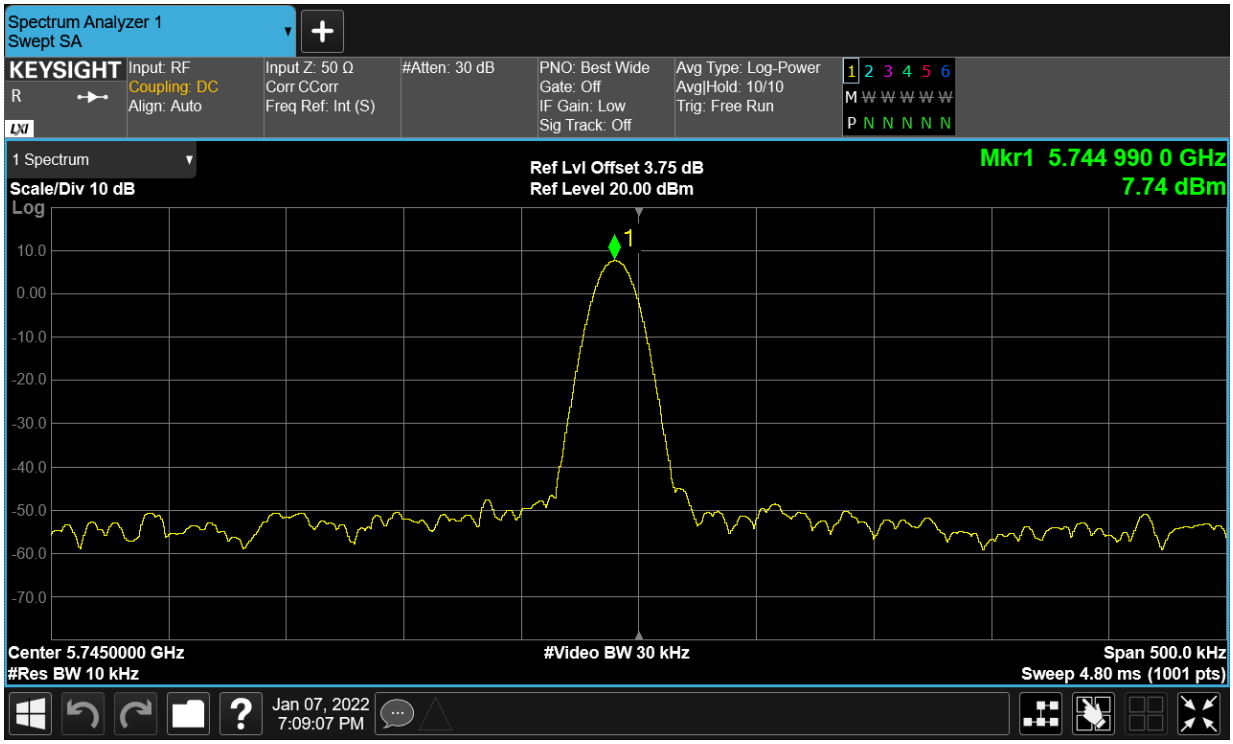
Test Data

Frequency Stability(wosrt case mode)

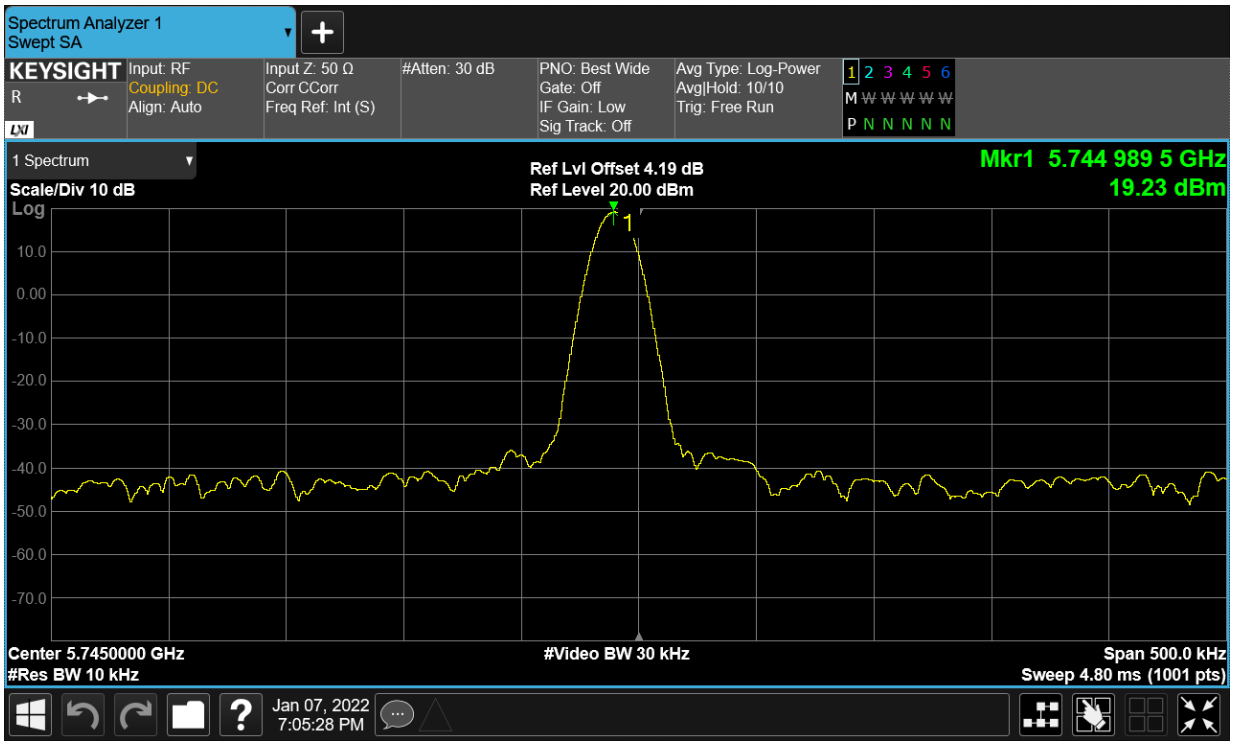
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	ax20	5745	Sum	5744.9905	-1.65	within the band	Pass
LVNT	ax20	5745	Sum	5744.99	-1.74		Pass
NVHT	ax20	5745	Sum	5744.99	-1.74		Pass
NVLT	ax20	5745	Sum	5744.991	-1.57		Pass
NVNT	ax20	5745	Sum	5744.9915	-1.48		Pass
HVNT	ax40	5755	Sum	5754.989	-1.91		Pass
LVNT	ax40	5755	Sum	5754.99	-1.74		Pass
NVHT	ax40	5755	Sum	5754.9945	-0.96		Pass
NVLT	ax40	5755	Sum	5754.989	-1.91		Pass
NVNT	ax40	5755	Sum	5754.9895	-1.82		Pass
HVNT	ax80	5775	Sum	5774.9905	-1.65		Pass
LVNT	ax80	5775	Sum	5774.9905	-1.65		Pass
NVHT	ax80	5775	Sum	5774.9905	-1.65		Pass
NVLT	ax80	5775	Sum	5774.991	-1.56		Pass
NVNT	ax80	5775	Sum	5774.991	-1.56		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.

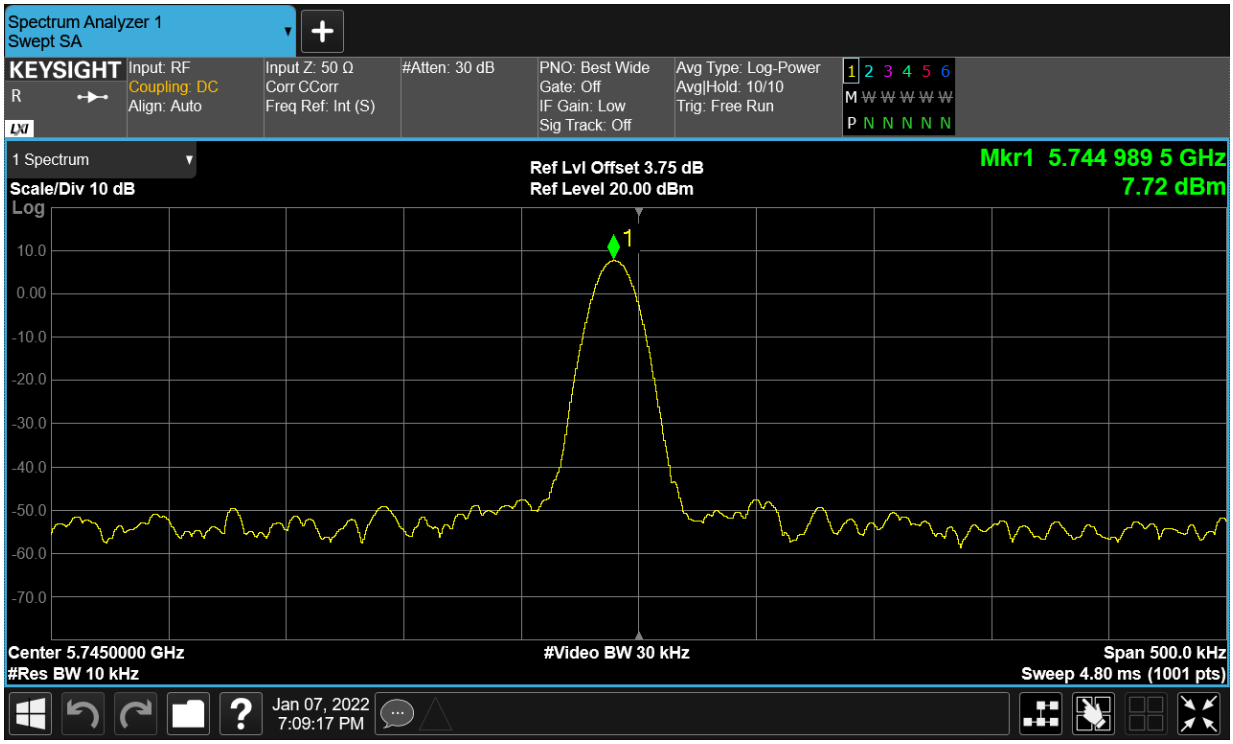
Test Graphs
Freq. Stability HVNT a 5745MHz Ant1



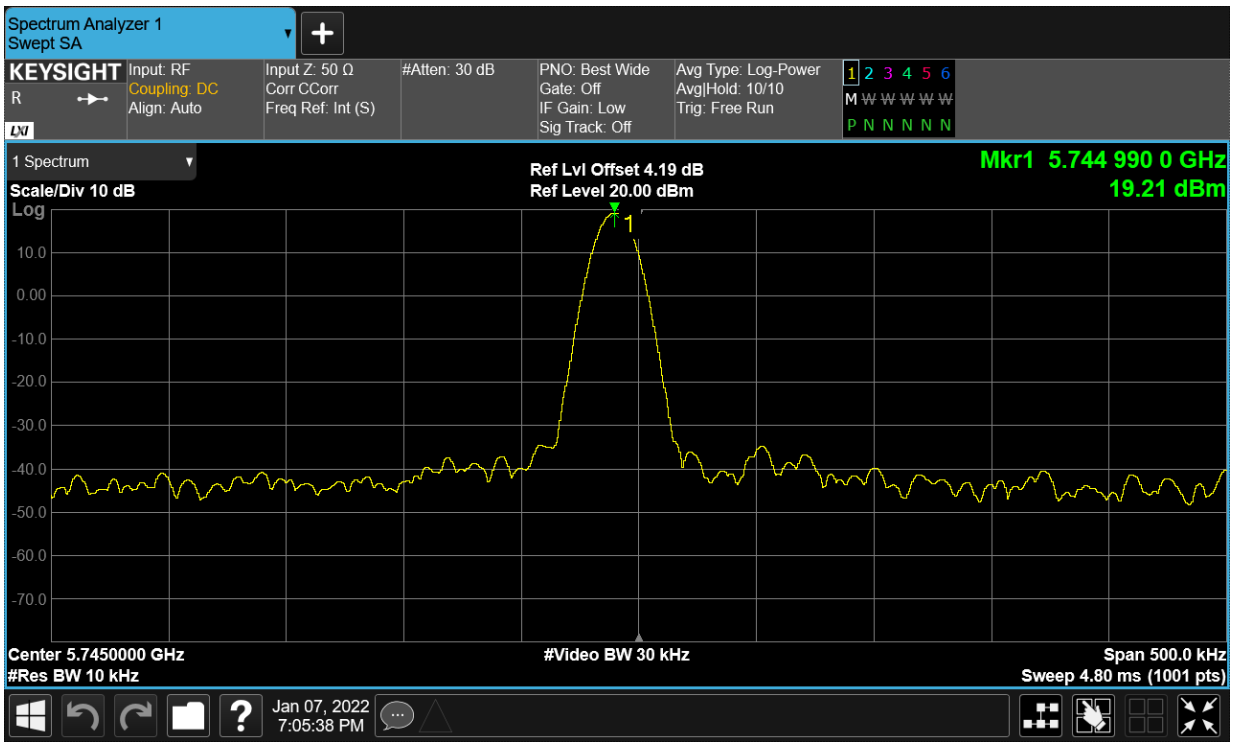
Freq. Stability HVNT a 5745MHz Ant2



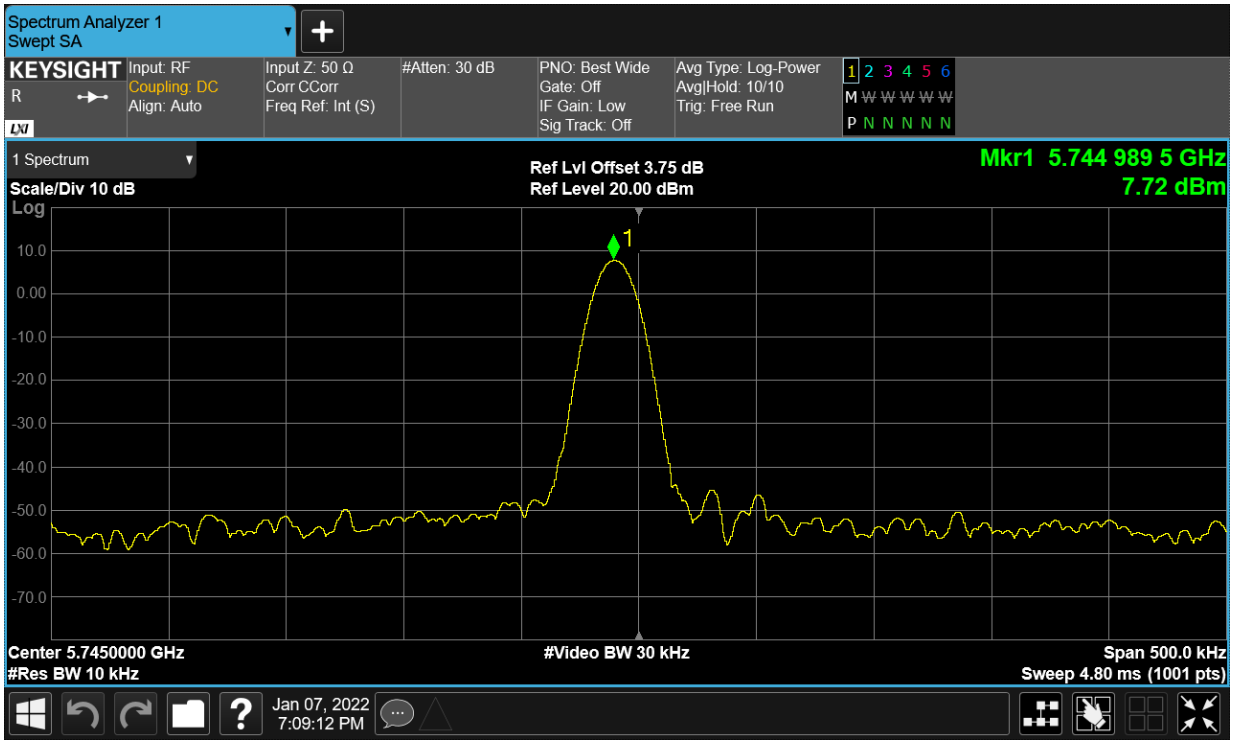
Freq. Stability LVNT a 5745MHz Ant1



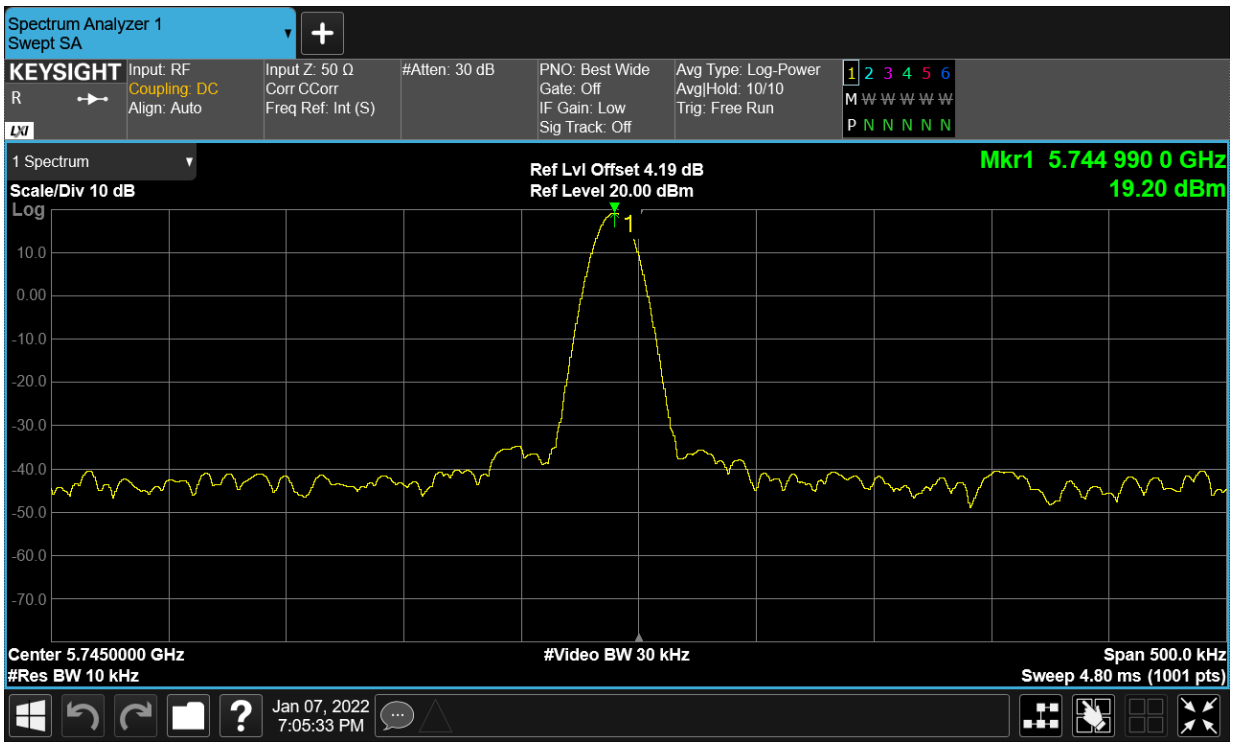
Freq. Stability LVNT a 5745MHz Ant2



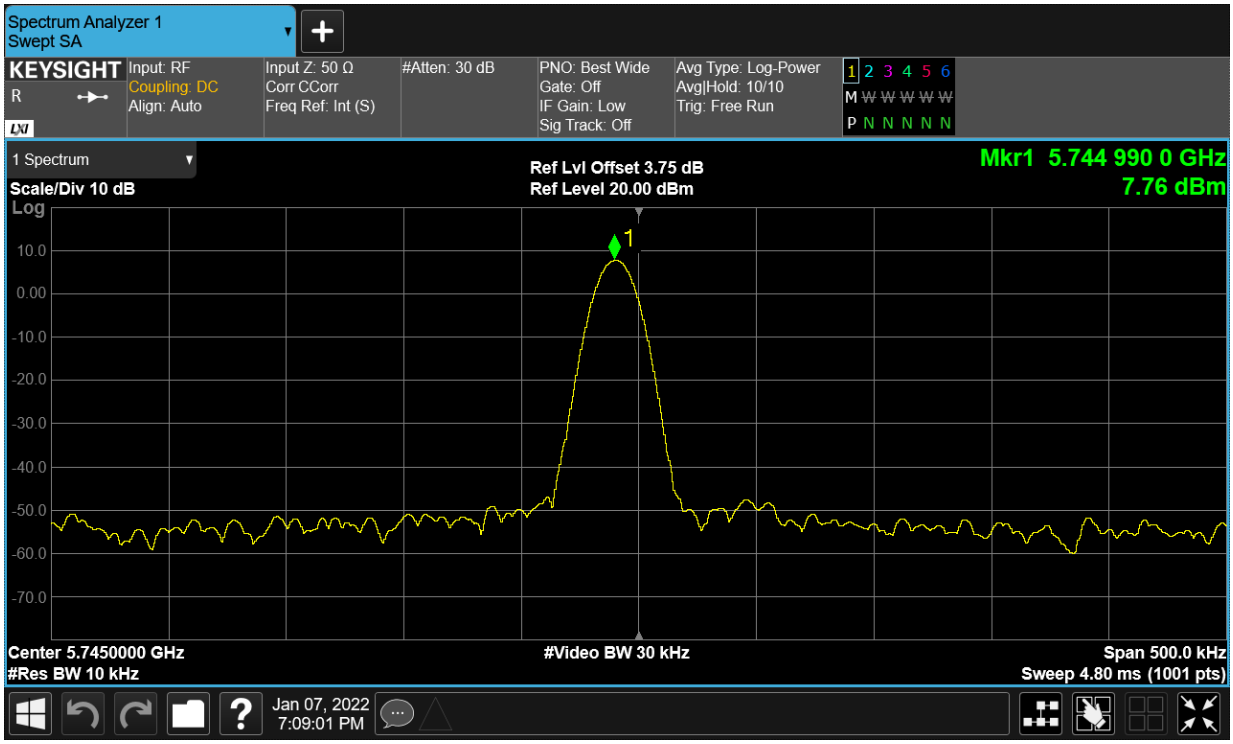
Freq. Stability NVHT a 5745MHz Ant1



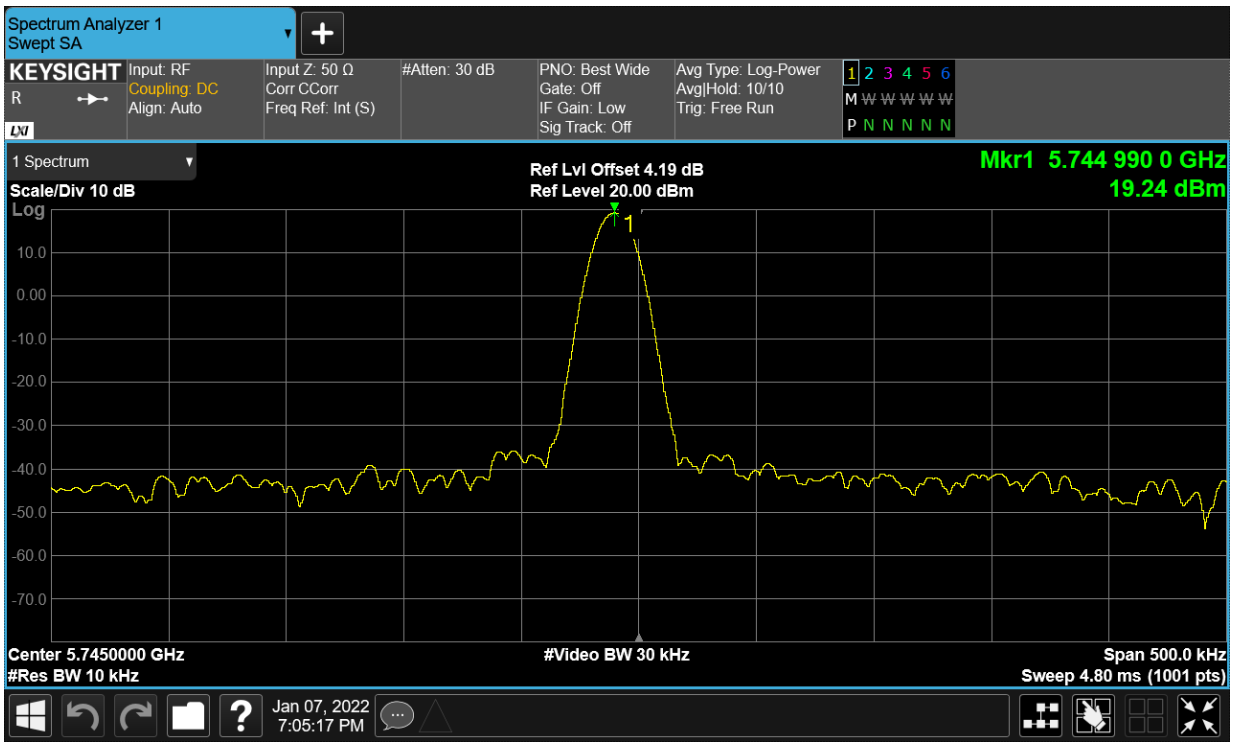
Freq. Stability NVHT a 5745MHz Ant2



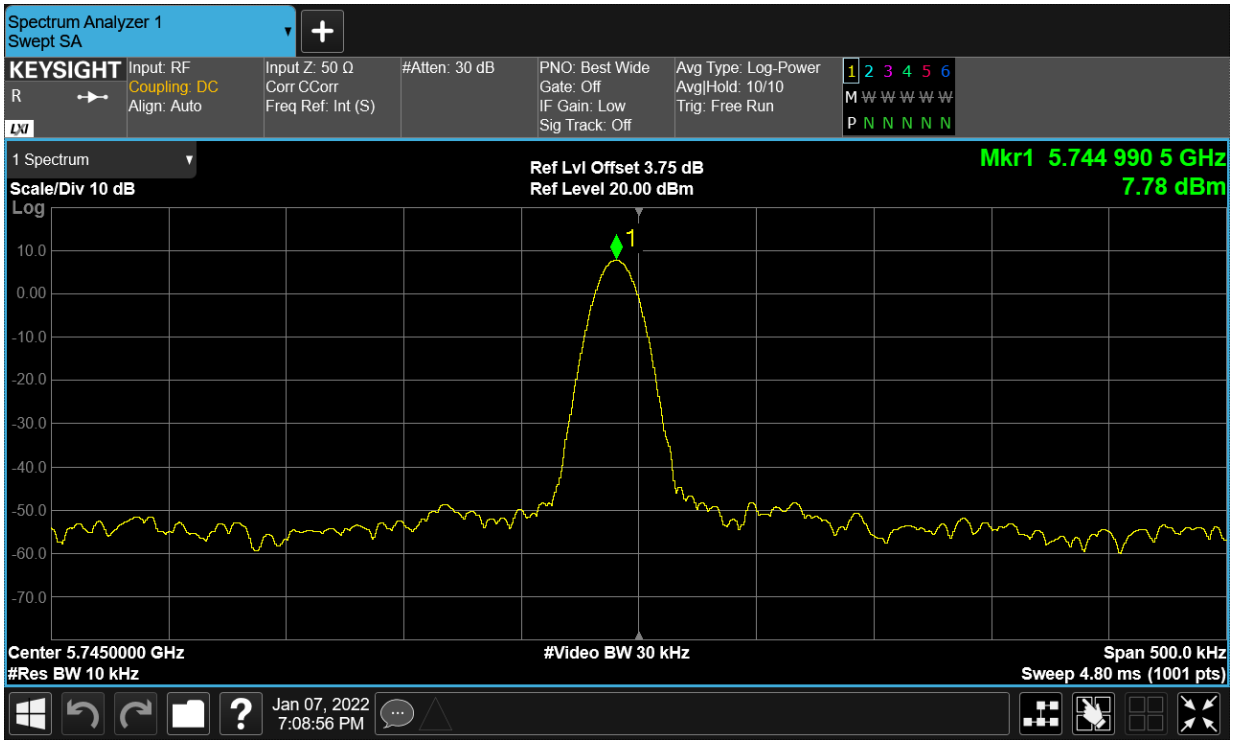
Freq. Stability NVLT a 5745MHz Ant1



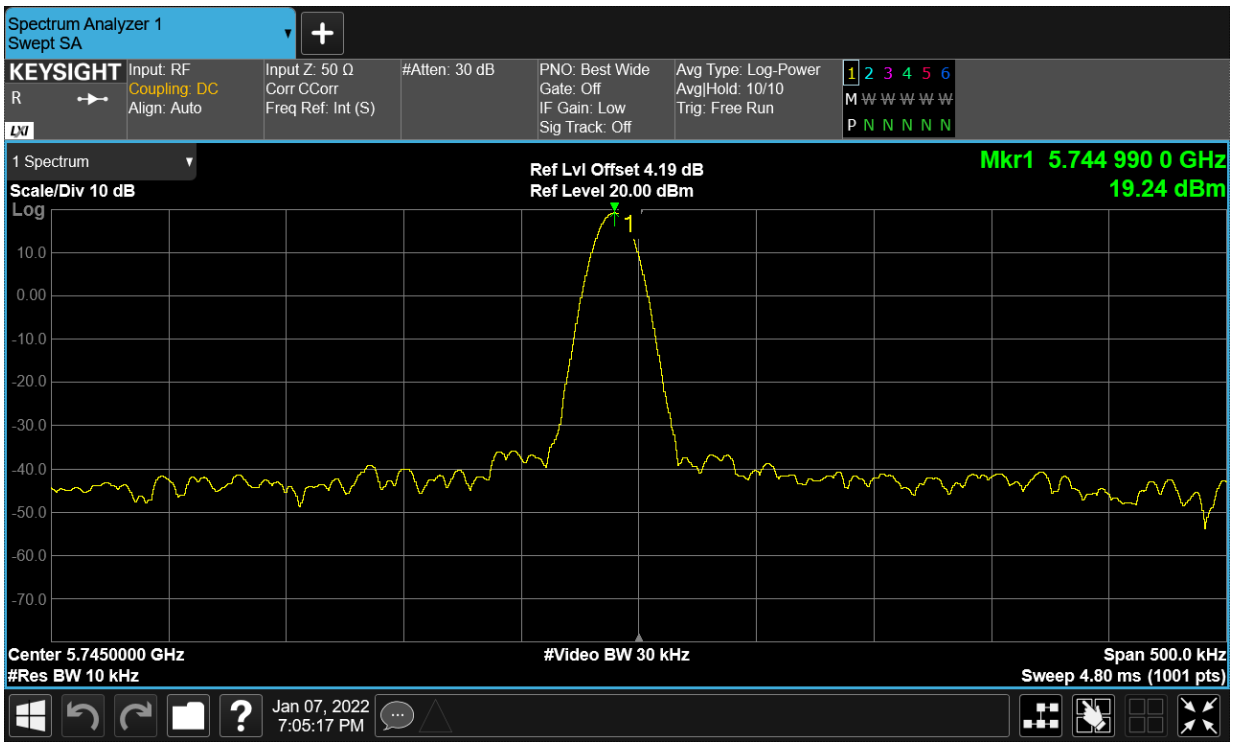
Freq. Stability NVLT a 5745MHz Ant2



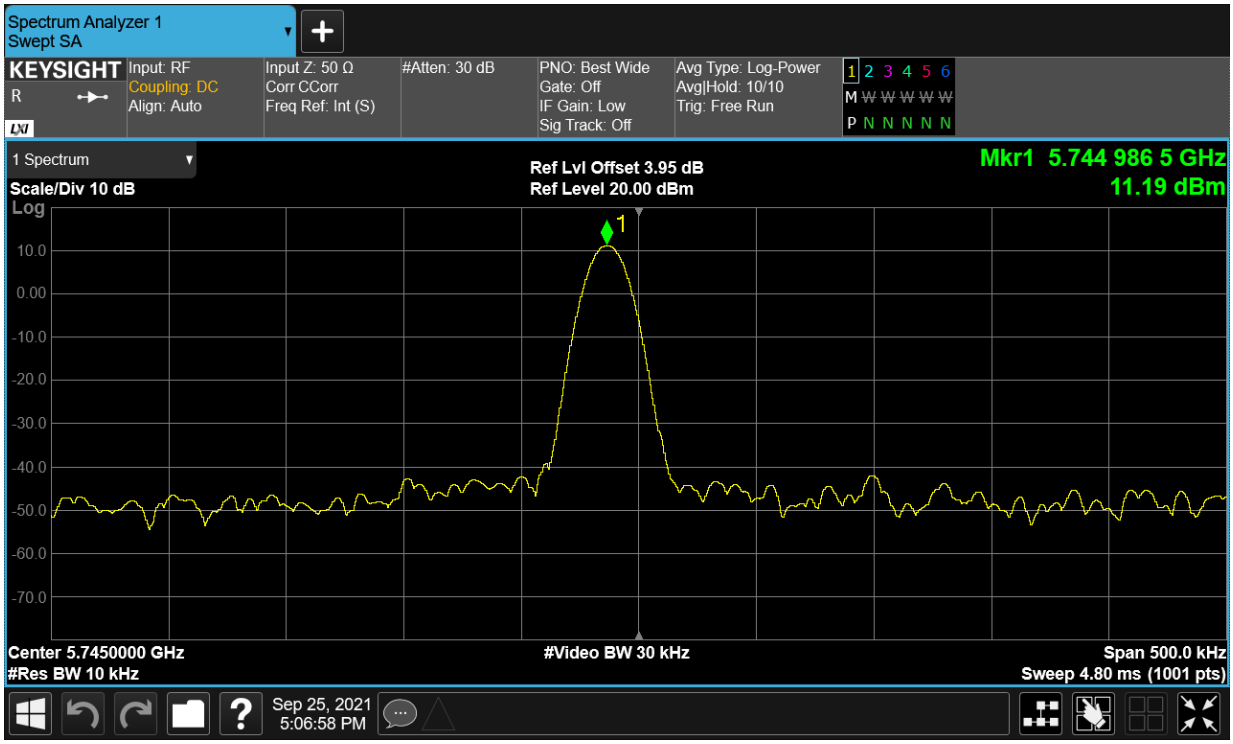
Freq. Stability NVNT a 5745MHz Ant1



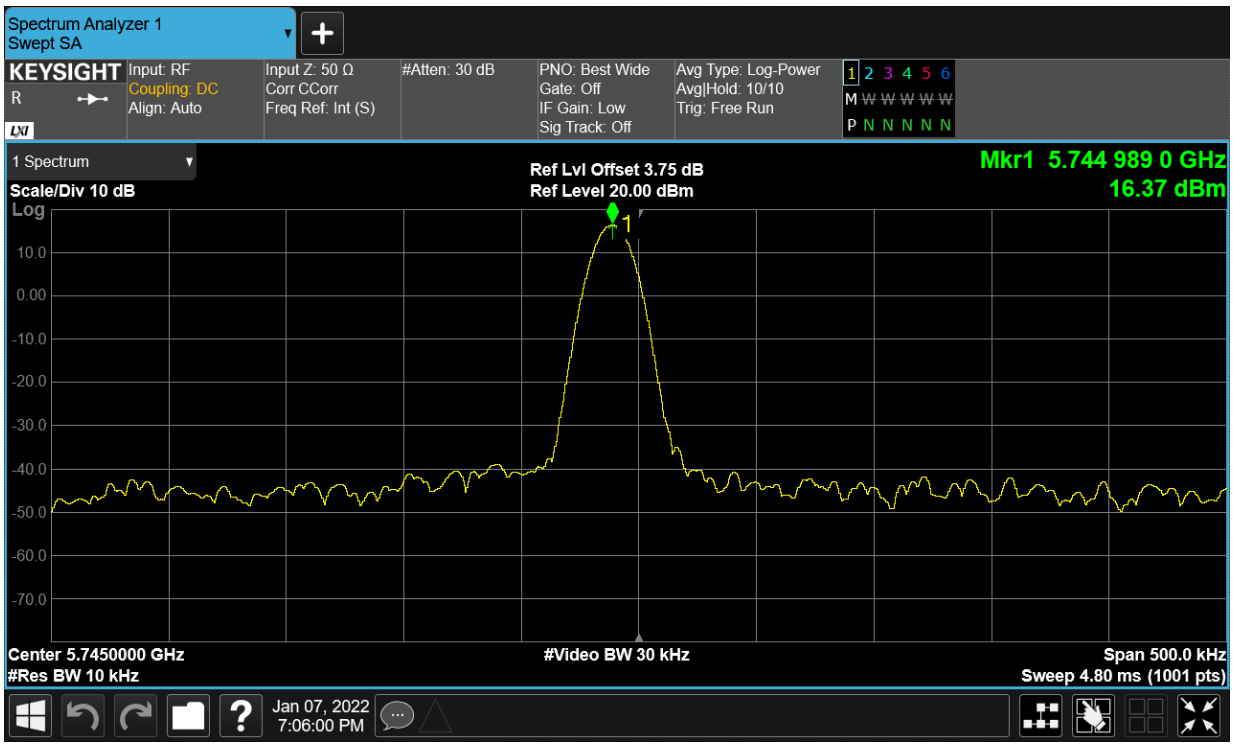
Freq. Stability NVNT a 5745MHz Ant2



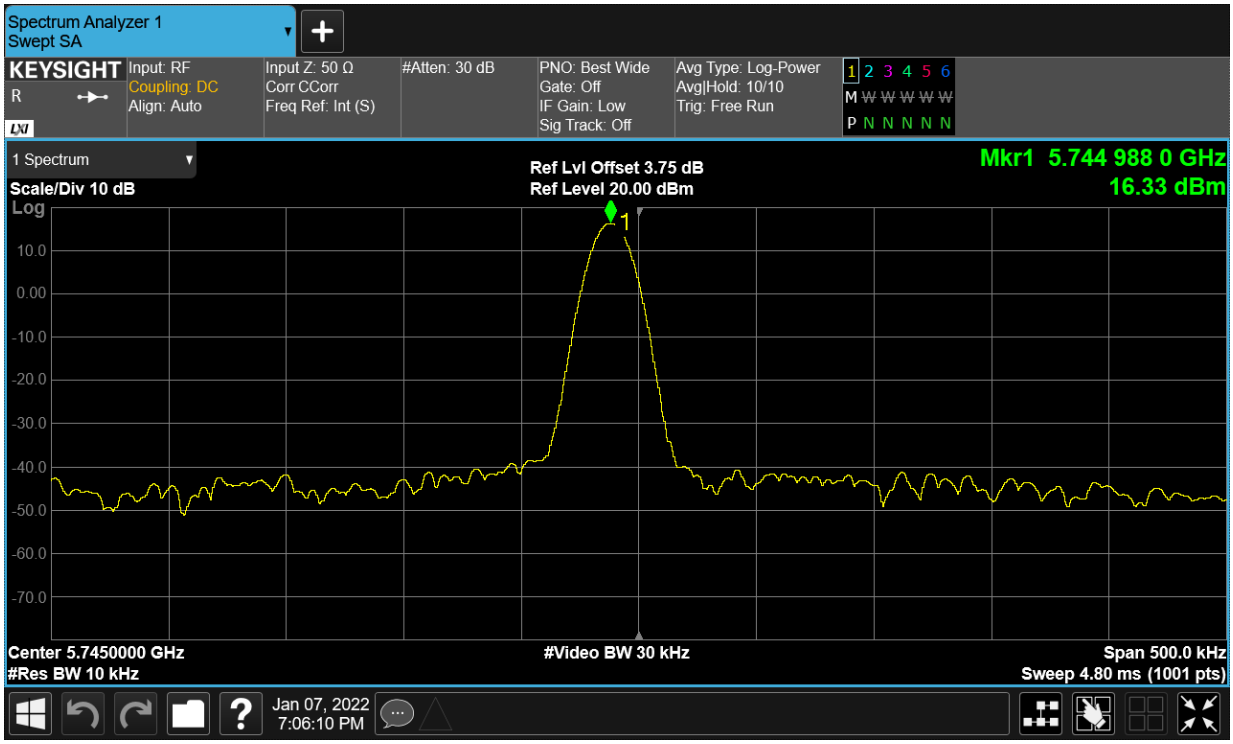
Freq. Stability NVNT a 5745MHz Sum



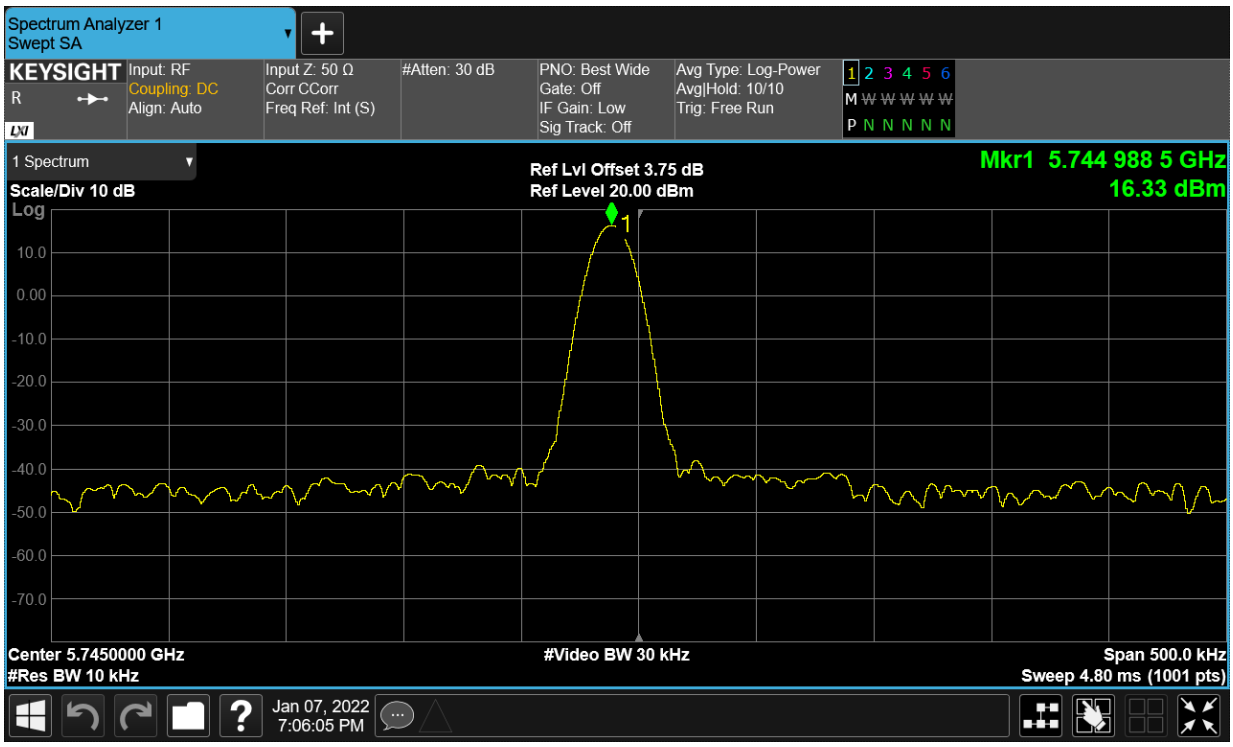
Freq. Stability HVNT ac20 5745MHz Sum



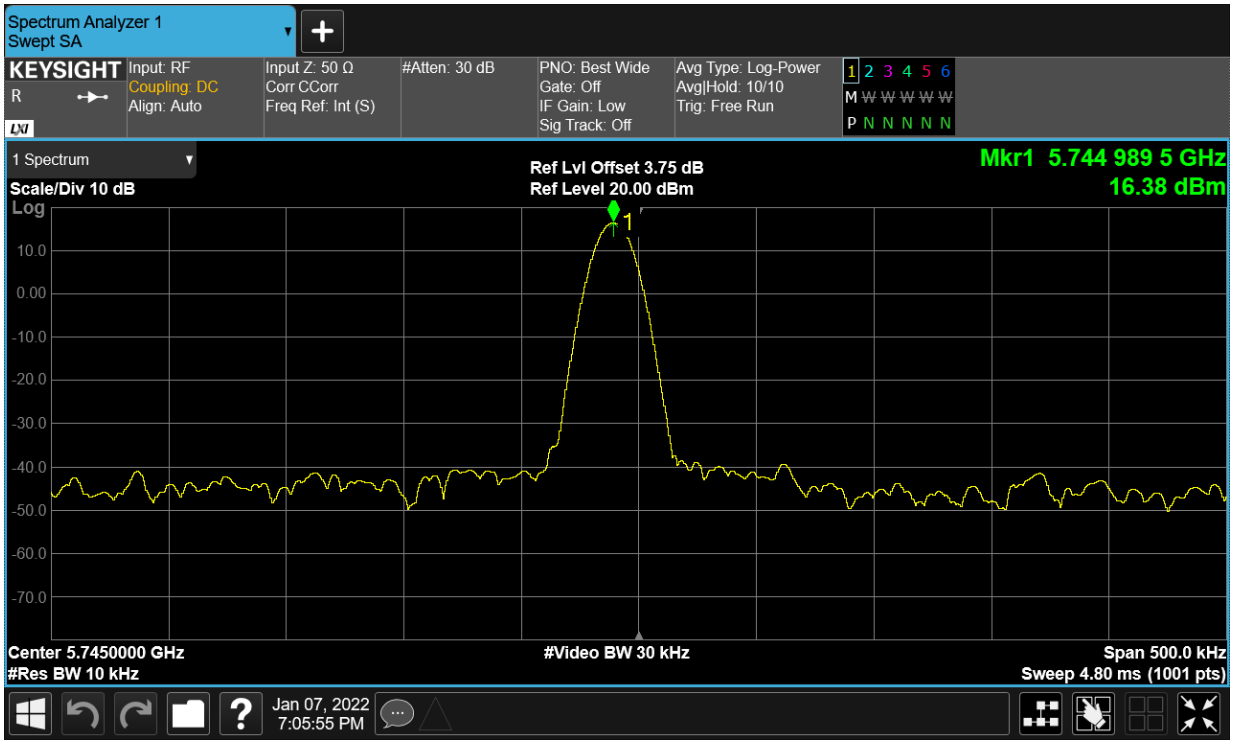
Freq. Stability LVNT ac20 5745MHz Sum



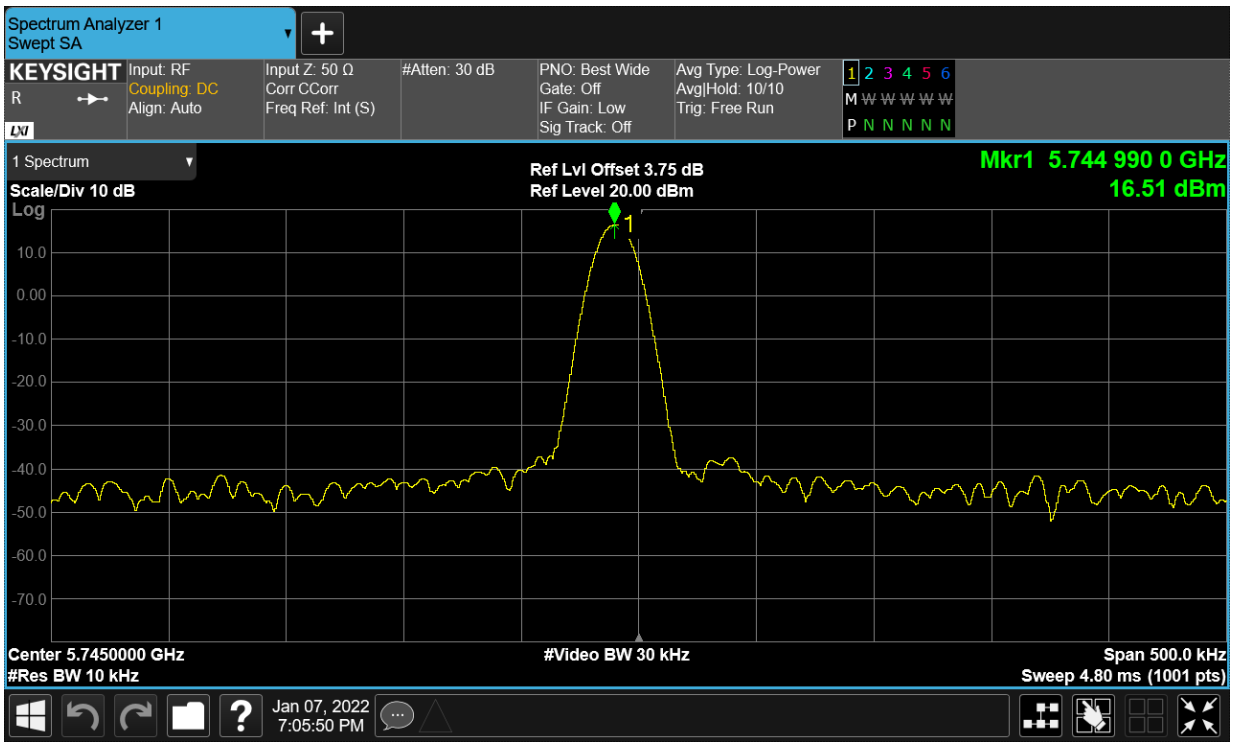
Freq. Stability NVHT ac20 5745MHz Sum



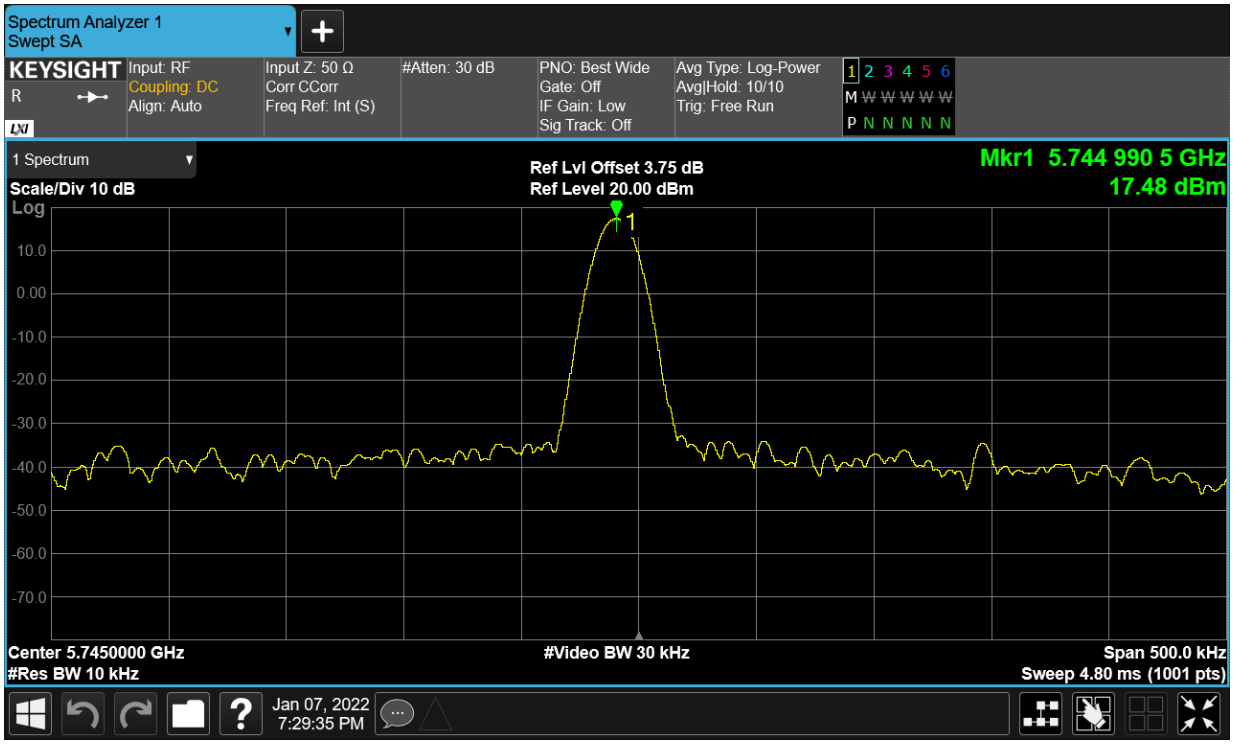
Freq. Stability NVLT ac20 5745MHz Sum



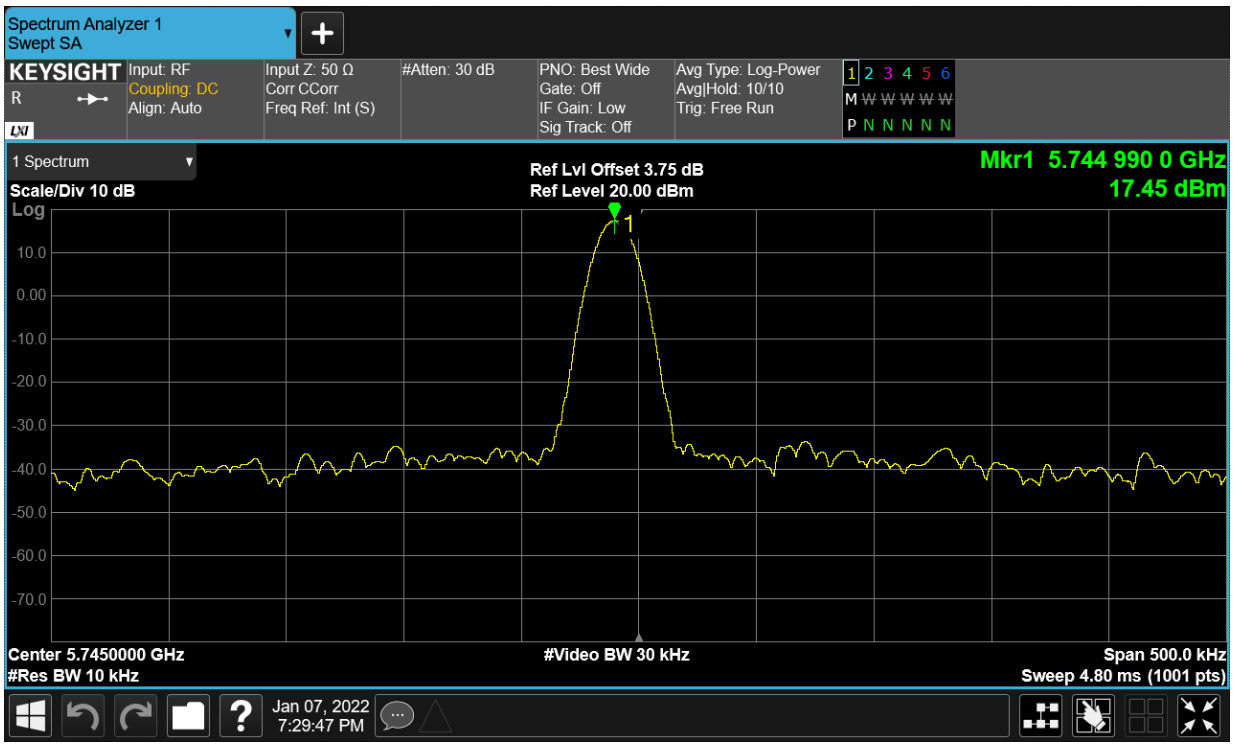
Freq. Stability NVNT ac20 5745MHz Sum



Freq. Stability HVNT ax20 5745MHz Sum

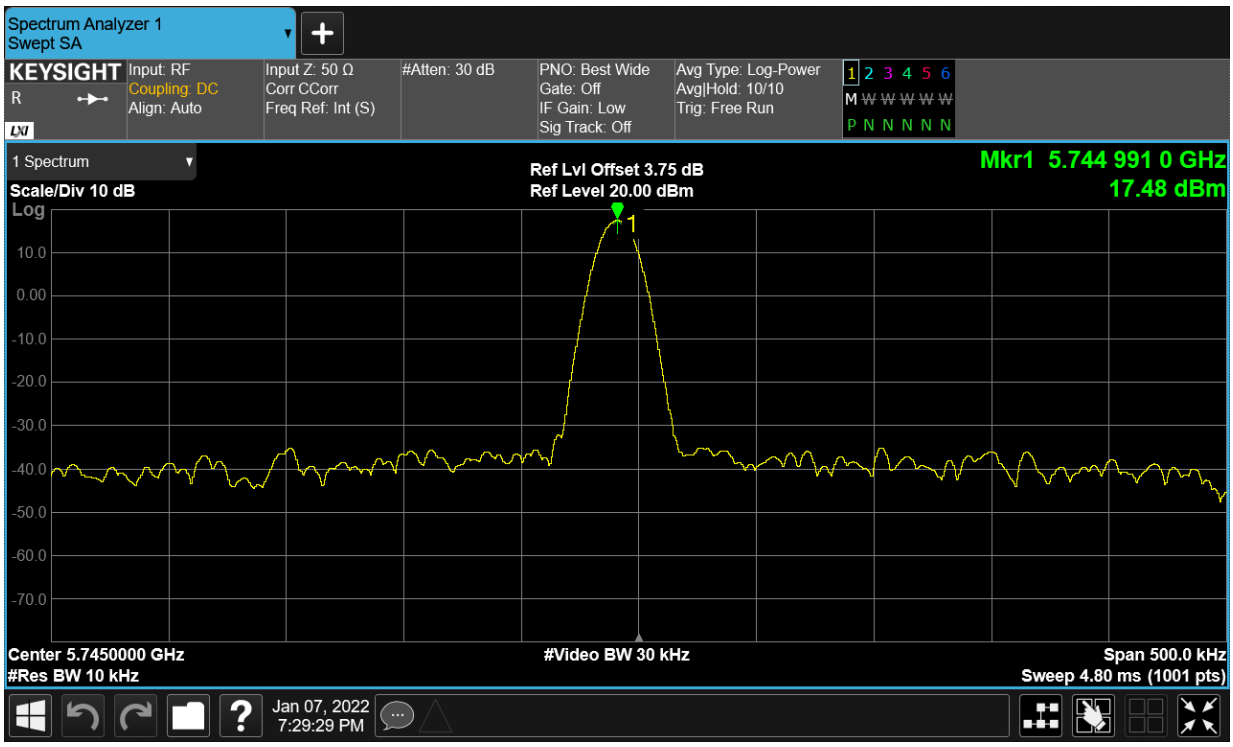


Freq. Stability LVNT ax20 5745MHz Sum

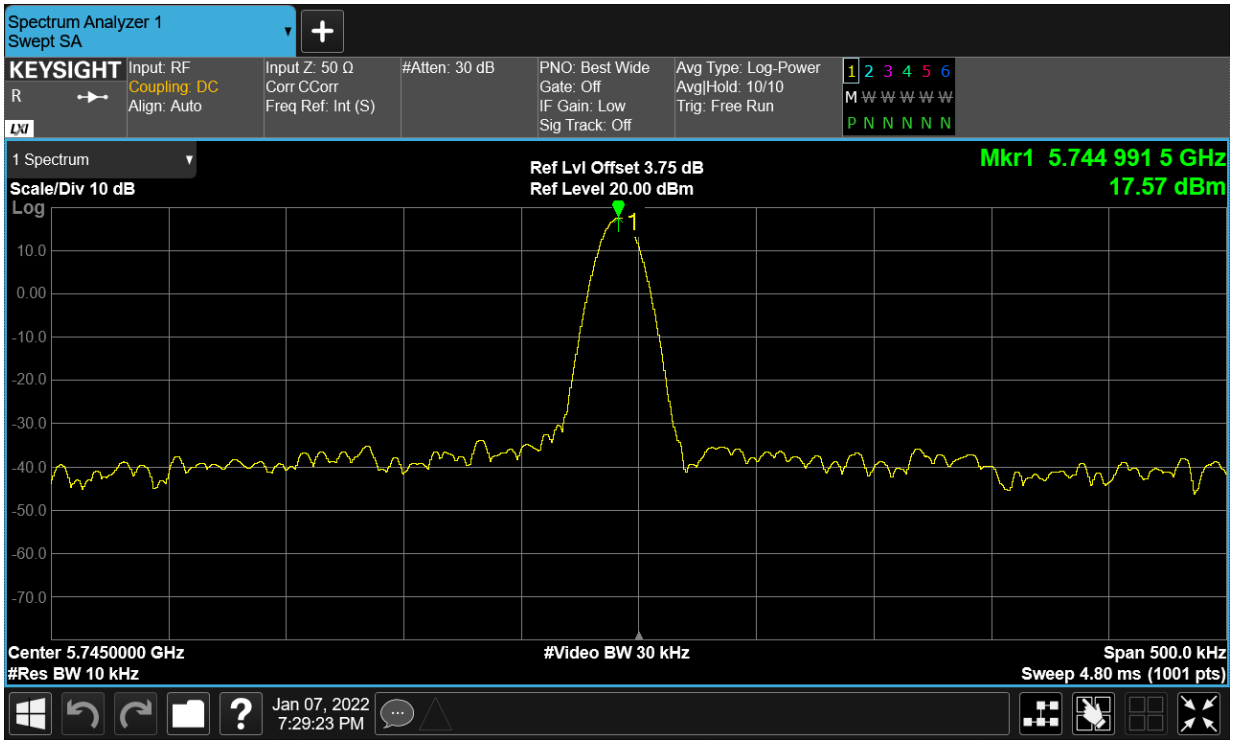


Freq. Stability NVHT ax20 5745MHz Sum

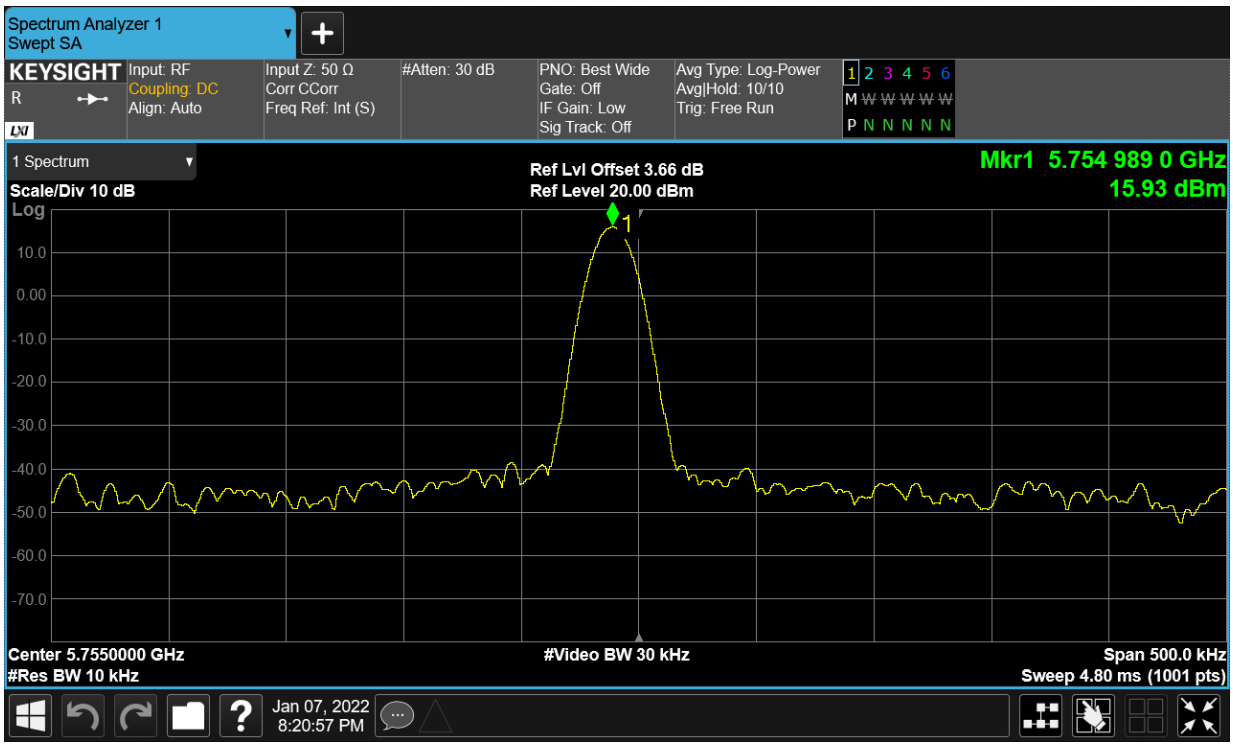
Freq. Stability NVLT ax20 5745MHz Sum



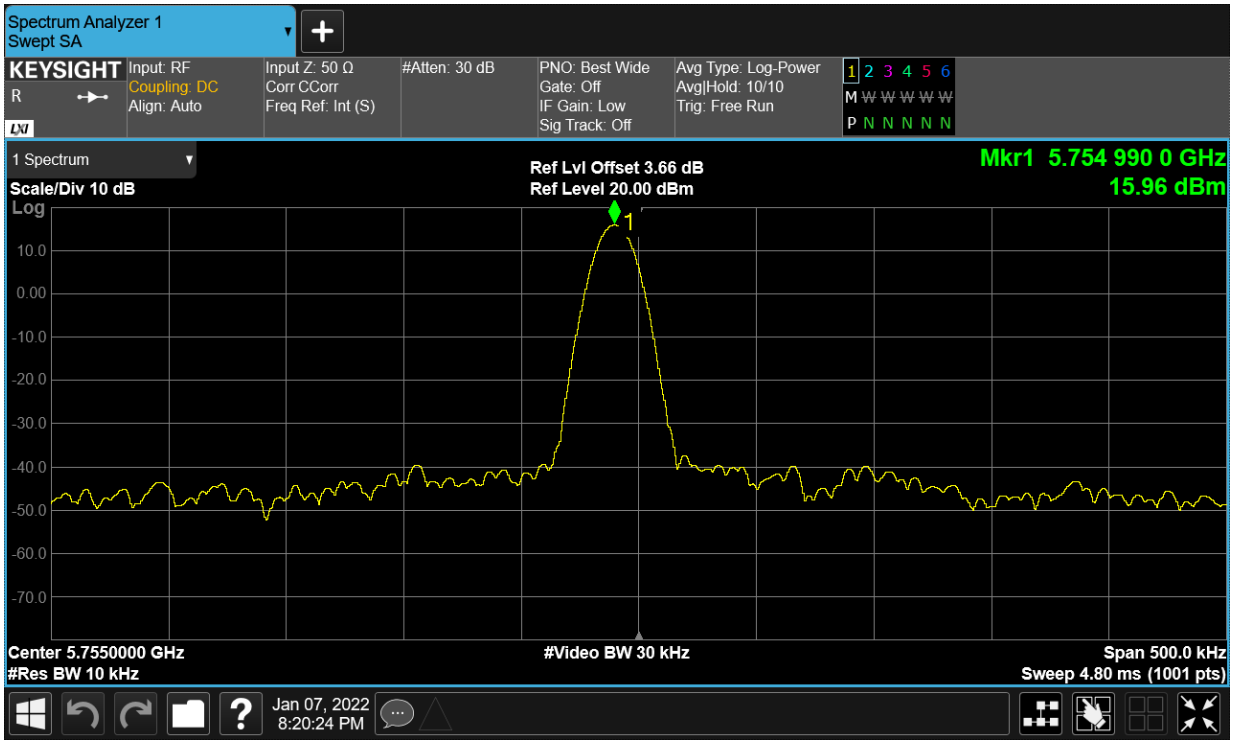
Freq. Stability NVNT ax20 5745MHz Sum



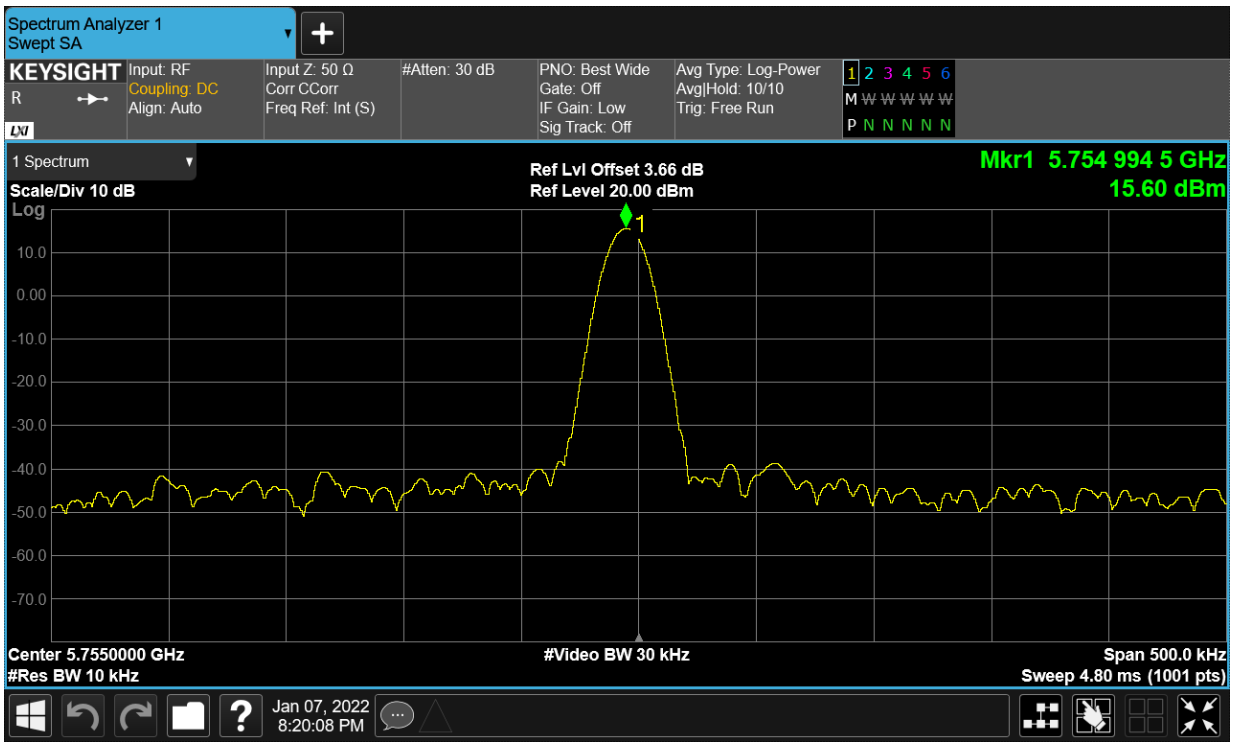
Freq. Stability HVNT ax40 5755MHz Sum



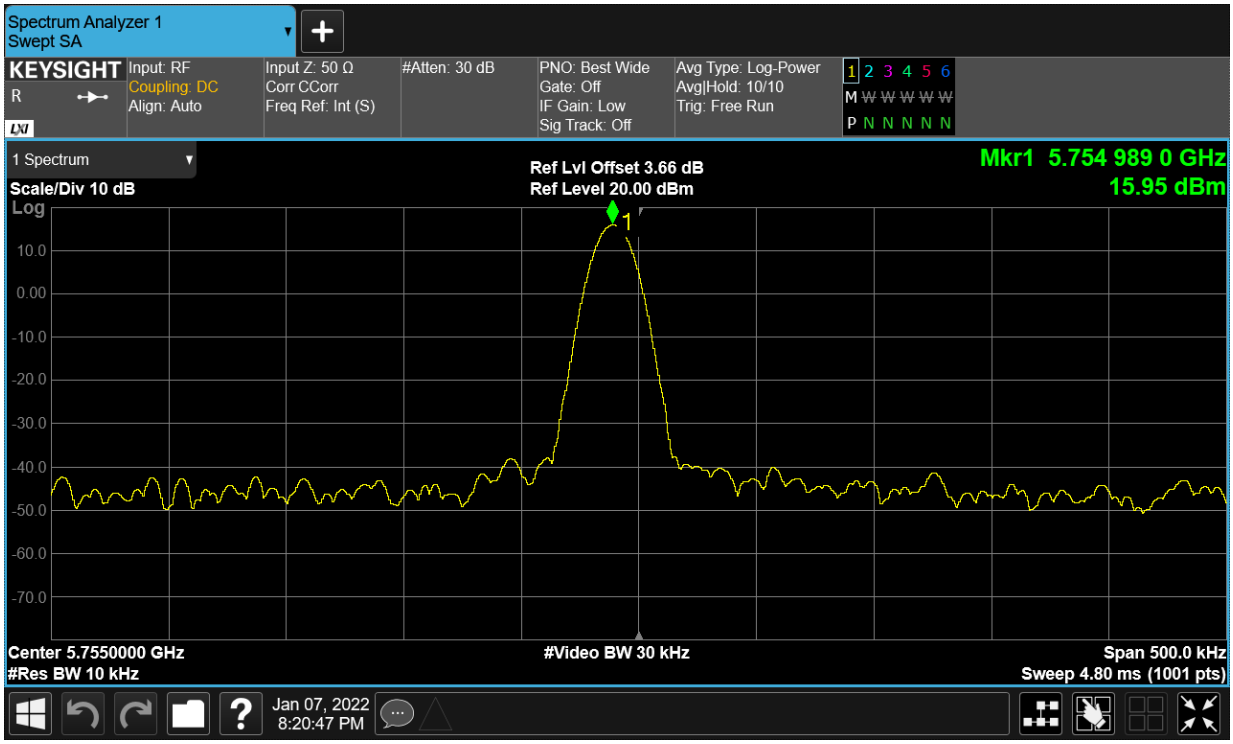
Freq. Stability LVNT ax40 5755MHz Sum



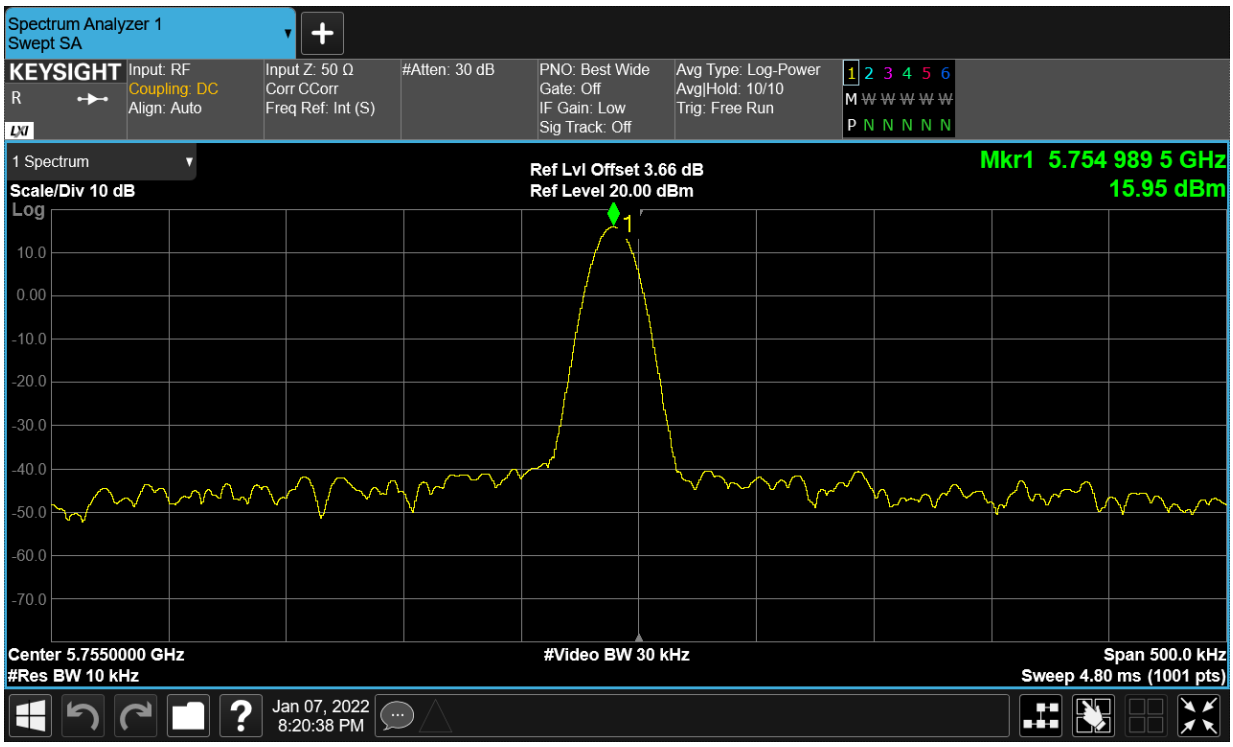
Freq. Stability NVHT ax40 5755MHz Sum



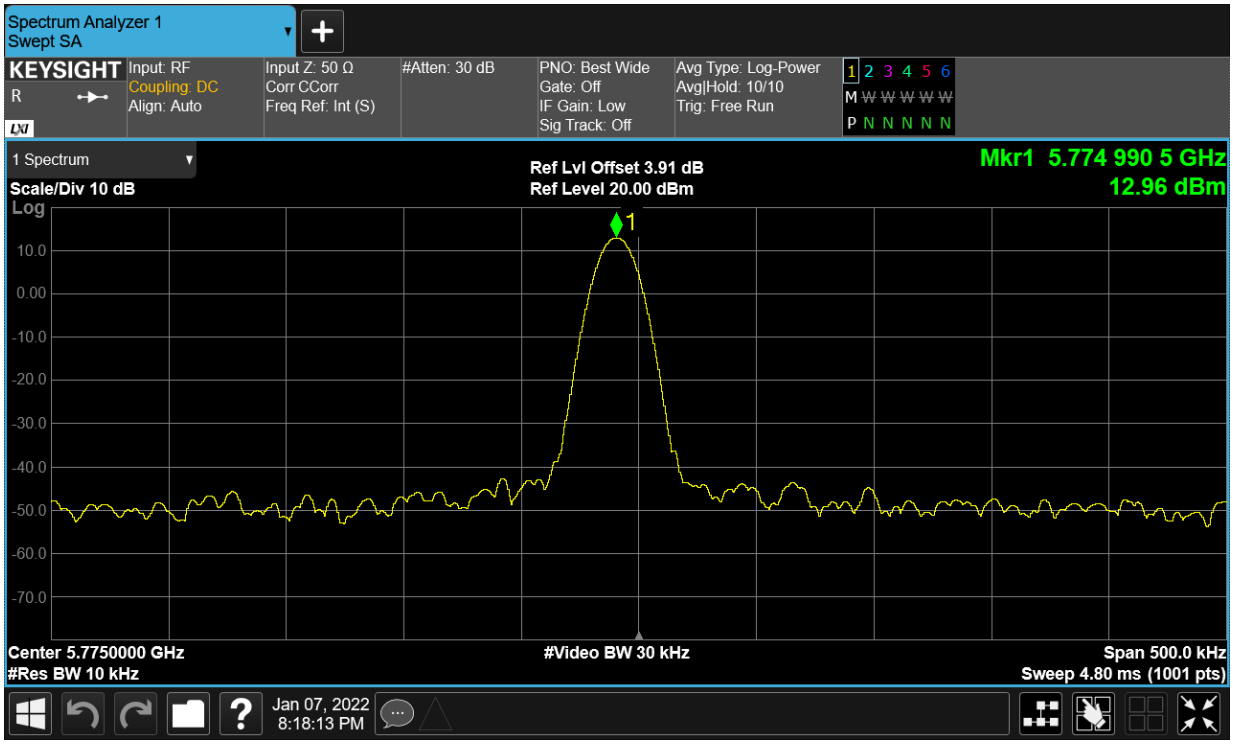
Freq. Stability NVLT ax40 5755MHz Sum



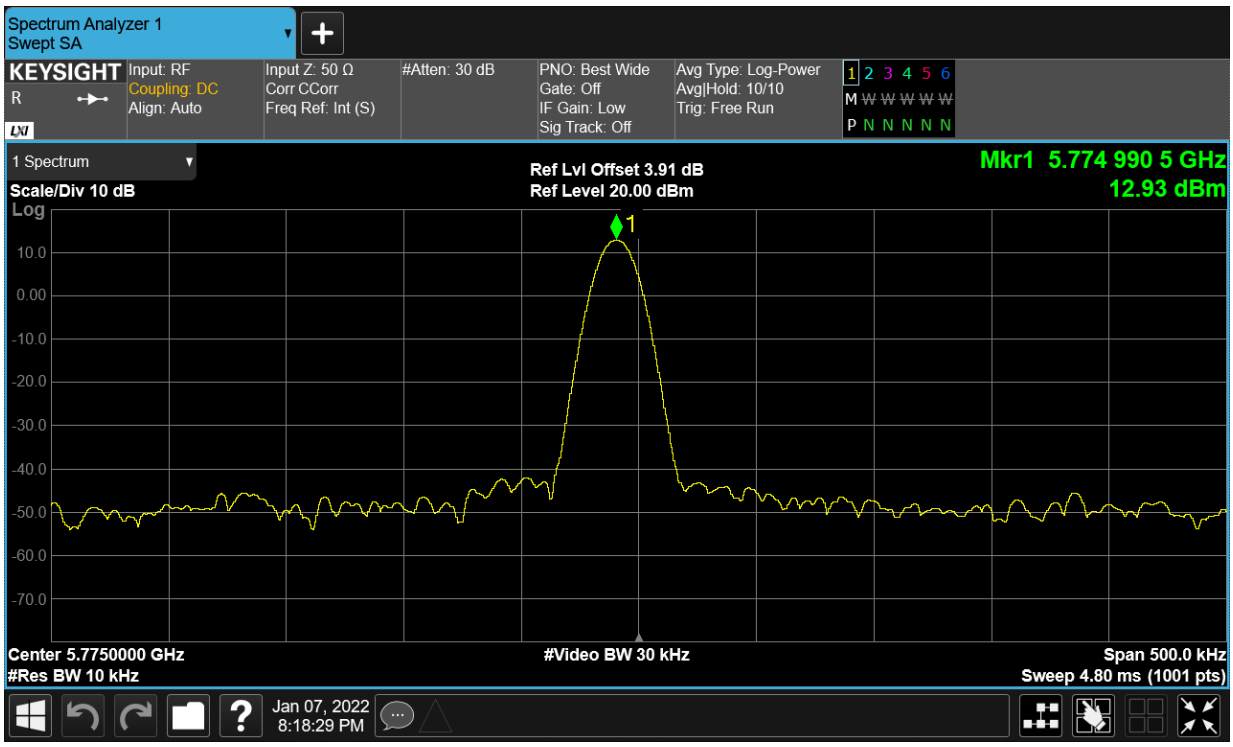
Freq. Stability NVNT ax40 5755MHz Sum



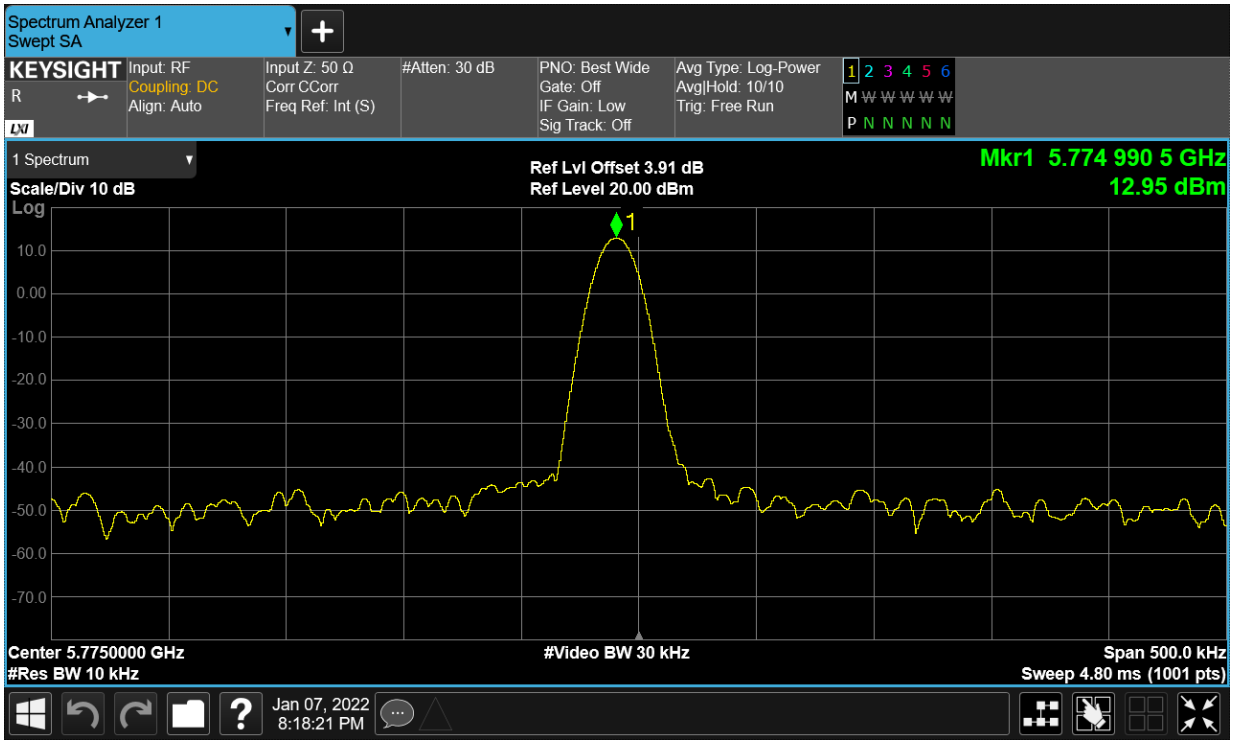
Freq. Stability HVNT ax80 5775MHz Sum



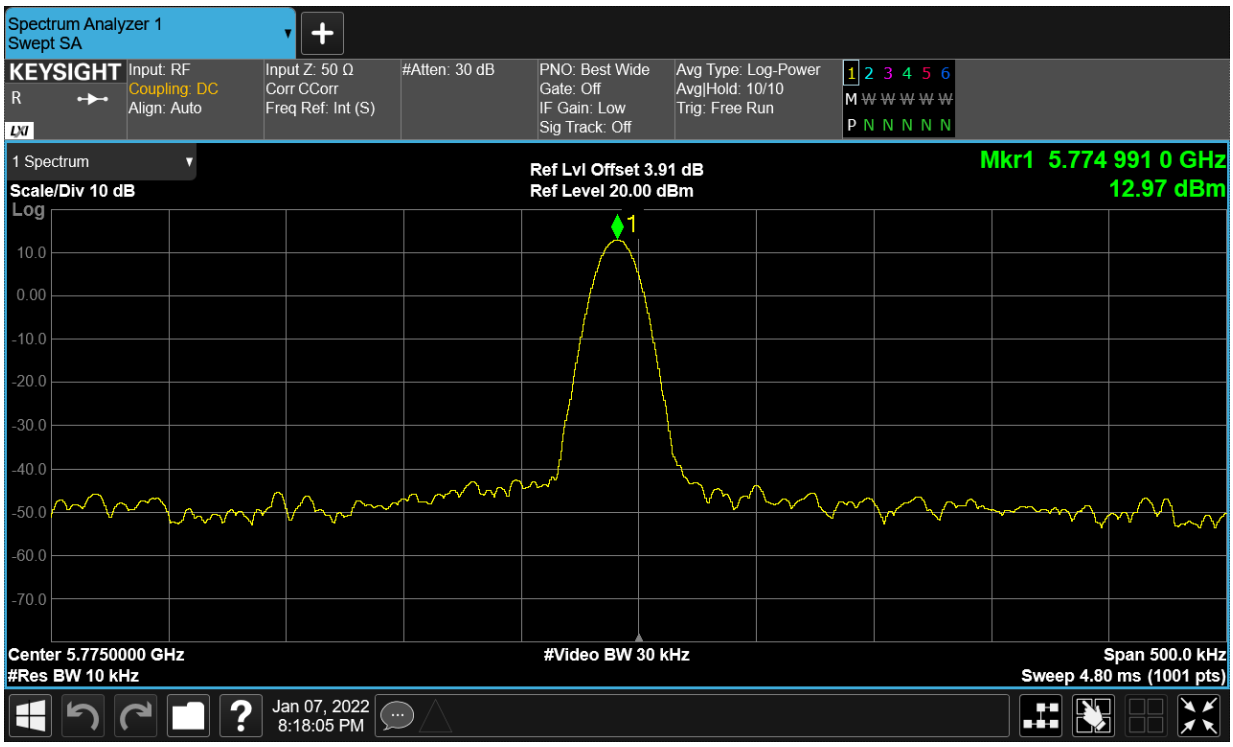
Freq. Stability LVNT ax80 5775MHz Sum



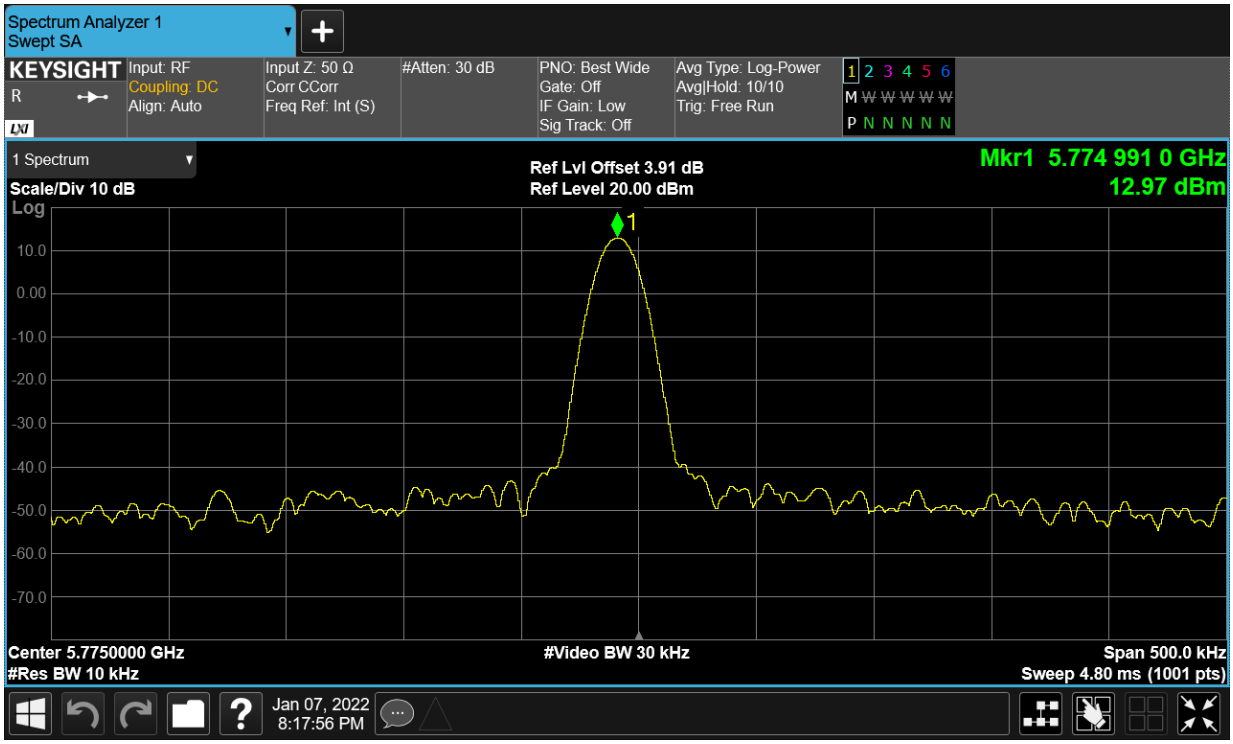
Freq. Stability NVHT ax80 5775MHz Sum



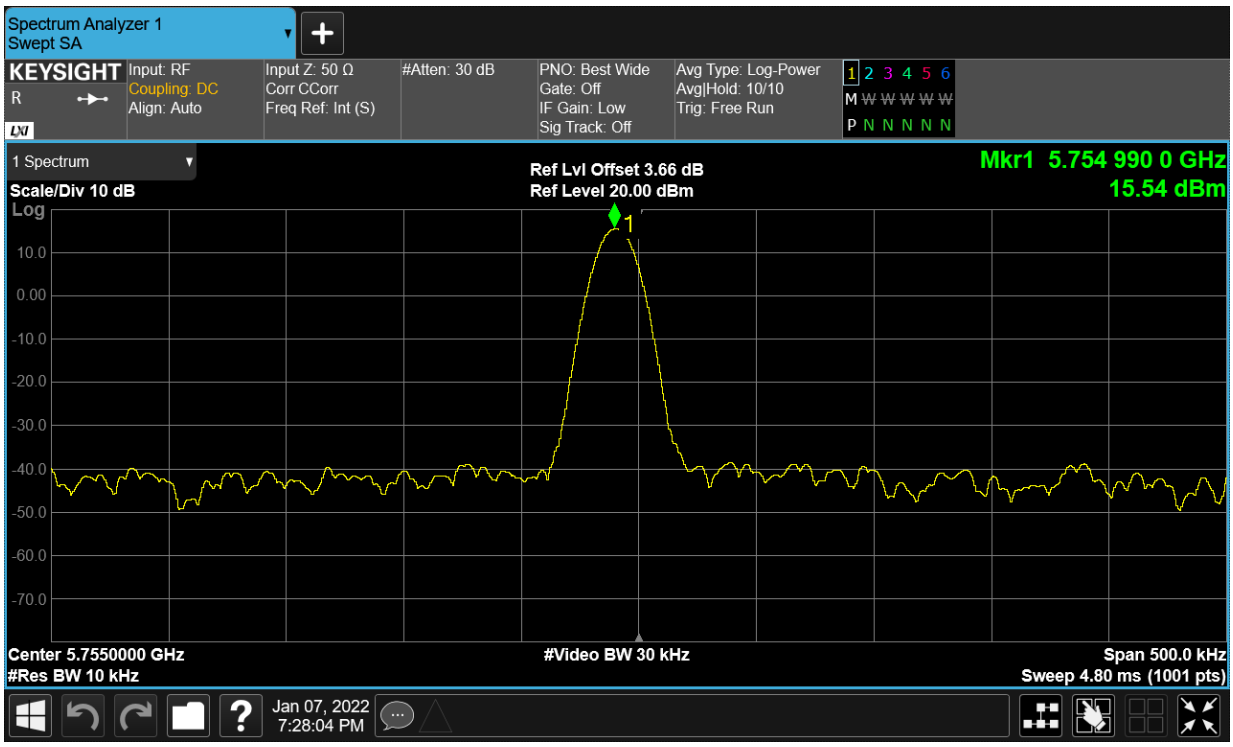
Freq. Stability NVLT ax80 5775MHz Sum



Freq. Stability NVNT ax80 5775MHz Sum

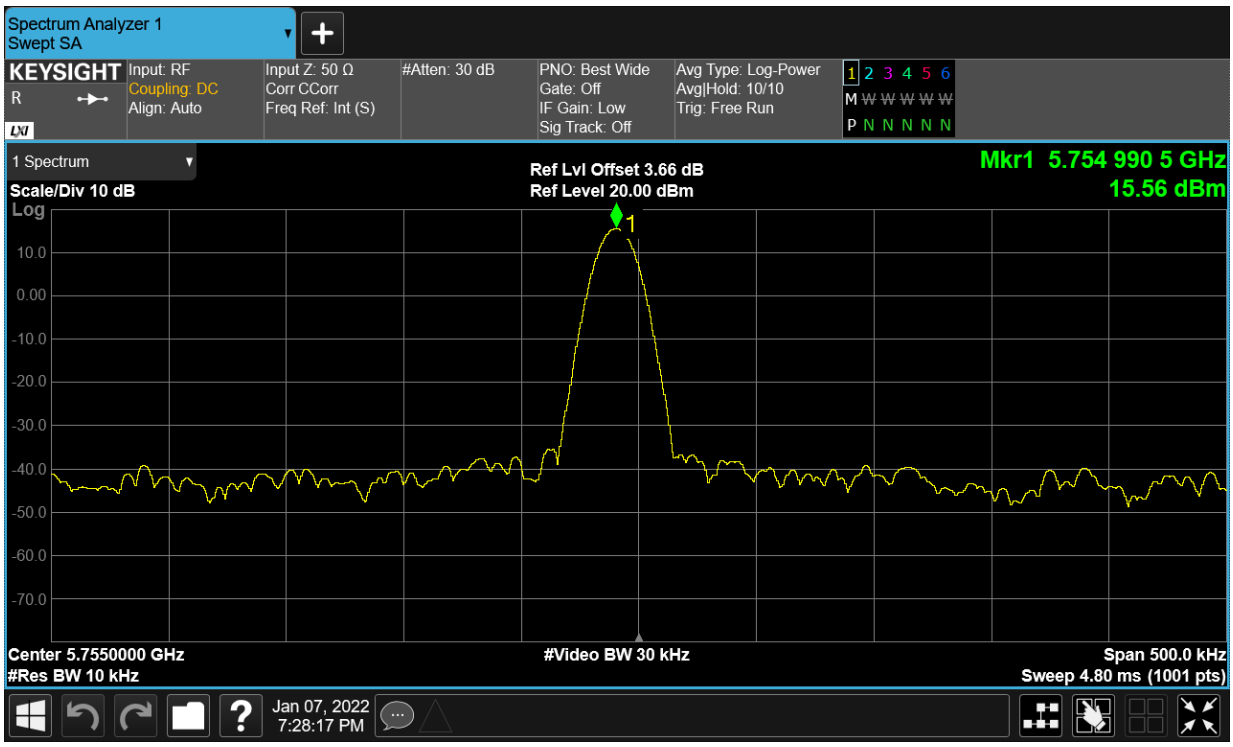


Freq. Stability HVNT n40 5755MHz Ant1

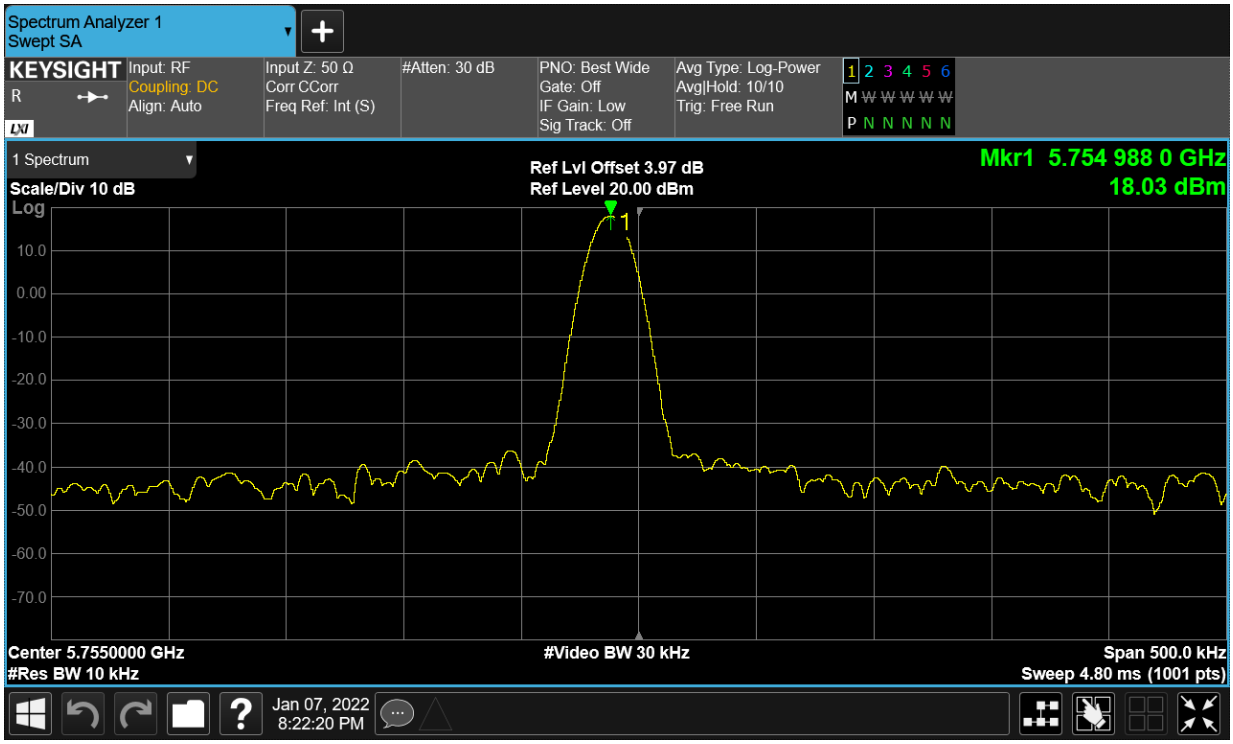


Freq. Stability HVNT n40 5755MHz Ant2

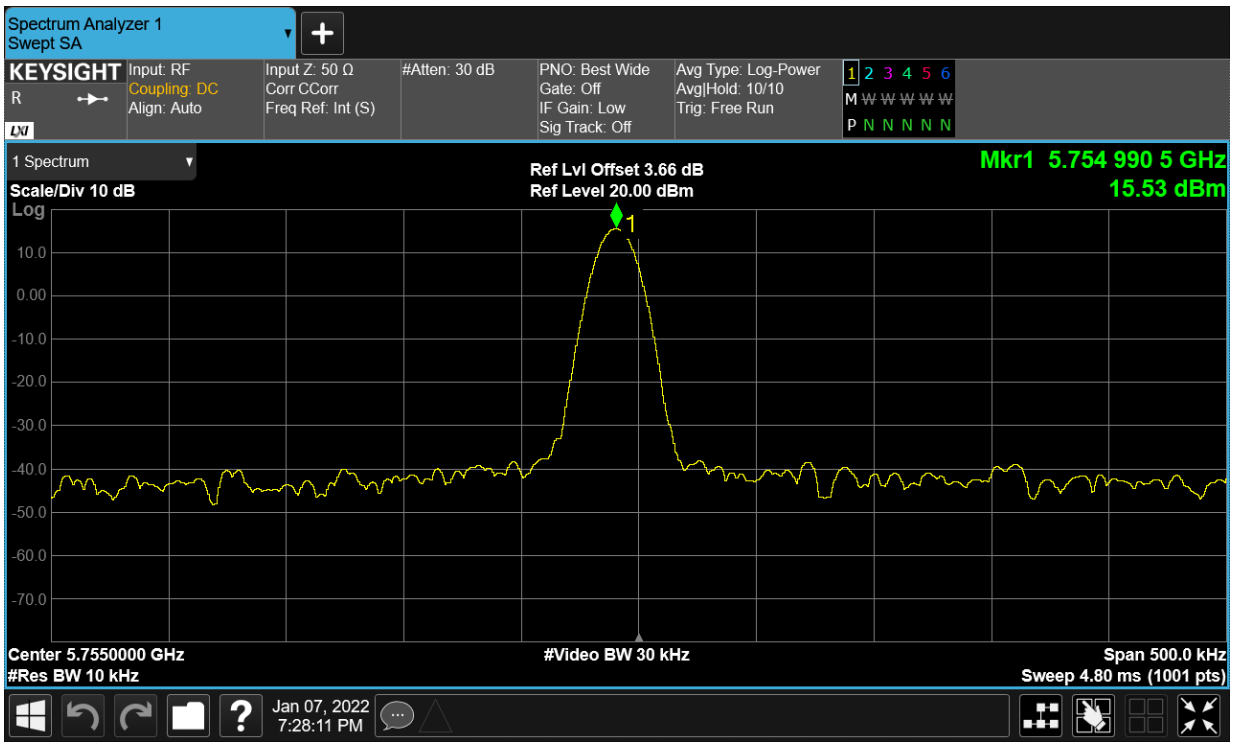
Freq. Stability LVNT n40 5755MHz Ant1



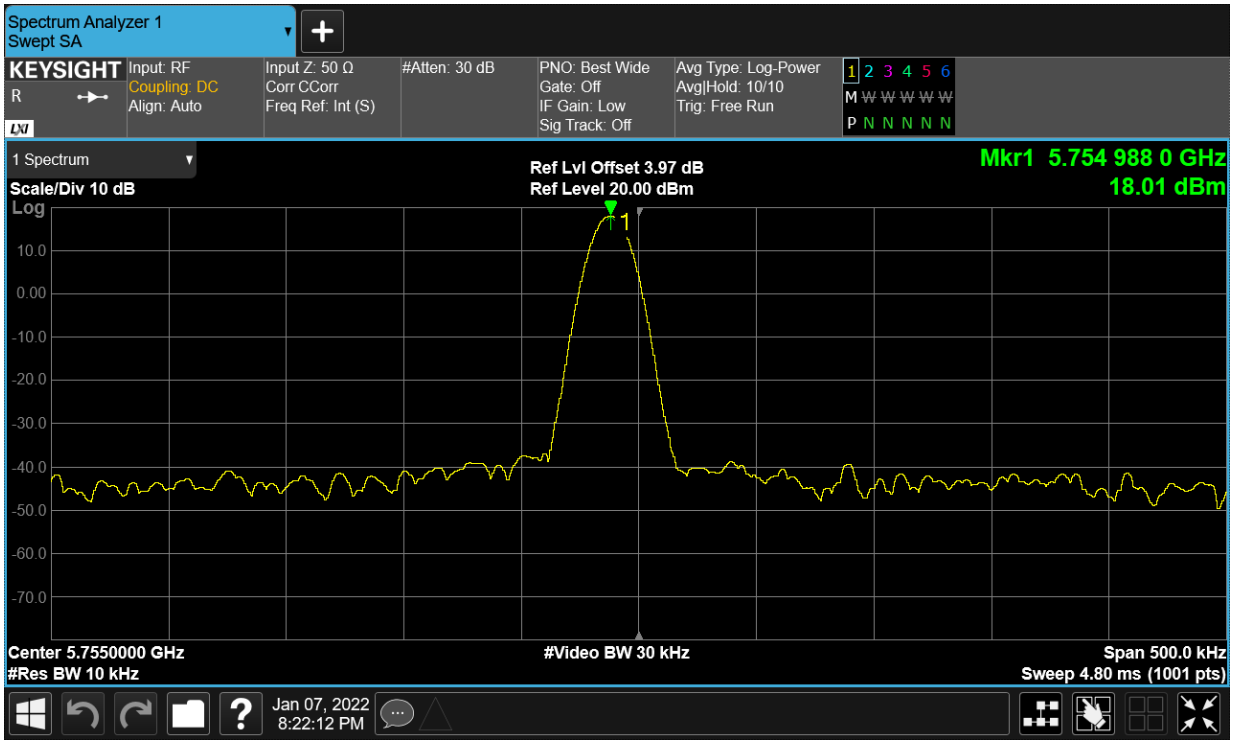
Freq. Stability LVNT n40 5755MHz Ant2



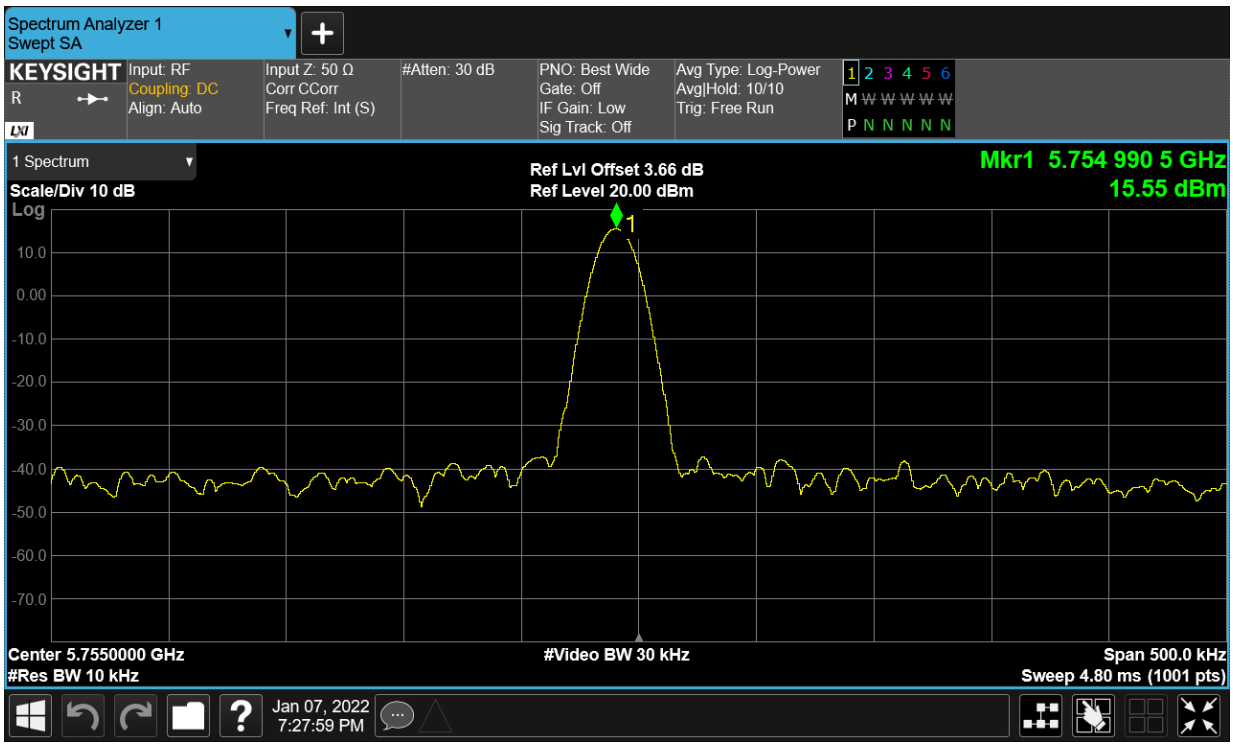
Freq. Stability NVHT n40 5755MHz Ant1



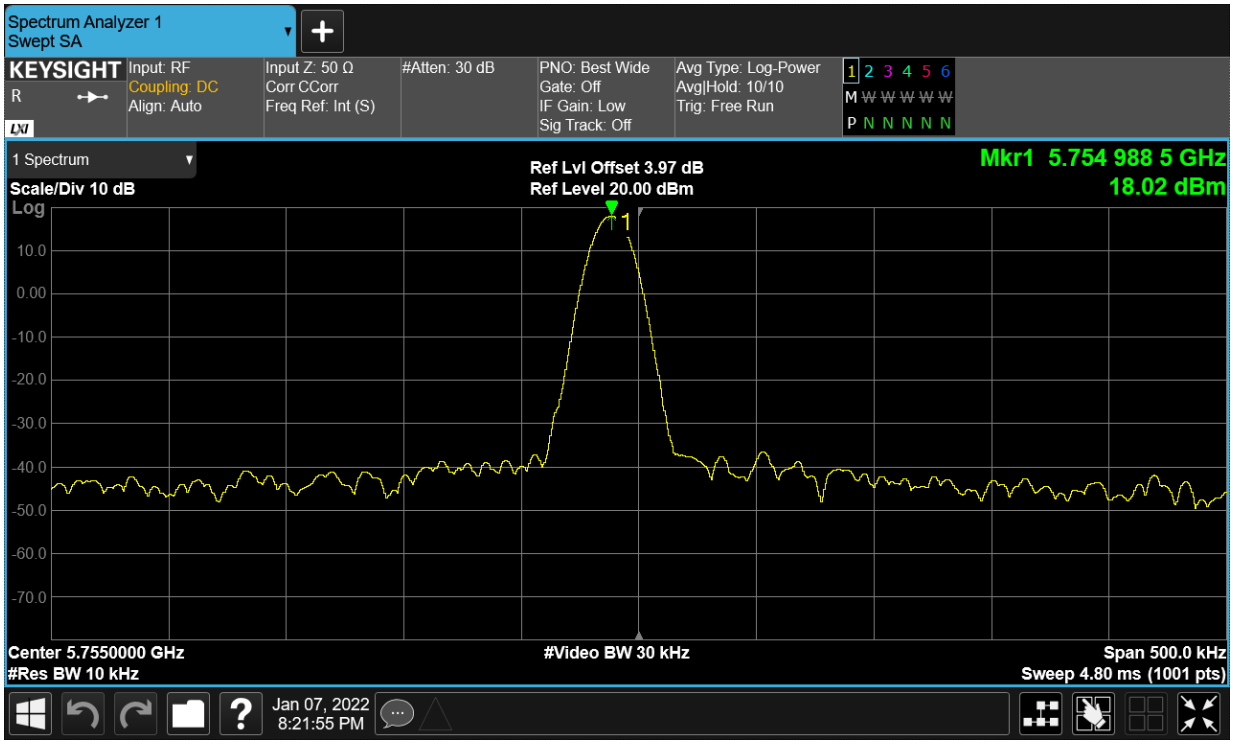
Freq. Stability NVHT n40 5755MHz Ant2



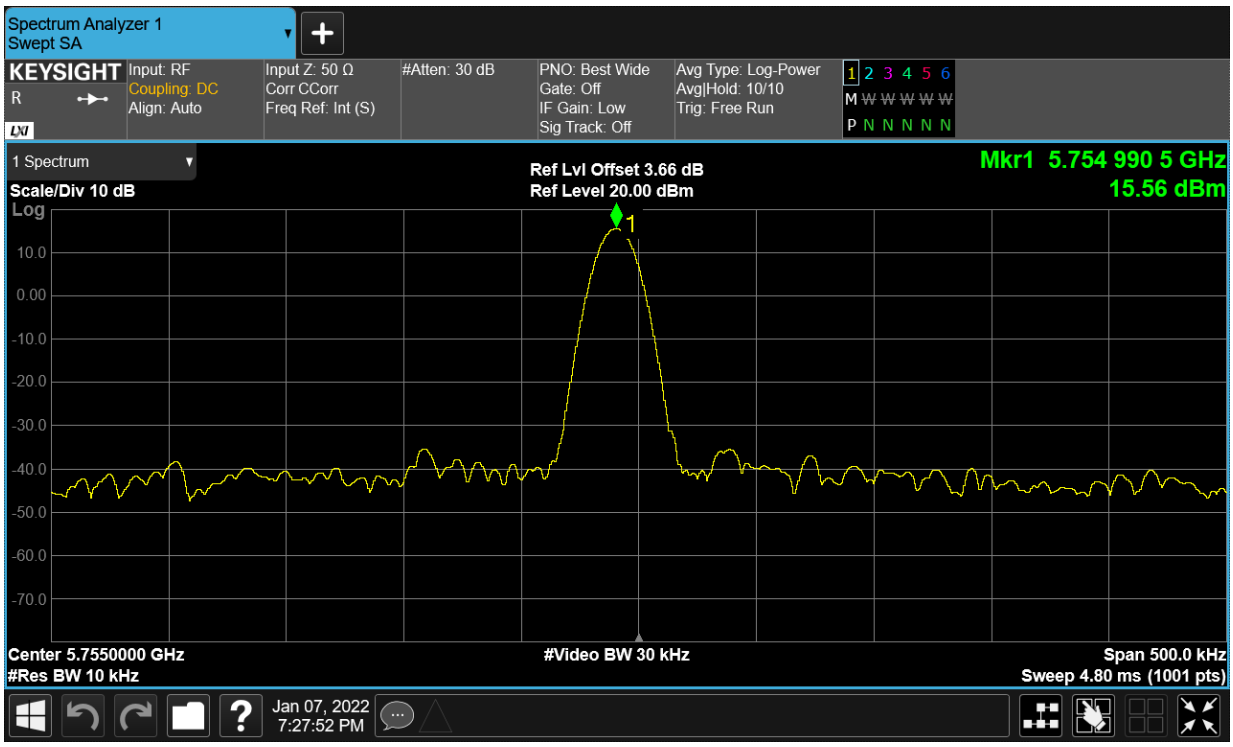
Freq. Stability NVLT n40 5755MHz Ant1



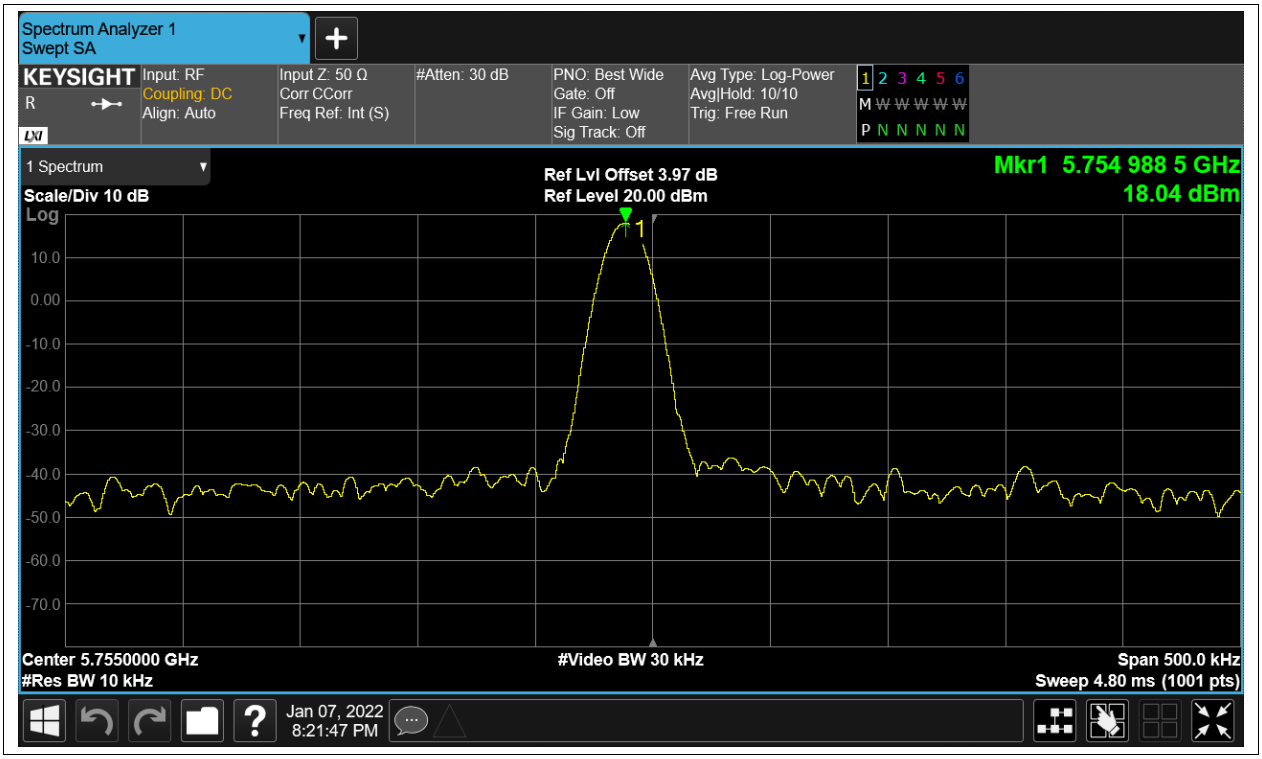
Freq. Stability NVLT n40 5755MHz Ant2



Freq. Stability NVNT n40 5755MHz Ant1



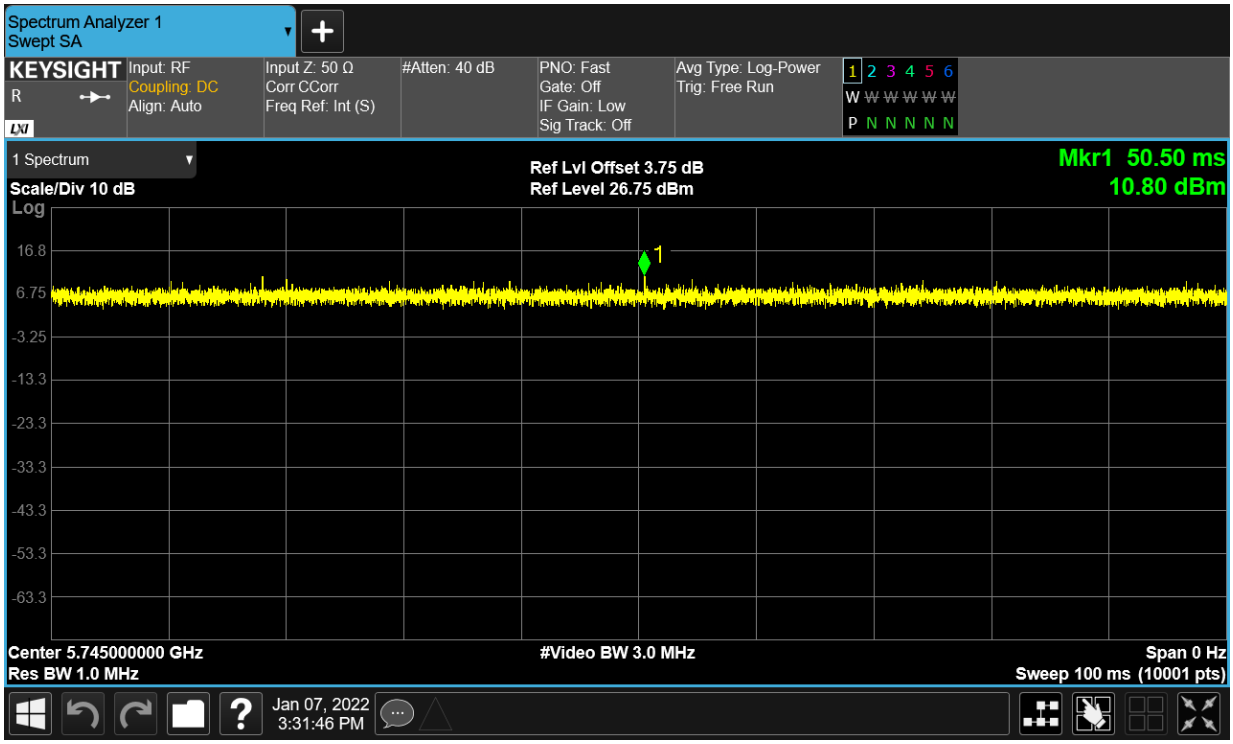
Freq. Stability NVNT n40 5755MHz Ant2


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 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
Ref Lvl Offset 3.97 dB
Ref Level 20.00 dBm
Mkr1 5.754 988 5 GHz
18.04 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Jan 07, 2022
8:21:47 PM

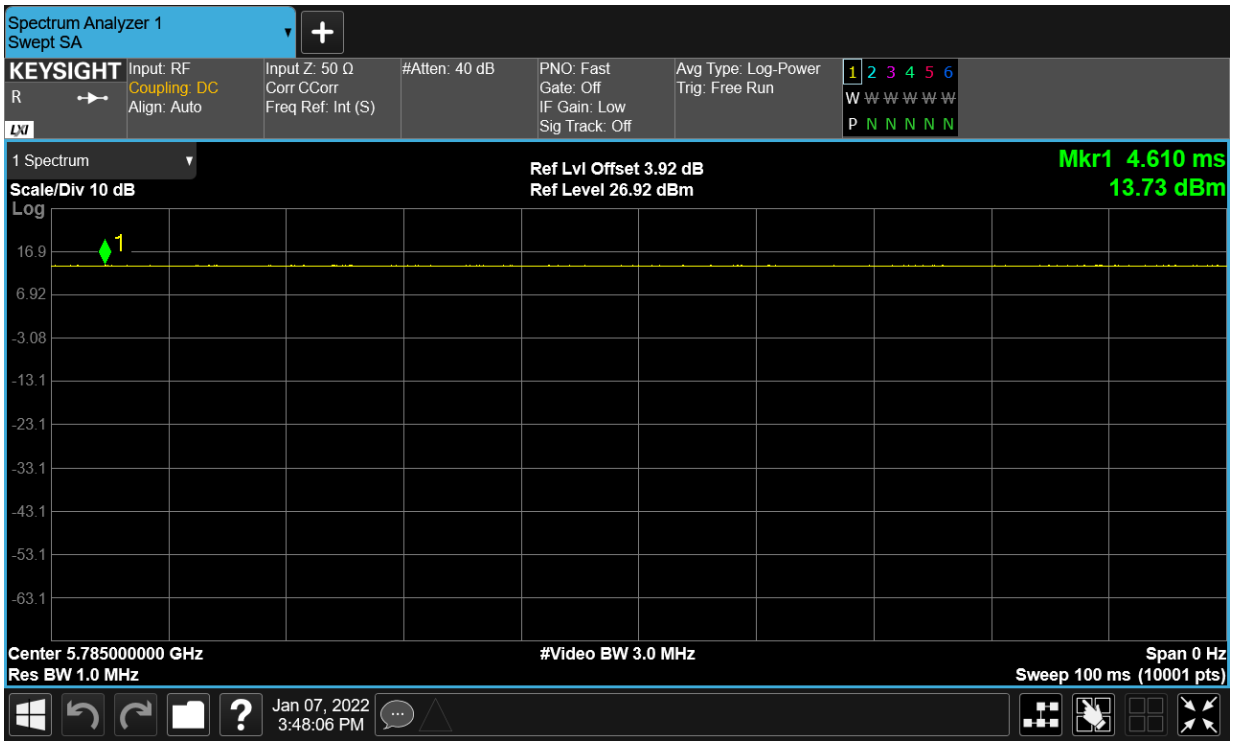
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	a	5745	Ant2	100	0
NVNT	a	5785	Ant2	100	0
NVNT	a	5825	Ant2	100	0
NVNT	a	5745	Sum	100	0
NVNT	a	5785	Sum	100	0
NVNT	a	5825	Sum	100	0
NVNT	ac20	5745	Sum	100	0
NVNT	ac20	5785	Sum	100	0
NVNT	ac20	5825	Sum	100	0
NVNT	ac40	5755	Sum	100	0
NVNT	ac40	5795	Sum	100	0
NVNT	ac80	5775	Sum	100	0
NVNT	ax20	5745	Sum	100	0
NVNT	ax20	5785	Sum	100	0
NVNT	ax20	5825	Sum	100	0
NVNT	ax40	5755	Sum	83.54	0.78
NVNT	ax40	5795	Sum	81.67	0.88
NVNT	ax80	5775	Sum	82.51	0.83
NVNT	n20	5745	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n20	5825	Ant1	100	0
NVNT	n20	5745	Ant2	100	0
NVNT	n20	5785	Ant2	100	0
NVNT	n20	5825	Ant2	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	n40	5795	Ant1	100	0
NVNT	n40	5755	Ant2	100	0
NVNT	n40	5795	Ant2	100	0

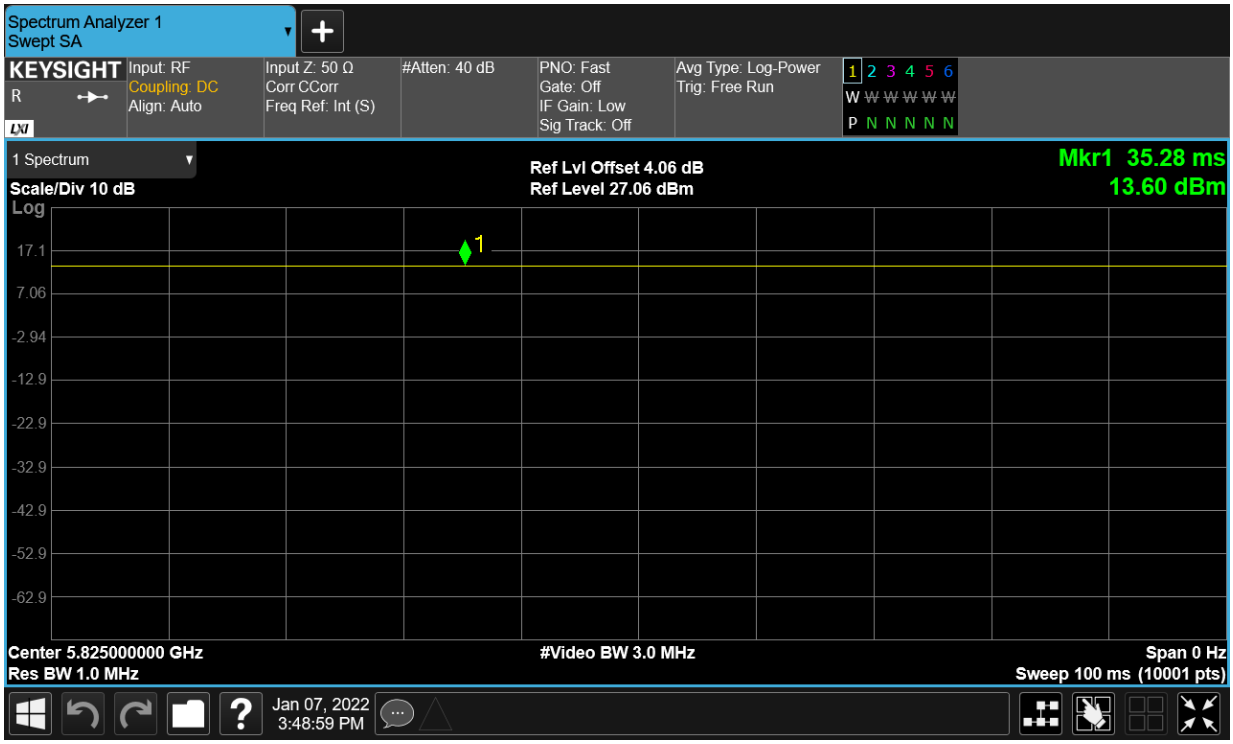
Test Graphs
Duty Cycle NVNT a 5745MHz Ant1



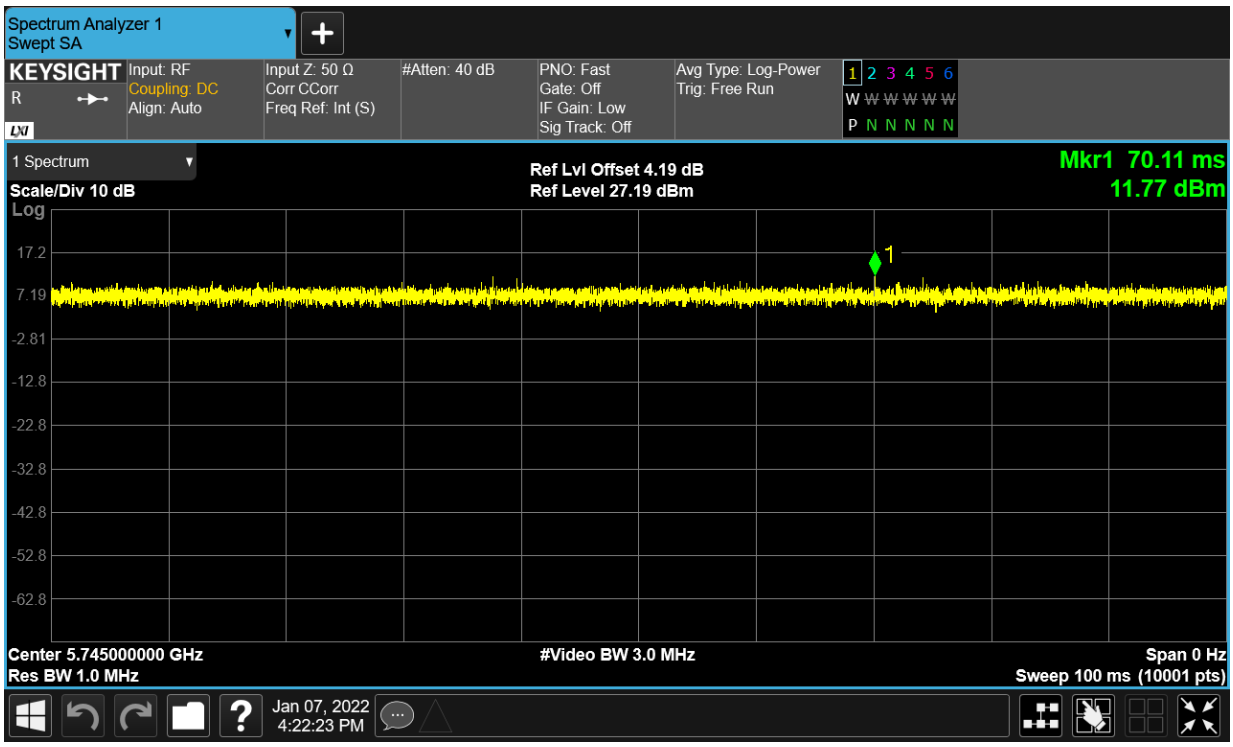
Duty Cycle NVNT a 5785MHz Ant1



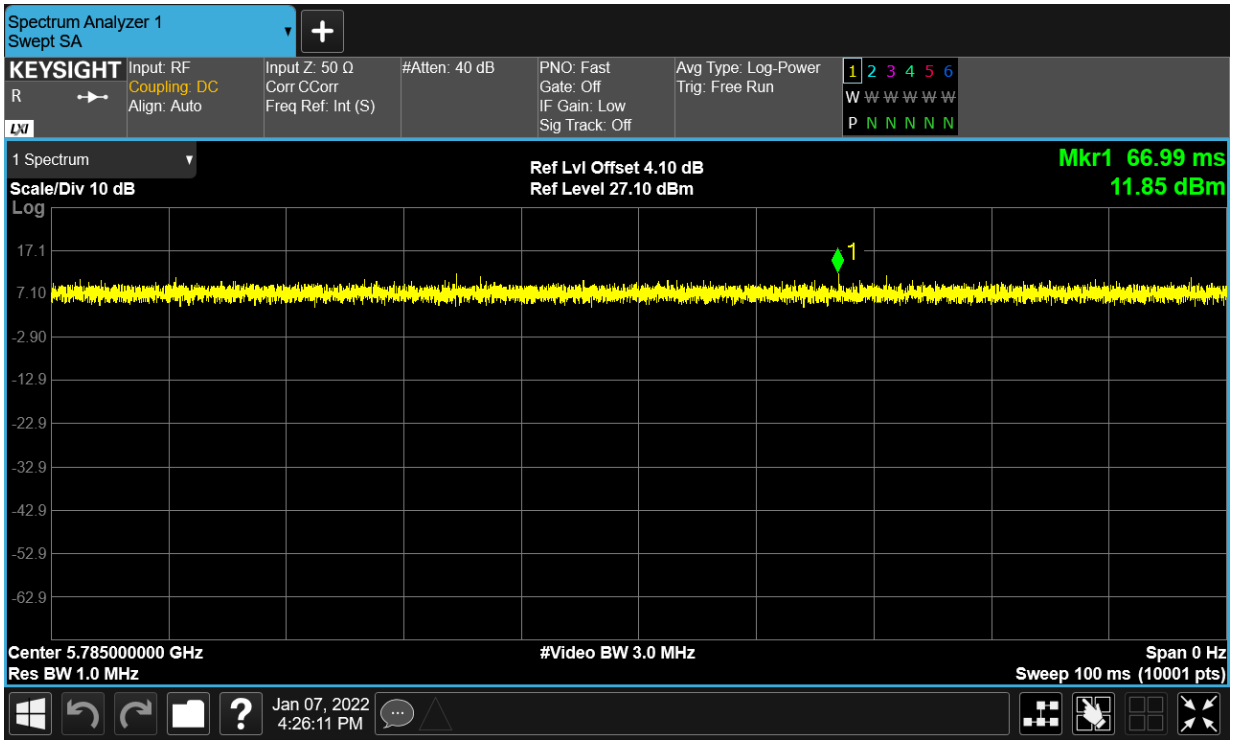
Duty Cycle NVNT a 5825MHz Ant1



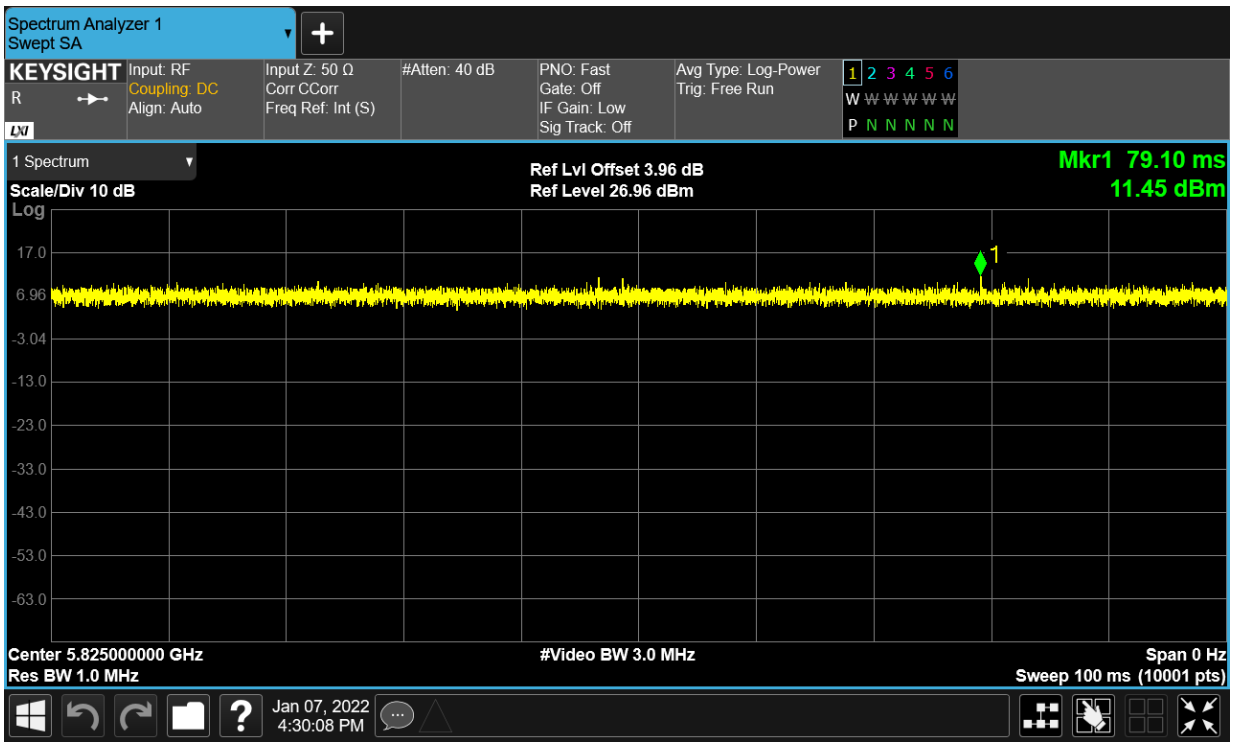
Duty Cycle NVNT a 5745MHz Ant2



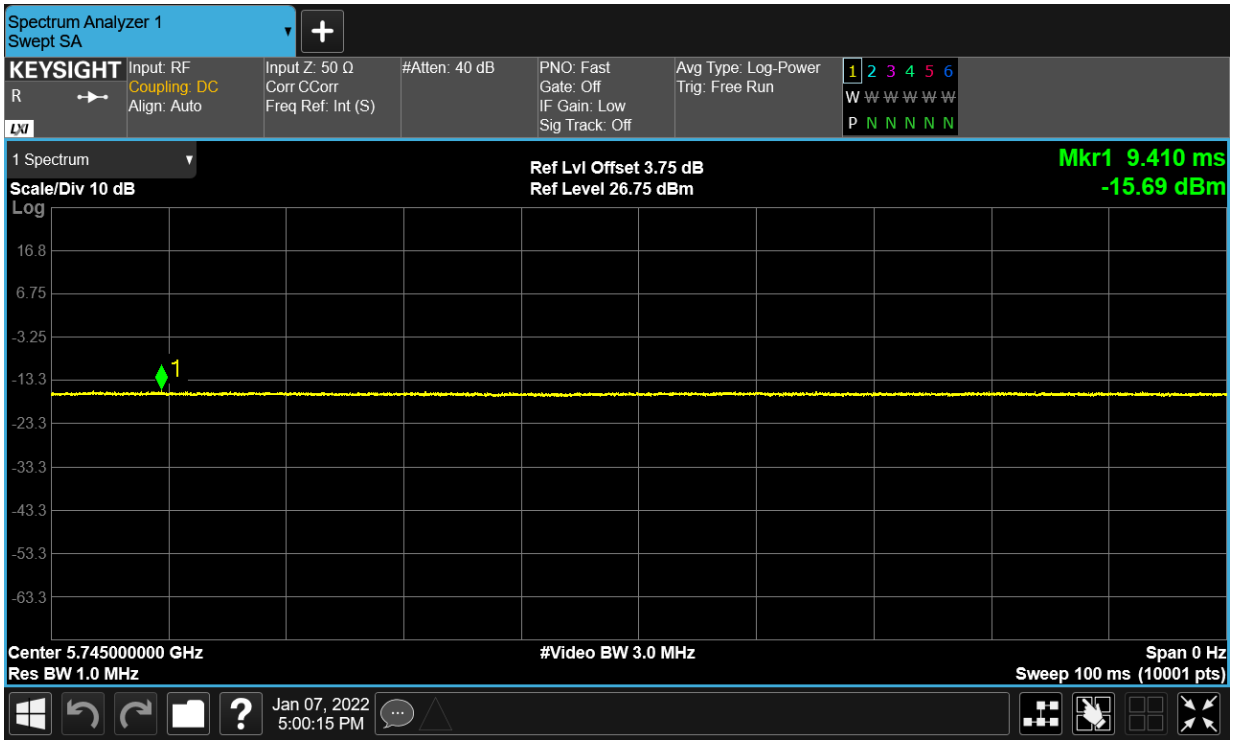
Duty Cycle NVNT a 5785MHz Ant2



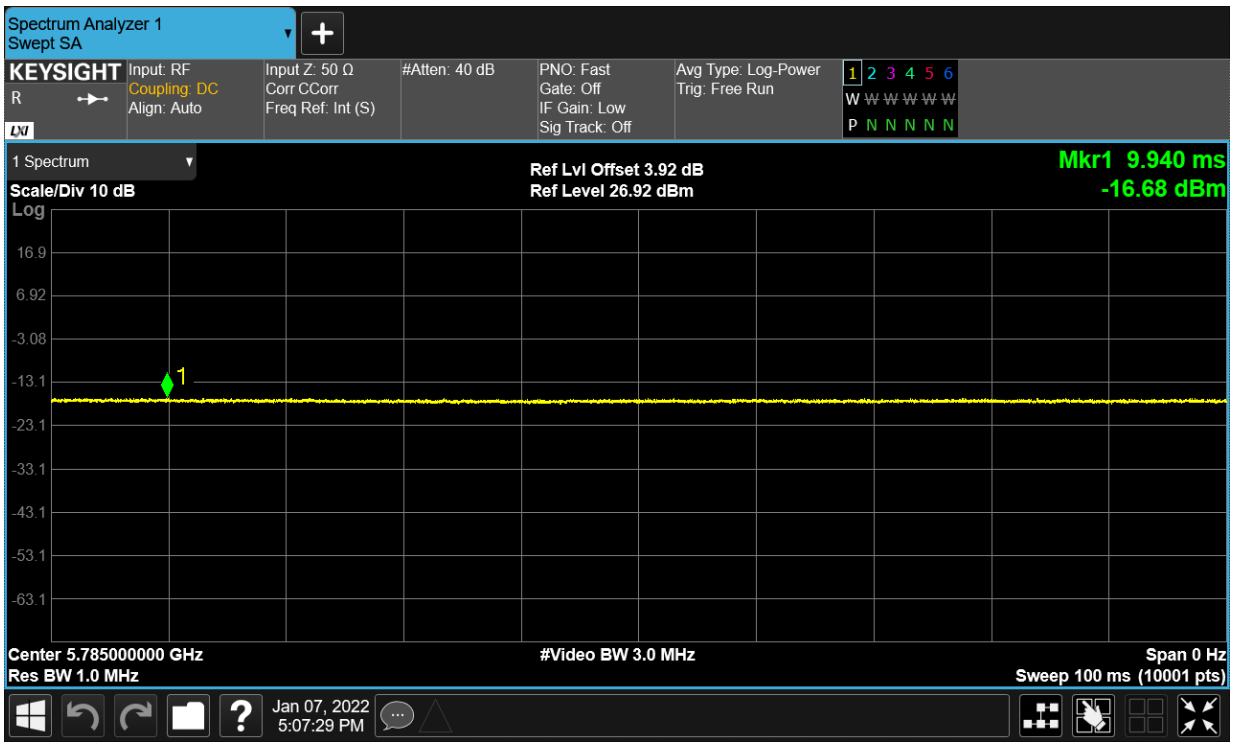
Duty Cycle NVNT a 5825MHz Ant2



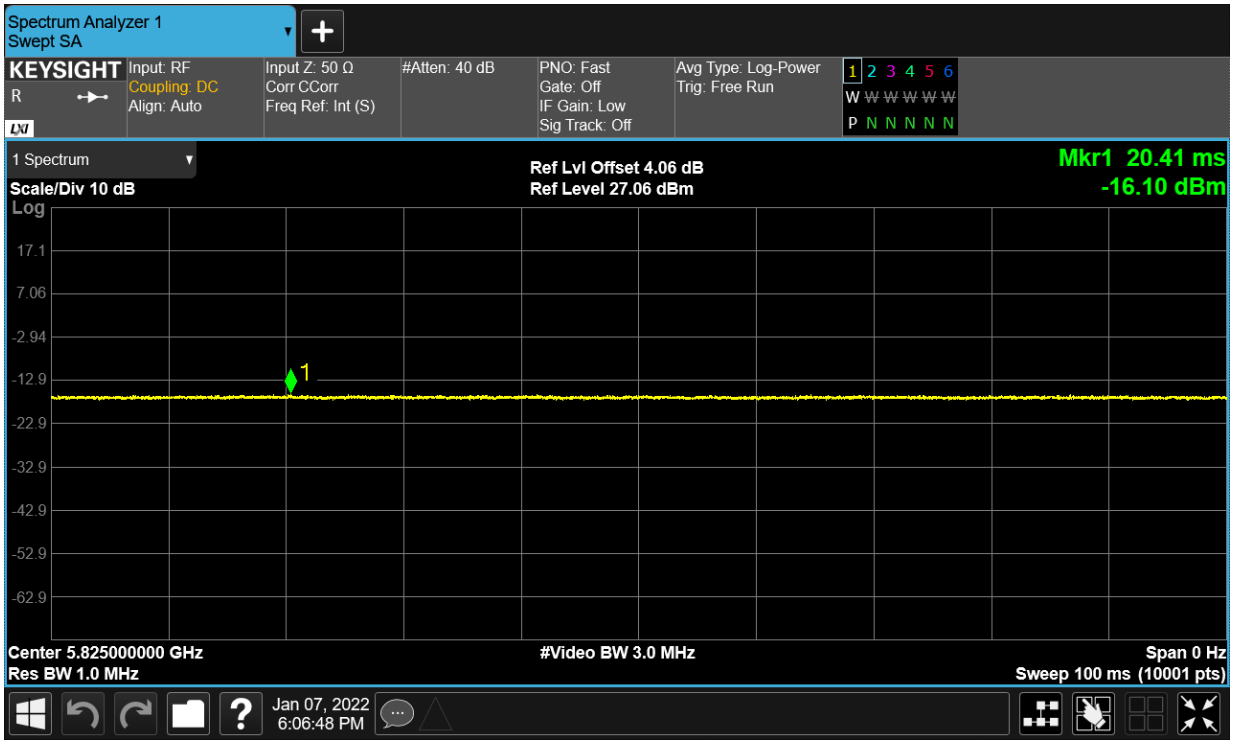
Duty Cycle NVNT ac20 5745MHz Sum



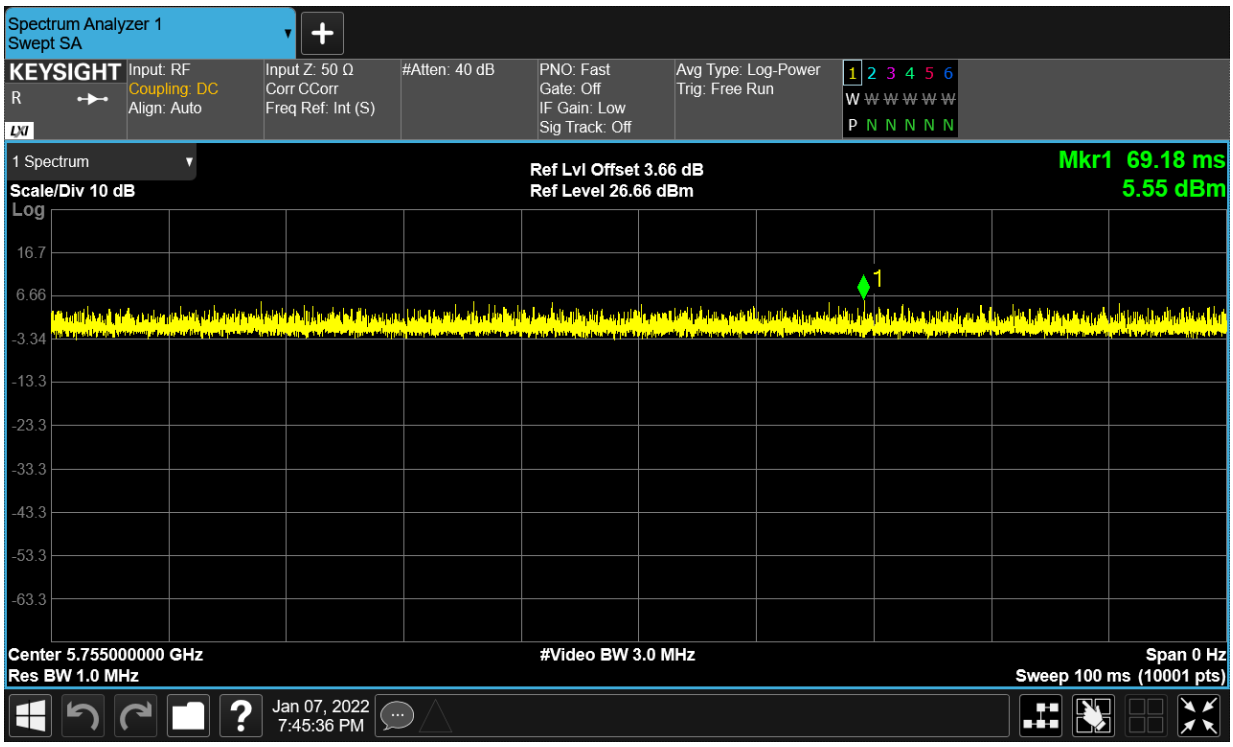
Duty Cycle NVNT ac20 5785MHz Sum



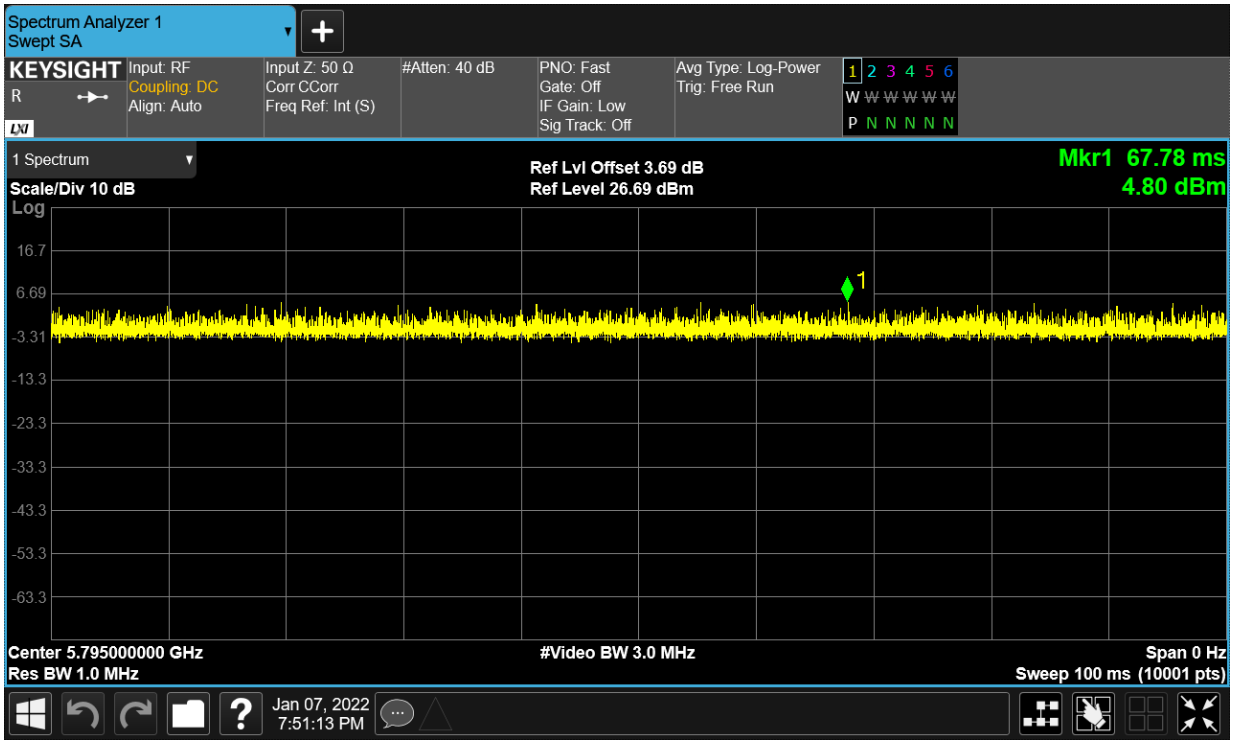
Duty Cycle NVNT ac20 5825MHz Sum



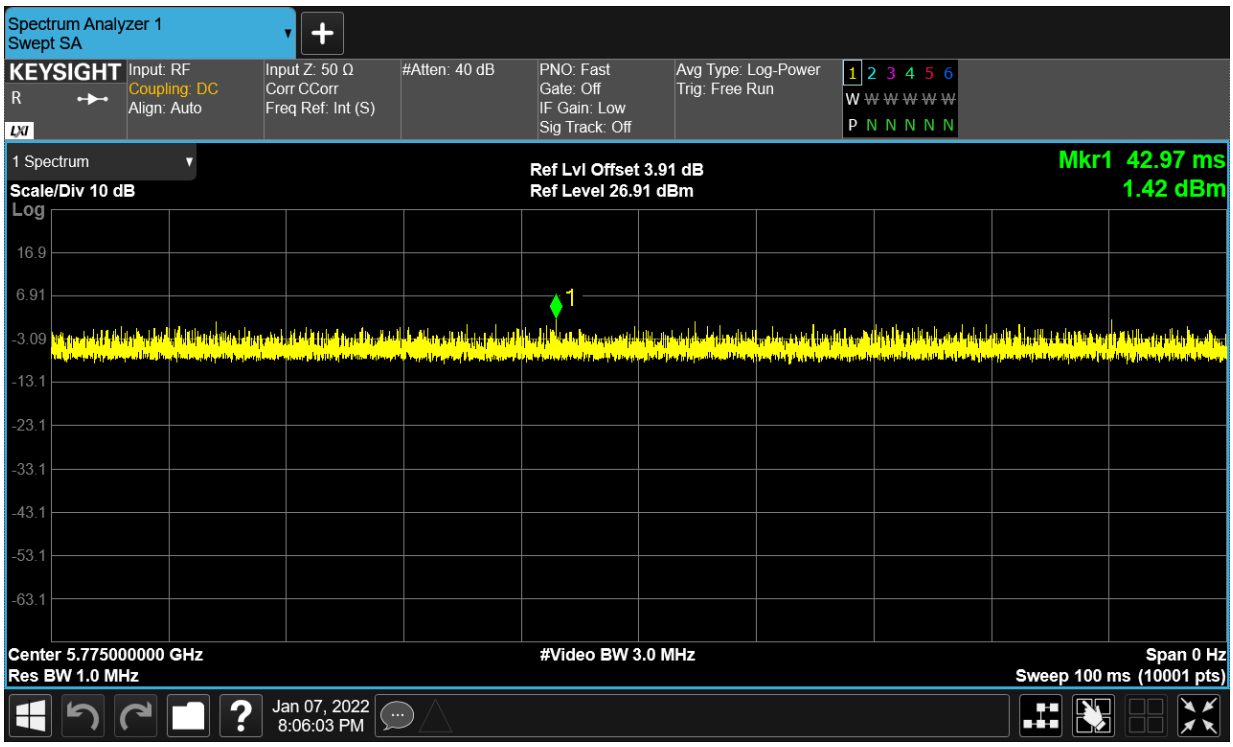
Duty Cycle NVNT ac40 5755MHz Sum



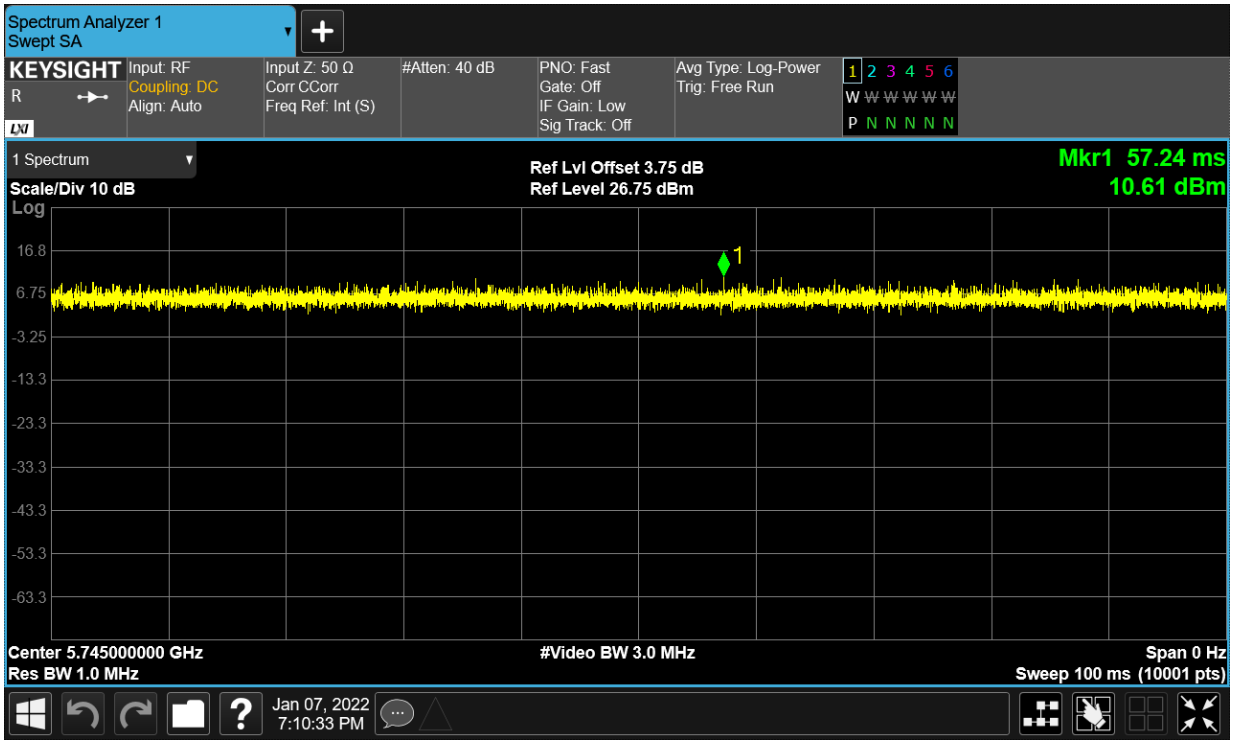
Duty Cycle NVNT ac40 5795MHz Sum



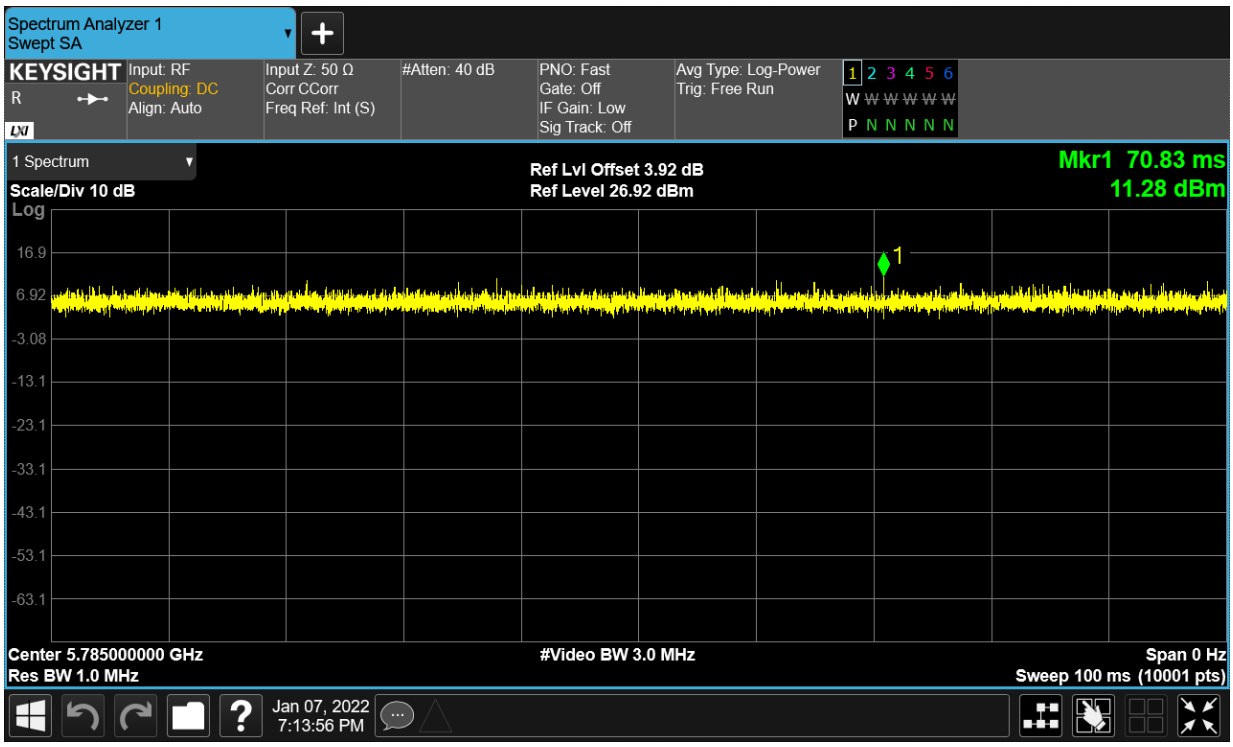
Duty Cycle NVNT ac80 5775MHz Sum



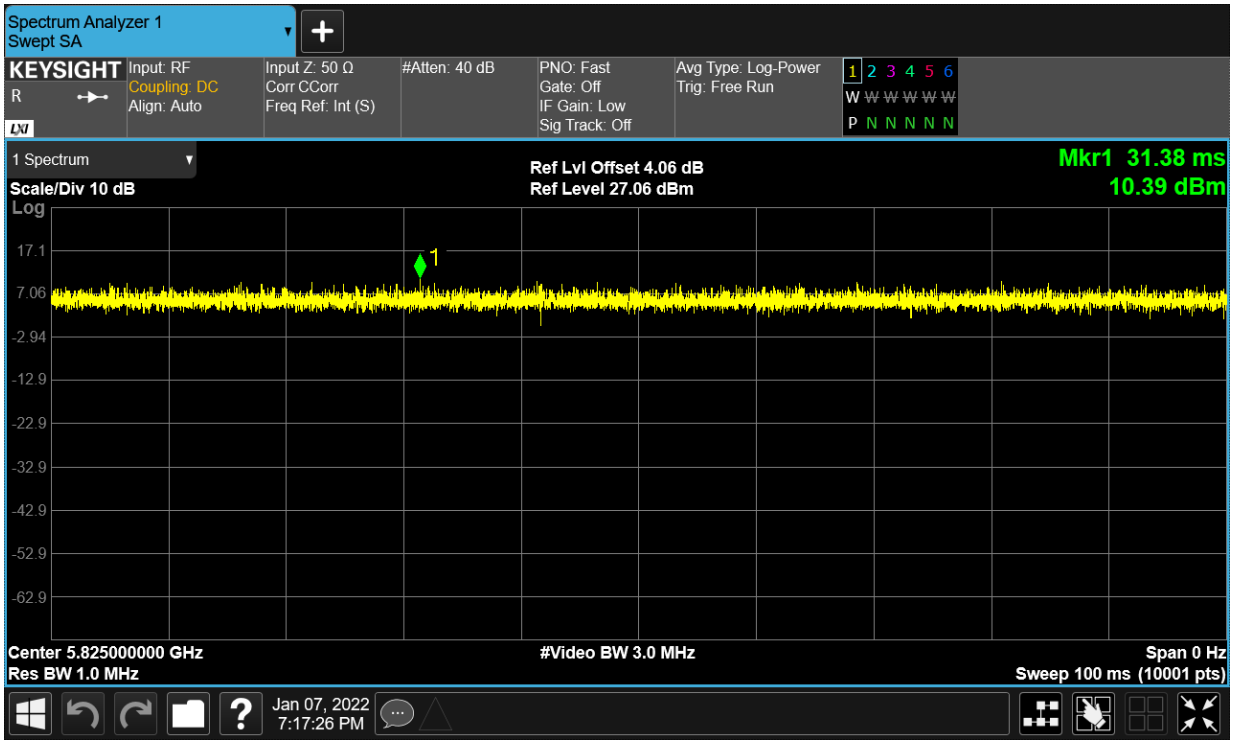
Duty Cycle NVNT ax20 5745MHz Sum



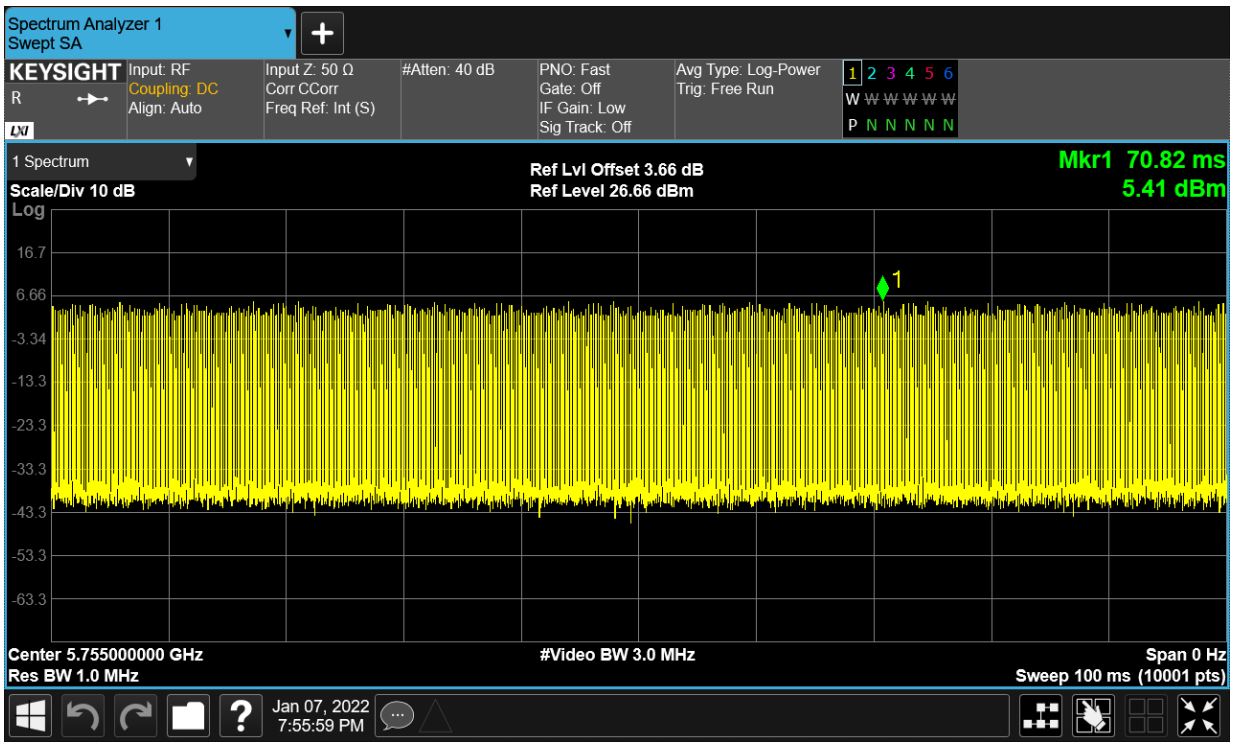
Duty Cycle NVNT ax20 5785MHz Sum



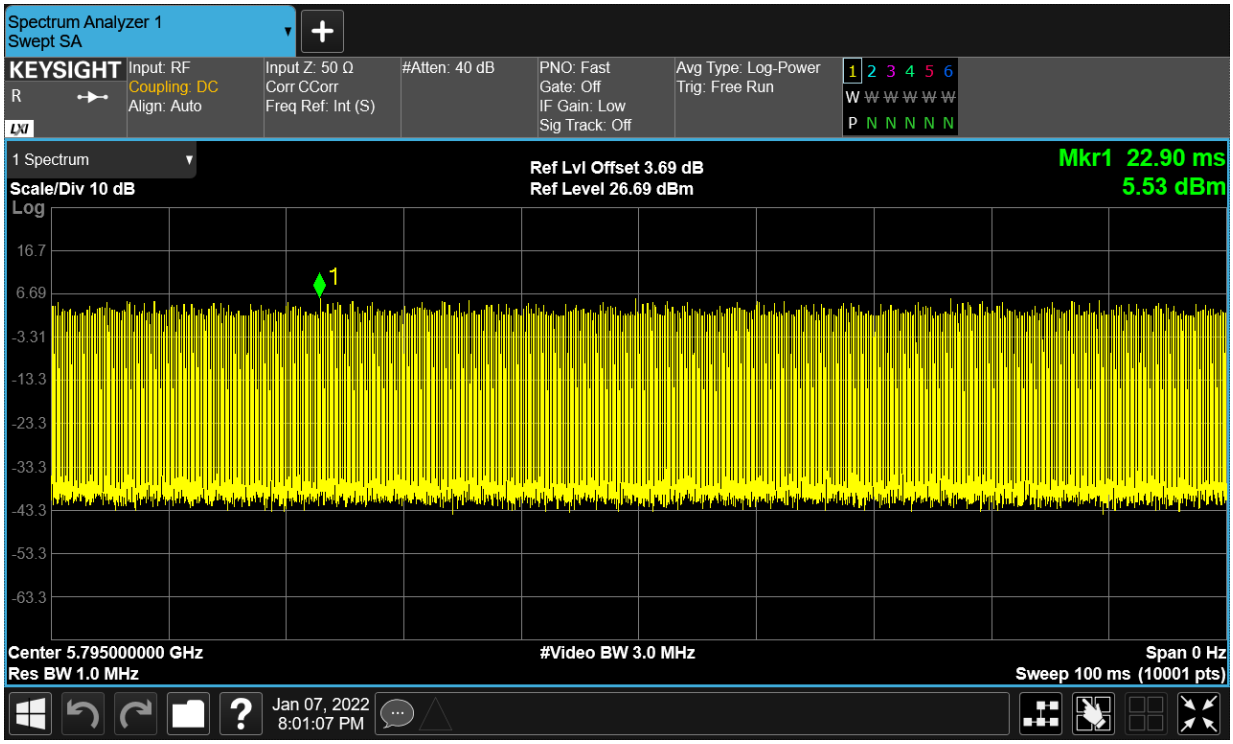
Duty Cycle NVNT ax20 5825MHz Sum



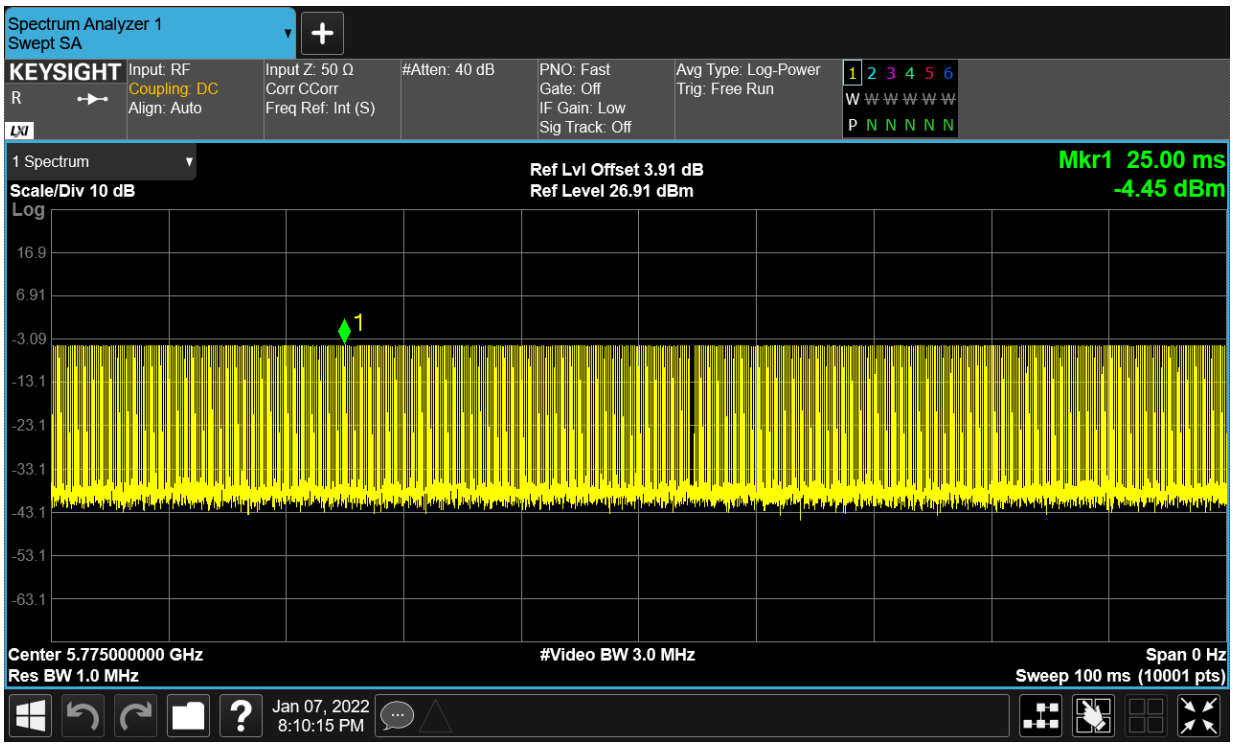
Duty Cycle NVNT ax40 5755MHz Sum



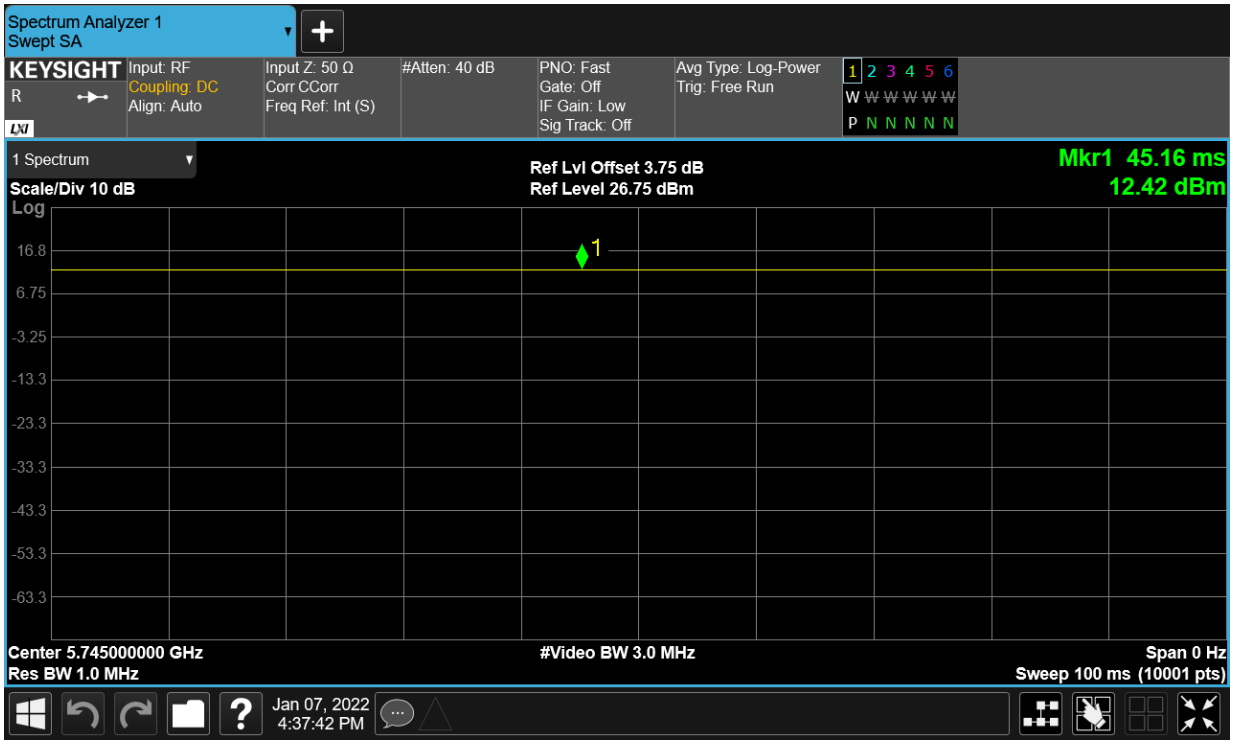
Duty Cycle NVNT ax40 5795MHz Sum



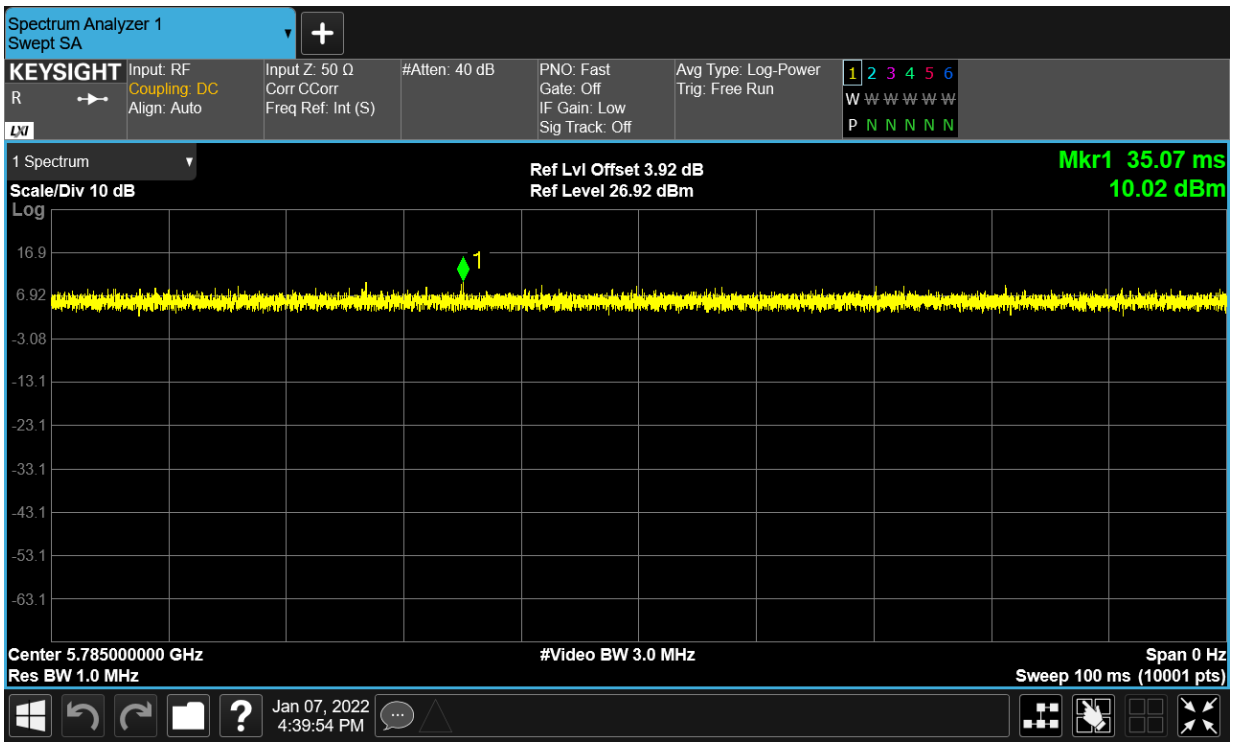
Duty Cycle NVNT ax80 5775MHz Sum



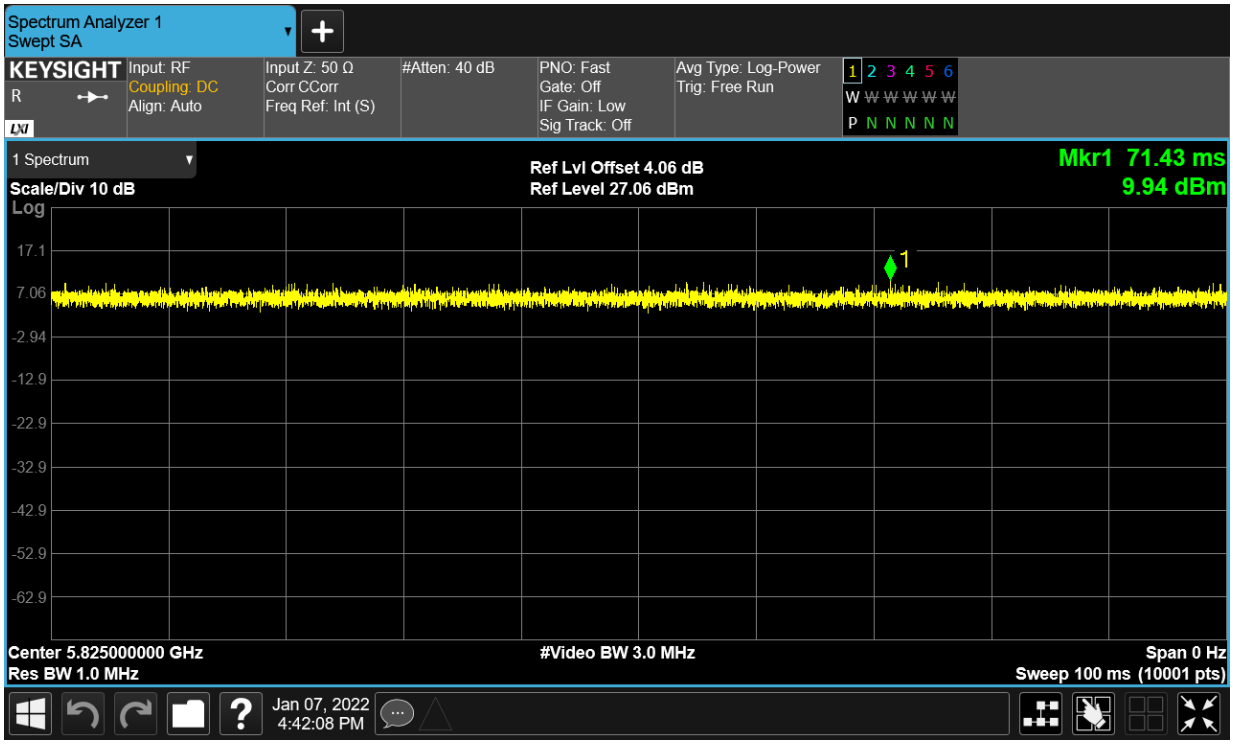
Duty Cycle NVNT n20 5745MHz Ant1



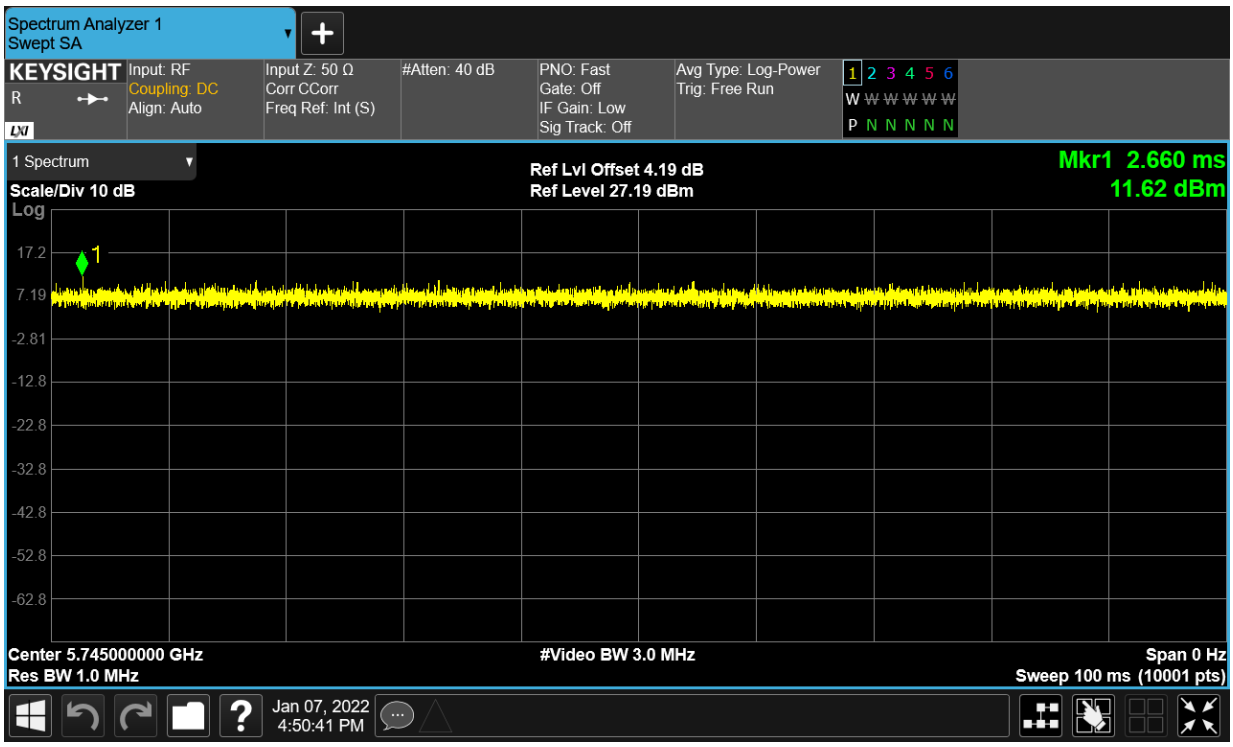
Duty Cycle NVNT n20 5785MHz Ant1



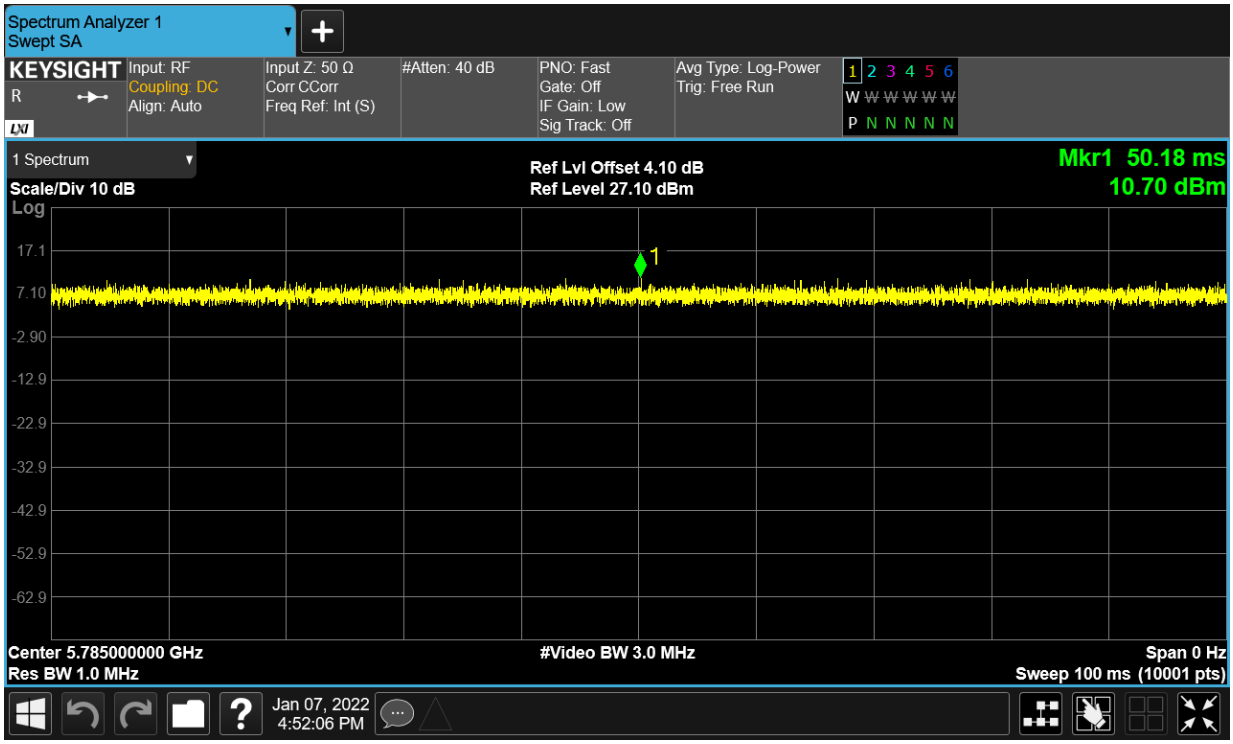
Duty Cycle NVNT n20 5825MHz Ant1



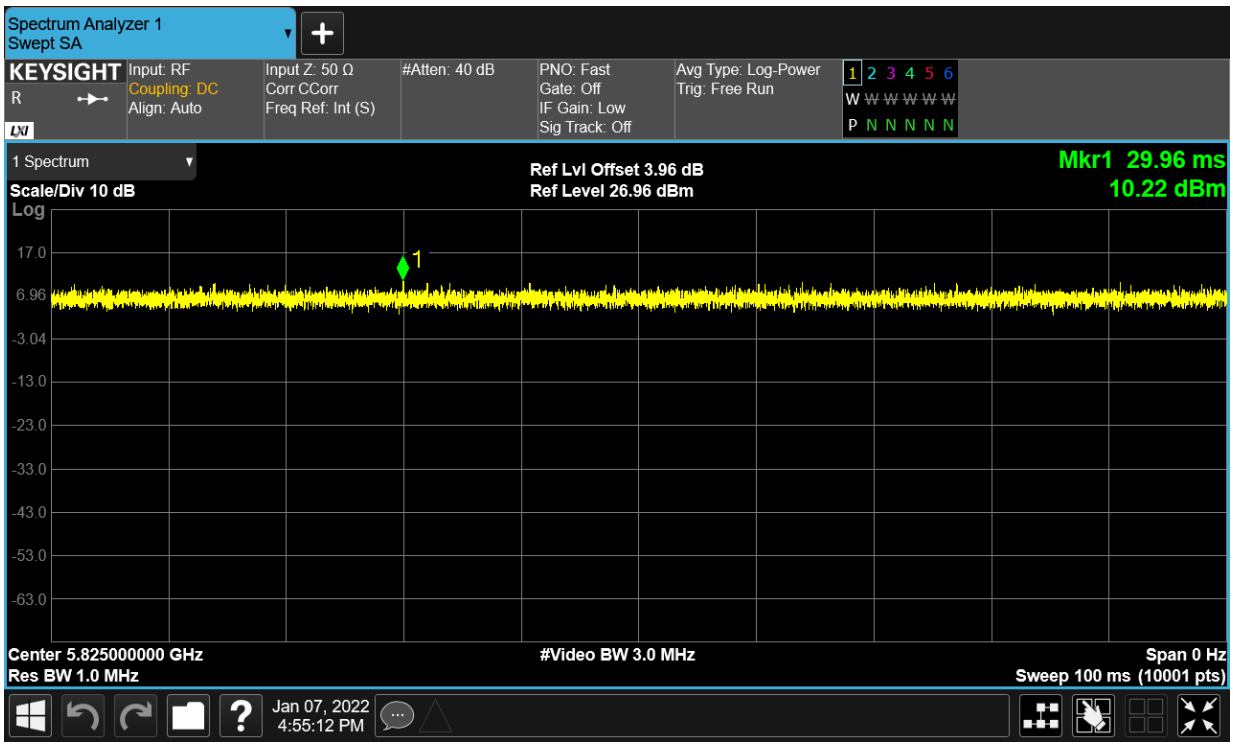
Duty Cycle NVNT n20 5745MHz Ant2



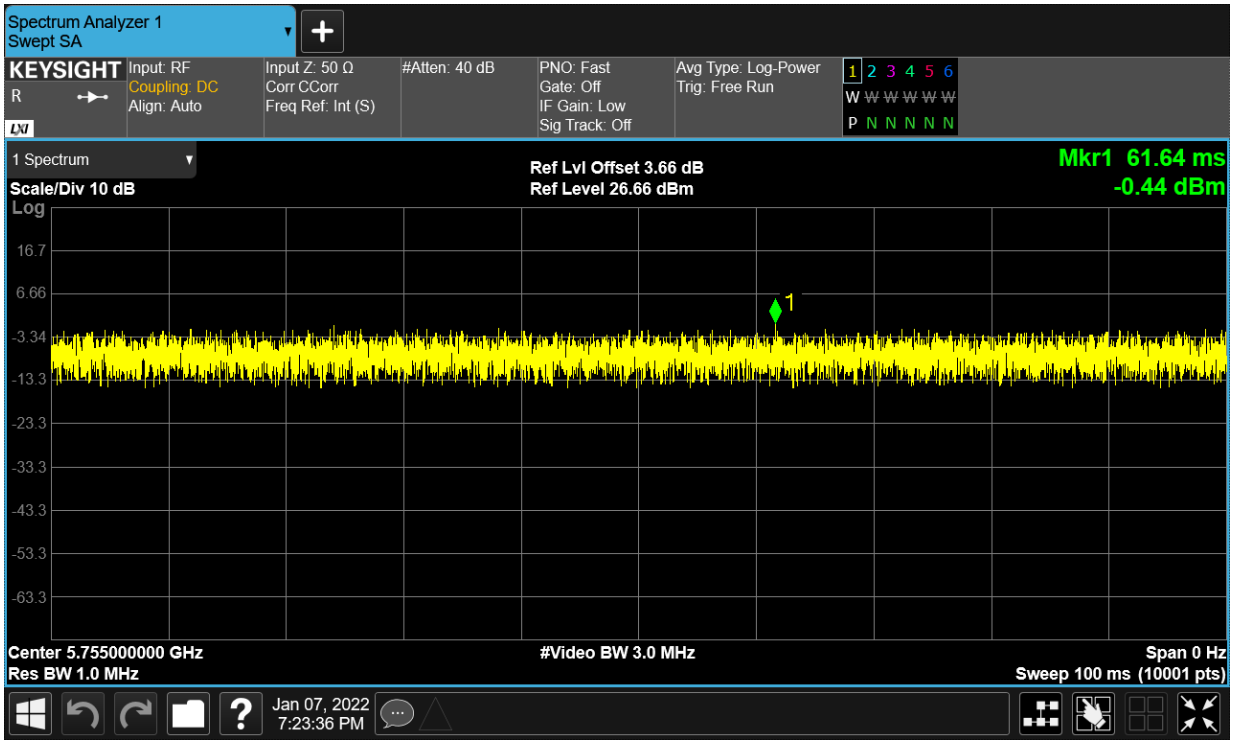
Duty Cycle NVNT n20 5785MHz Ant2



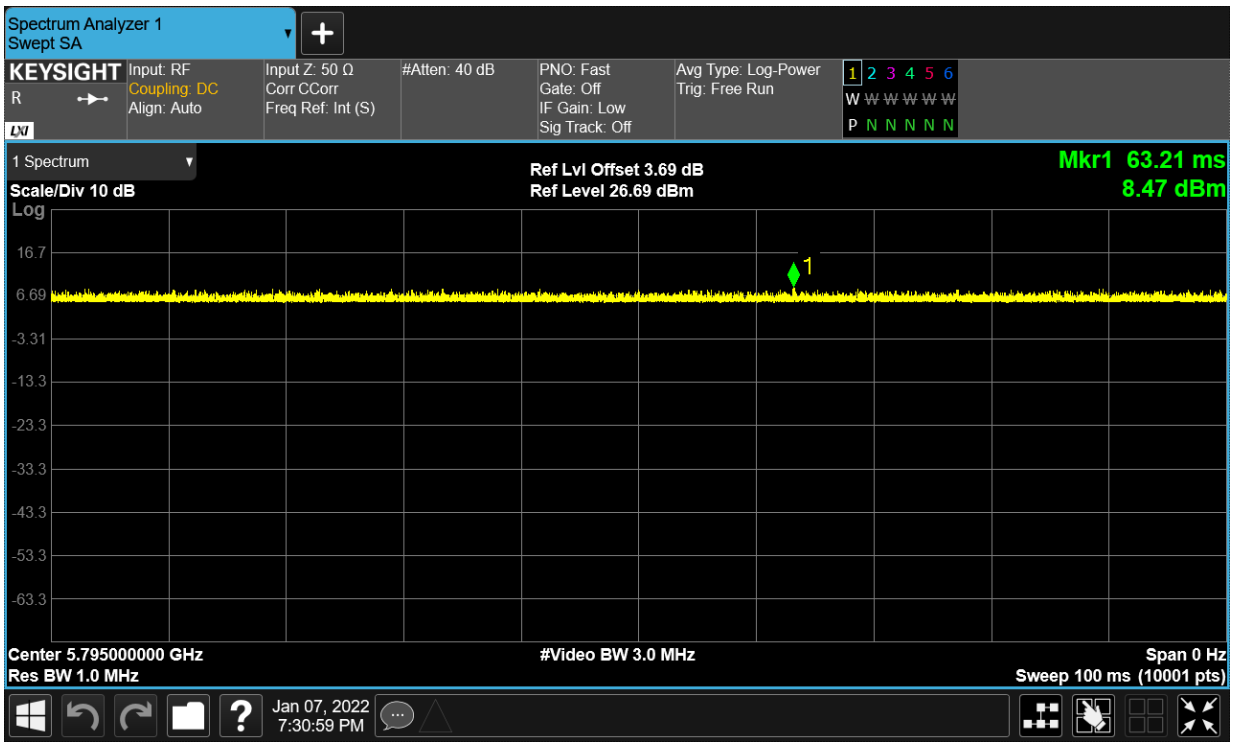
Duty Cycle NVNT n20 5825MHz Ant2



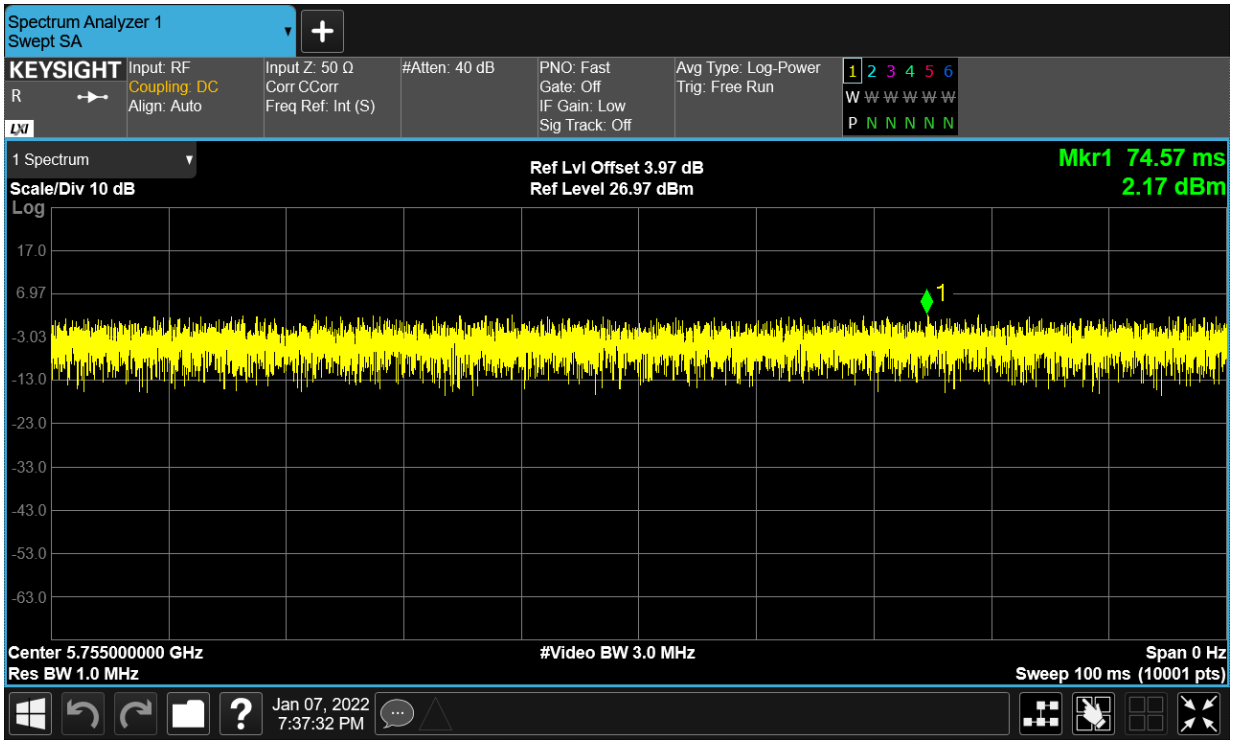
Duty Cycle NVNT n40 5755MHz Ant1



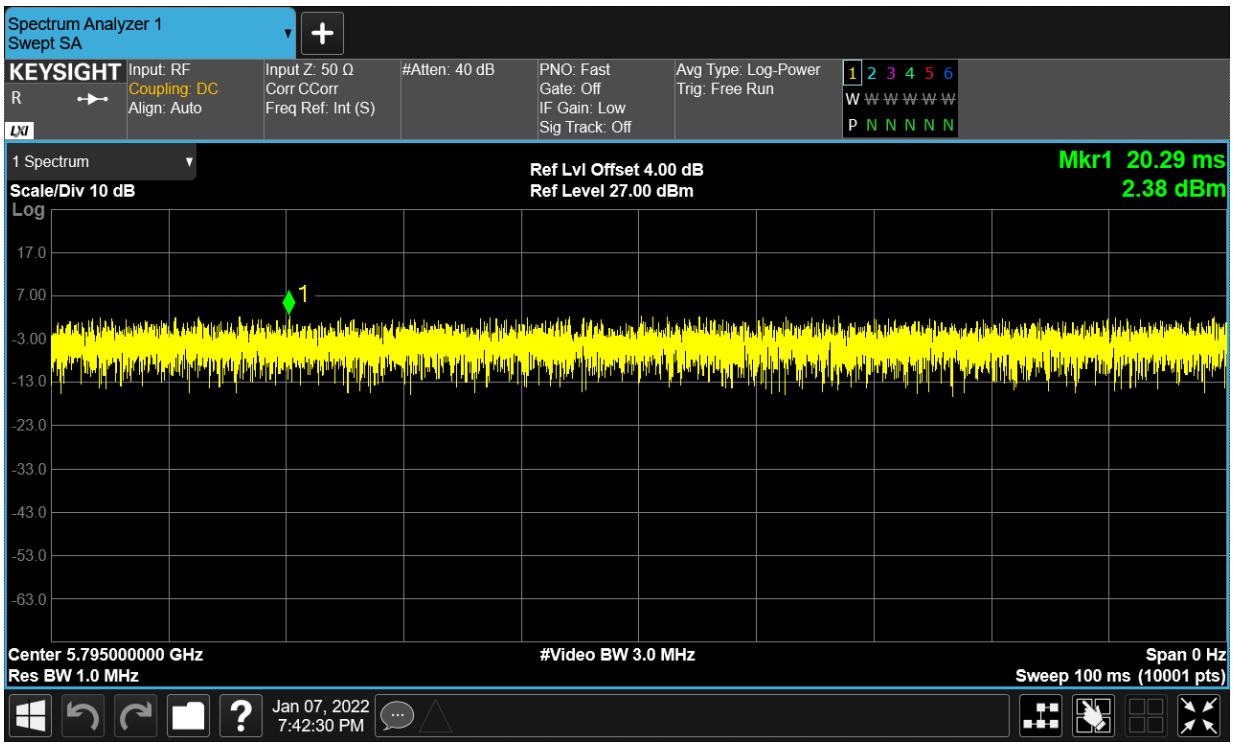
Duty Cycle NVNT n40 5795MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant2



Duty Cycle NVNT n40 5795MHz Ant2



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.47	0	12.47	30	Pass
NVNT	a	5785	Ant1	13.24	0	13.24	30	Pass
NVNT	a	5825	Ant1	15.81	0	15.81	30	Pass
NVNT	a	5745	Ant2	14.88	0	14.88	30	Pass
NVNT	a	5785	Ant2	14.84	0	14.84	30	Pass
NVNT	a	5825	Ant2	15.18	0	15.18	30	Pass
NVNT	ac20	5745	Ant1	14.07	0	14.07	30	Pass
NVNT	ac20	5745	Ant2	17.46	0	17.46	30	Pass
NVNT	ac20	5745	Sum	19.098	0	19.098	30	Pass
NVNT	ac20	5785	Ant1	14.25	0	14.25	30	Pass
NVNT	ac20	5785	Ant2	17.45	0	17.45	30	Pass
NVNT	ac20	5785	Sum	19.149	0	19.149	30	Pass
NVNT	ac20	5825	Ant1	13.19	0	13.19	30	Pass
NVNT	ac20	5825	Ant2	15.49	0	15.49	30	Pass
NVNT	ac20	5825	Sum	17.501	0	17.501	30	Pass
NVNT	ac40	5755	Ant1	14.59	0	14.59	30	Pass
NVNT	ac40	5755	Ant2	16.71	0	16.71	30	Pass
NVNT	ac40	5755	Sum	18.788	0	18.788	30	Pass
NVNT	ac40	5795	Ant1	14.31	0	14.31	30	Pass
NVNT	ac40	5795	Ant2	16.77	0	16.77	30	Pass
NVNT	ac40	5795	Sum	18.722	0	18.722	30	Pass
NVNT	ac80	5775	Ant1	14.08	0	14.08	30	Pass
NVNT	ac80	5775	Ant2	16.54	0	16.54	30	Pass
NVNT	ac80	5775	Sum	18.492	0	18.492	30	Pass
NVNT	ax20	5745	Ant1	13.55	0	13.55	30	Pass
NVNT	ax20	5745	Ant2	15.56	0	15.56	30	Pass
NVNT	ax20	5745	Sum	17.681	0	17.681	30	Pass
NVNT	ax20	5785	Ant1	13.48	0	13.48	30	Pass
NVNT	ax20	5785	Ant2	15.84	0	15.84	30	Pass
NVNT	ax20	5785	Sum	17.829	0	17.829	30	Pass
NVNT	ax20	5825	Ant1	13.79	0	13.79	30	Pass
NVNT	ax20	5825	Ant2	16.23	0	16.23	30	Pass
NVNT	ax20	5825	Sum	18.189	0	18.189	30	Pass
NVNT	ax40	5755	Ant1	12.76	0.78	13.54	30	Pass
NVNT	ax40	5755	Ant2	14.83	0.78	15.61	30	Pass
NVNT	ax40	5755	Sum	16.927	0.78	17.707	30	Pass
NVNT	ax40	5795	Ant1	12.63	0.88	13.51	30	Pass
NVNT	ax40	5795	Ant2	14.8	0.88	15.68	30	Pass

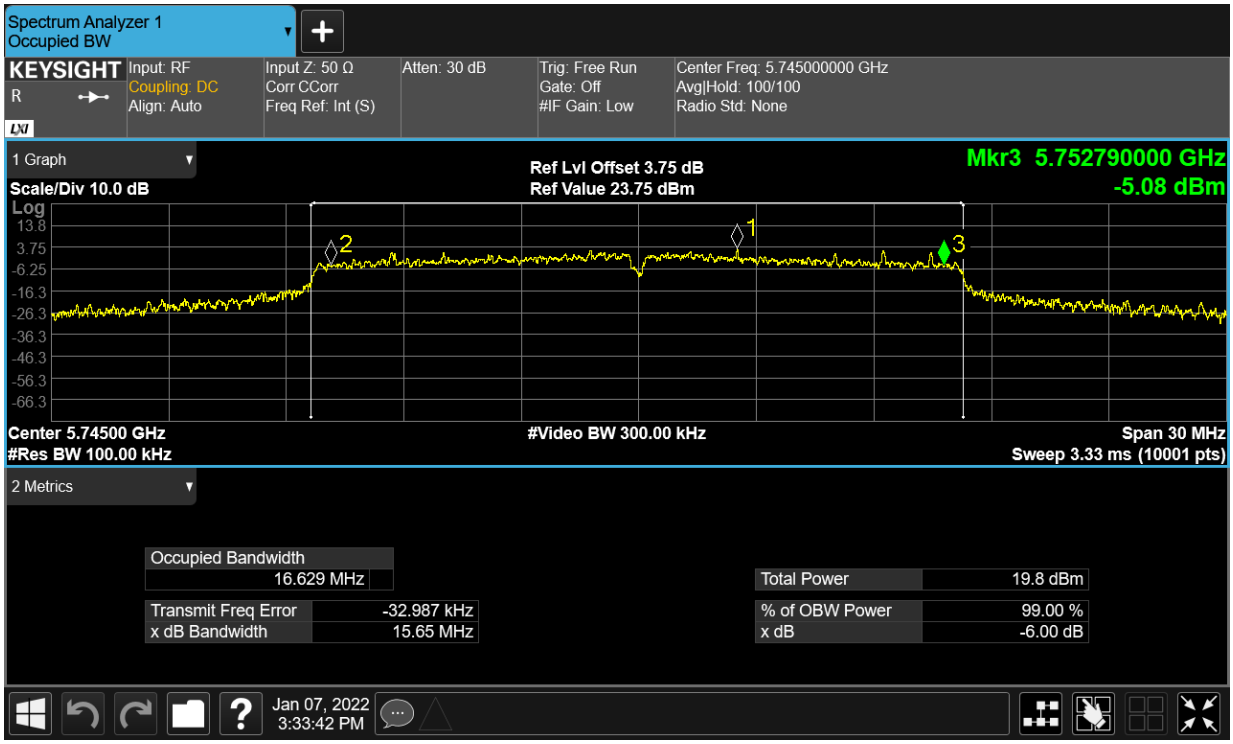
NVNT	ax40	5795	Sum	16.859	0.88	17.739	30	Pass
NVNT	ax80	5775	Ant1	12.47	0.83	13.3	30	Pass
NVNT	ax80	5775	Ant2	14.99	0.83	15.82	30	Pass
NVNT	ax80	5775	Sum	16.921	0.83	17.751	30	Pass
NVNT	n20	5745	Ant1	13.93	0	13.93	30	Pass
NVNT	n20	5785	Ant1	14	0	14	30	Pass
NVNT	n20	5825	Ant1	14.96	0	14.96	30	Pass
NVNT	n20	5745	Ant2	14.56	0	14.56	30	Pass
NVNT	n20	5785	Ant2	14.43	0	14.43	30	Pass
NVNT	n20	5825	Ant2	14.92	0	14.92	30	Pass
NVNT	n40	5755	Ant1	13.57	0	13.57	30	Pass
NVNT	n40	5795	Ant1	15.1	0	15.1	30	Pass
NVNT	n40	5755	Ant2	15.43	0	15.43	30	Pass
NVNT	n40	5795	Ant2	13.91	0	13.91	30	Pass

-6dB Bandwidth

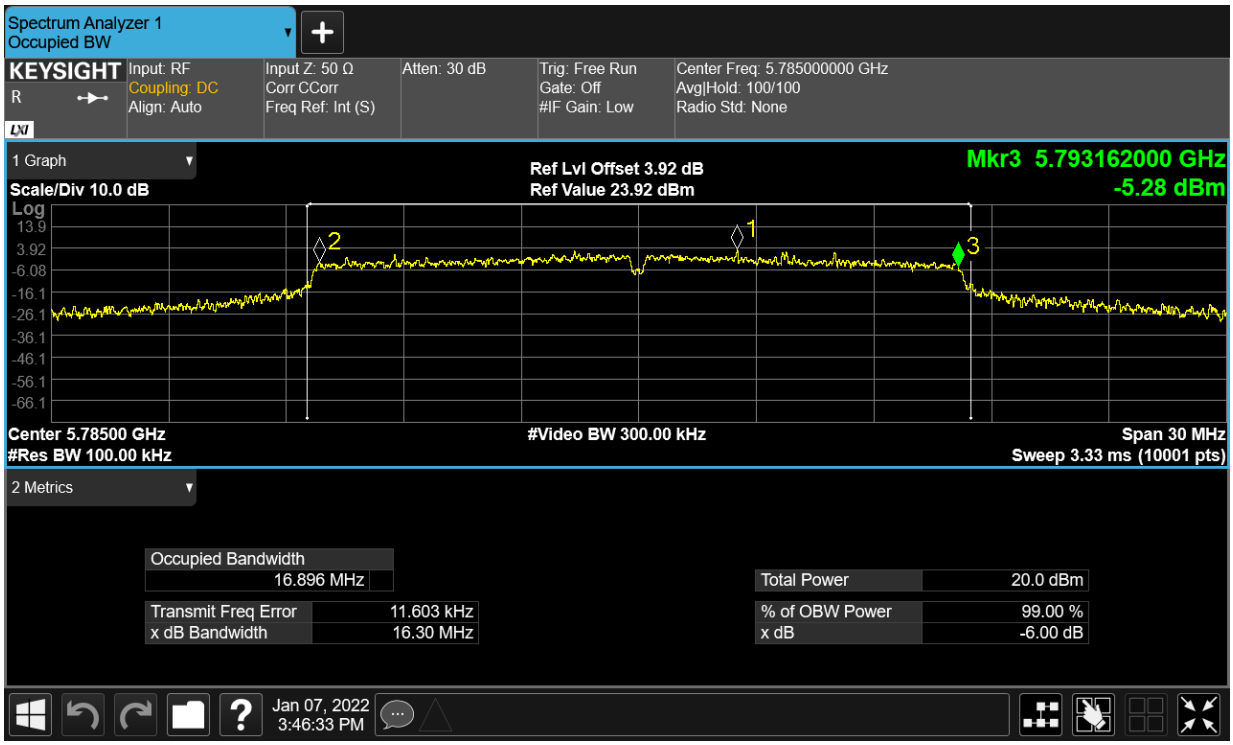
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.647	0.5	Pass
NVNT	a	5785	Ant1	16.302	0.5	Pass
NVNT	a	5825	Ant1	12.551	0.5	Pass
NVNT	a	5745	Ant2	13.779	0.5	Pass
NVNT	a	5785	Ant2	13.203	0.5	Pass
NVNT	a	5825	Ant2	12.523	0.5	Pass
NVNT	ac20	5745	Ant1	12.613	0.5	Pass
NVNT	ac20	5745	Ant2	17.531	0.5	Pass
NVNT	ac20	5785	Ant1	13.892	0.5	Pass
NVNT	ac20	5785	Ant2	15.902	0.5	Pass
NVNT	ac20	5825	Ant1	14.138	0.5	Pass
NVNT	ac20	5825	Ant2	15.06	0.5	Pass
NVNT	ac40	5755	Ant1	33.789	0.5	Pass
NVNT	ac40	5755	Ant2	34.963	0.5	Pass
NVNT	ac40	5795	Ant1	33.847	0.5	Pass
NVNT	ac40	5795	Ant2	31.306	0.5	Pass
NVNT	ac80	5775	Ant1	75.465	0.5	Pass
NVNT	ac80	5775	Ant2	75.664	0.5	Pass
NVNT	ax20	5745	Ant1	17.196	0.5	Pass
NVNT	ax20	5745	Ant2	14.983	0.5	Pass
NVNT	ax20	5785	Ant1	13.879	0.5	Pass
NVNT	ax20	5785	Ant2	17.96	0.5	Pass
NVNT	ax20	5825	Ant1	17.448	0.5	Pass
NVNT	ax20	5825	Ant2	16.061	0.5	Pass
NVNT	ax40	5755	Ant1	36.175	0.5	Pass
NVNT	ax40	5755	Ant2	35.102	0.5	Pass
NVNT	ax40	5795	Ant1	35.101	0.5	Pass
NVNT	ax40	5795	Ant2	35.105	0.5	Pass
NVNT	ax80	5775	Ant1	77.712	0.5	Pass
NVNT	ax80	5775	Ant2	77.616	0.5	Pass
NVNT	n20	5745	Ant1	12.25	0.5	Pass
NVNT	n20	5785	Ant1	11.293	0.5	Pass
NVNT	n20	5825	Ant1	13.838	0.5	Pass
NVNT	n20	5745	Ant2	16.547	0.5	Pass
NVNT	n20	5785	Ant2	15.276	0.5	Pass
NVNT	n20	5825	Ant2	13.805	0.5	Pass
NVNT	n40	5755	Ant1	26.335	0.5	Pass
NVNT	n40	5795	Ant1	30.031	0.5	Pass
NVNT	n40	5755	Ant2	33.843	0.5	Pass

NVNT	n40	5795	Ant2	35.665	0.5	Pass

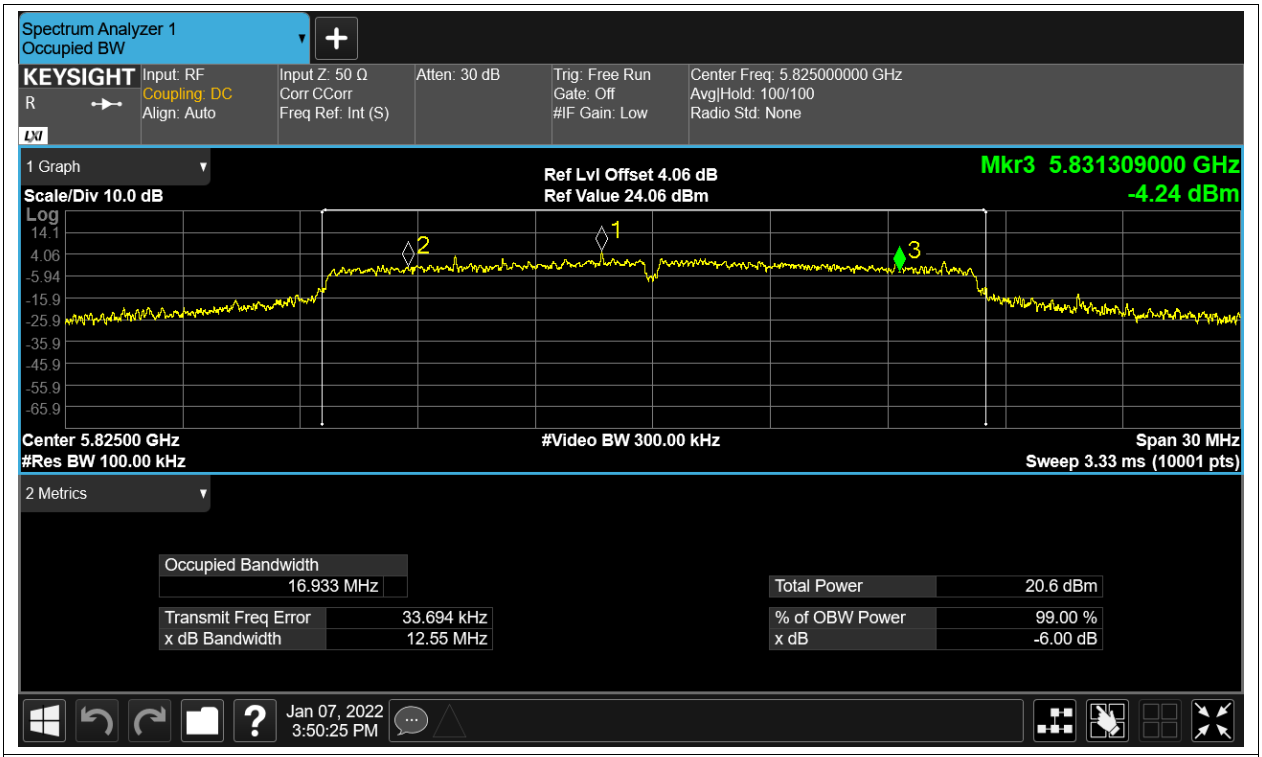
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1



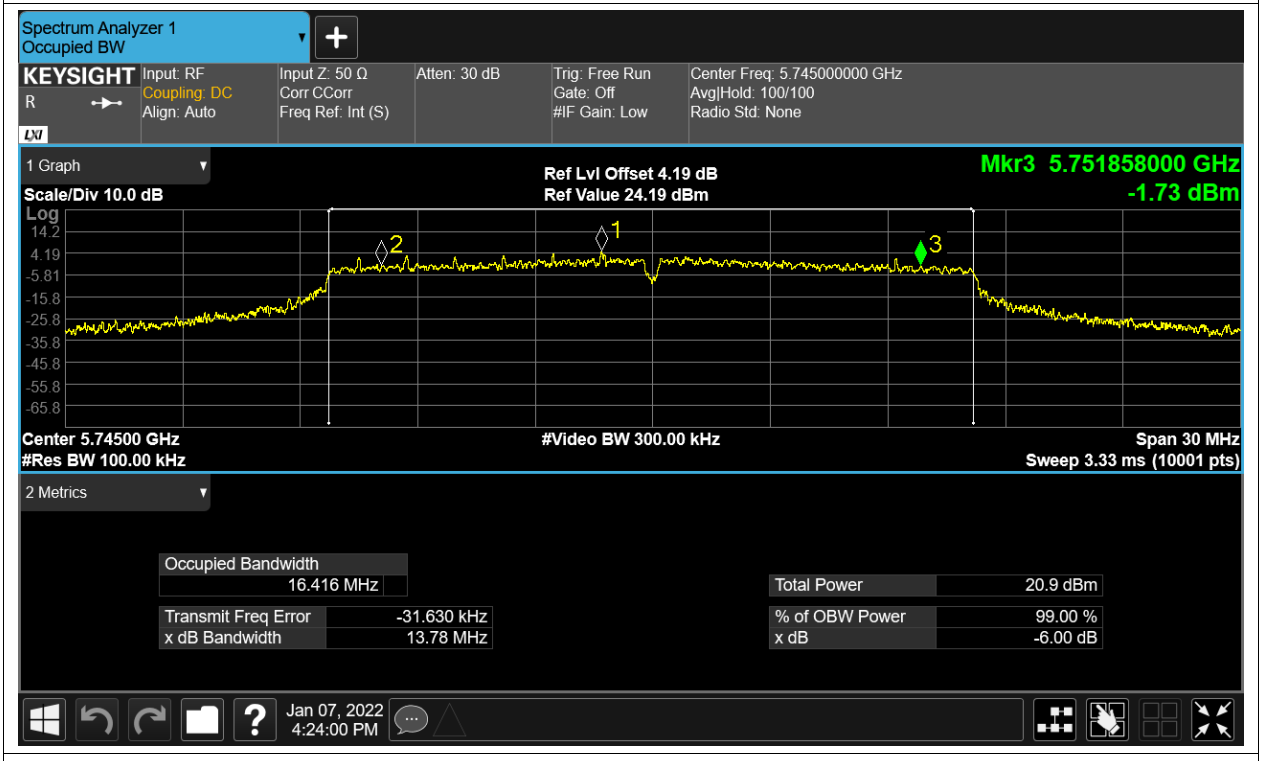
-6dB Bandwidth NVNT a 5785MHz Ant1



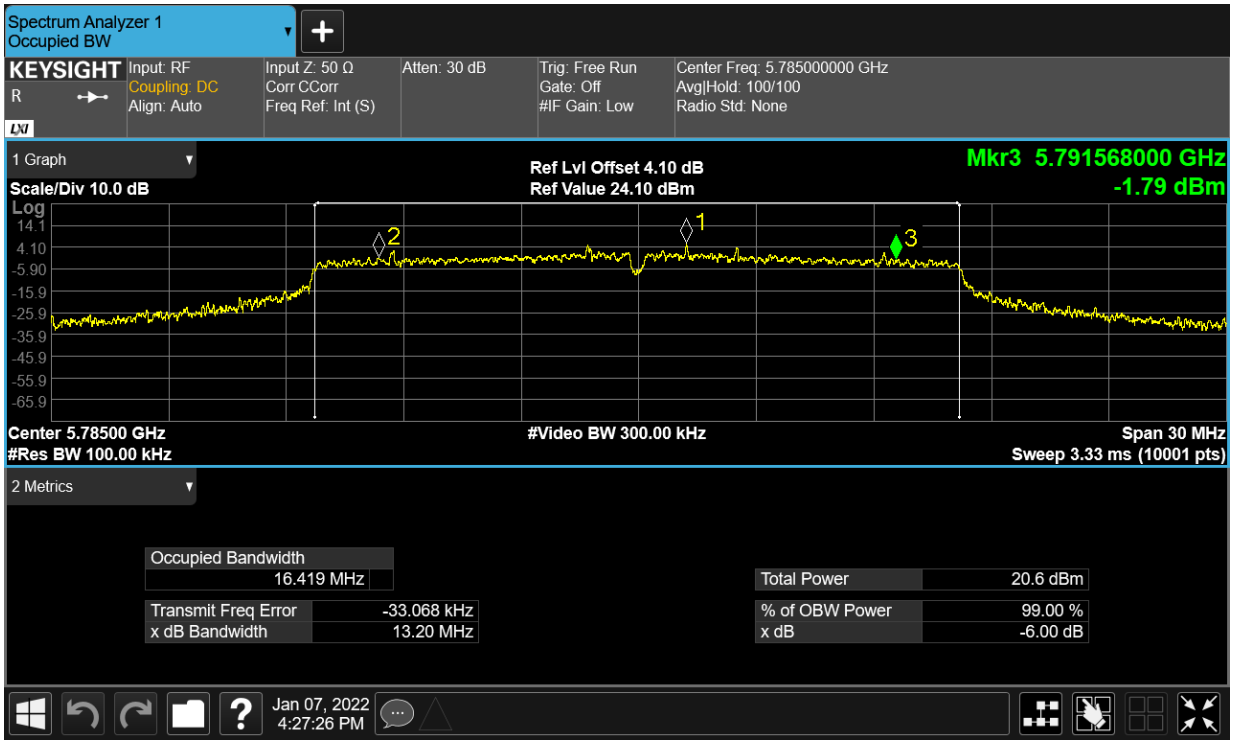
-6dB Bandwidth NVNT a 5825MHz Ant1



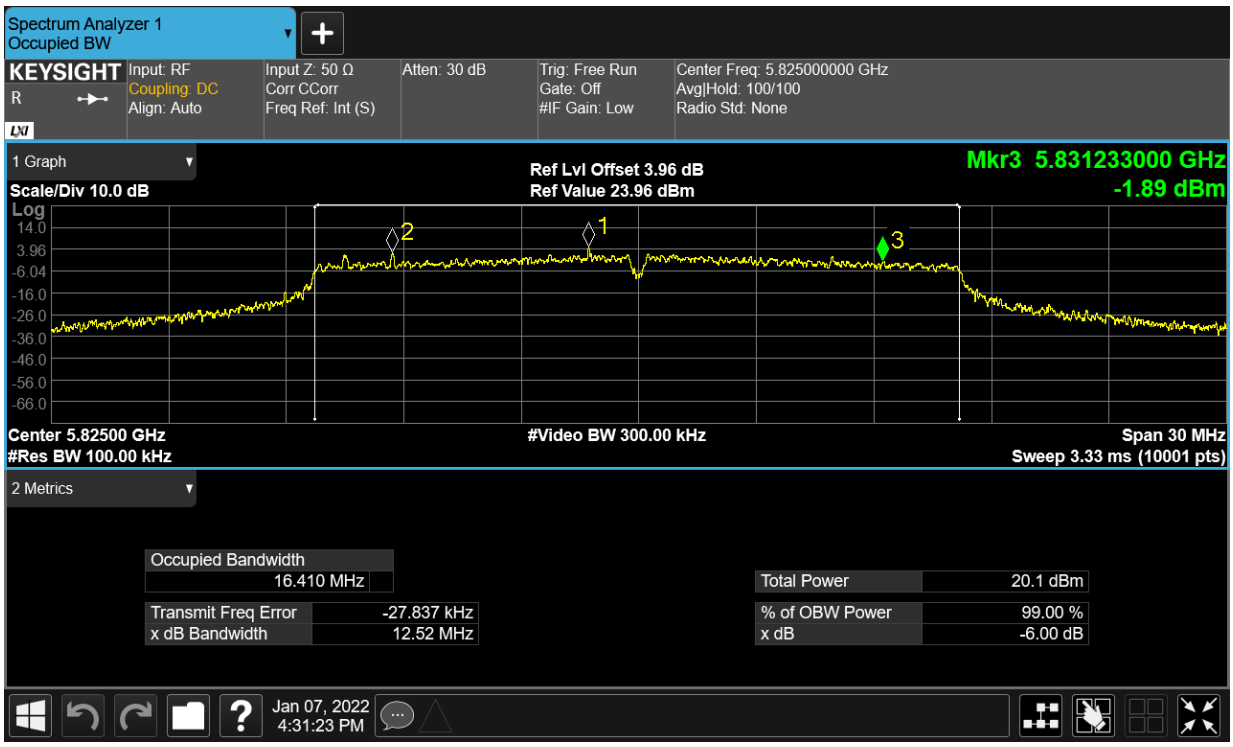
-6dB Bandwidth NVNT a 5745MHz Ant2



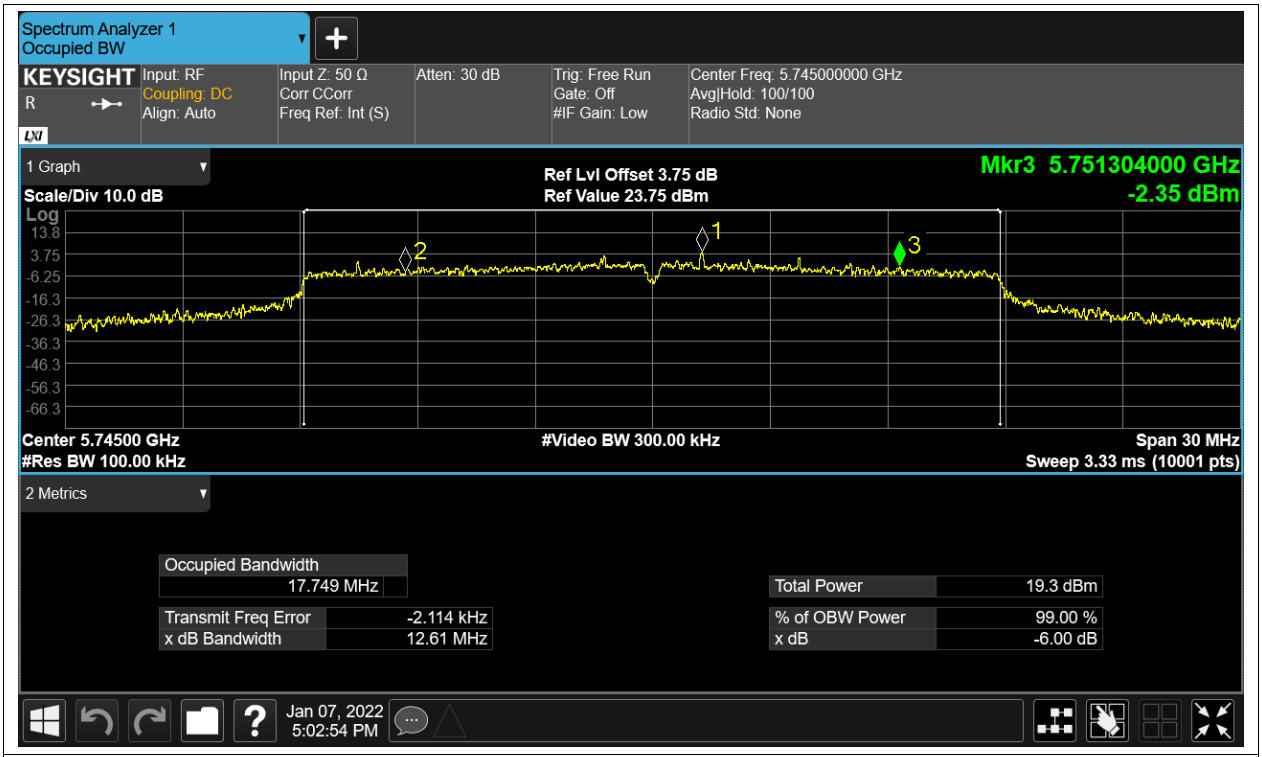
-6dB Bandwidth NVNT a 5785MHz Ant2



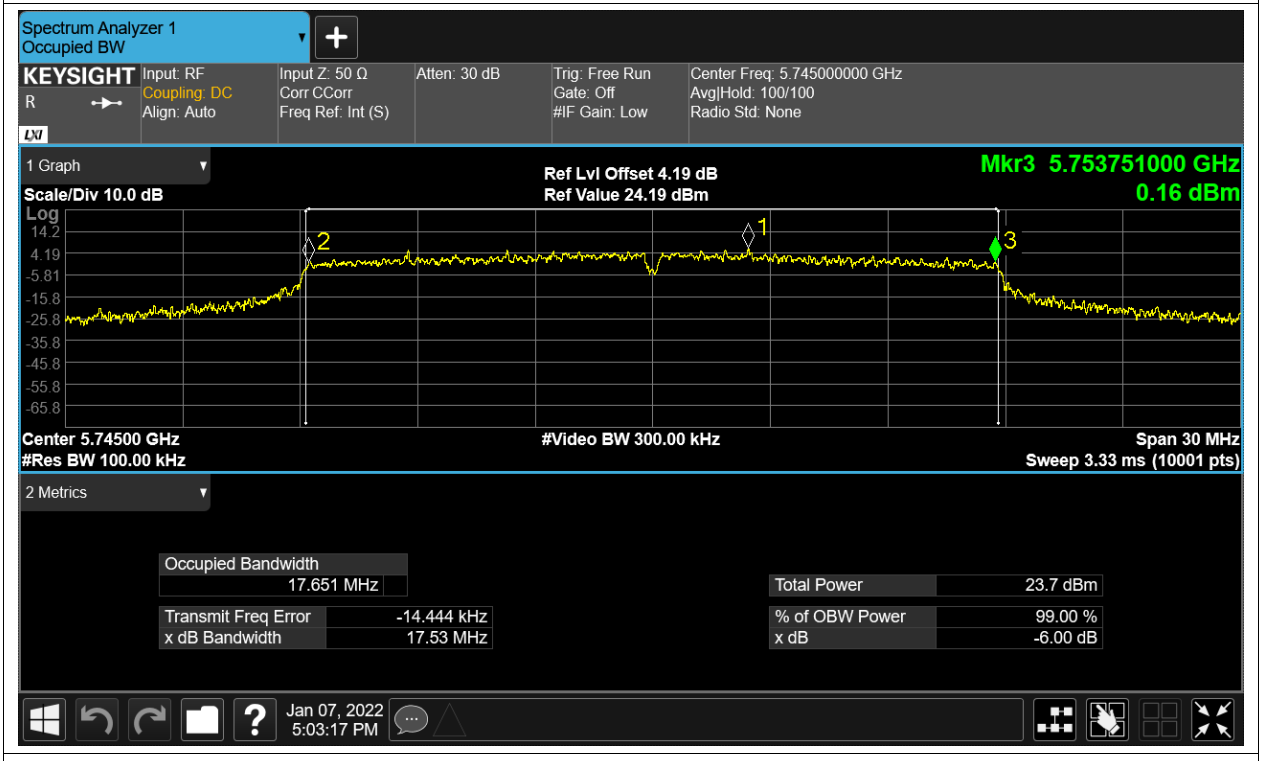
-6dB Bandwidth NVNT a 5825MHz Ant2



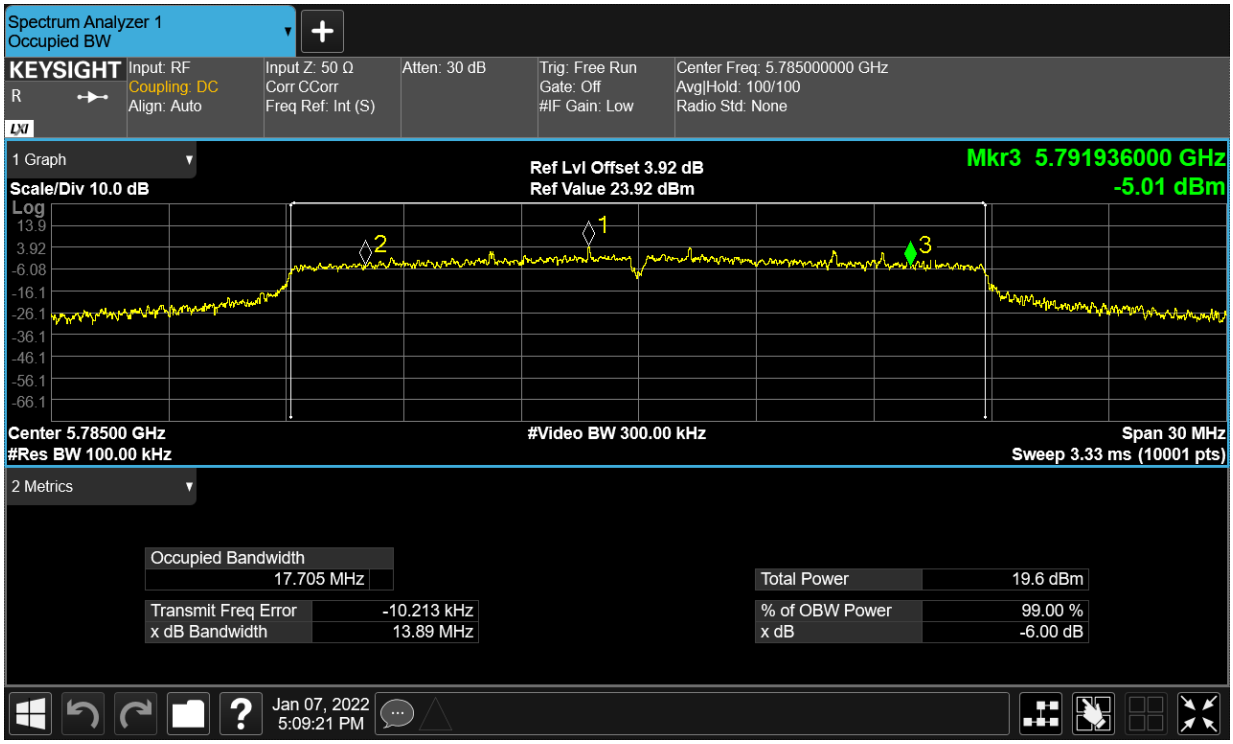
-6dB Bandwidth NVNT ac20 5745MHz Ant1



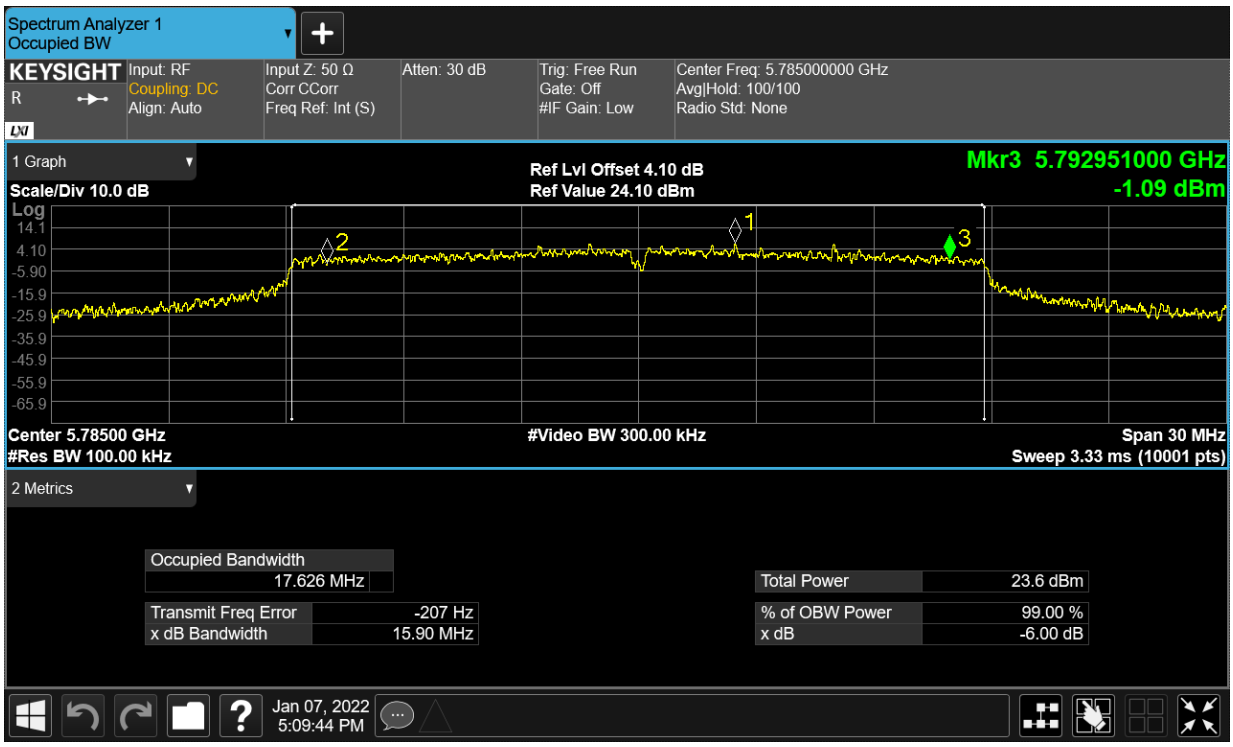
-6dB Bandwidth NVNT ac20 5745MHz Ant2



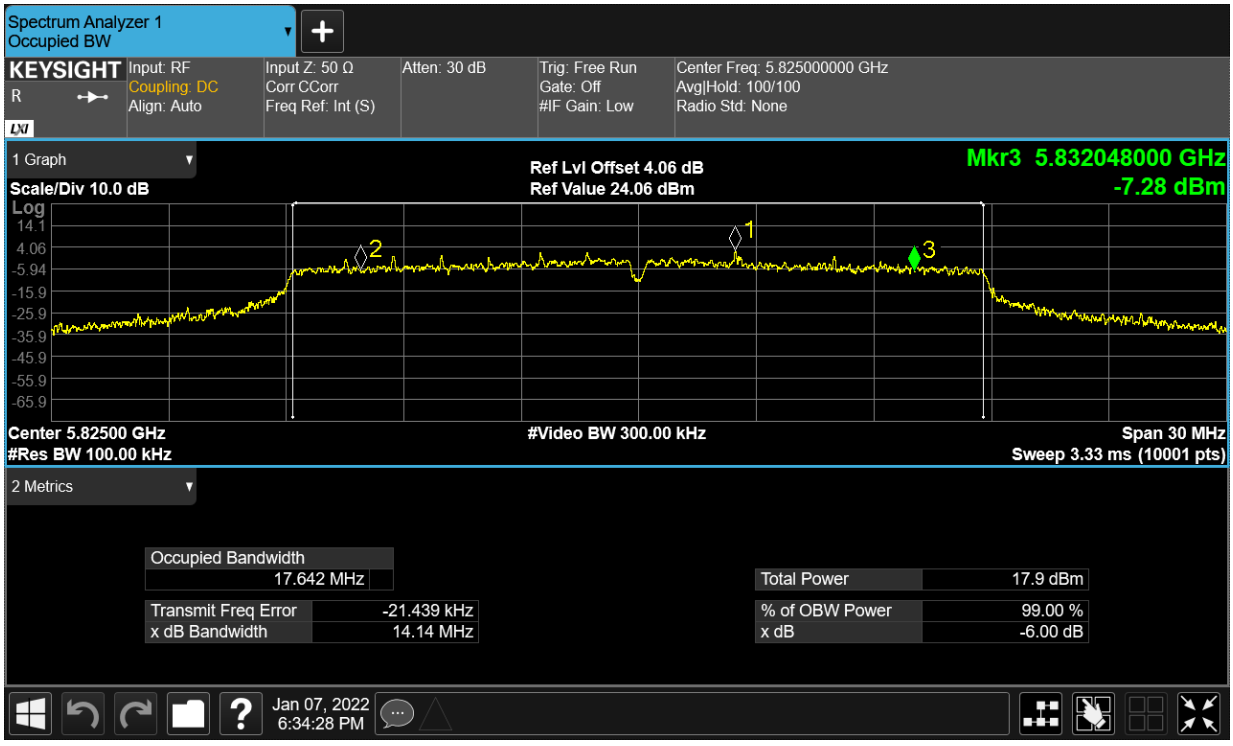
-6dB Bandwidth NVNT ac20 5785MHz Ant1



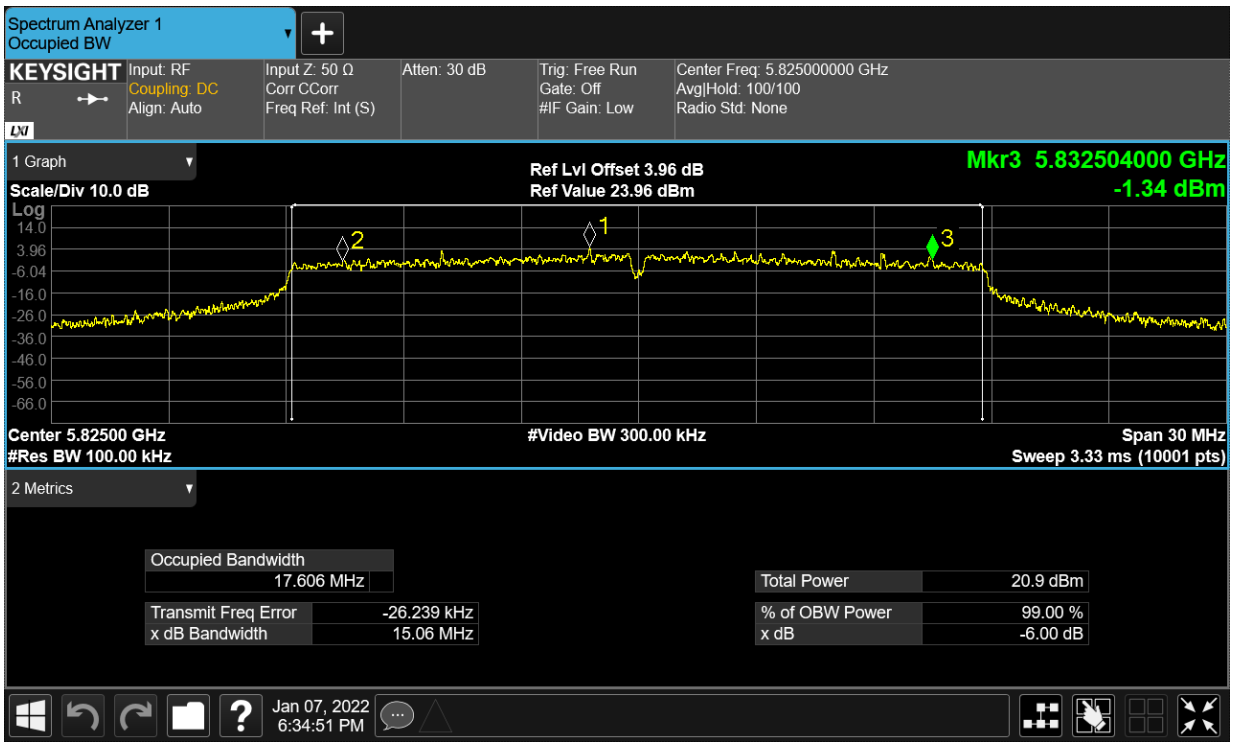
-6dB Bandwidth NVNT ac20 5785MHz Ant2



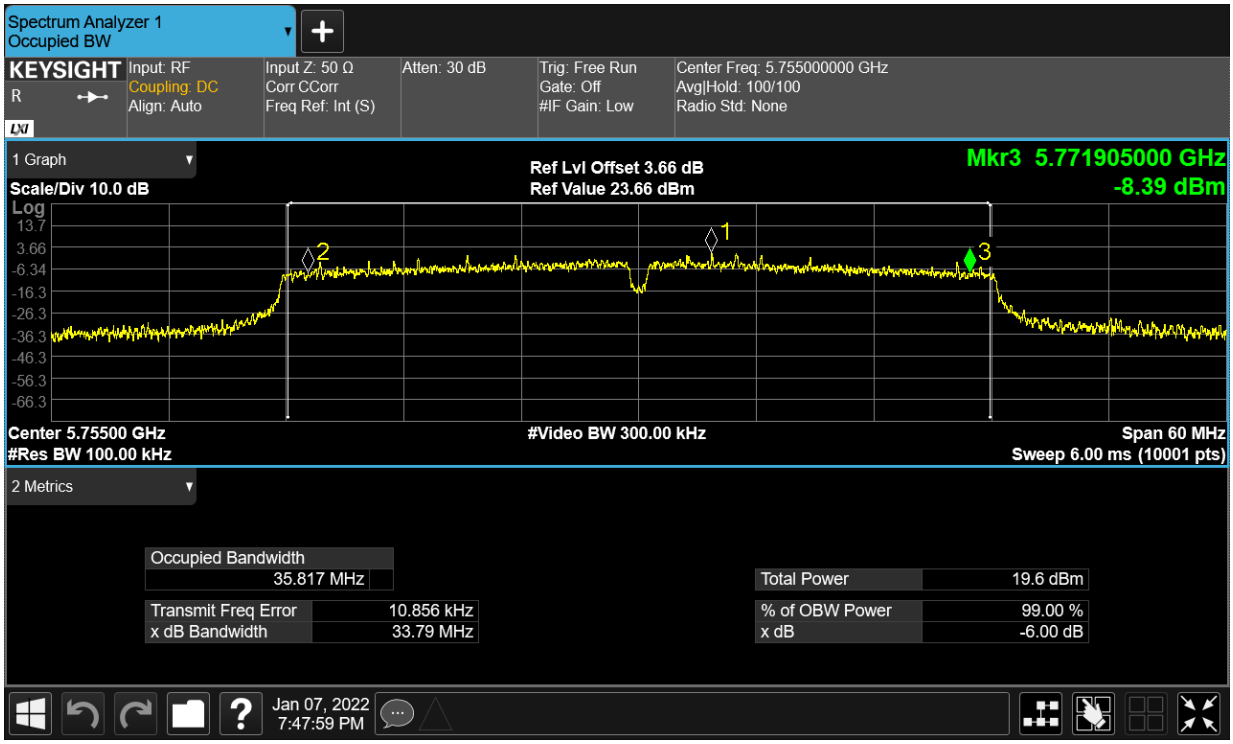
-6dB Bandwidth NVNT ac20 5825MHz Ant1



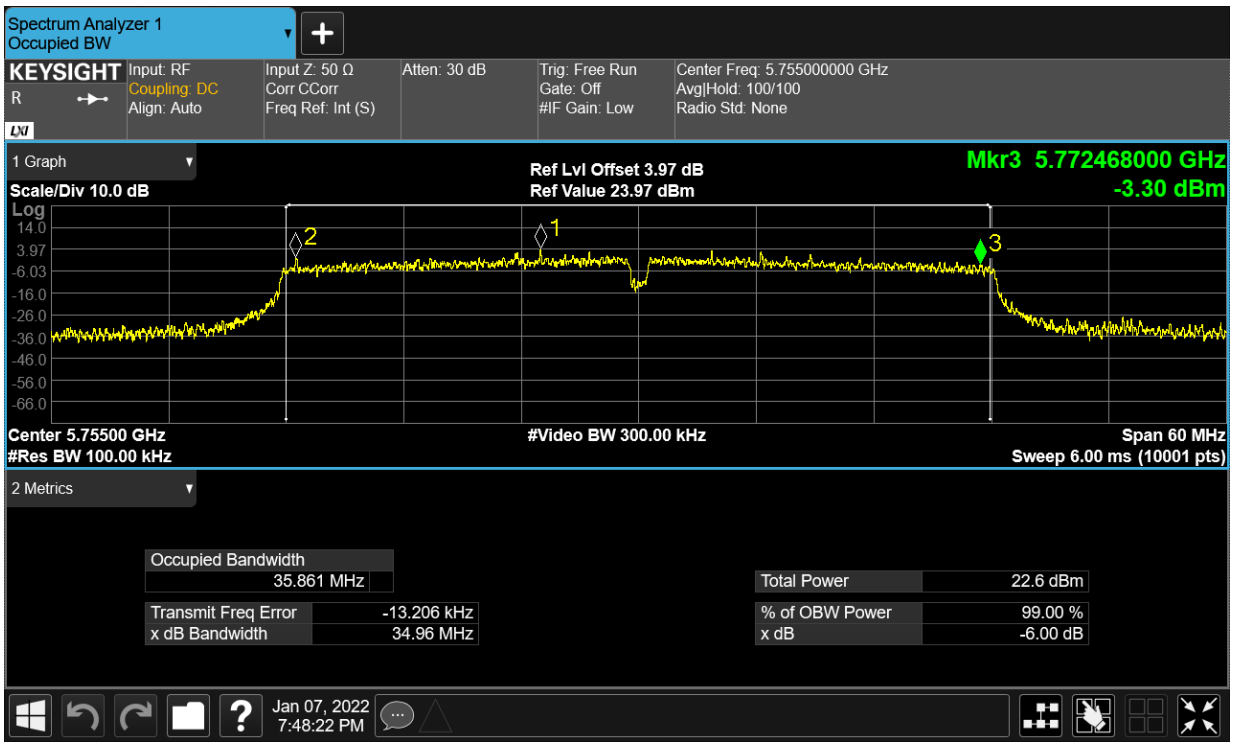
-6dB Bandwidth NVNT ac20 5825MHz Ant2



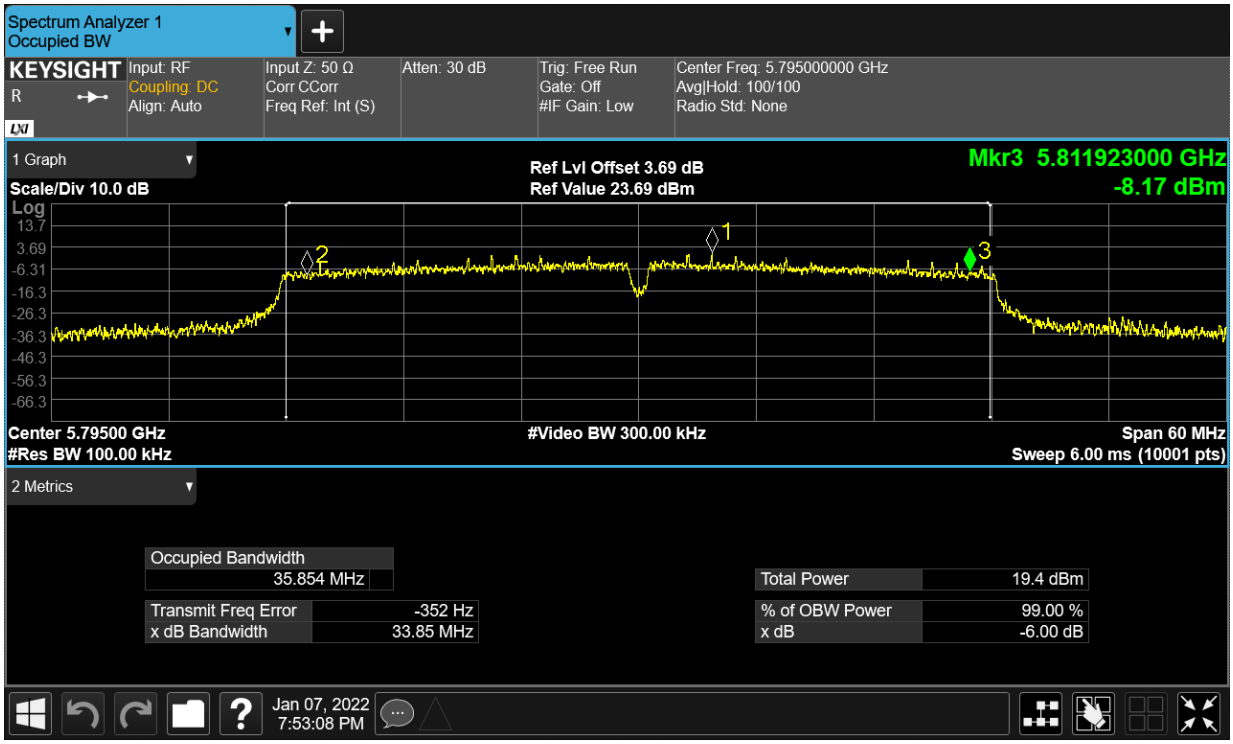
-6dB Bandwidth NVNT ac40 5755MHz Ant1



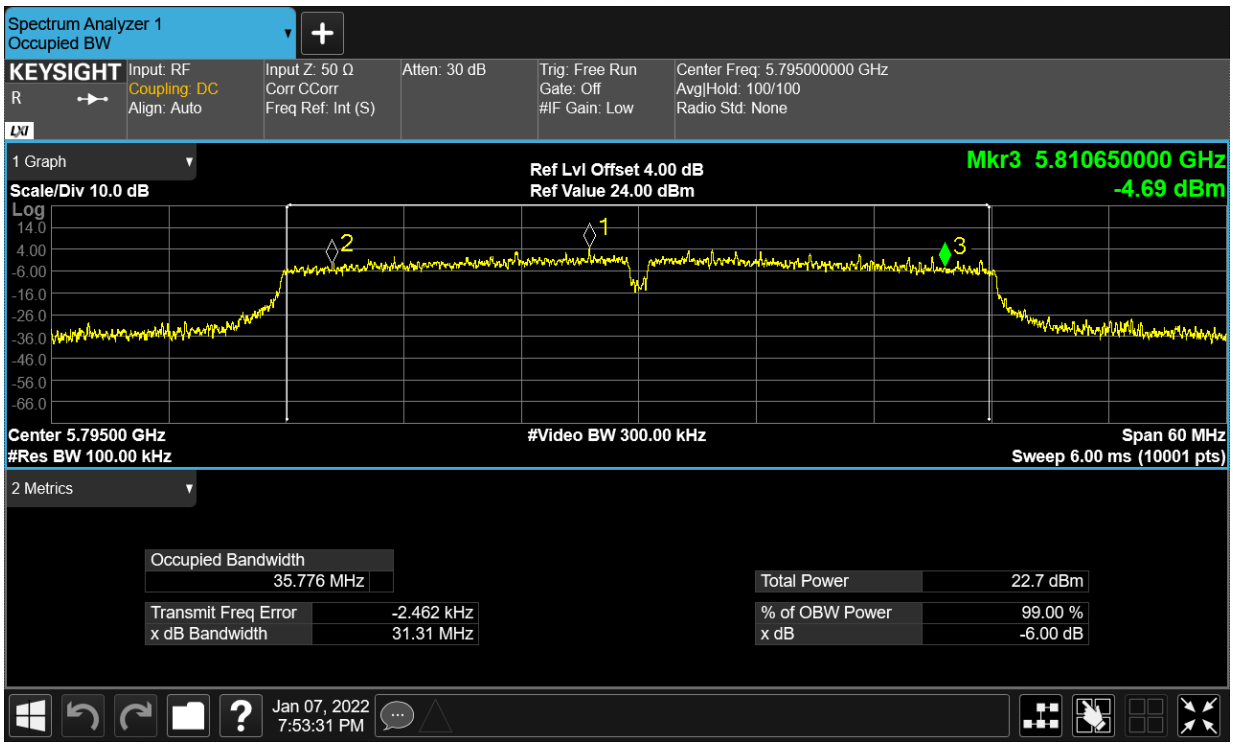
-6dB Bandwidth NVNT ac40 5755MHz Ant2



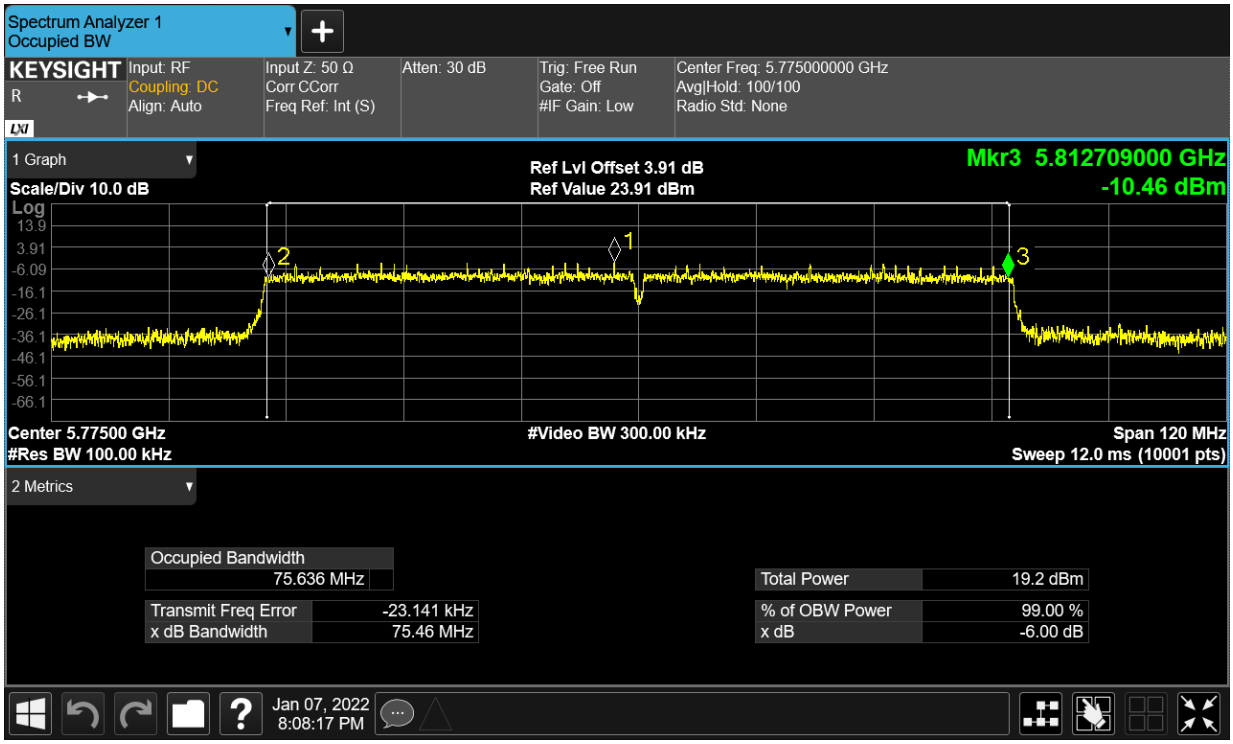
-6dB Bandwidth NVNT ac40 5795MHz Ant1



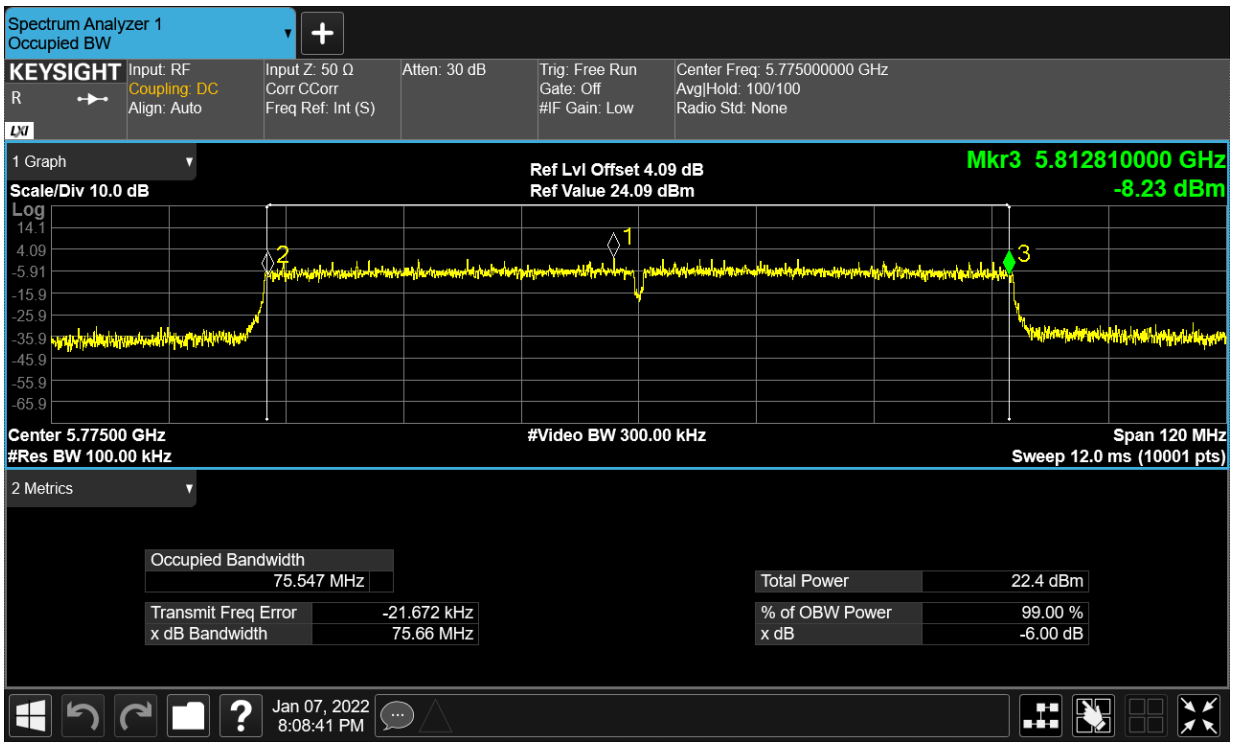
-6dB Bandwidth NVNT ac40 5795MHz Ant2



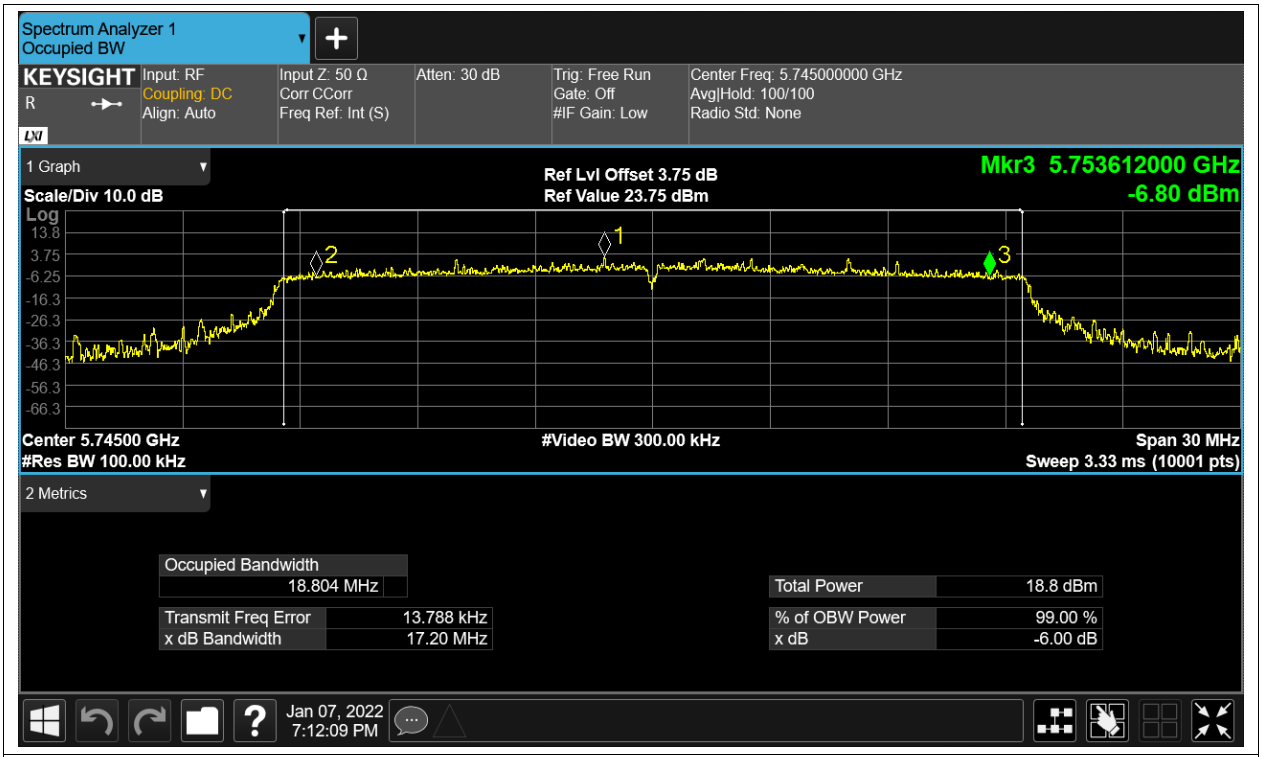
-6dB Bandwidth NVNT ac80 5775MHz Ant1



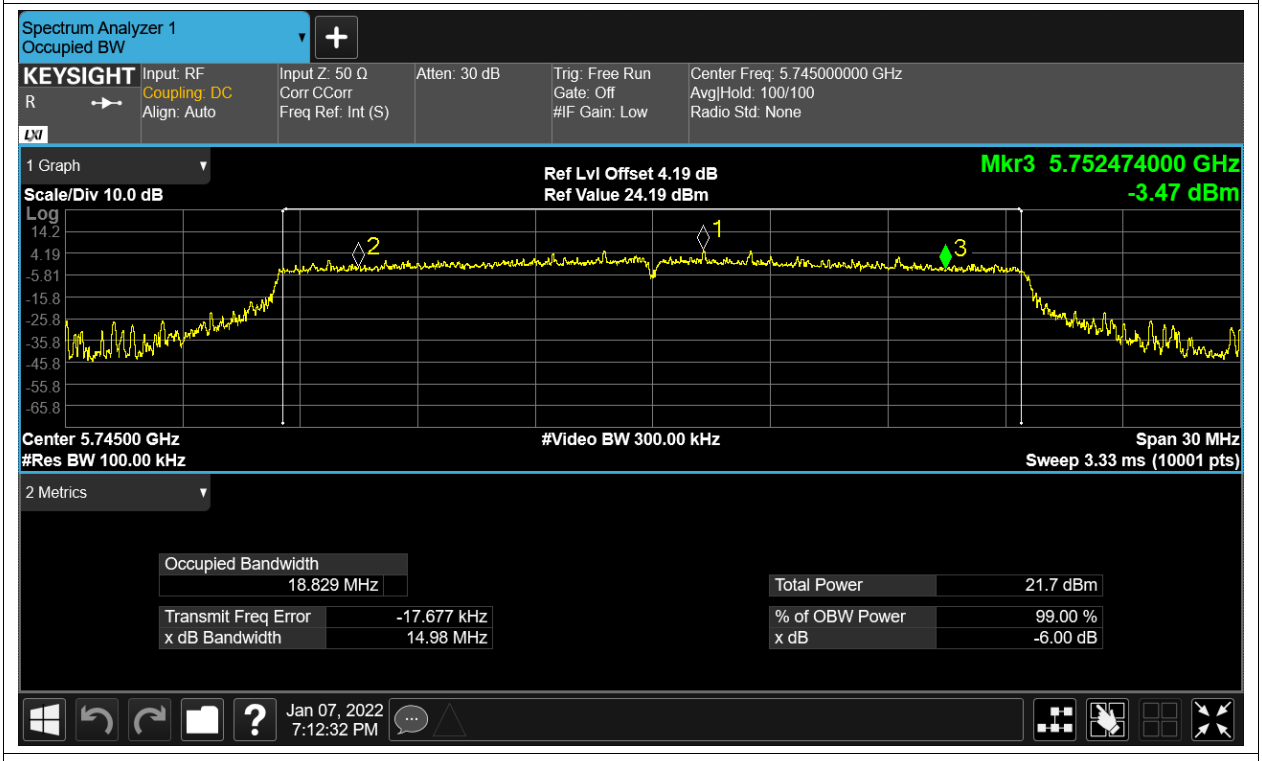
-6dB Bandwidth NVNT ac80 5775MHz Ant2



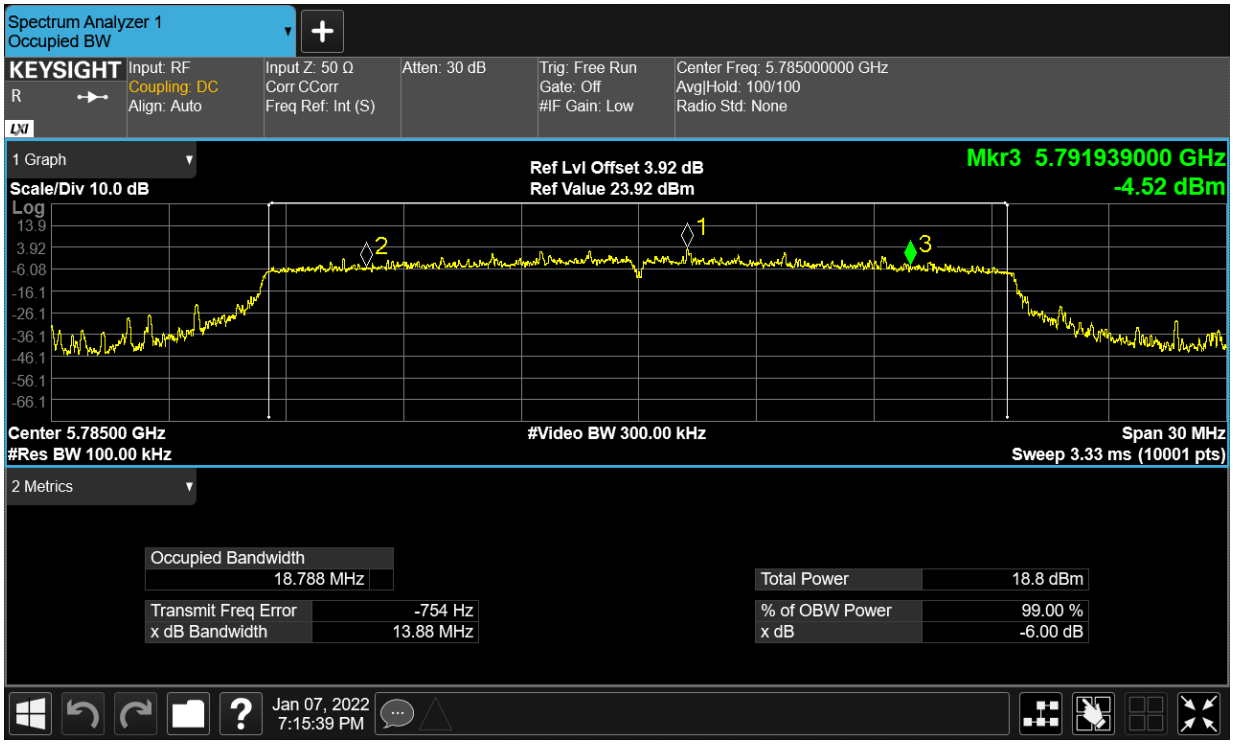
-6dB Bandwidth NVNT ax20 5745MHz Ant1



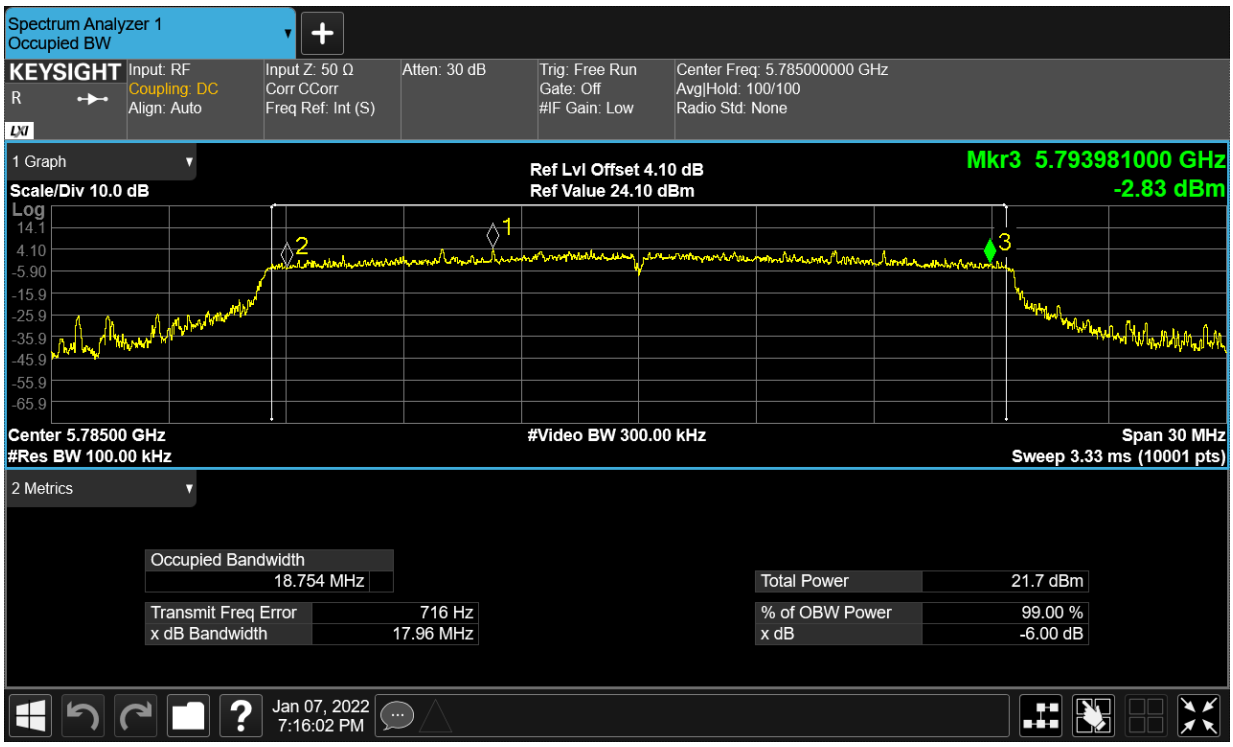
-6dB Bandwidth NVNT ax20 5745MHz Ant2



-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5785MHz Ant2



-6dB Bandwidth NVNT ax20 5825MHz Ant1