz Ant1



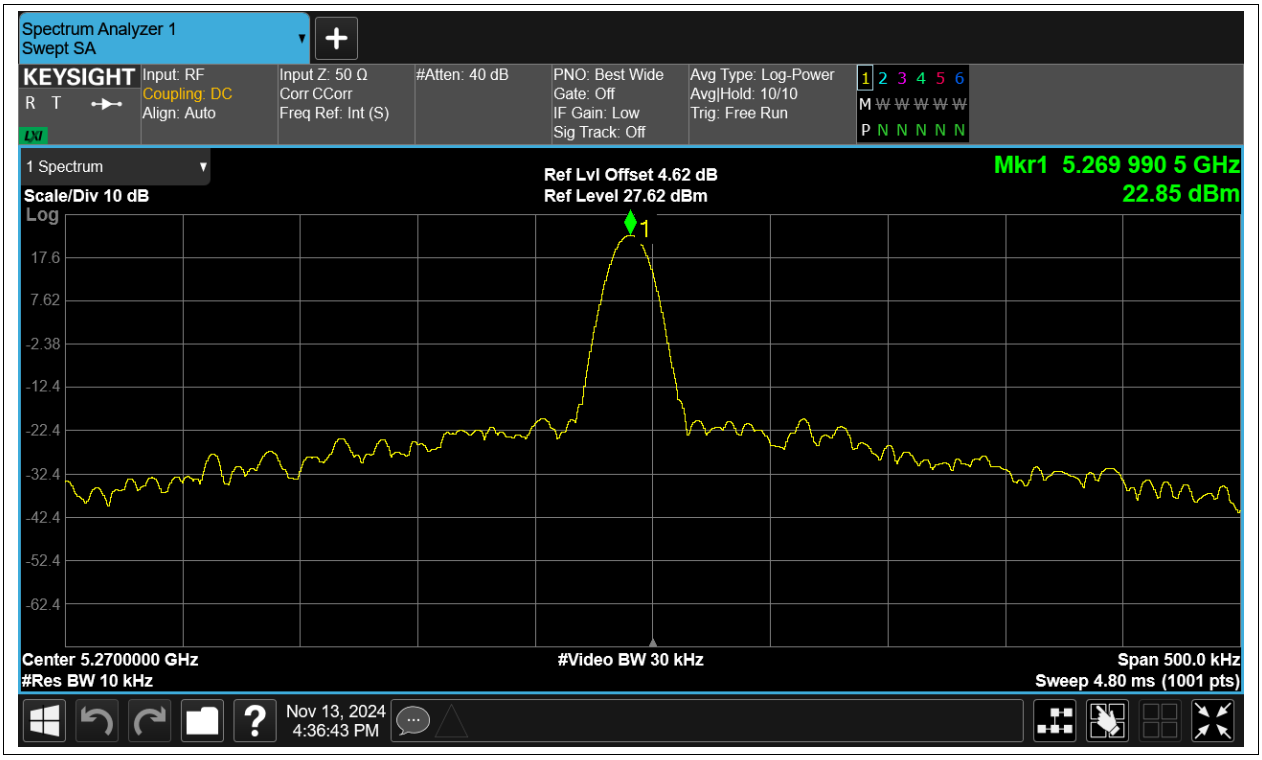
Freq. Stability NVHT n40 5270MHz Ant1



Freq. Stability NVLT n40 5270MHz Ant1



Freq. Stability NVNT n40 5270MHz Ant1

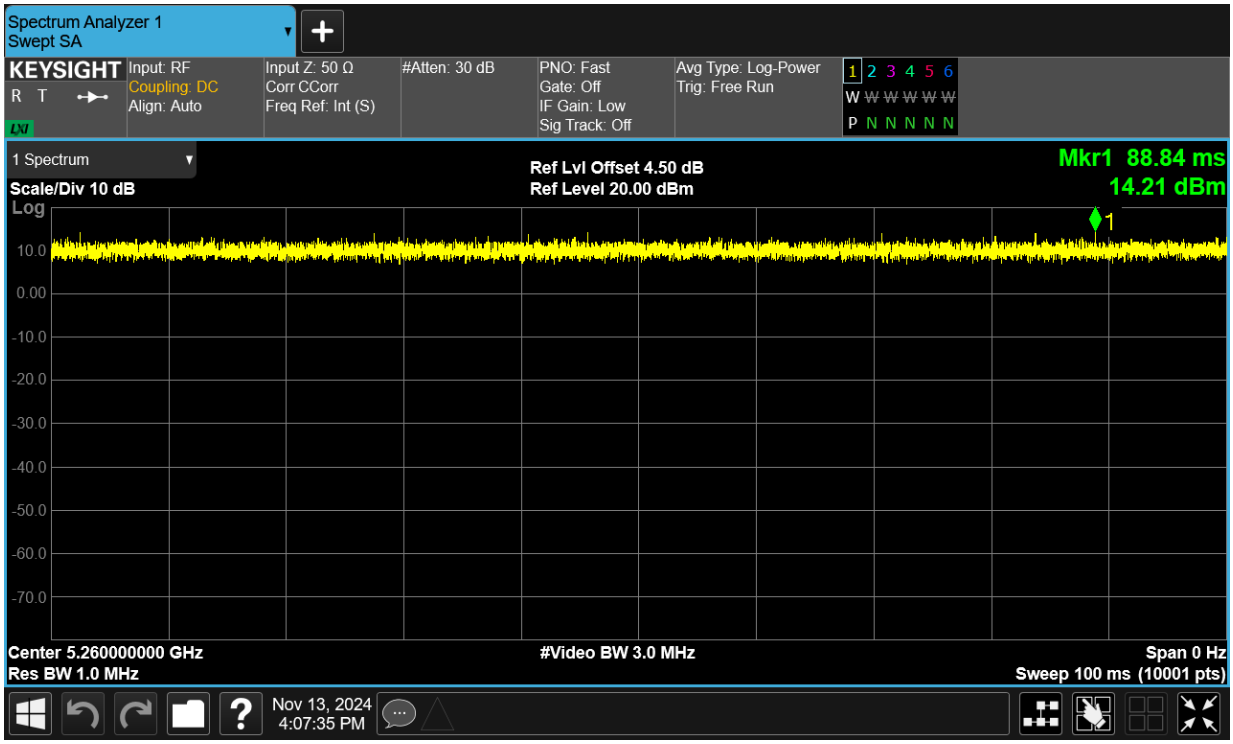

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 4.62 dB
Ref Level 27.62 dBm
Mkr1 5.269 990 5 GHz
22.85 dBm
17.6
7.62
-2.38
-12.4
-22.4
-32.4
-42.4
-52.4
-62.4
Center 5.2700000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Nov 13, 2024
4:36:43 PM

Duty Cycle

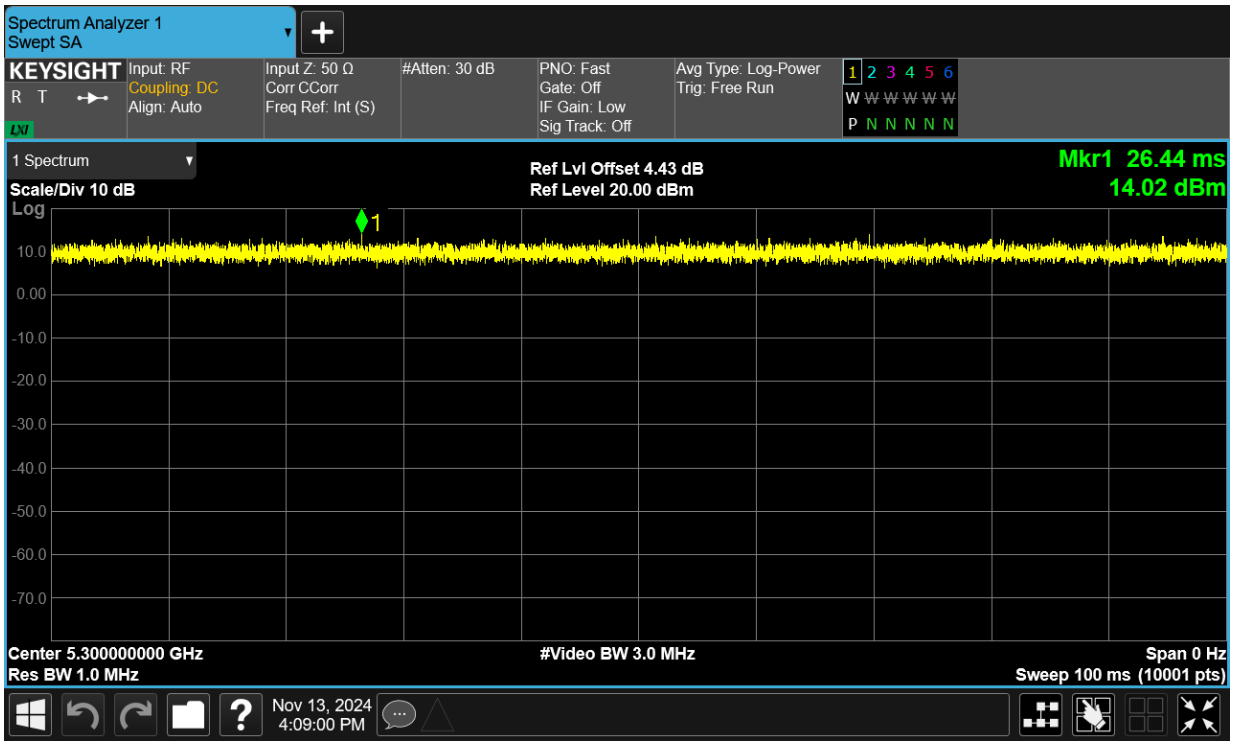
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	100	0
NVNT	a	5300	Ant1	100	0
NVNT	a	5320	Ant1	100	0
NVNT	ac20	5260	Ant1	100	0
NVNT	ac20	5300	Ant1	100	0
NVNT	ac20	5320	Ant1	100	0
NVNT	ac40	5270	Ant1	100	0
NVNT	ac40	5310	Ant1	100	0
NVNT	ac80	5290	Ant1	100	0
NVNT	n20	5260	Ant1	100	0
NVNT	n20	5300	Ant1	100	0
NVNT	n20	5320	Ant1	100	0
NVNT	n40	5270	Ant1	100	0
NVNT	n40	5310	Ant1	100	0

Test Graphs

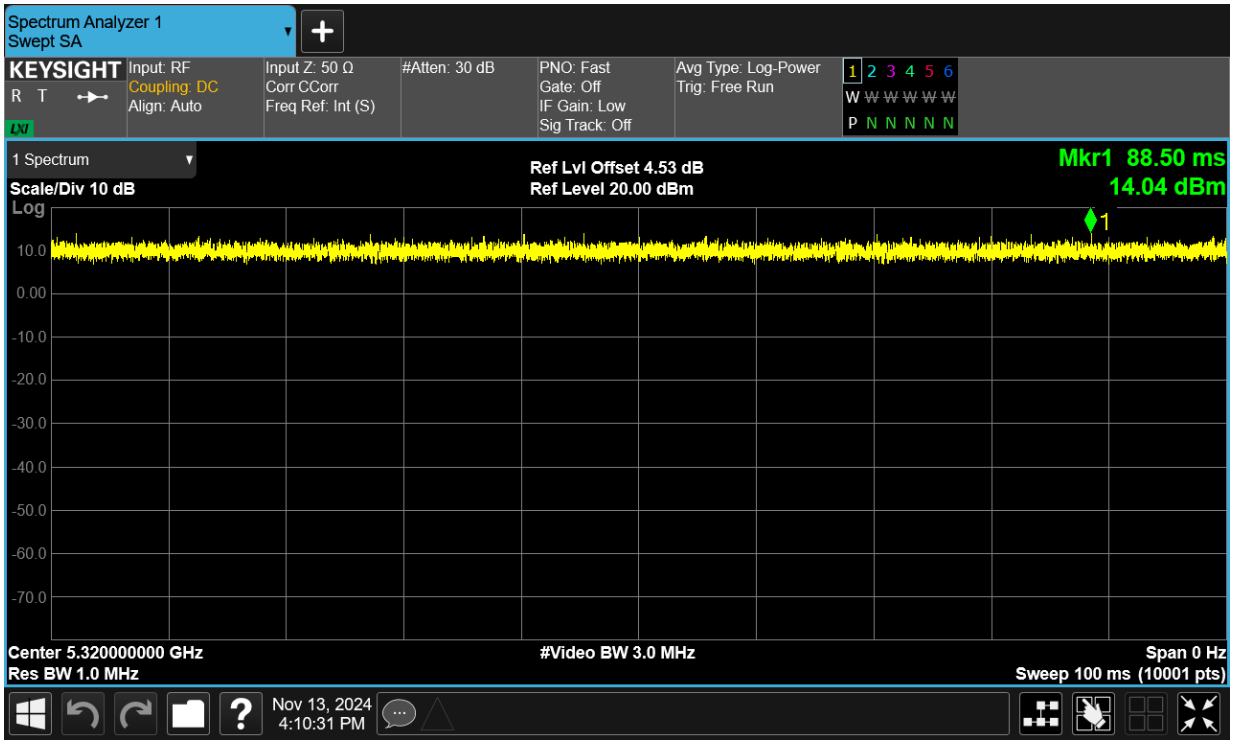
Duty Cycle NVNT a 5260MHz Ant1



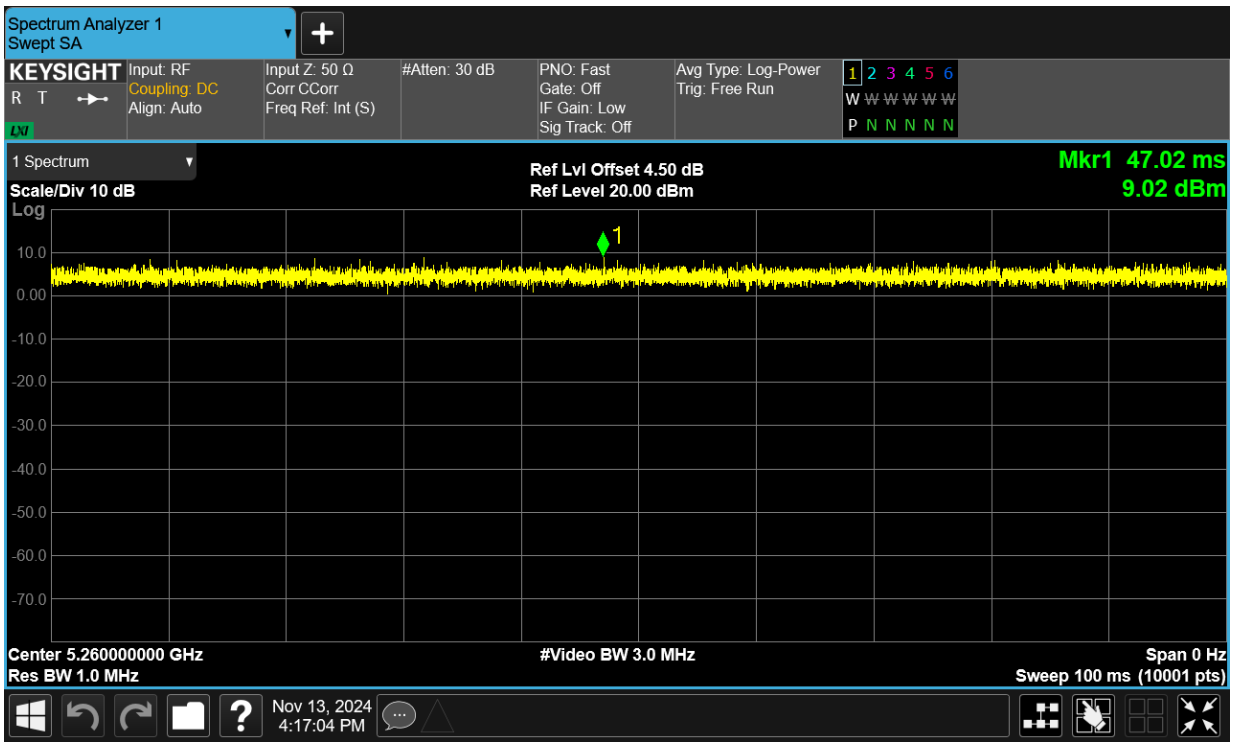
Duty Cycle NVNT a 5300MHz Ant1



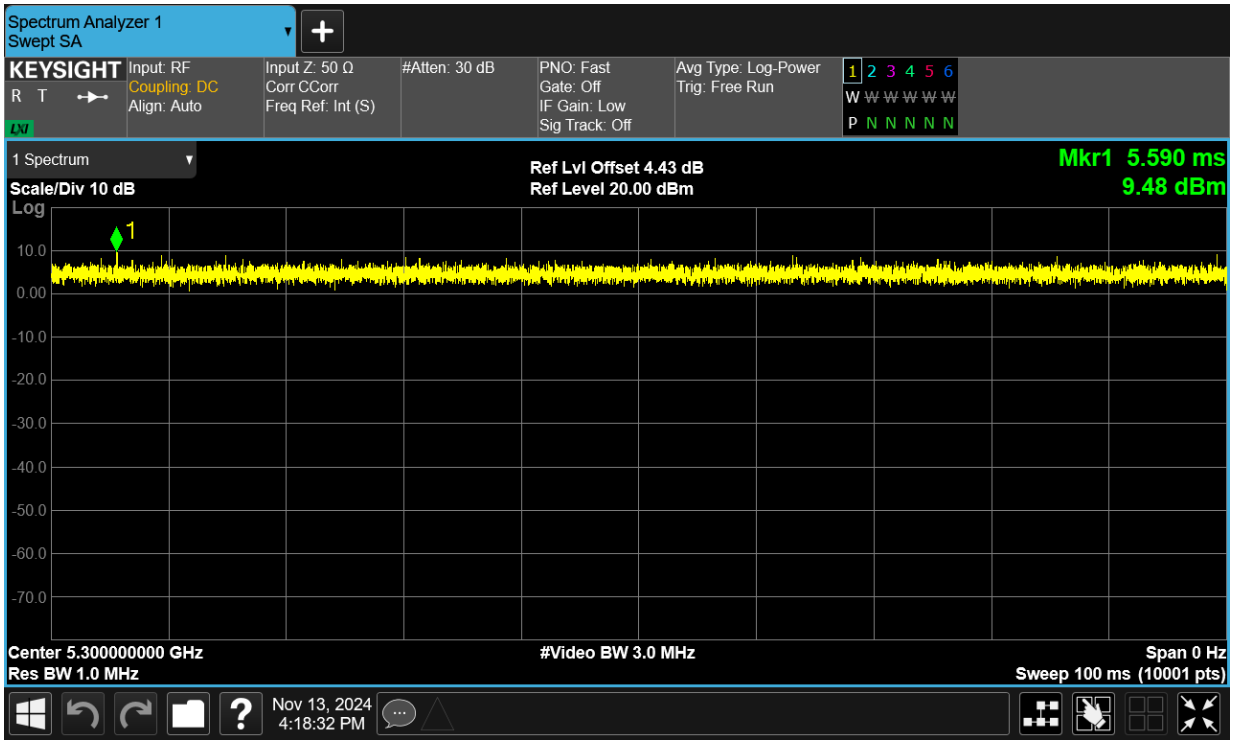
Duty Cycle NVNT a 5320MHz Ant1



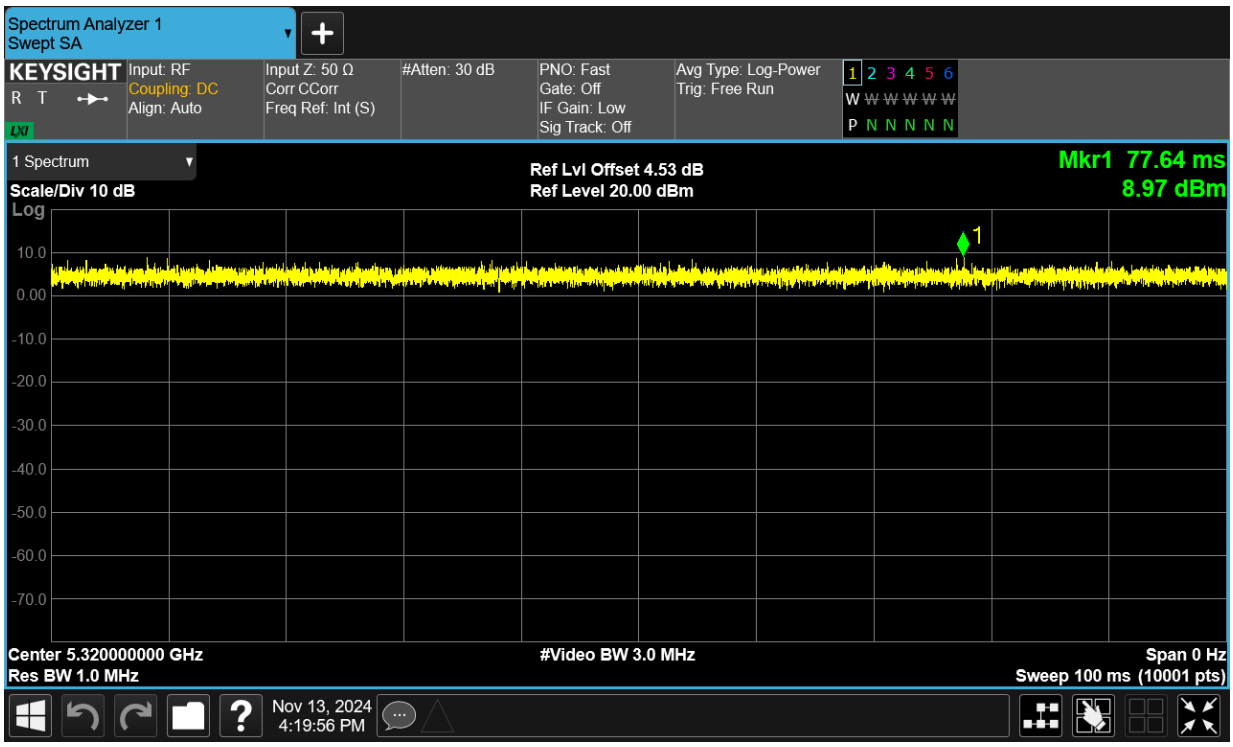
Duty Cycle NVNT ac20 5260MHz Ant1



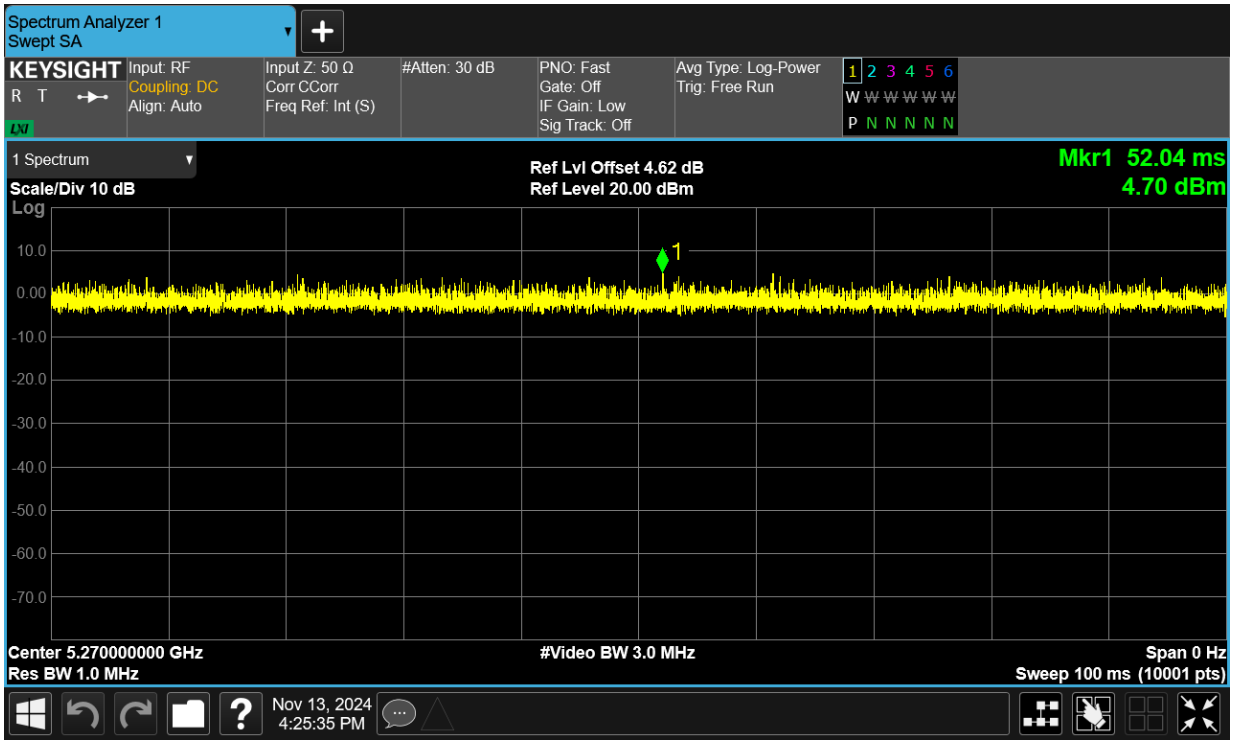
Duty Cycle NVNT ac20 5300MHz Ant1



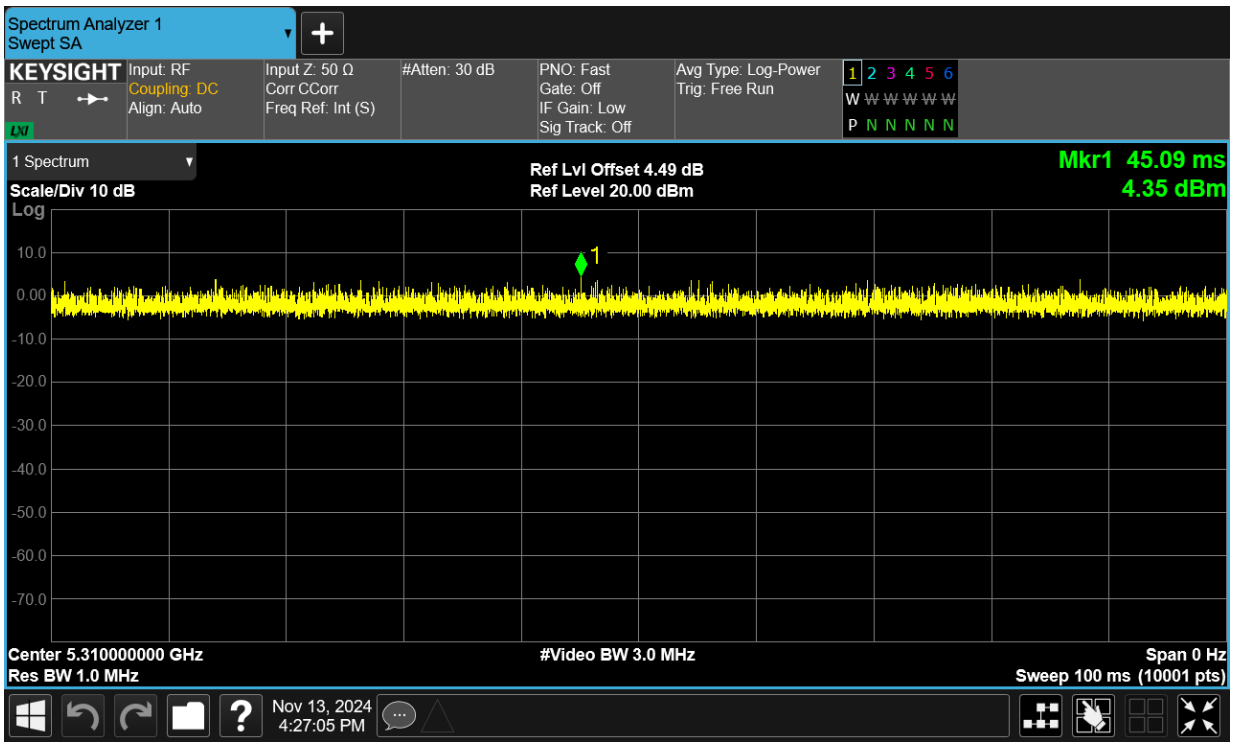
Duty Cycle NVNT ac20 5320MHz Ant1



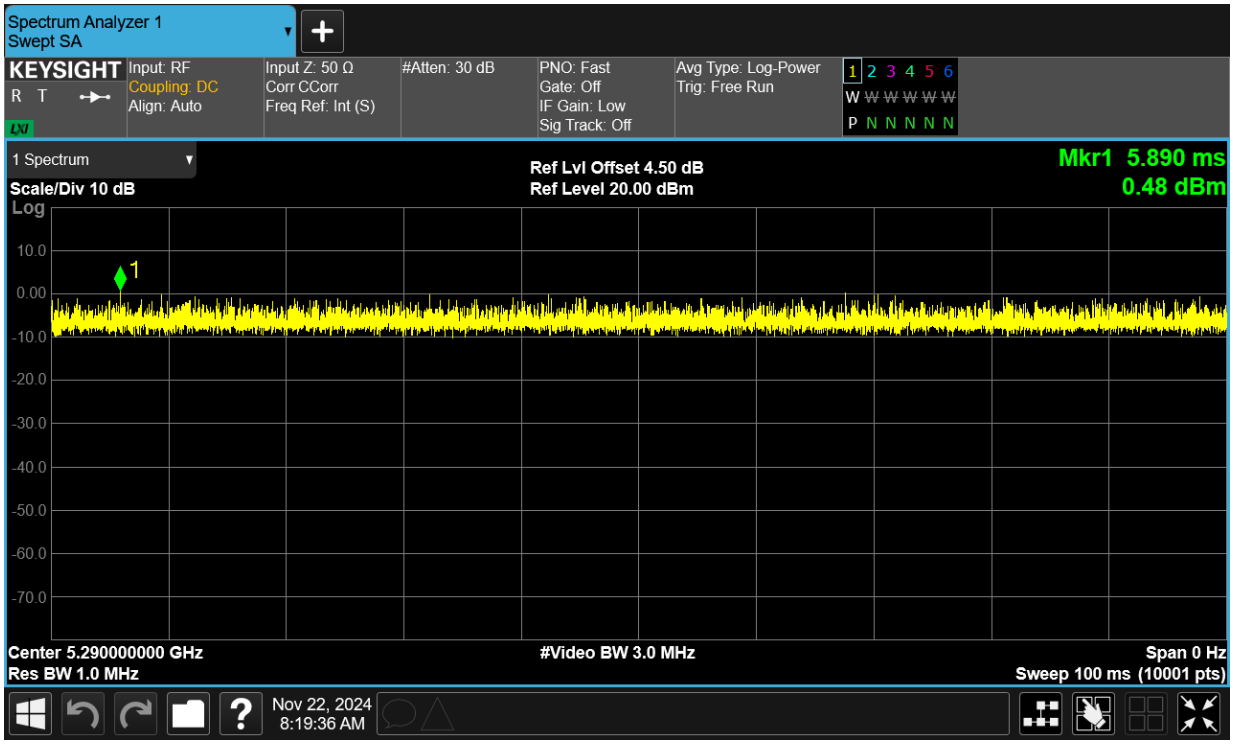
Duty Cycle NVNT ac40 5270MHz Ant1



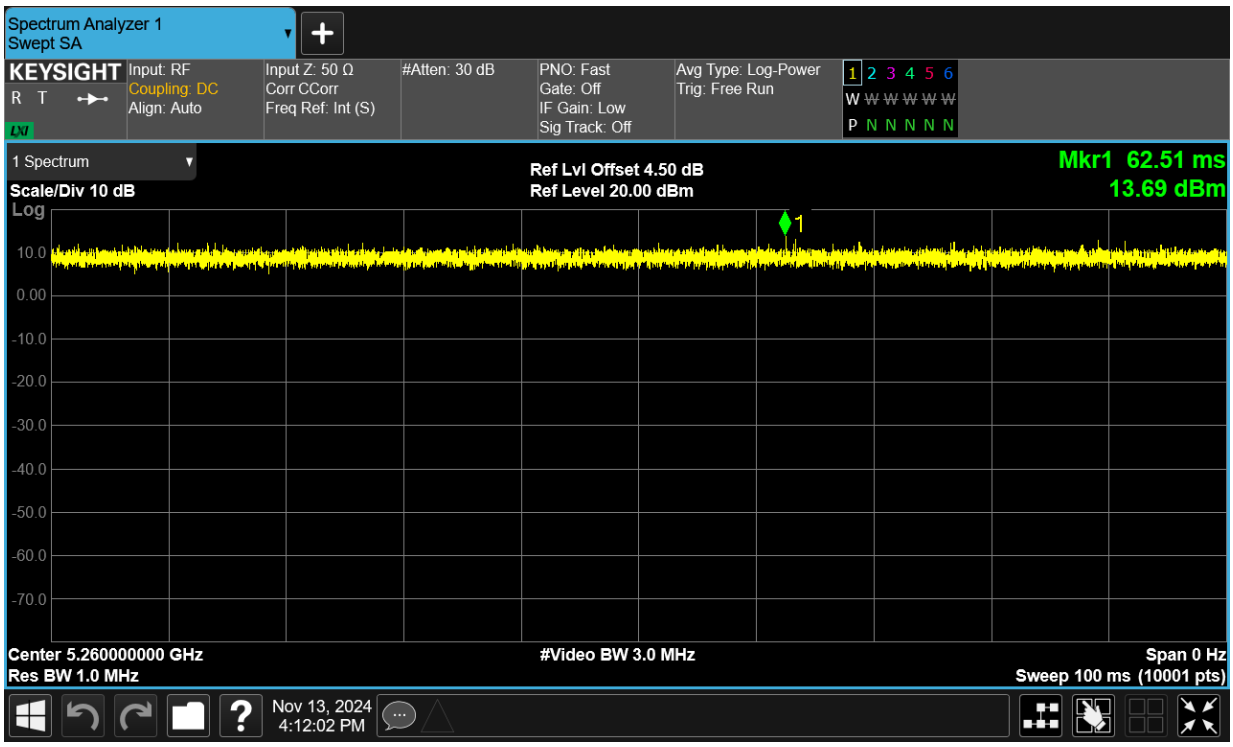
Duty Cycle NVNT ac40 5310MHz Ant1



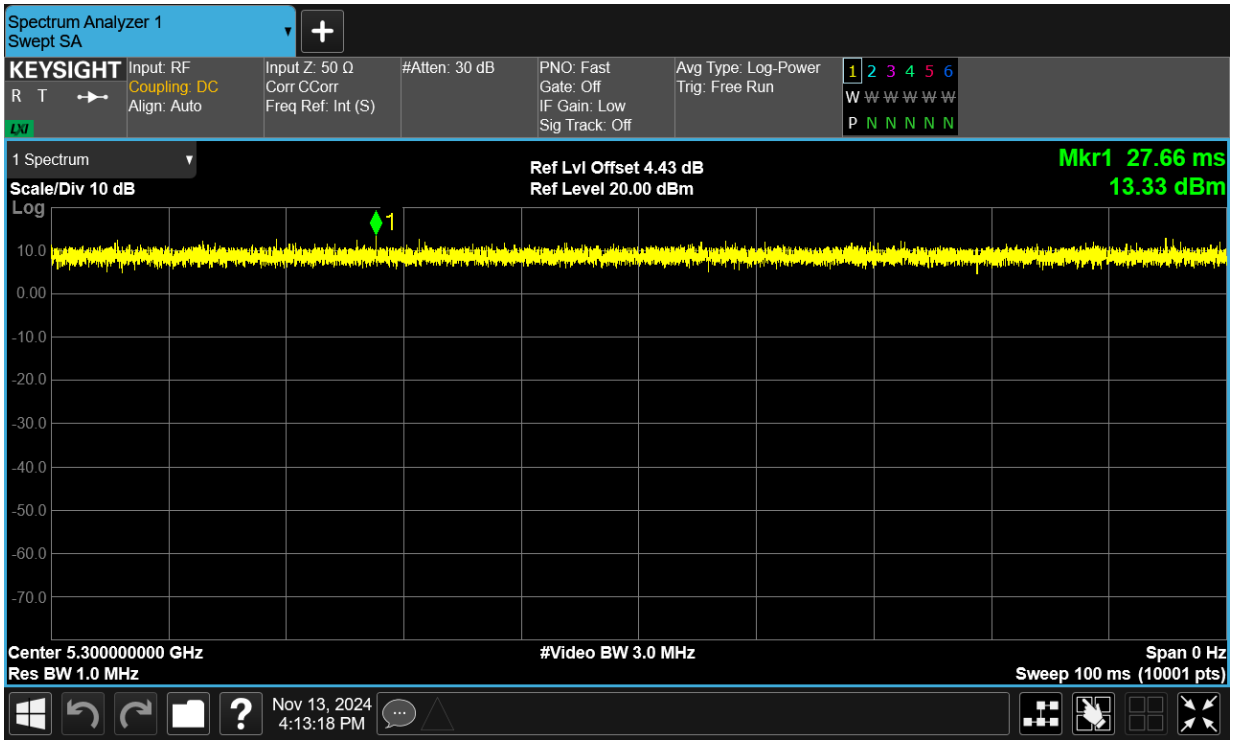
Duty Cycle NVNT ac80 5290MHz Ant1



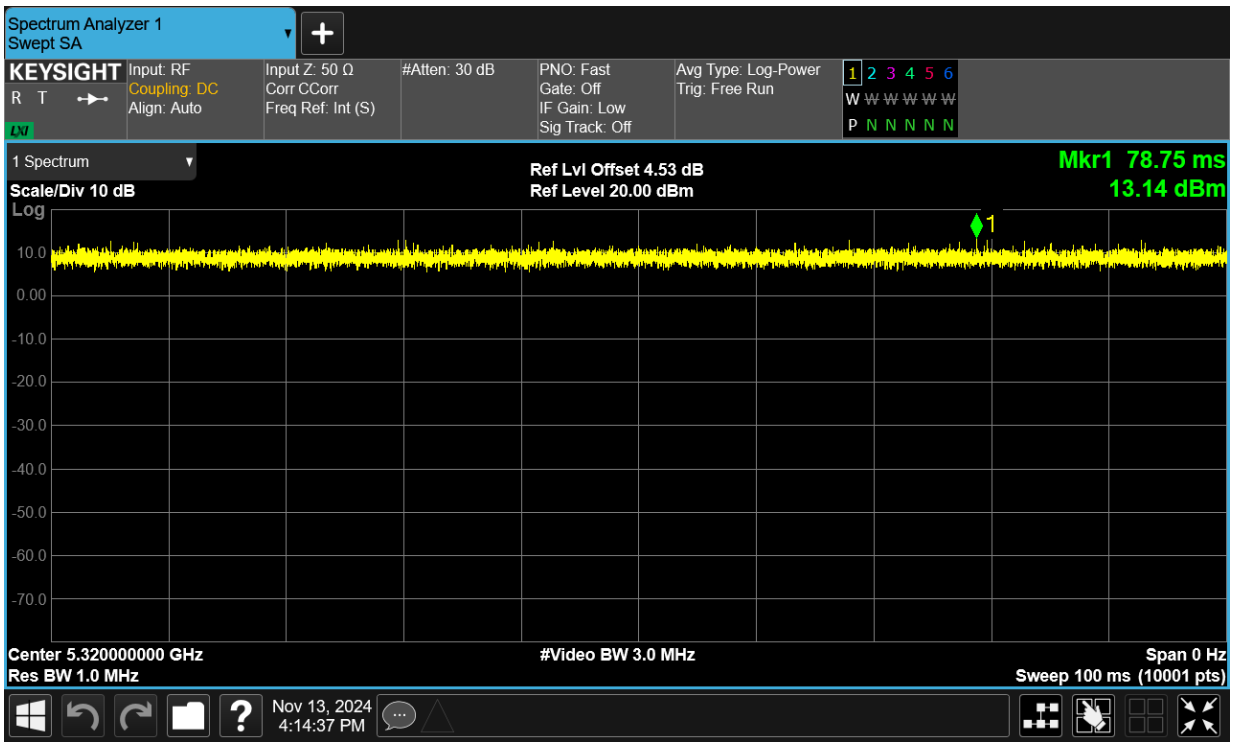
Duty Cycle NVNT n20 5260MHz Ant1



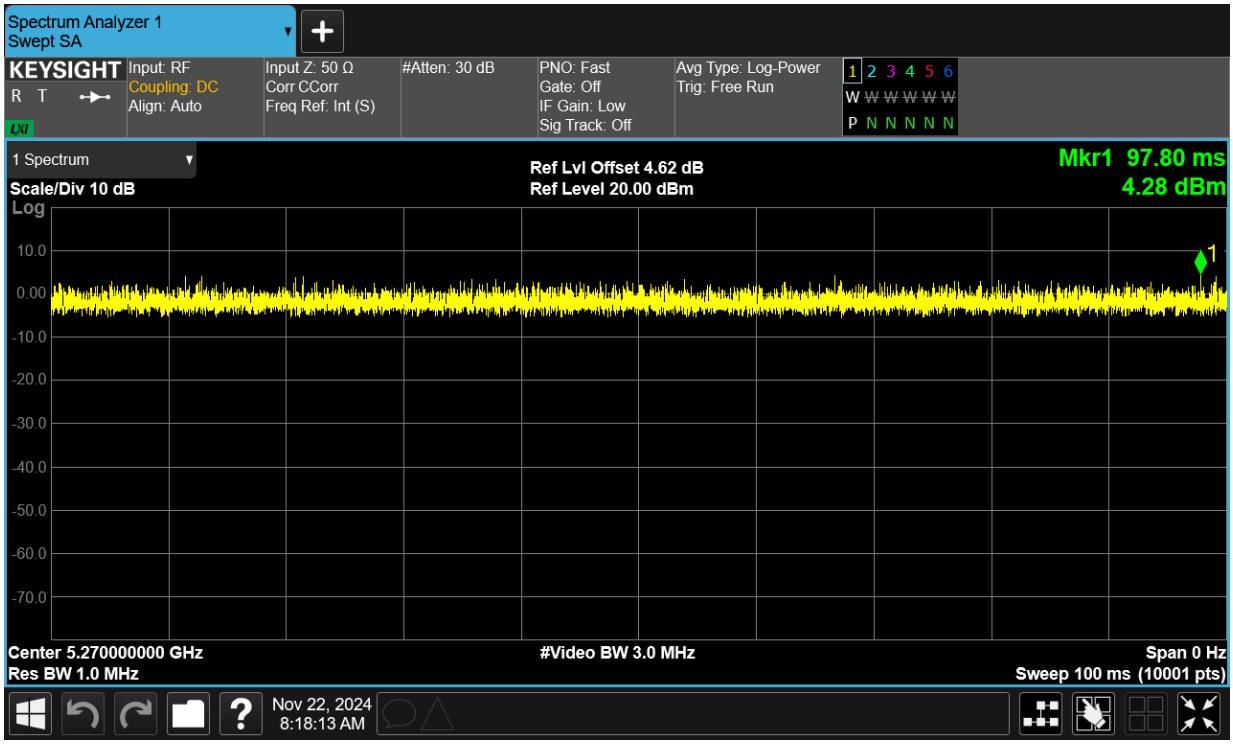
Duty Cycle NVNT n20 5300MHz Ant1



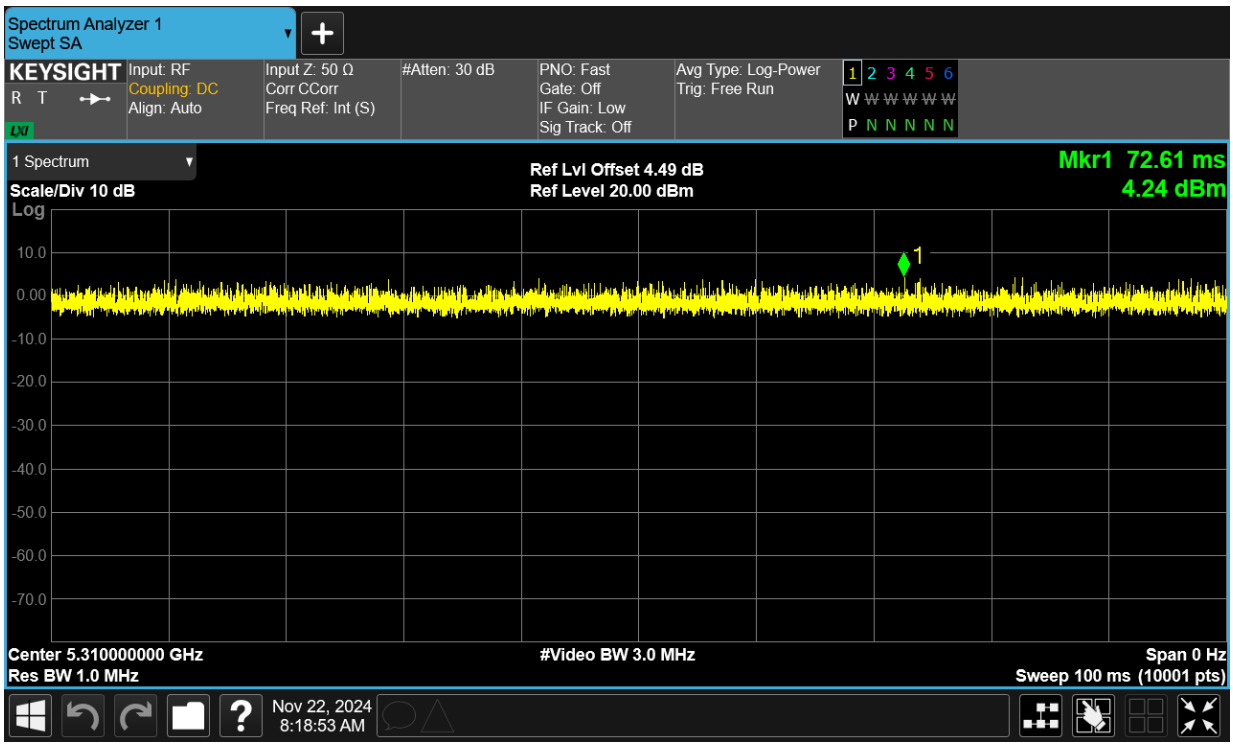
Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



Maximum Conducted Output Power

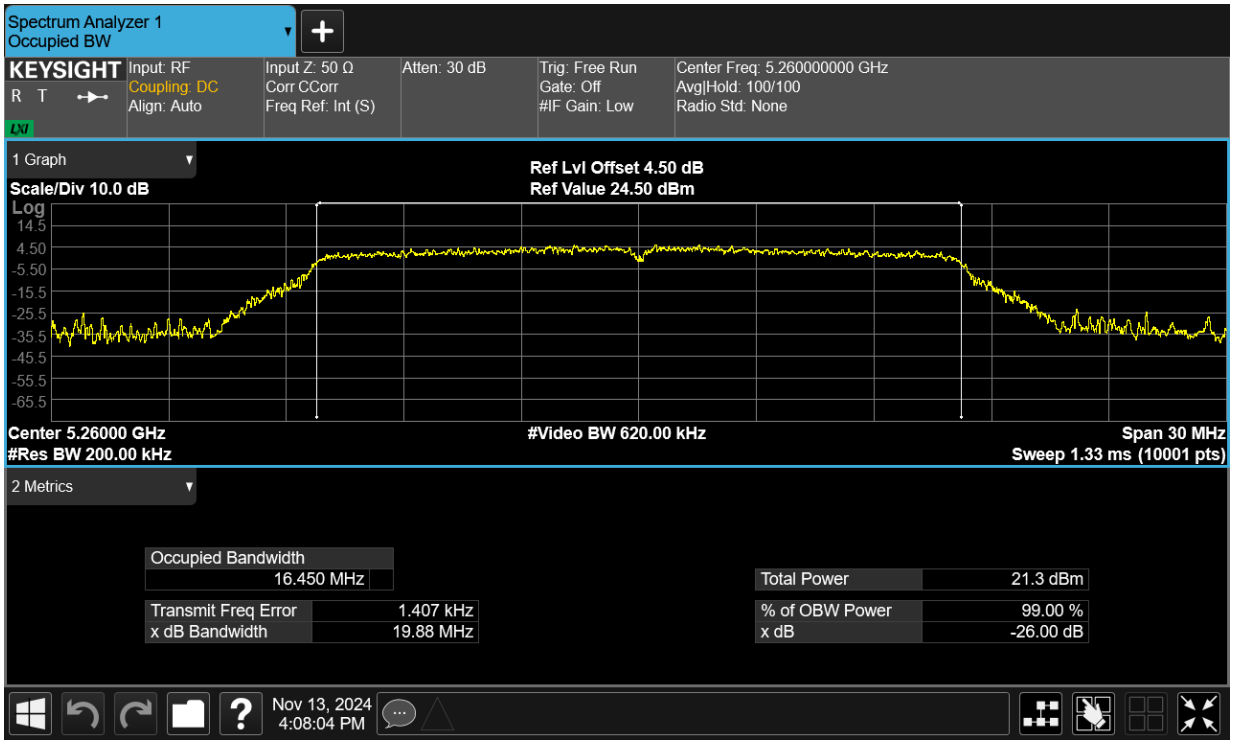
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	15.55	0	15.55	24	Pass
NVNT	a	5300	Ant1	16.29	0	16.29	24	Pass
NVNT	a	5320	Ant1	15.47	0	15.47	24	Pass
NVNT	ac20	5260	Ant1	10.48	0	10.48	24	Pass
NVNT	ac20	5300	Ant1	11.69	0	11.69	24	Pass
NVNT	ac20	5320	Ant1	10.58	0	10.58	24	Pass
NVNT	ac40	5270	Ant1	10.9	0	10.9	24	Pass
NVNT	ac40	5310	Ant1	10.91	0	10.91	24	Pass
NVNT	ac80	5290	Ant1	9.91	0	9.91	24	Pass
NVNT	n20	5260	Ant1	14.6	0	14.6	24	Pass
NVNT	n20	5300	Ant1	15.52	0	15.52	24	Pass
NVNT	n20	5320	Ant1	14.67	0	14.67	24	Pass
NVNT	n40	5270	Ant1	10.85	0	10.85	24	Pass
NVNT	n40	5310	Ant1	10.98	0	10.98	24	Pass

Occupied Channel Bandwidth

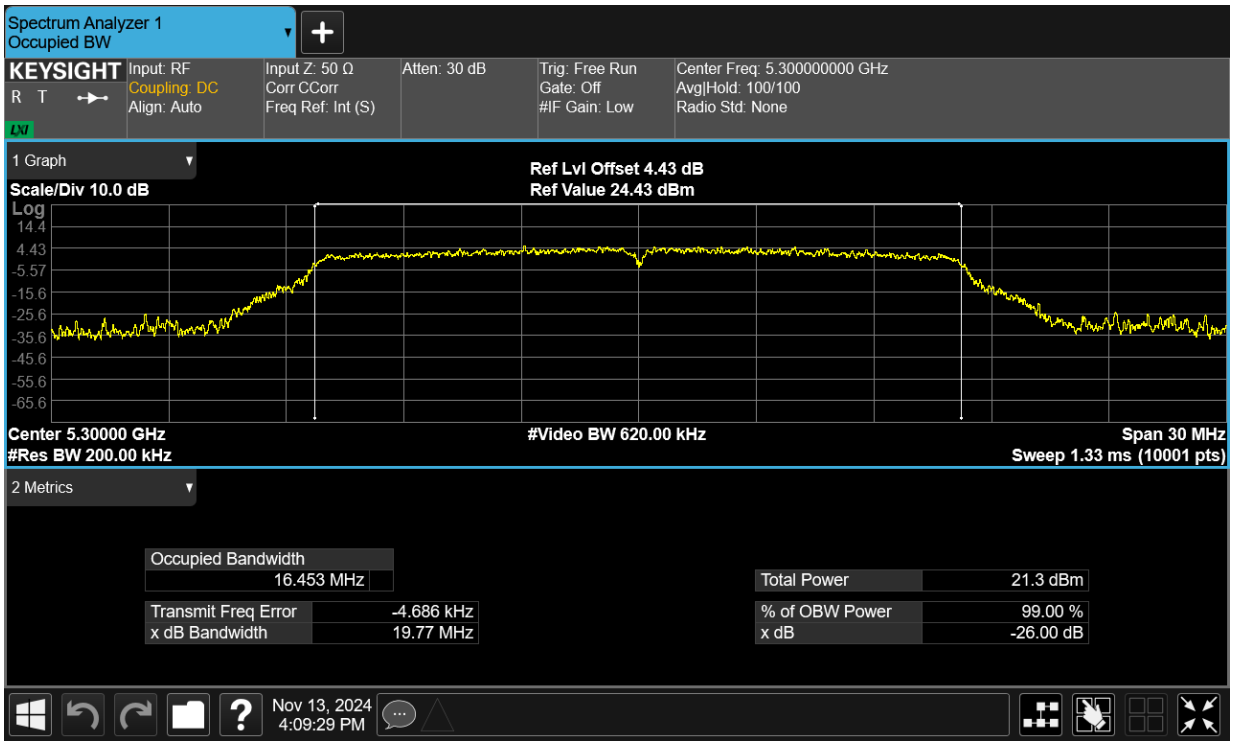
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.45
NVNT	a	5300	Ant1	16.453
NVNT	a	5320	Ant1	16.409
NVNT	ac20	5260	Ant1	17.558
NVNT	ac20	5300	Ant1	17.547
NVNT	ac20	5320	Ant1	17.538
NVNT	ac40	5270	Ant1	35.911
NVNT	ac40	5310	Ant1	35.959
NVNT	ac80	5290	Ant1	75.242
NVNT	n20	5260	Ant1	17.574
NVNT	n20	5300	Ant1	17.558
NVNT	n20	5320	Ant1	17.569
NVNT	n40	5270	Ant1	35.894
NVNT	n40	5310	Ant1	35.987

Test Graphs

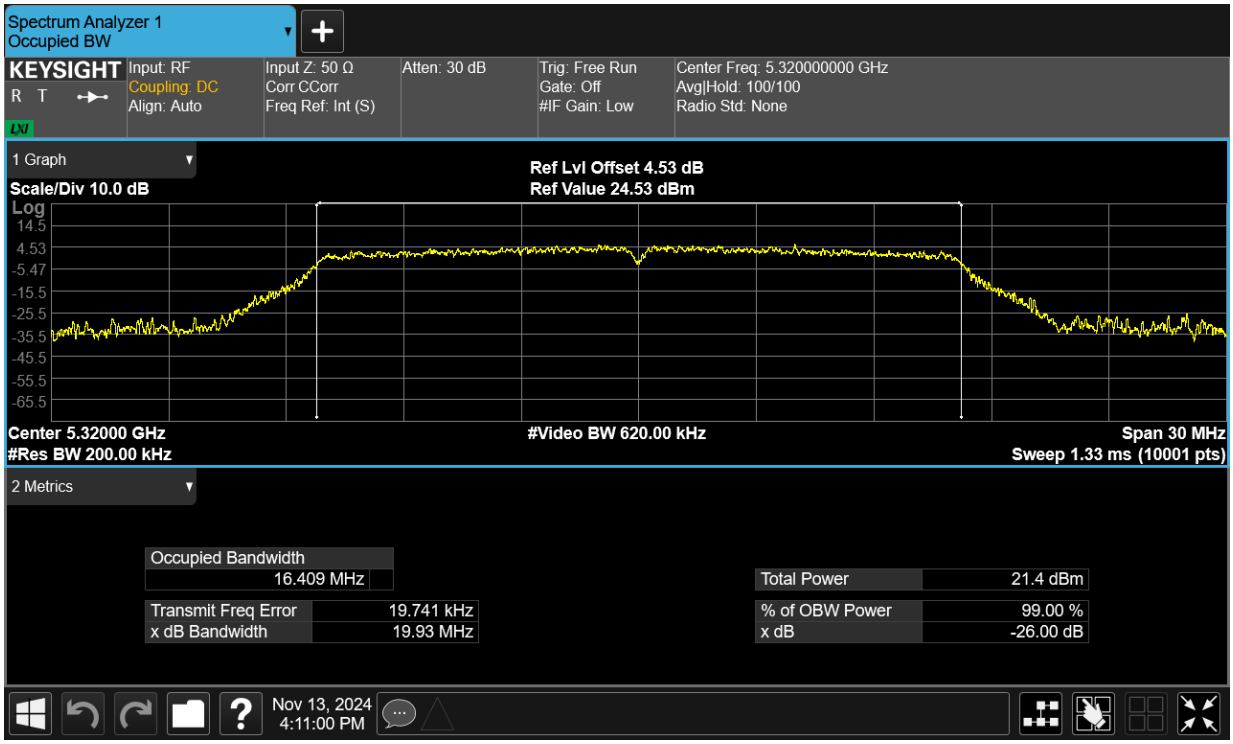
OBW NVNT a 5260MHz Ant1



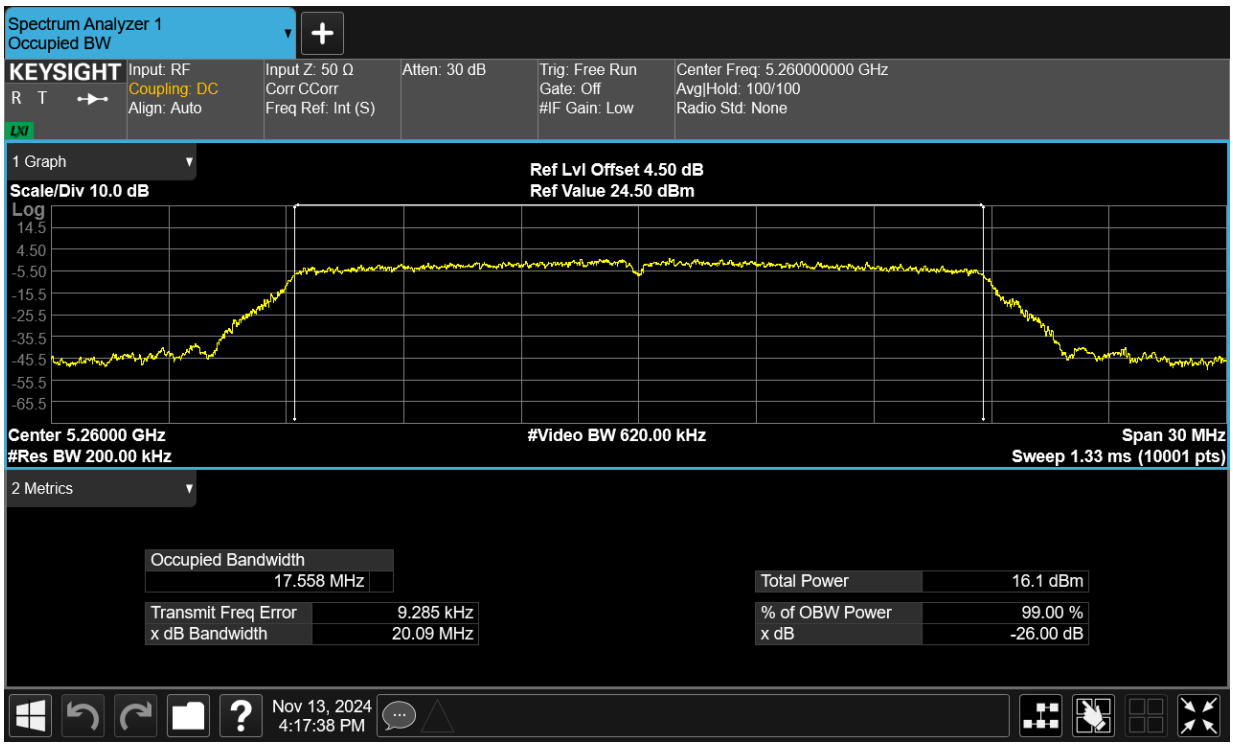
OBW NVNT a 5300MHz Ant1



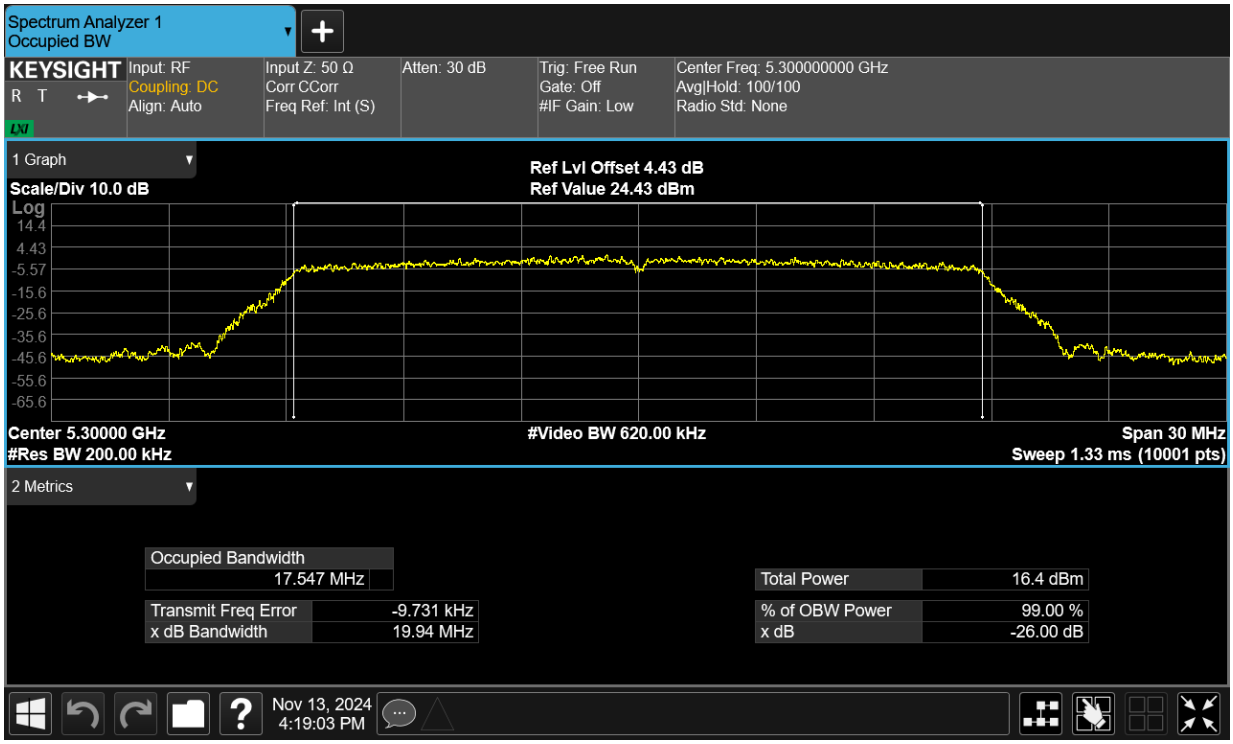
OBW NVNT a 5320MHz Ant1



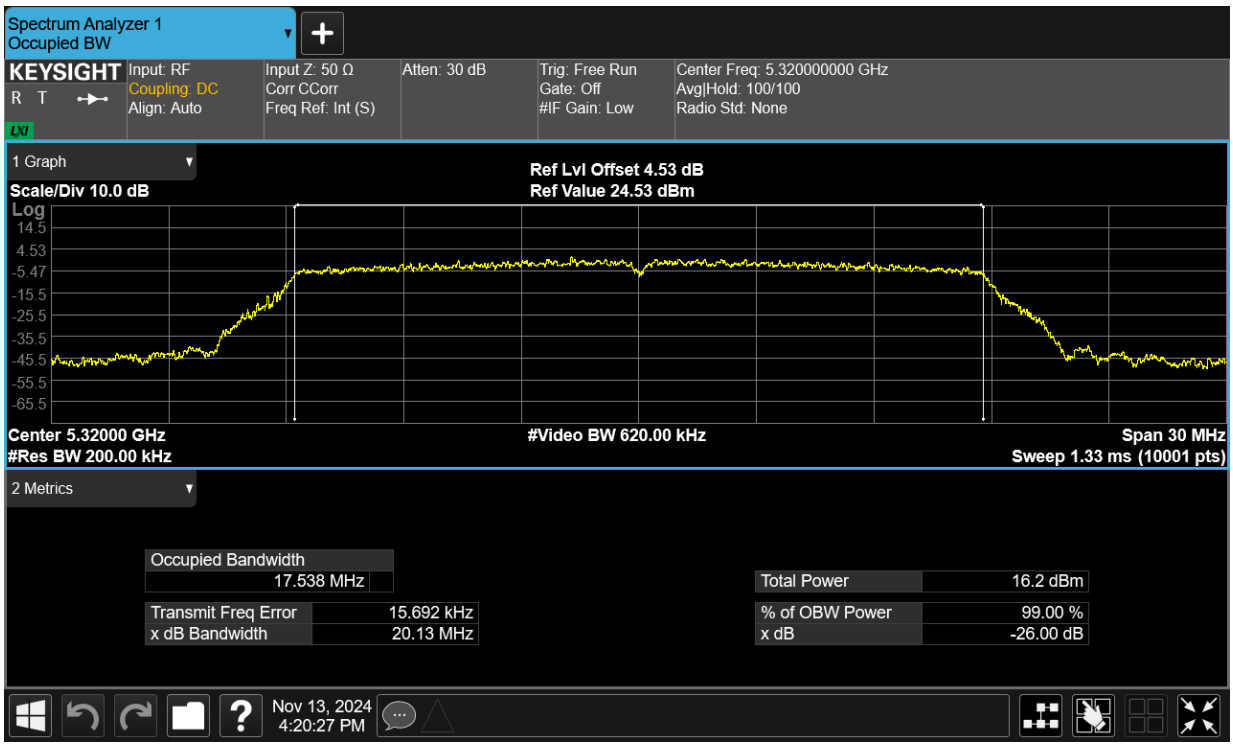
OBW NVNT ac20 5260MHz Ant1



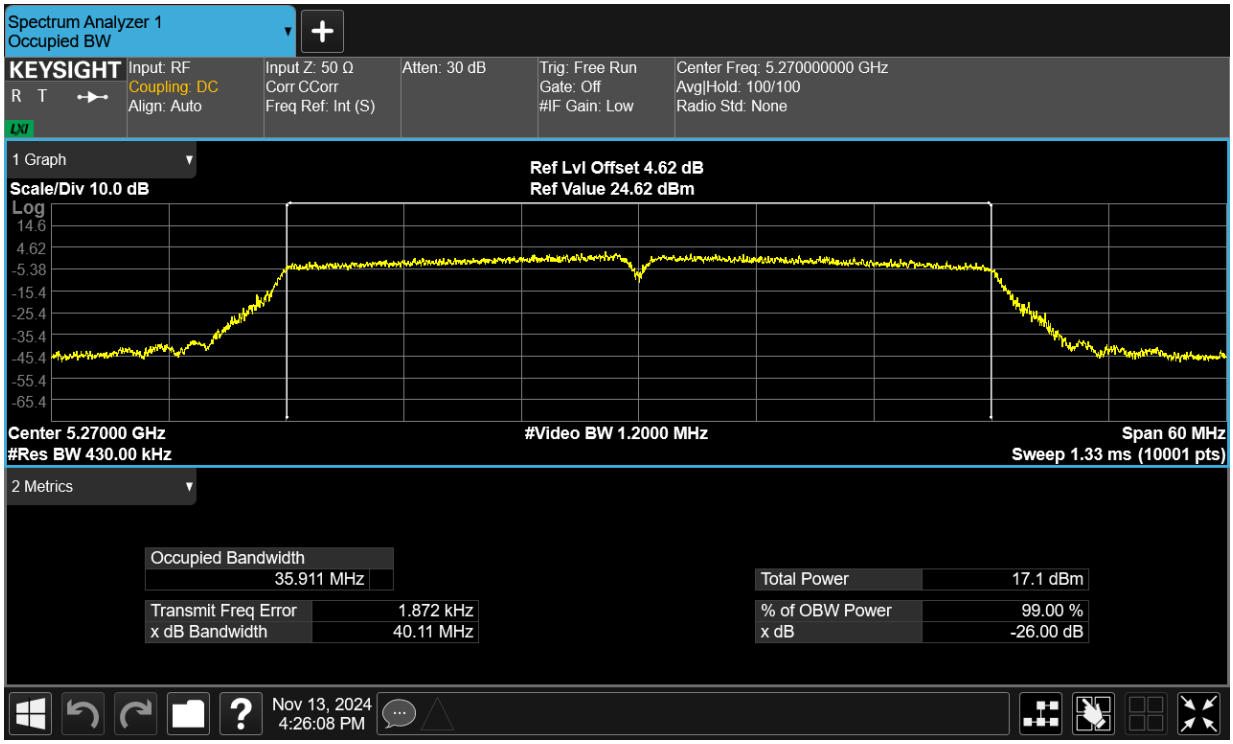
OBW NVNT ac20 5300MHz Ant1



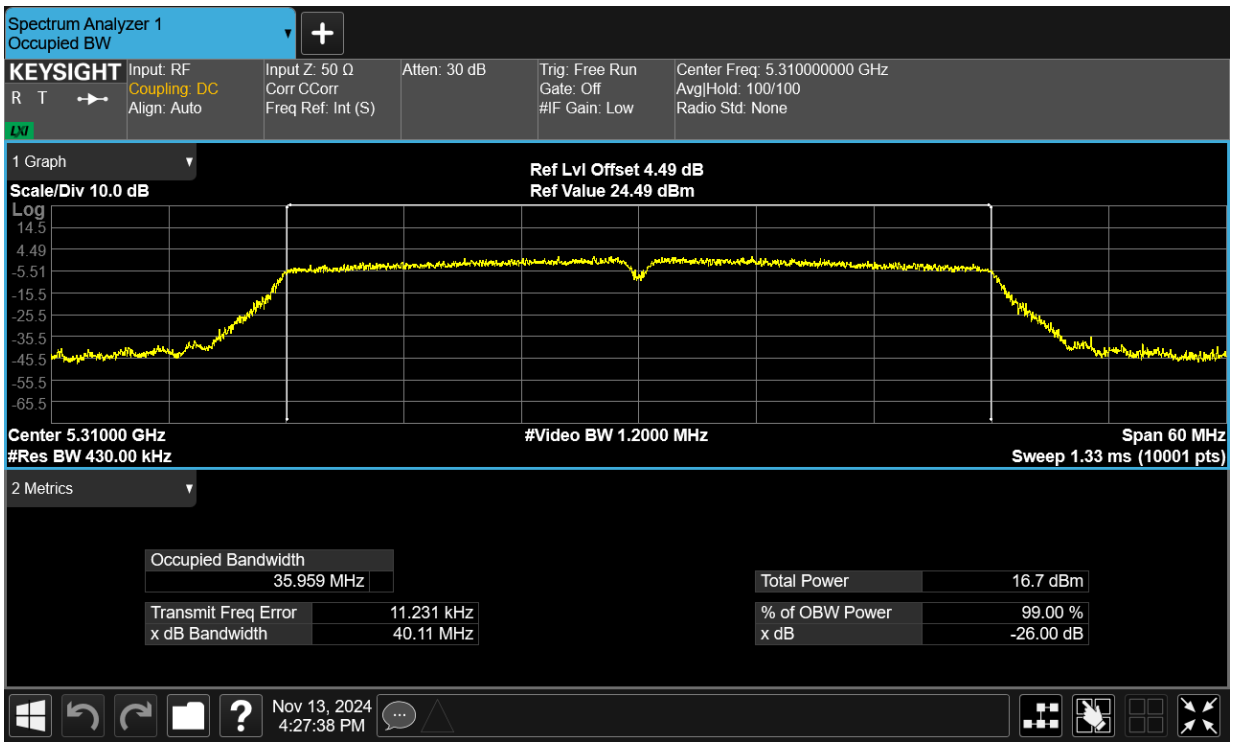
OBW NVNT ac20 5320MHz Ant1



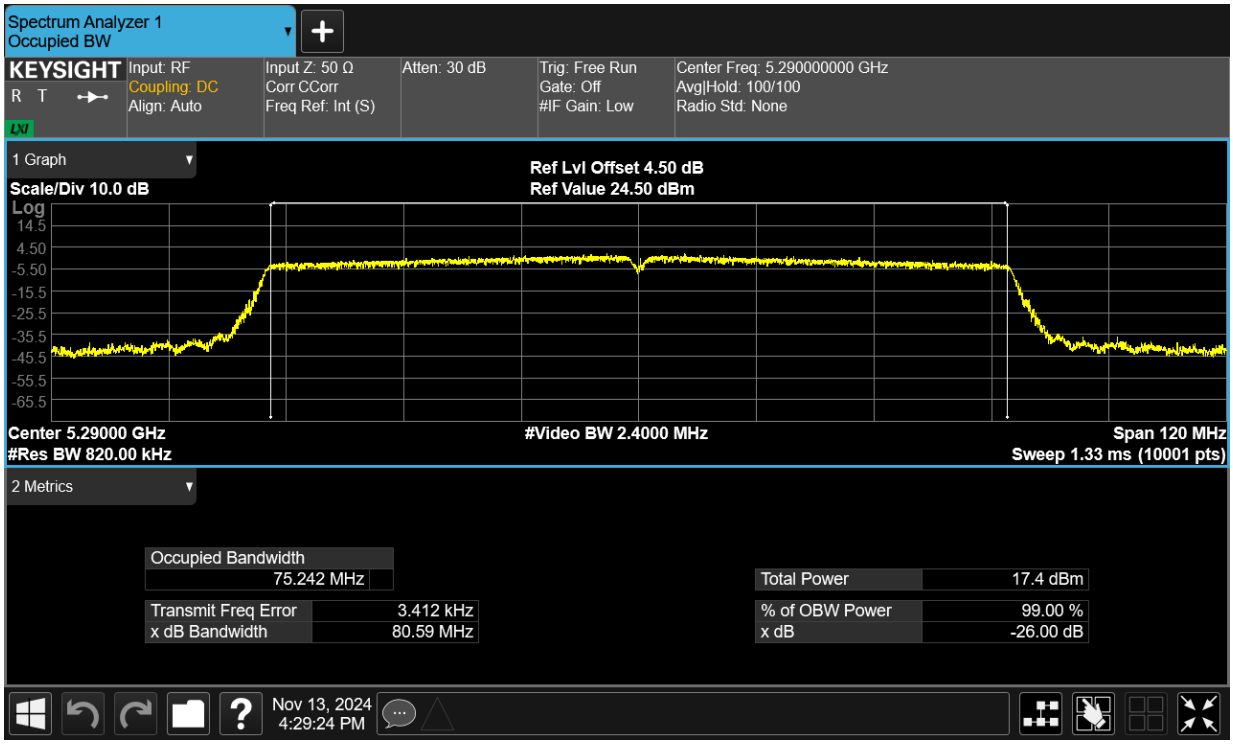
OBW NVNT ac40 5270MHz Ant1



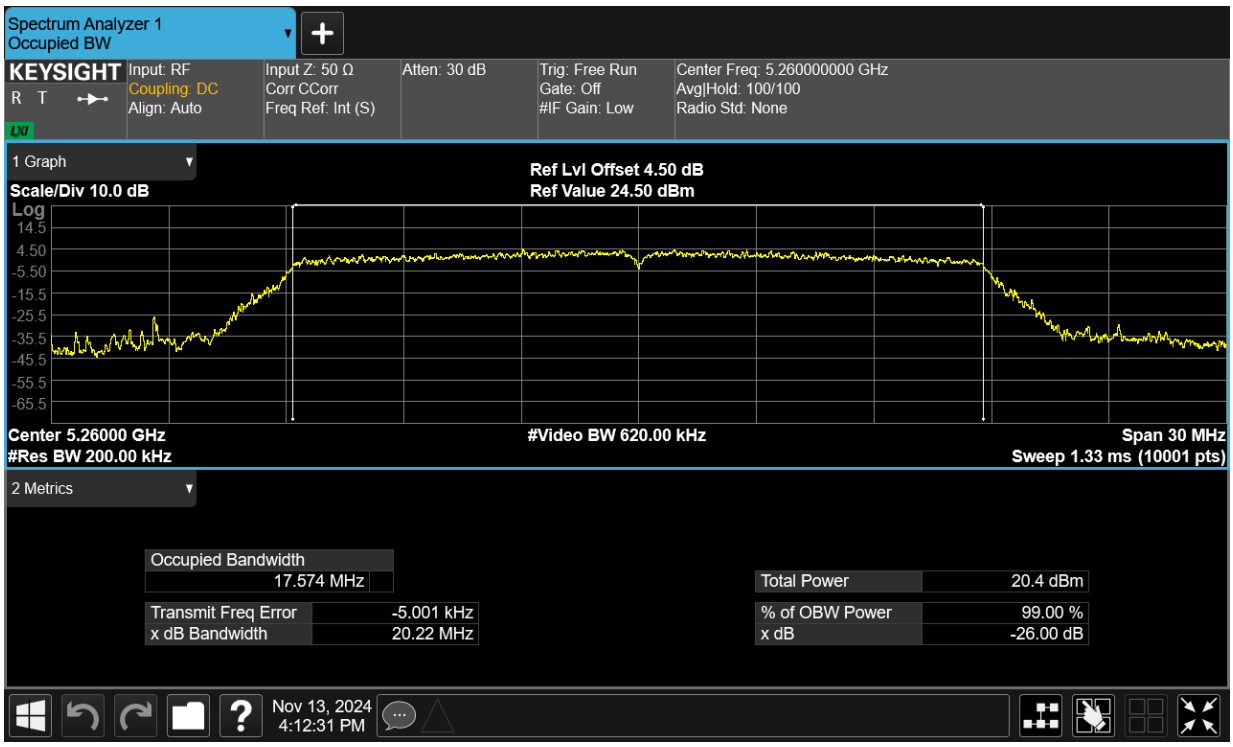
OBW NVNT ac40 5310MHz Ant1



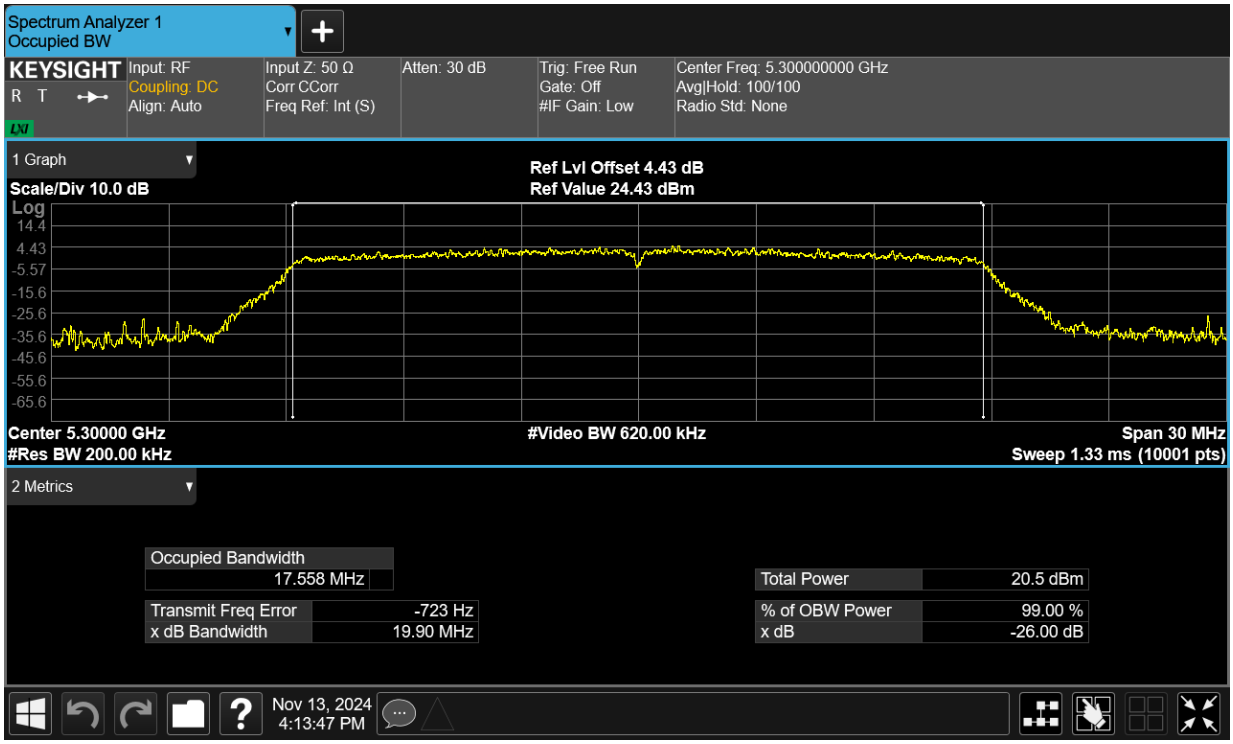
OBW NVNT ac80 5290MHz Ant1



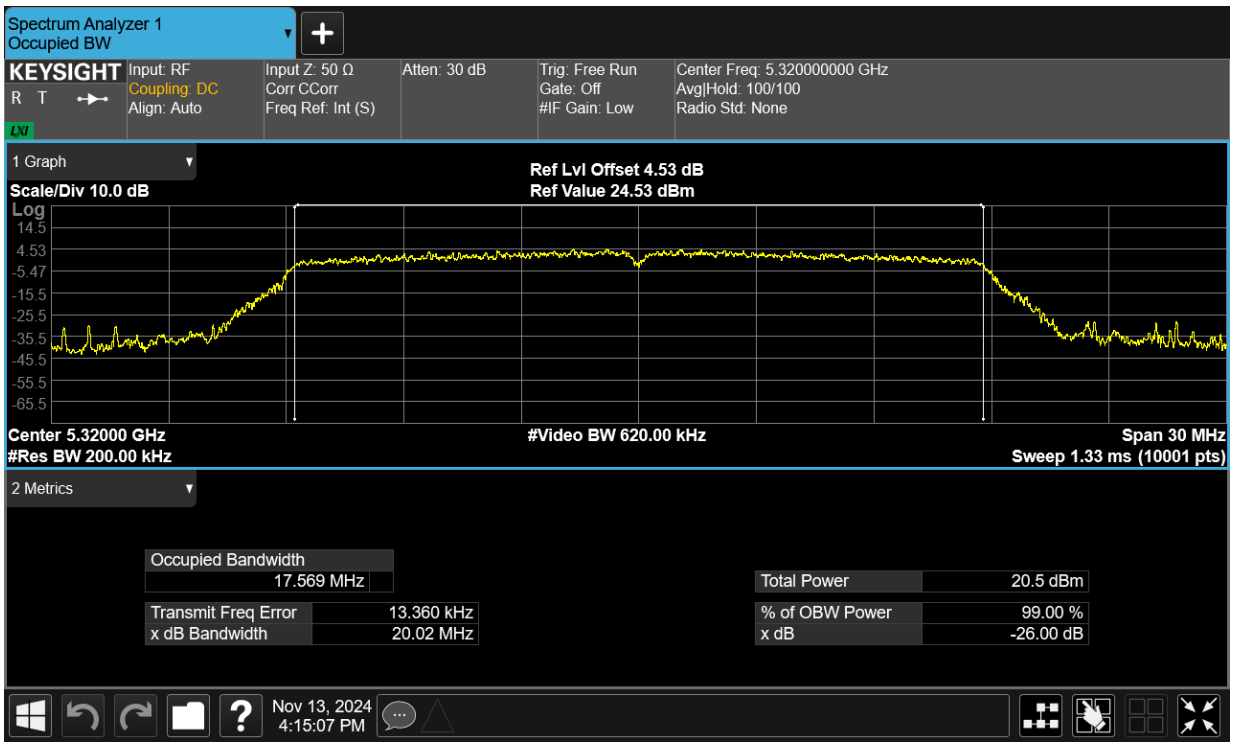
OBW NVNT n20 5260MHz Ant1



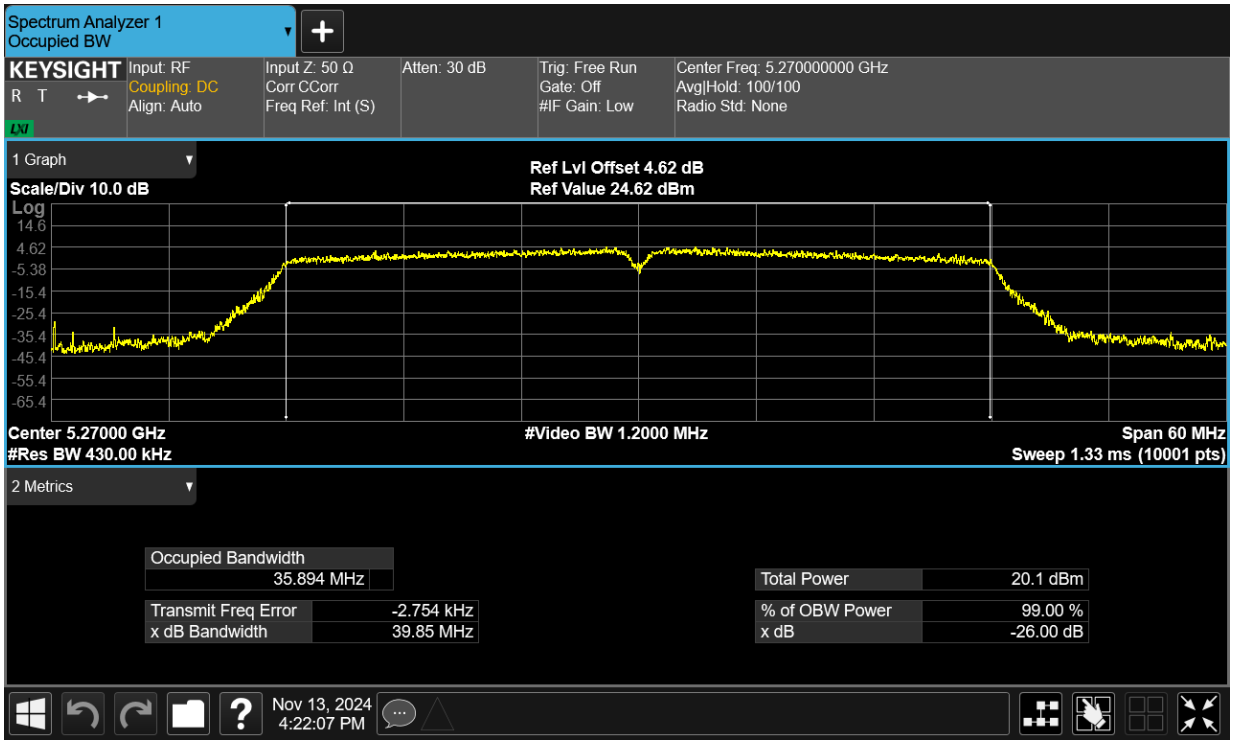
OBW NVNT n20 5300MHz Ant1



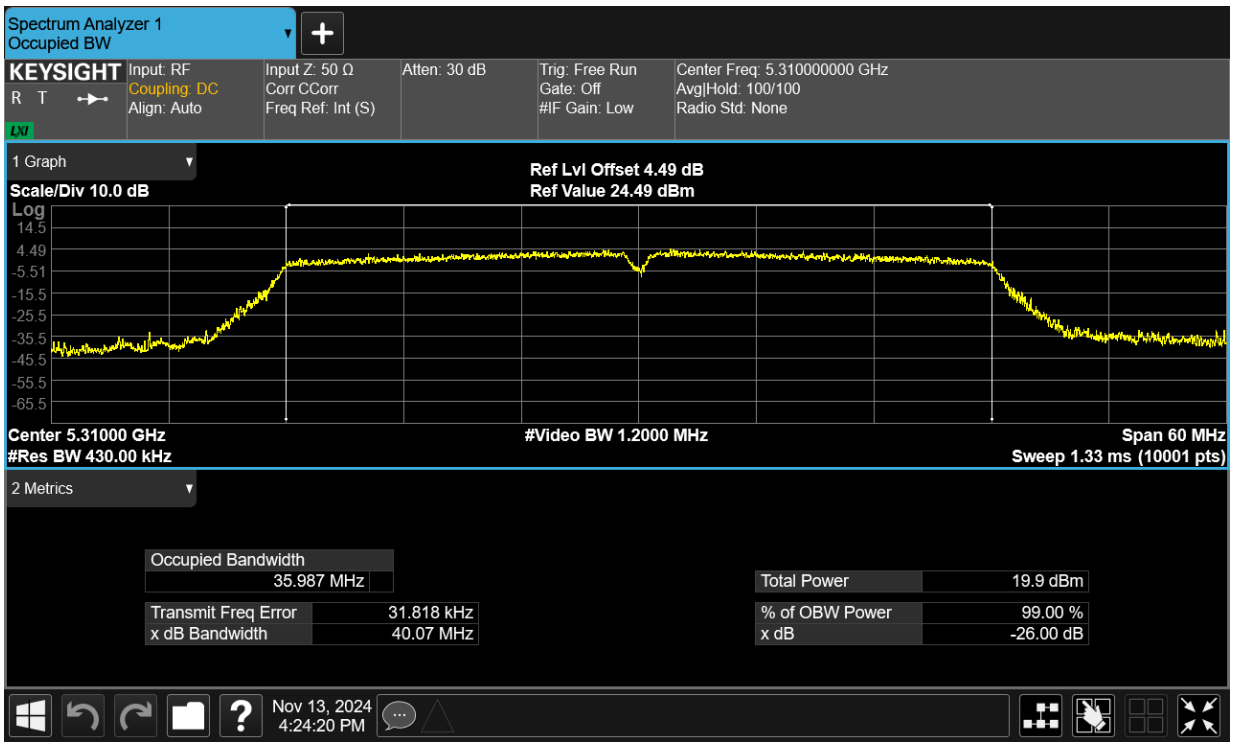
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1

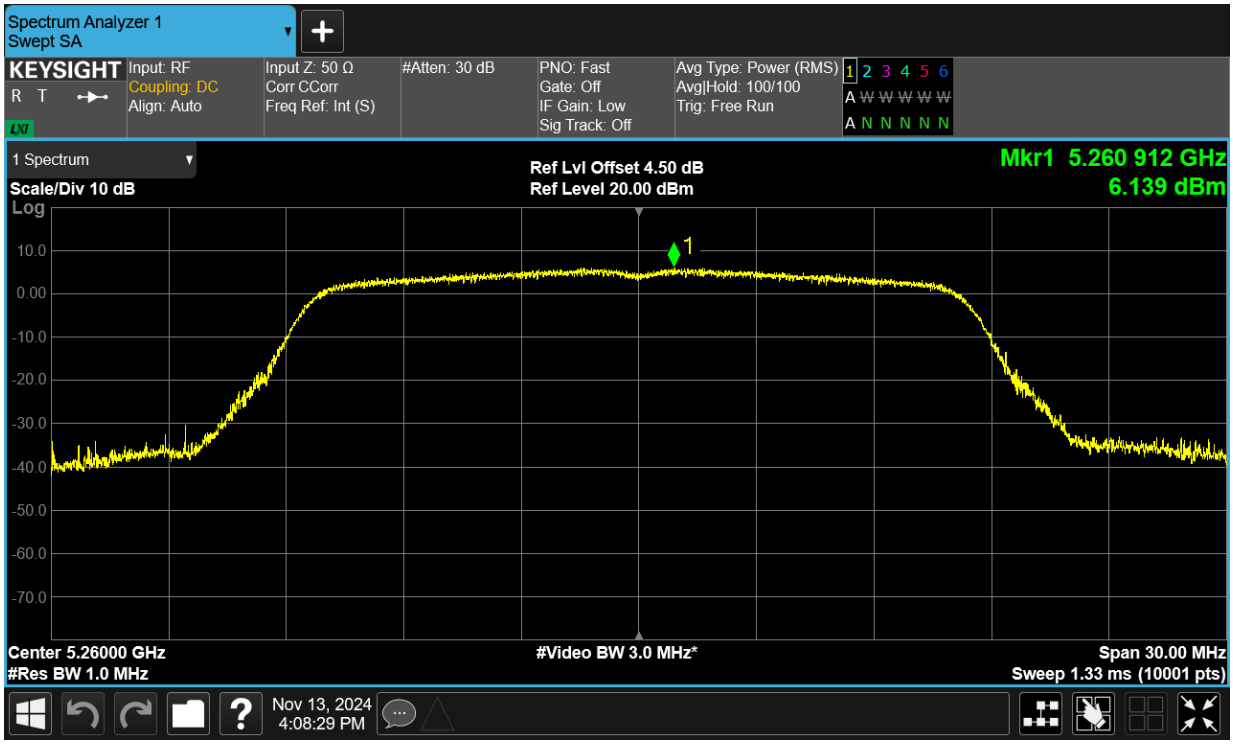


Maximum Power Spectral Density Level

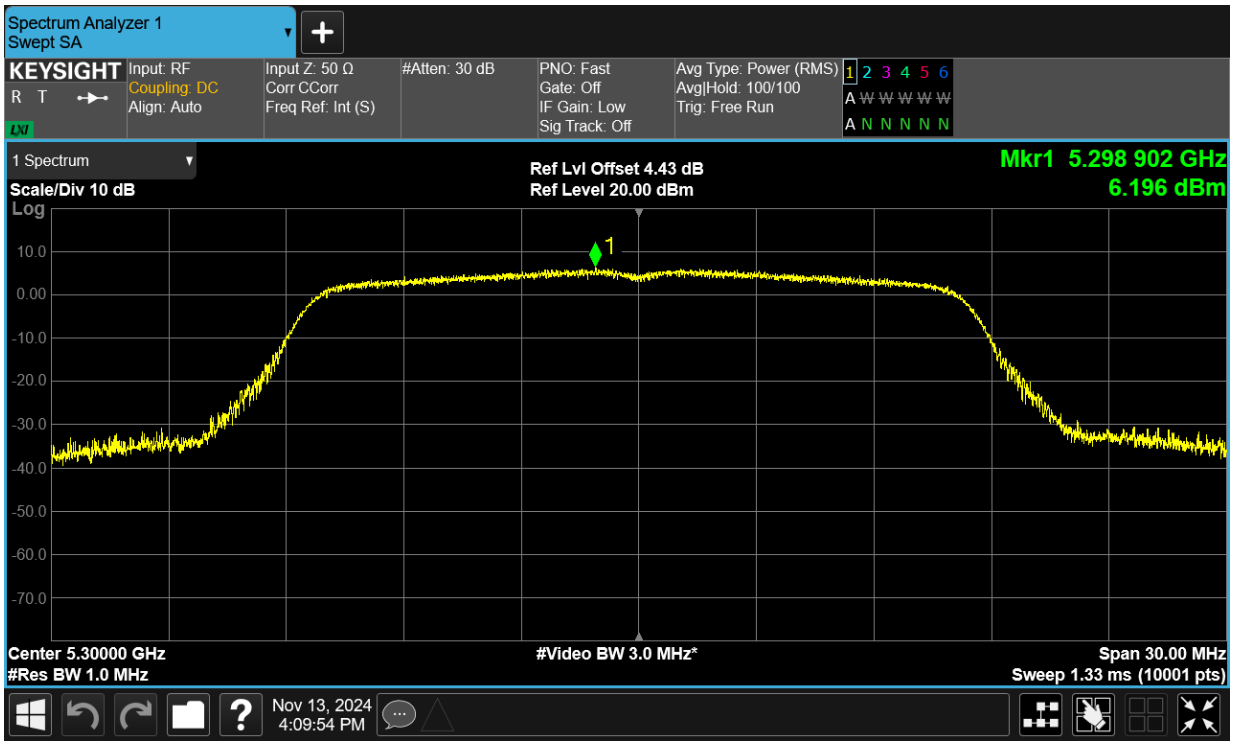
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	6.139	11	Pass
NVNT	a	5300	Ant1	6.196	11	Pass
NVNT	a	5320	Ant1	6.357	11	Pass
NVNT	ac20	5260	Ant1	0.725	11	Pass
NVNT	ac20	5300	Ant1	1.089	11	Pass
NVNT	ac20	5320	Ant1	1.14	11	Pass
NVNT	ac40	5270	Ant1	-1.13	11	Pass
NVNT	ac40	5310	Ant1	-1.684	11	Pass
NVNT	ac80	5290	Ant1	-4.762	11	Pass
NVNT	n20	5260	Ant1	4.959	11	Pass
NVNT	n20	5300	Ant1	5.031	11	Pass
NVNT	n20	5320	Ant1	5.165	11	Pass
NVNT	n40	5270	Ant1	2.03	11	Pass
NVNT	n40	5310	Ant1	1.526	11	Pass

Test Graphs

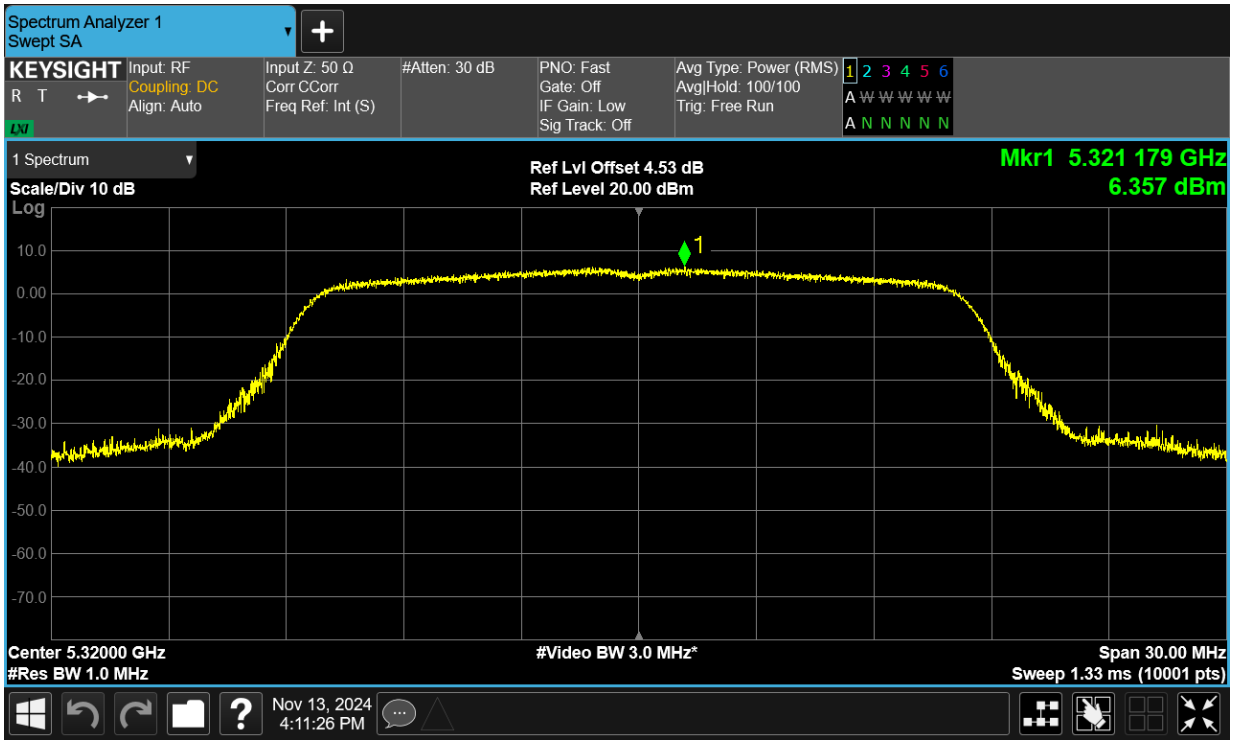
PSD NVNT a 5260MHz Ant1



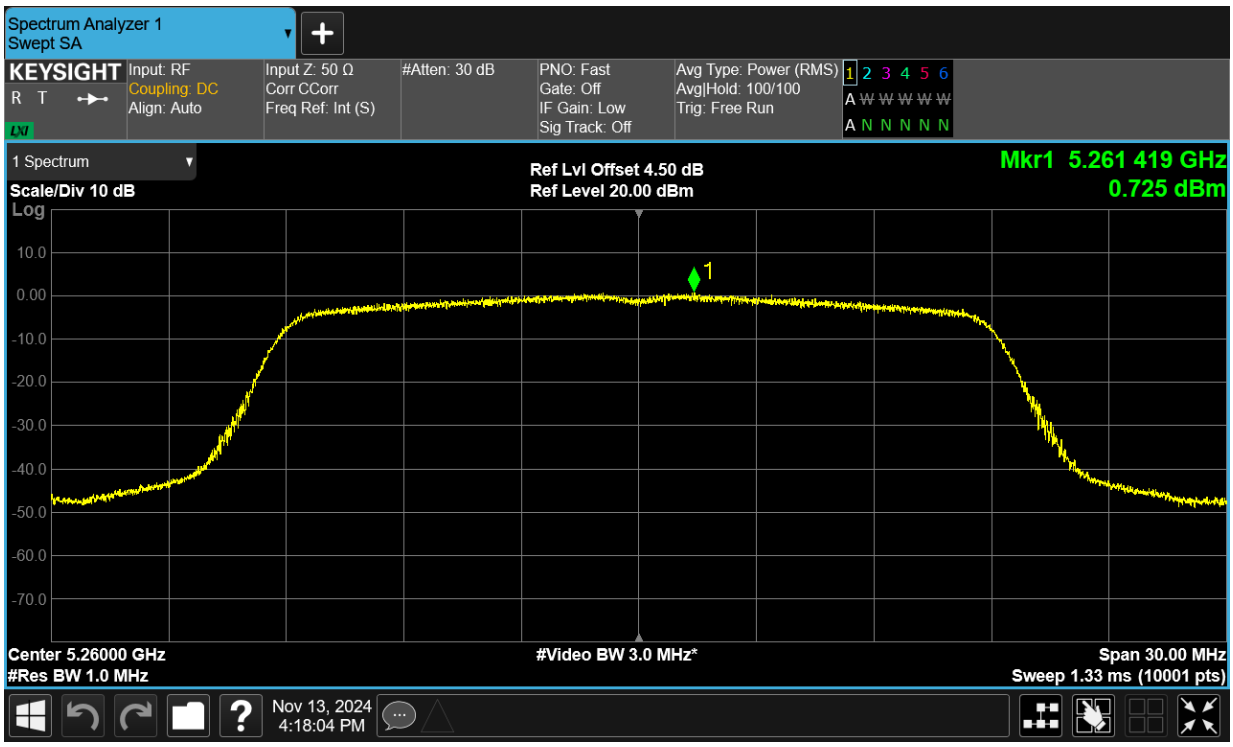
PSD NVNT a 5300MHz Ant1



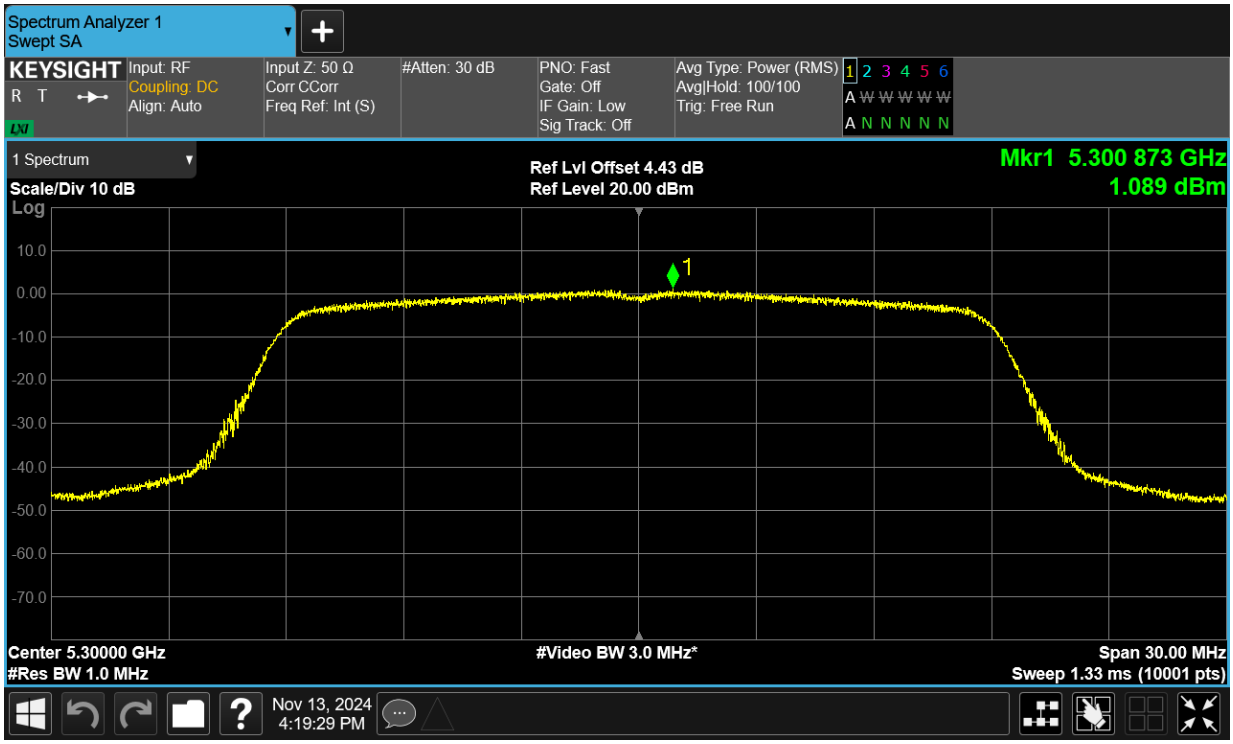
PSD NVNT a 5320MHz Ant1



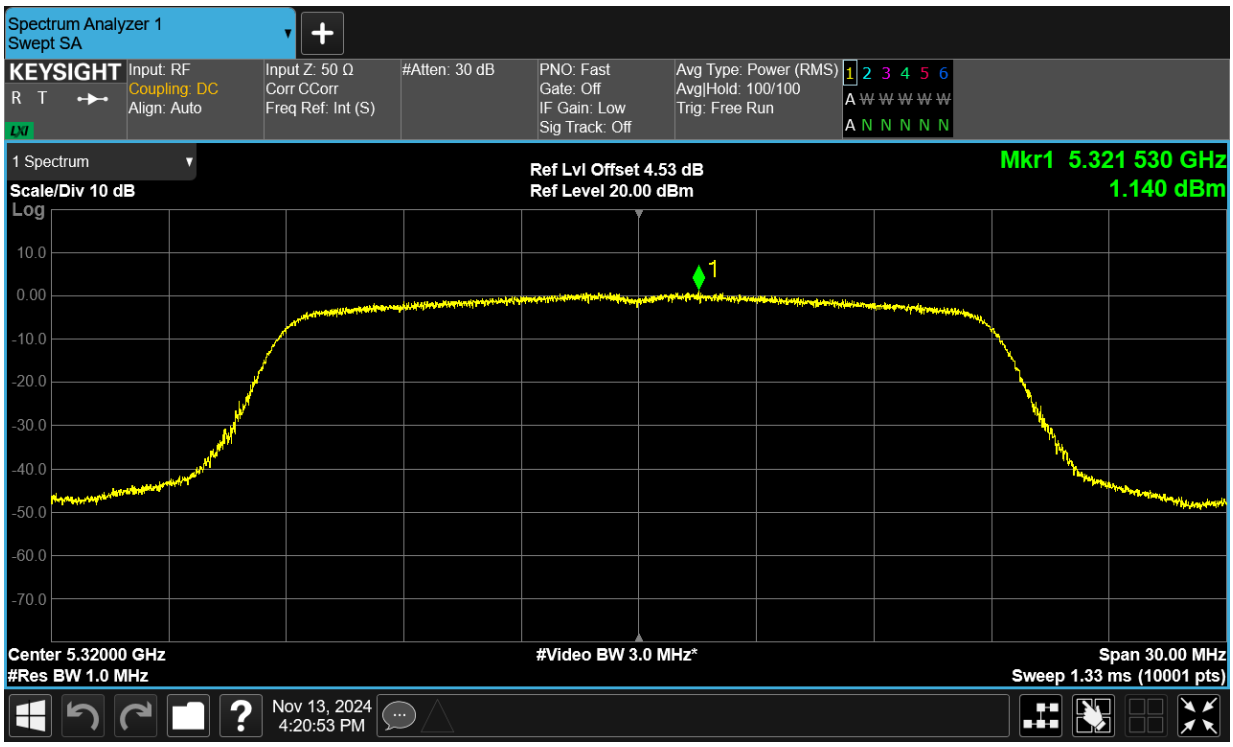
PSD NVNT ac20 5260MHz Ant1



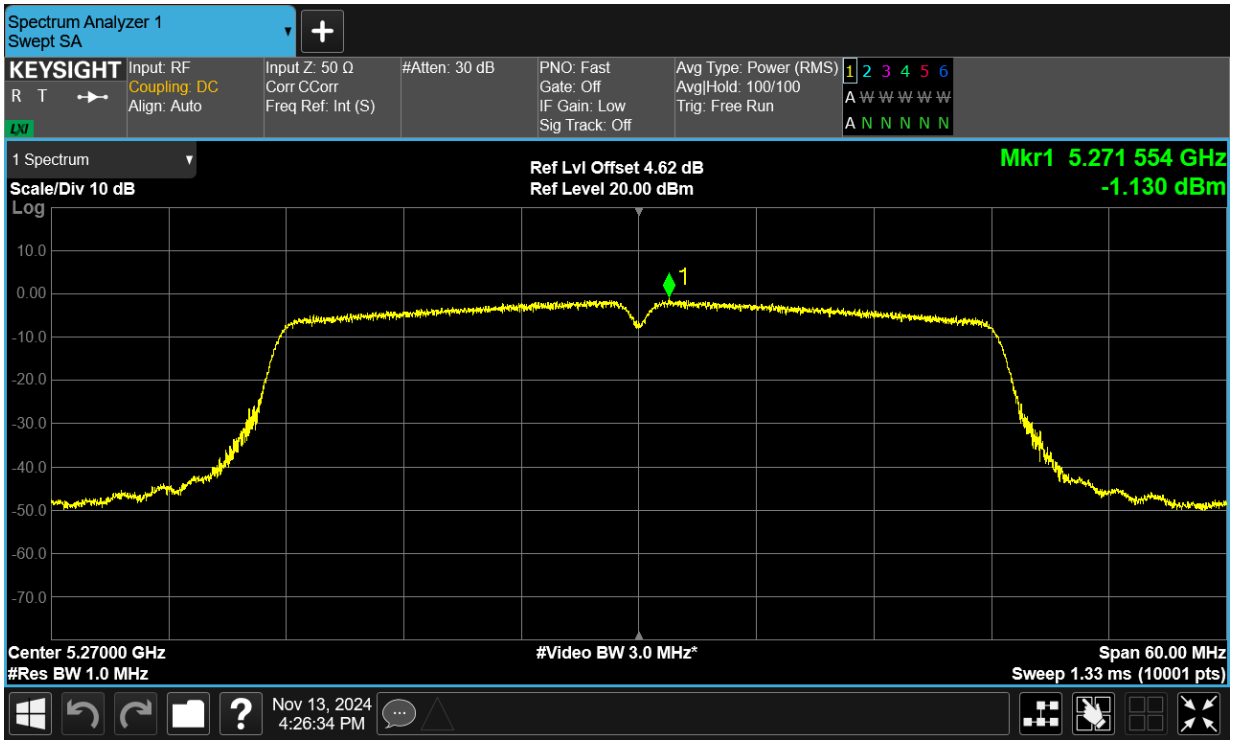
PSD NVNT ac20 5300MHz Ant1



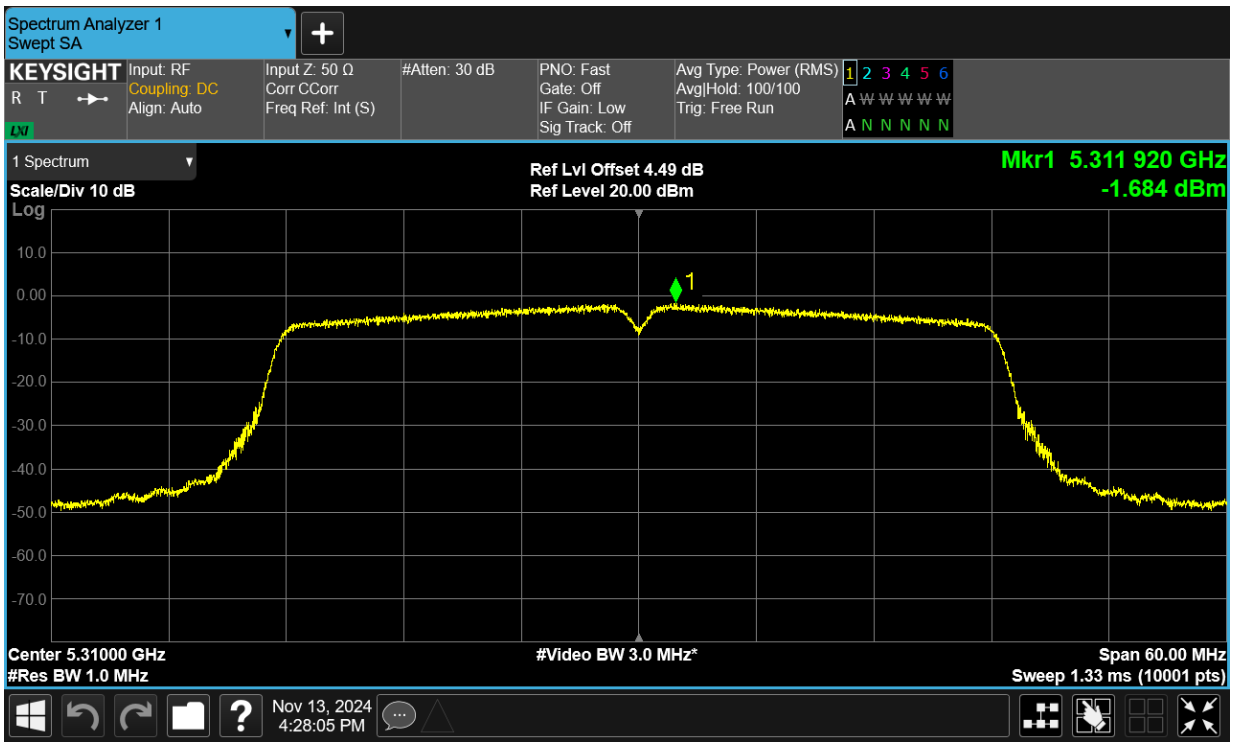
PSD NVNT ac20 5320MHz Ant1



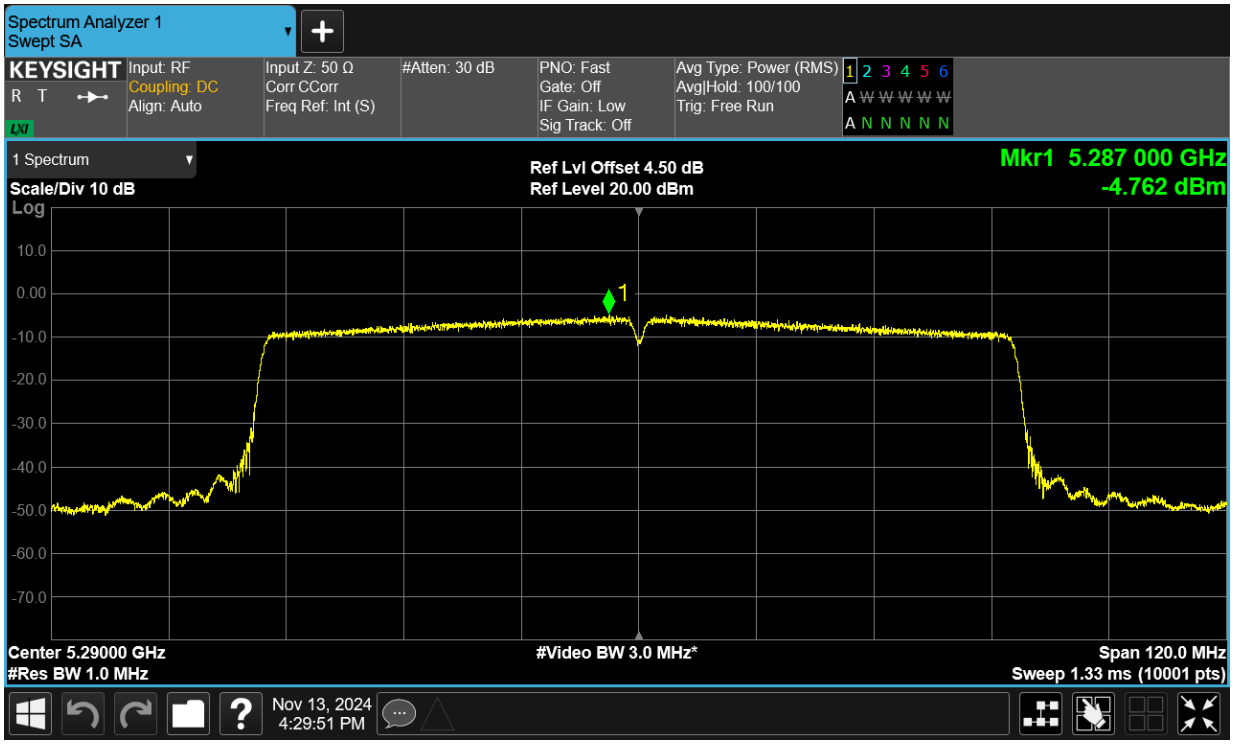
PSD NVNT ac40 5270MHz Ant1



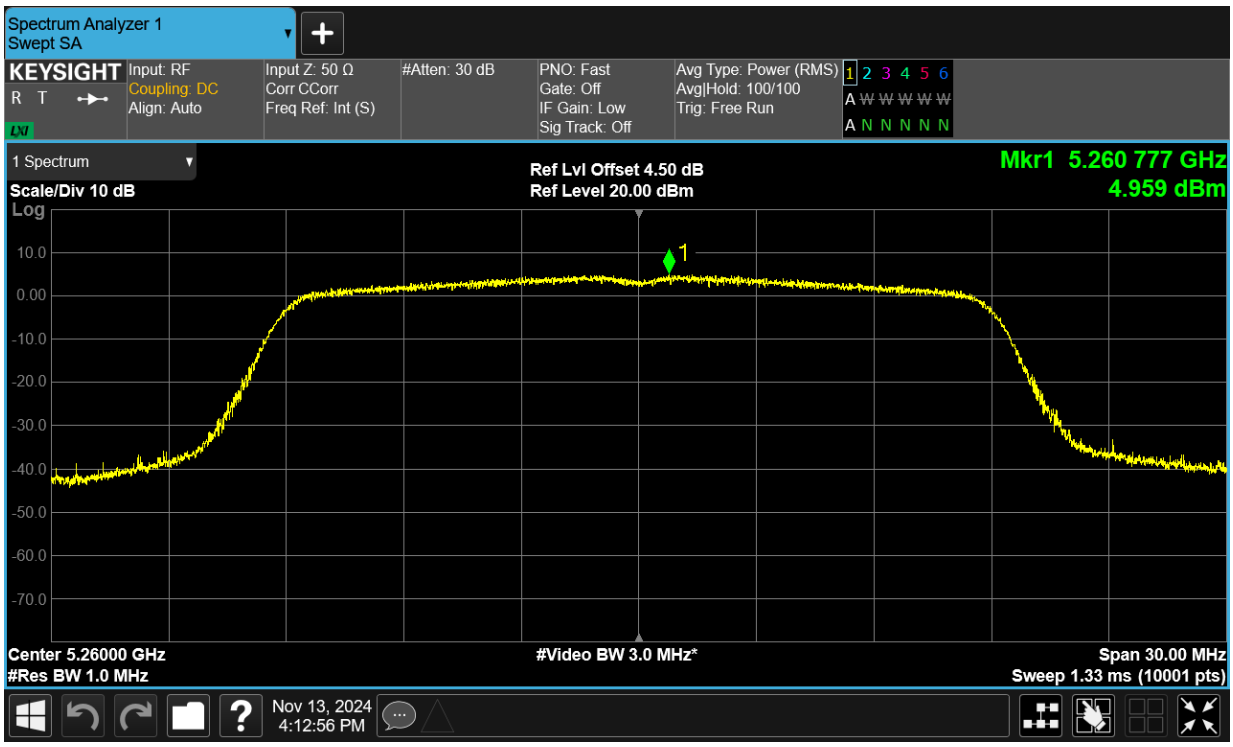
PSD NVNT ac40 5310MHz Ant1



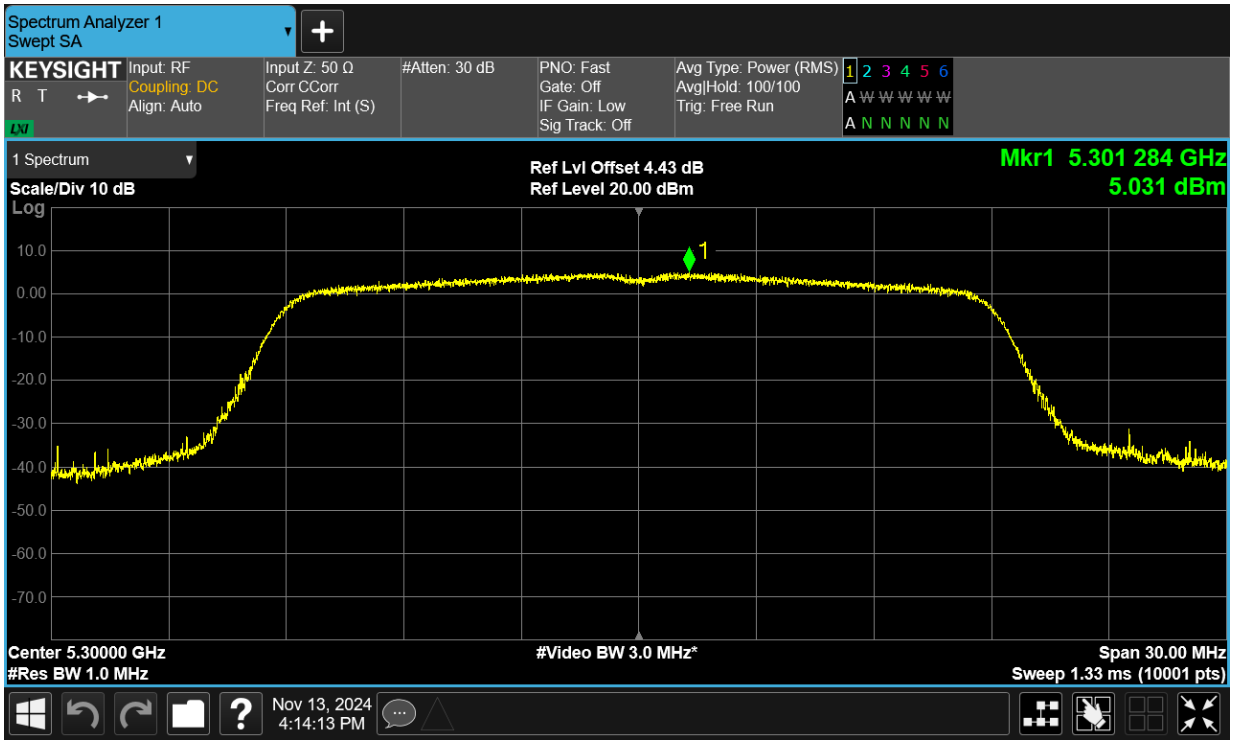
PSD NVNT ac80 5290MHz Ant1



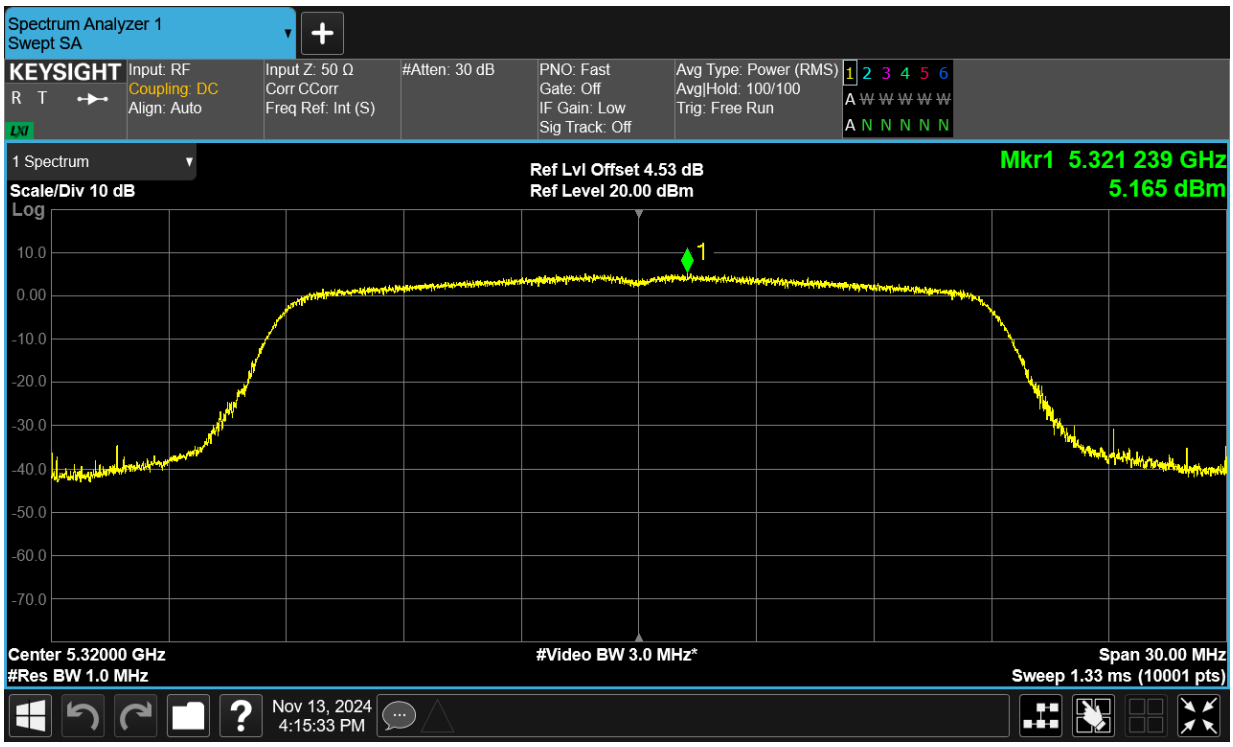
PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



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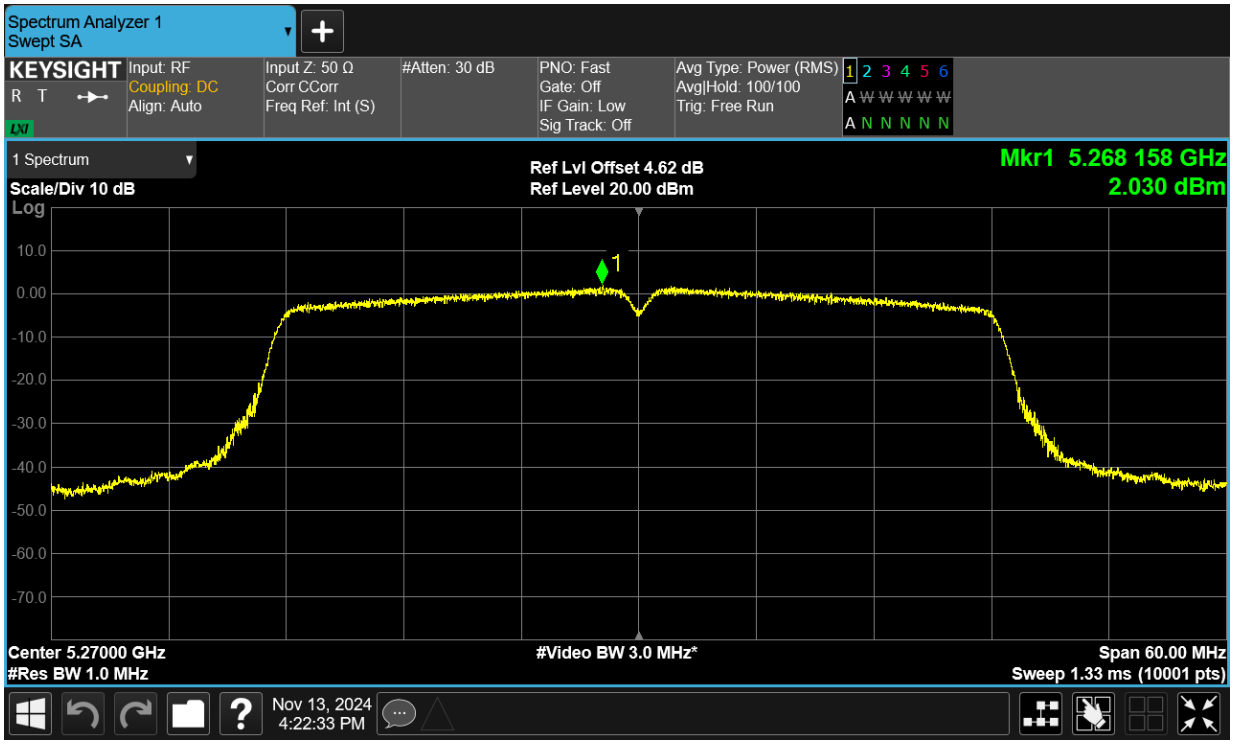
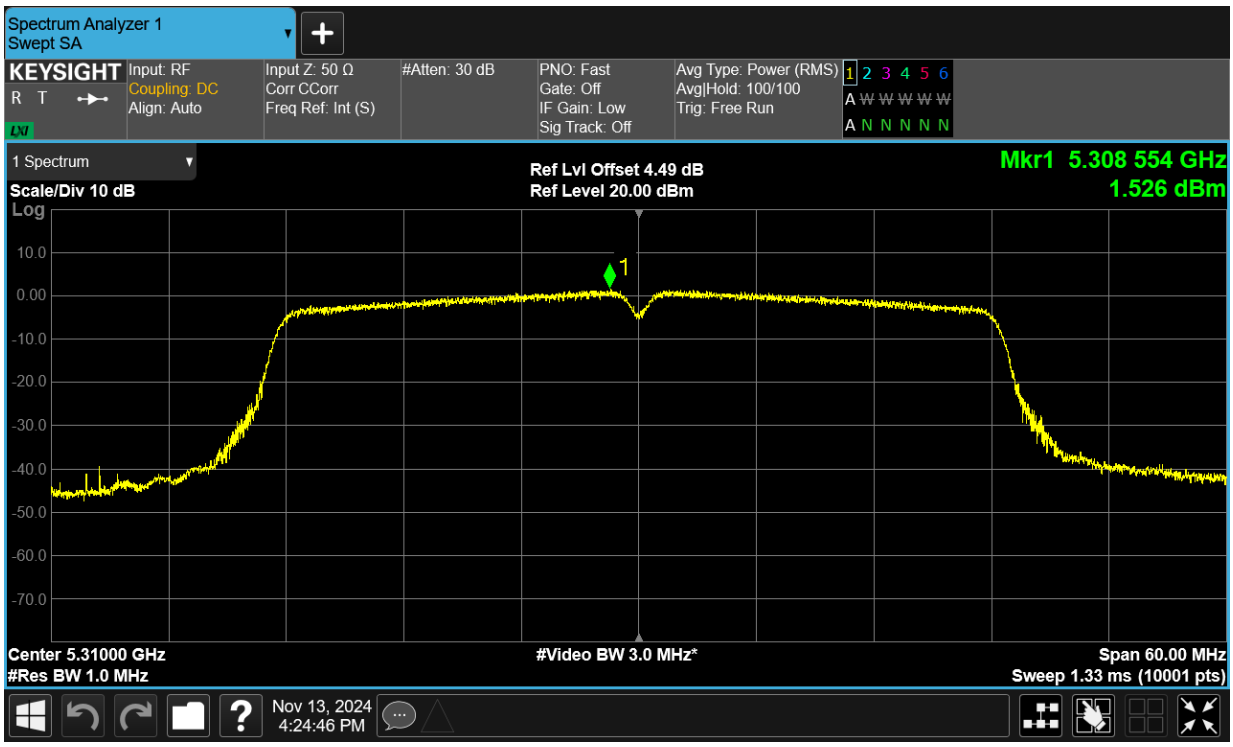
PSD NVNT n40 5310MHz Ant1