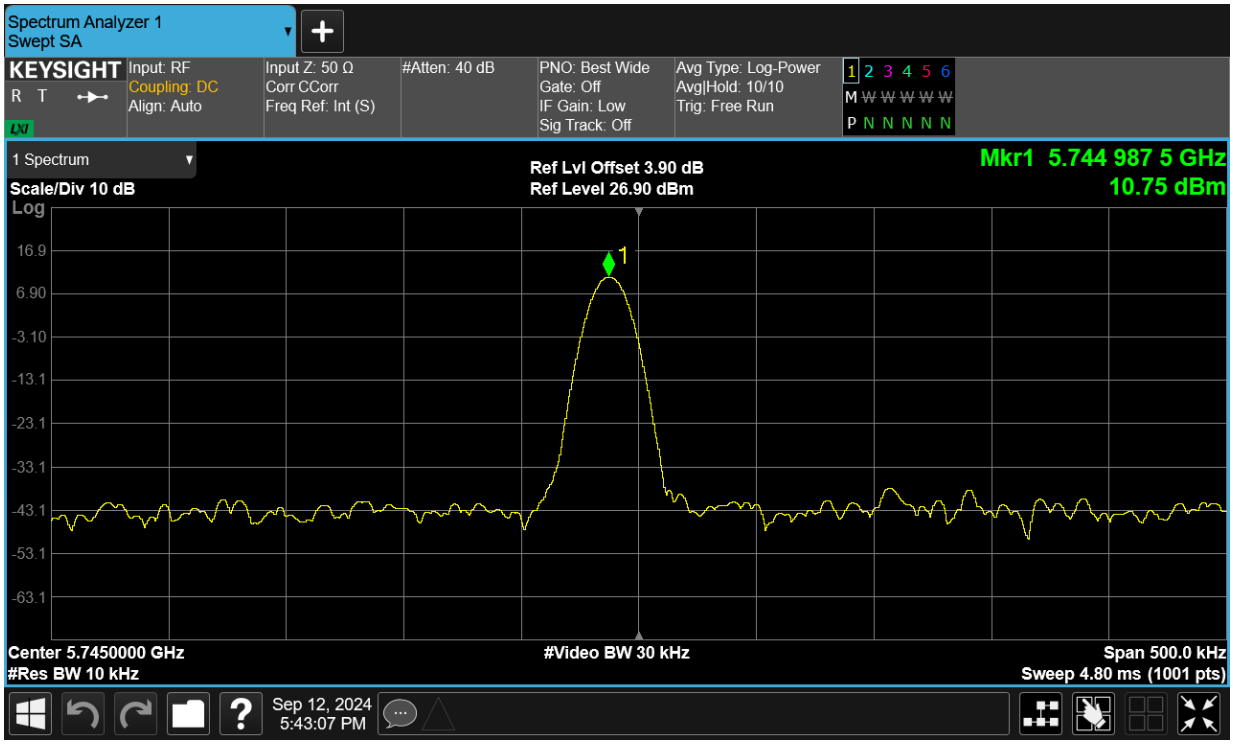
Test Data

Frequency Stability

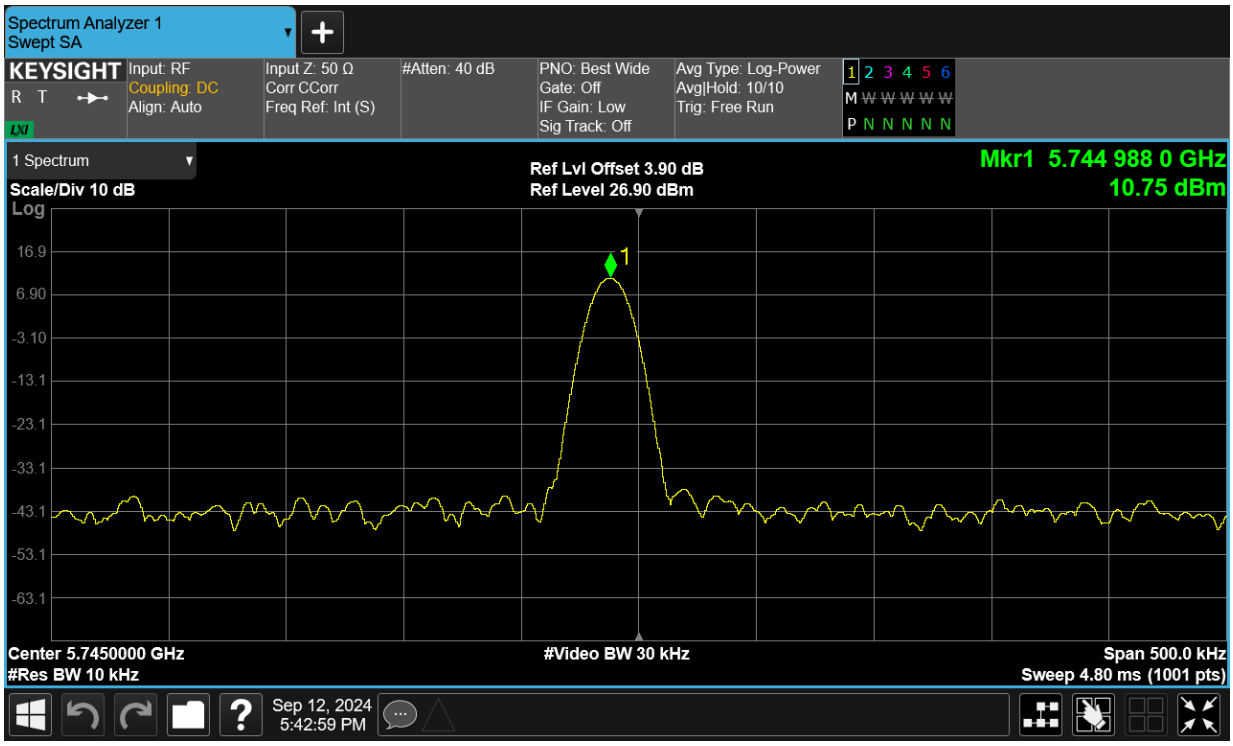
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant1	5744.9875	-2.18	Within authorized band	Pass
LVNT	a	5745	Ant1	5744.988	-2.09		Pass
NVHT	a	5745	Ant1	5744.988	-2.09		Pass
NVLT	a	5745	Ant1	5744.989	-1.91		Pass
NVNT	a	5745	Ant1	5744.9885	-2		Pass
HVNT	ac80	5775	Ant1	5774.986	-2.42		Pass
LVNT	ac80	5775	Ant1	5774.986	-2.42		Pass
NVHT	ac80	5775	Ant1	5774.986	-2.42		Pass
NVLT	ac80	5775	Ant1	5774.9855	-2.51		Pass
NVNT	ac80	5775	Ant1	5774.9855	-2.51		Pass
HVNT	n40	5755	Ant1	5754.9855	-2.52		Pass
LVNT	n40	5755	Ant1	5754.9855	-2.52		Pass
NVHT	n40	5755	Ant1	5754.9855	-2.52		Pass
NVLT	n40	5755	Ant1	5754.986	-2.43		Pass
NVNT	n40	5755	Ant1	5754.9865	-2.35		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

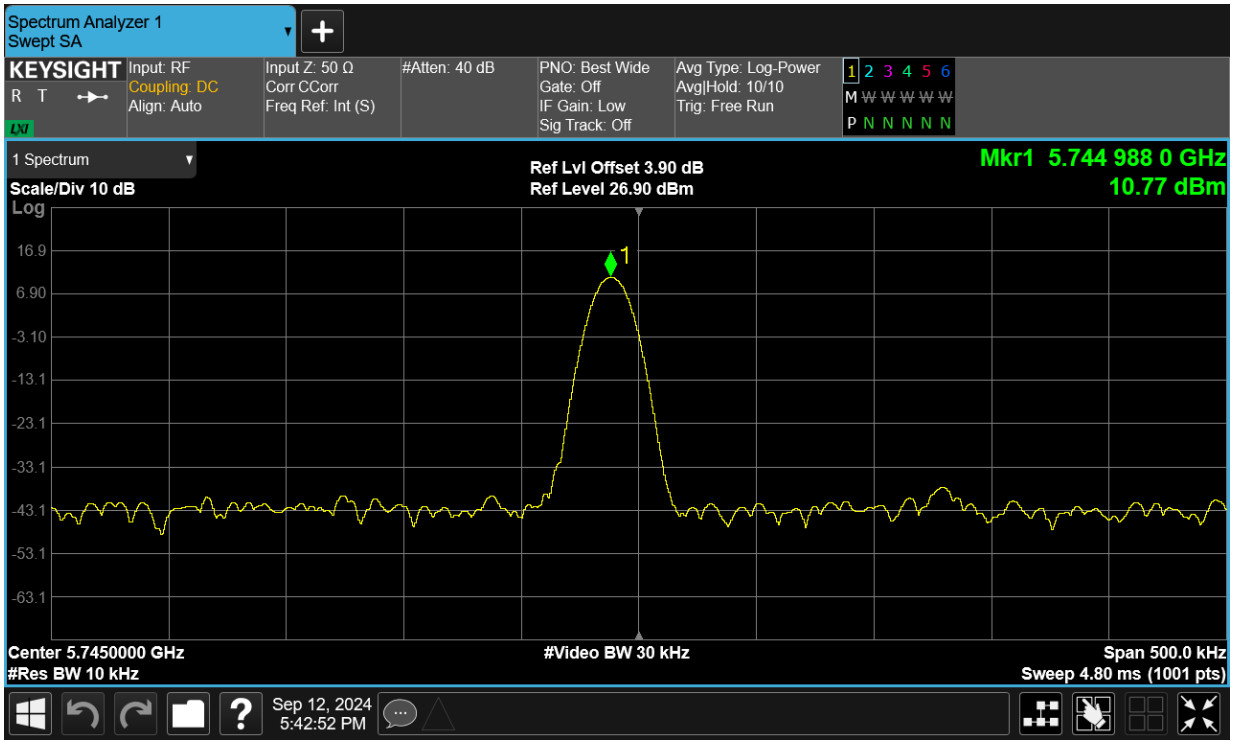
Freq. Stability HVNT a 5745MHz Ant1



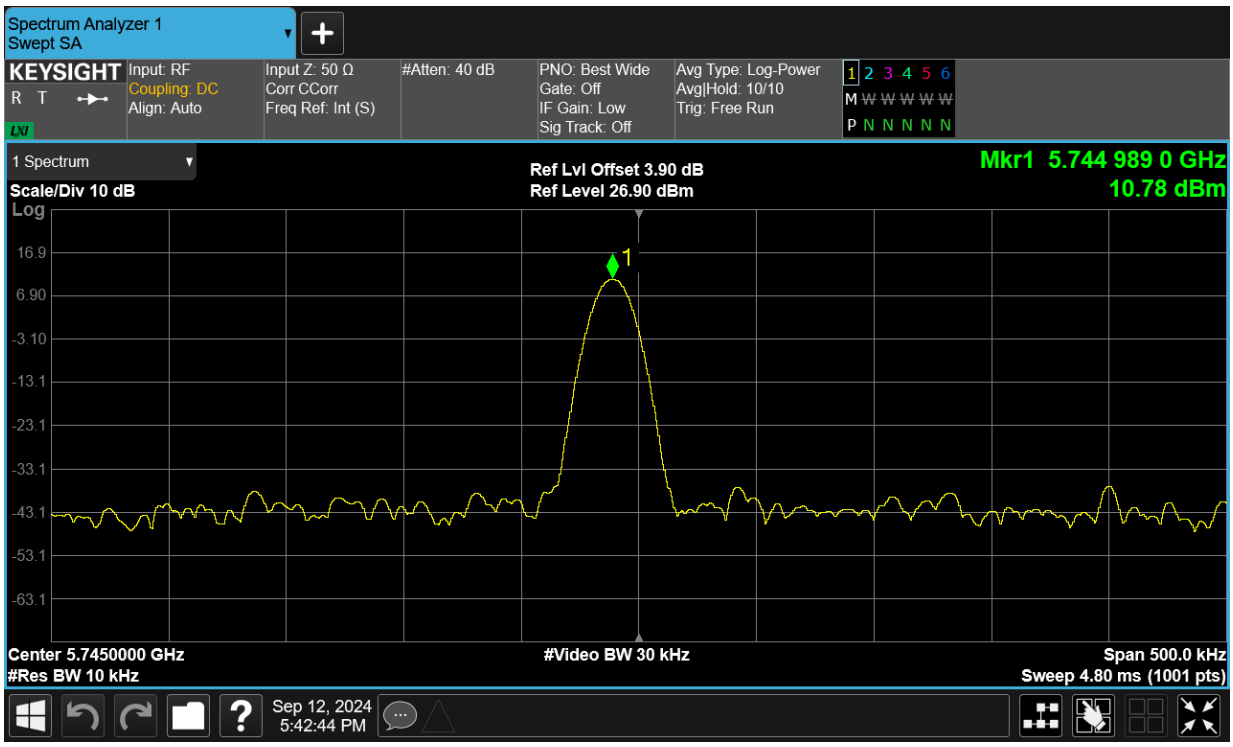
Freq. Stability LVNT a 5745MHz Ant1



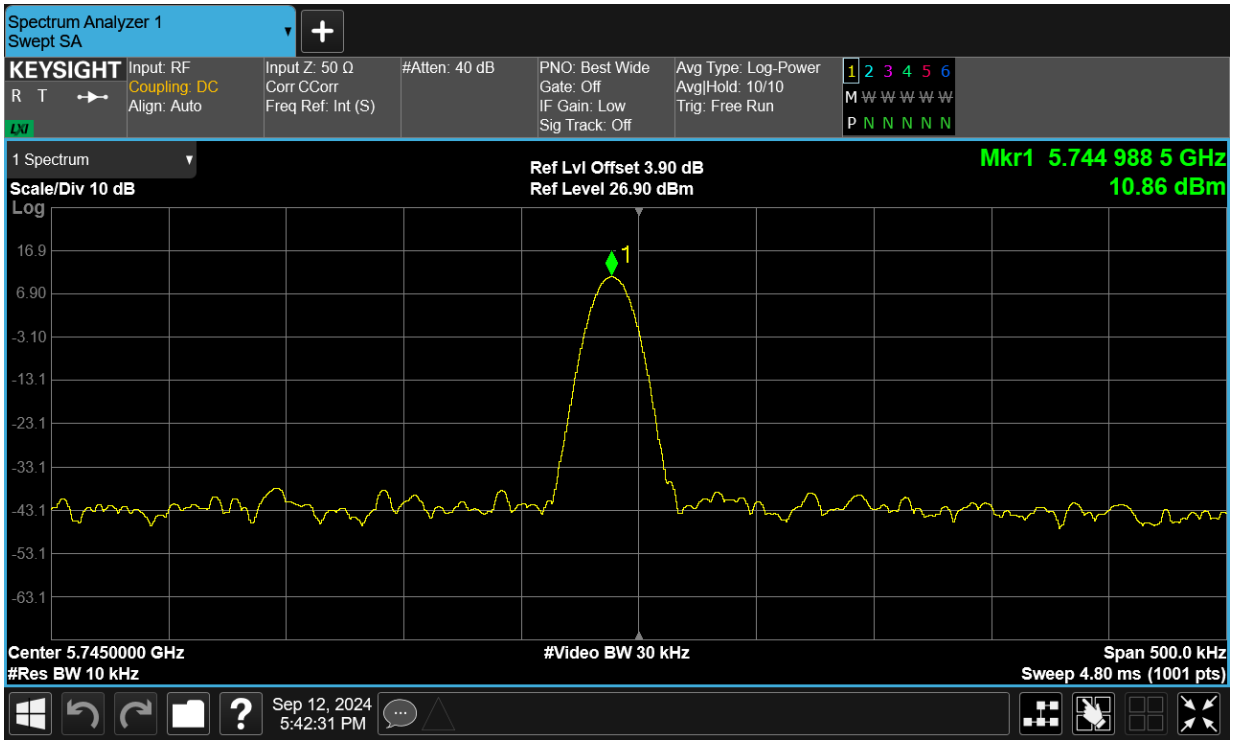
Freq. Stability NVHT a 5745MHz Ant1



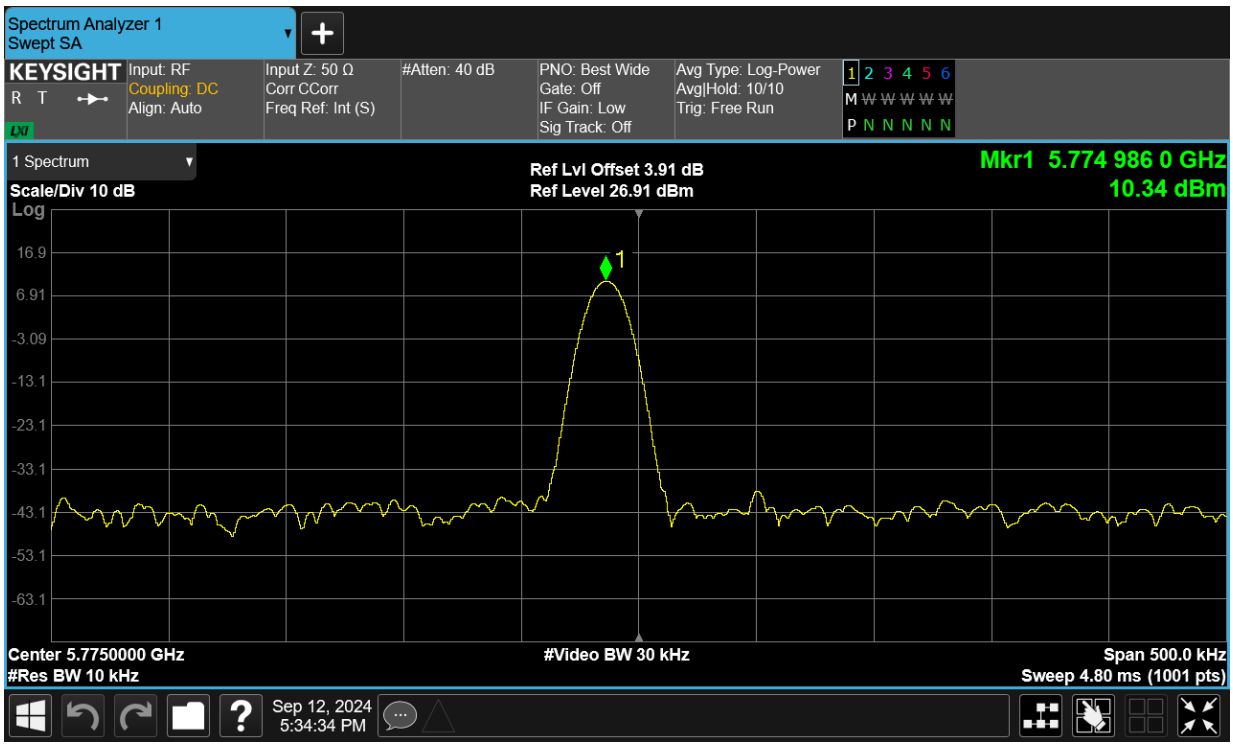
Freq. Stability NVLT a 5745MHz Ant1



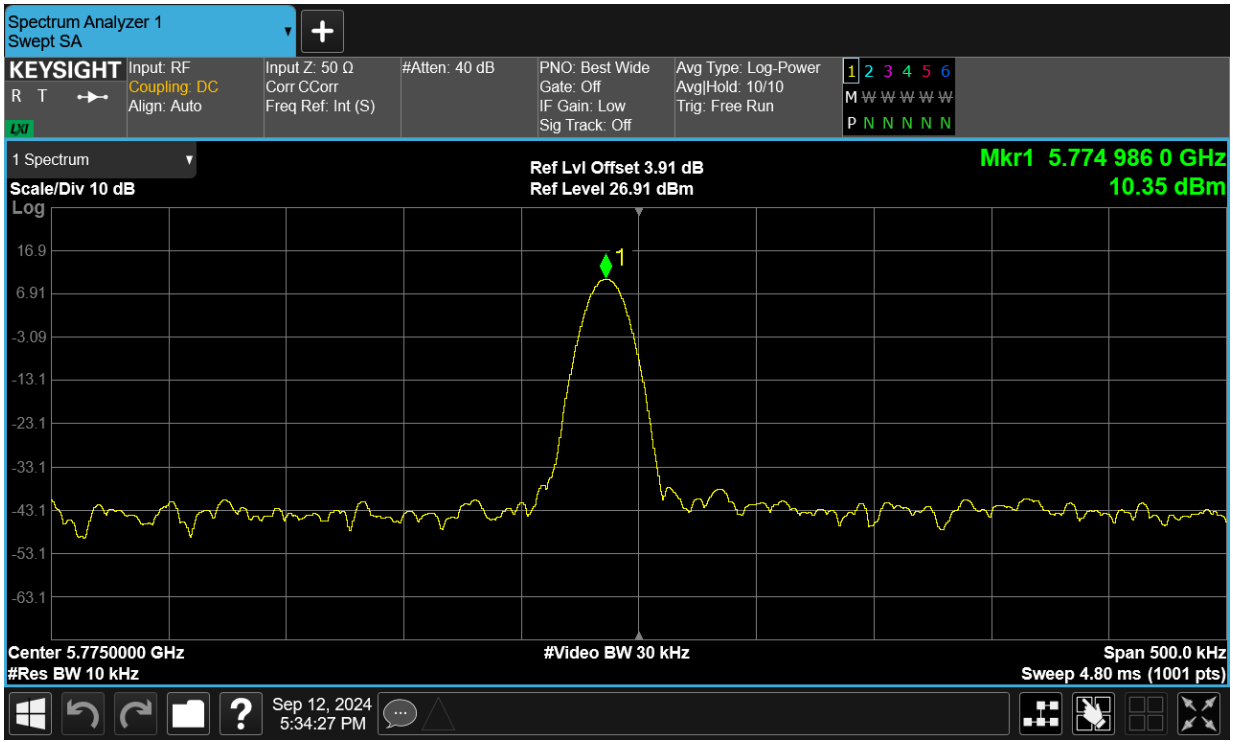
Freq. Stability NVNT a 5745MHz Ant1



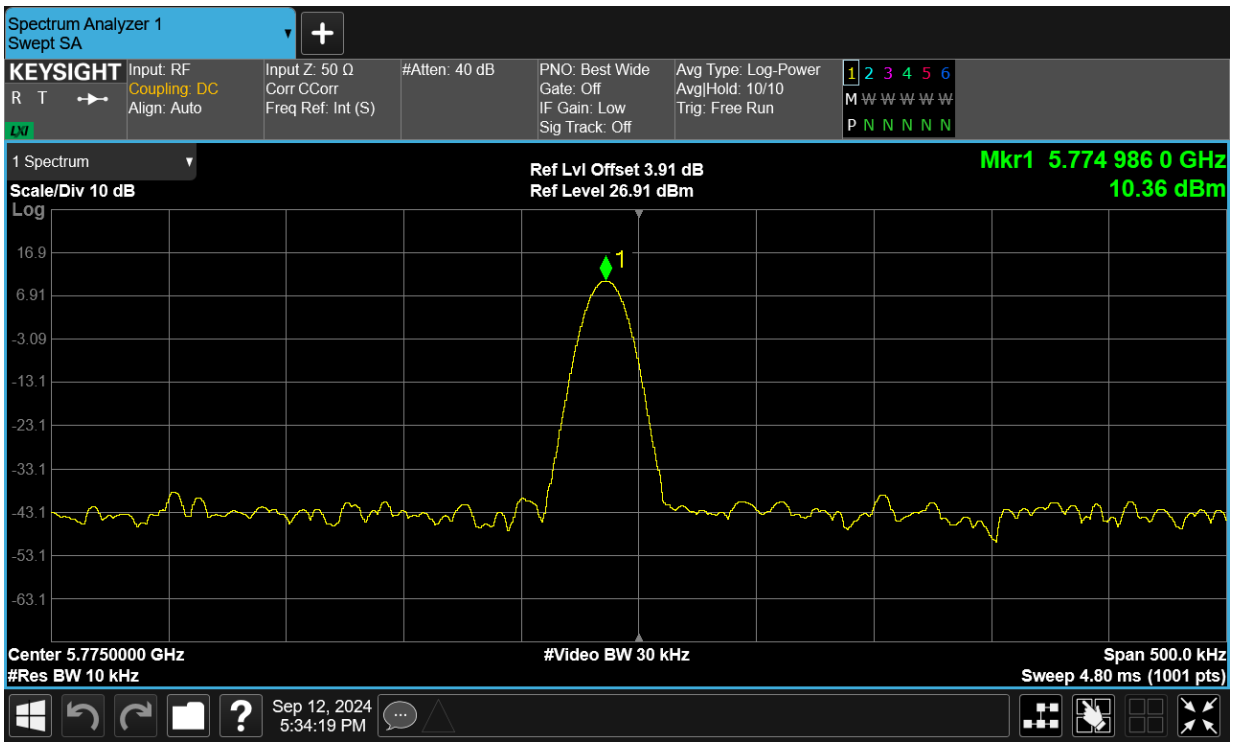
Freq. Stability HVNT ac80 5775MHz Ant1



Freq. Stability LVNT ac80 5775MHz Ant1

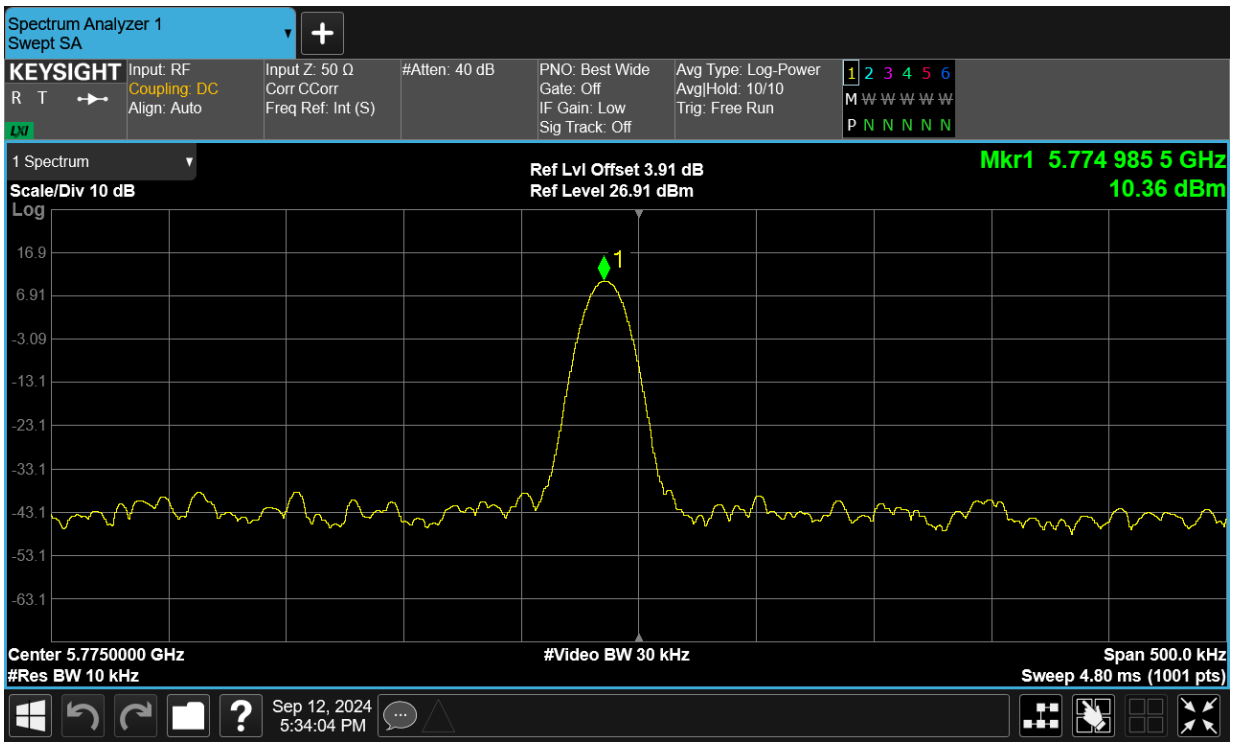


Freq. Stability NVHT ac80 5775MHz Ant1

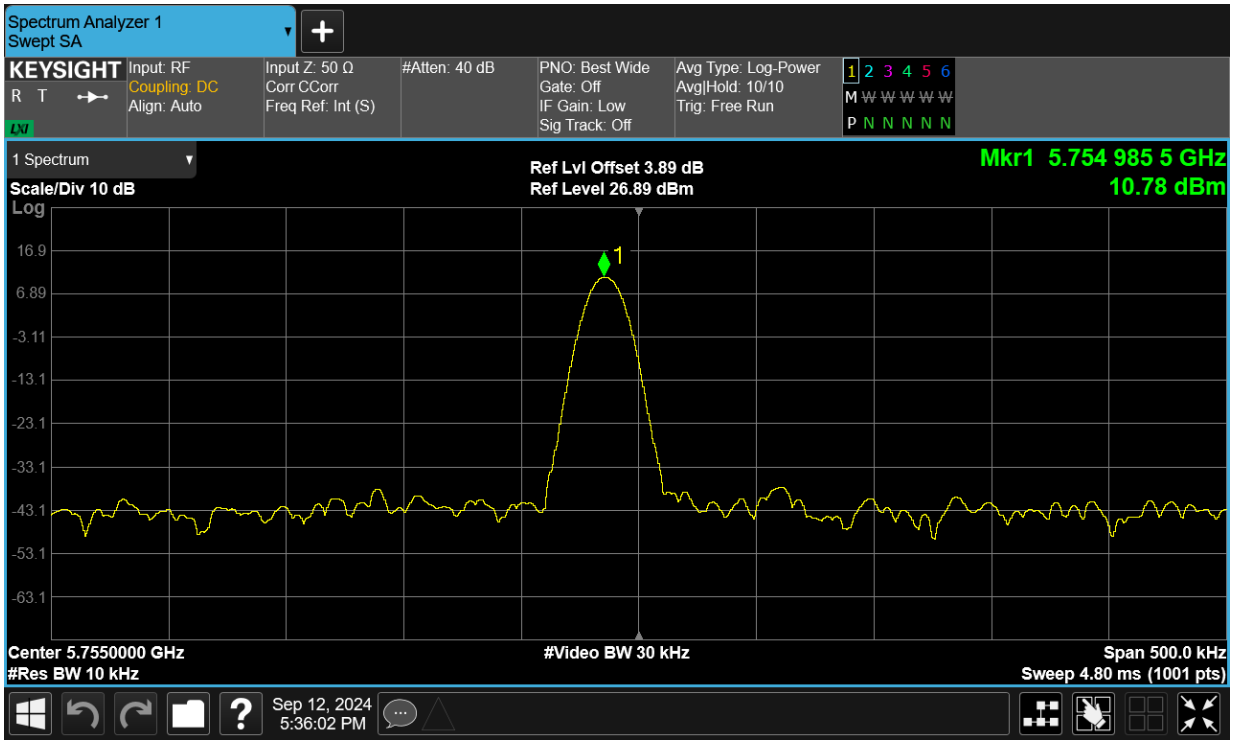


Freq. Stability NVLT ac80 5775MHz Ant1

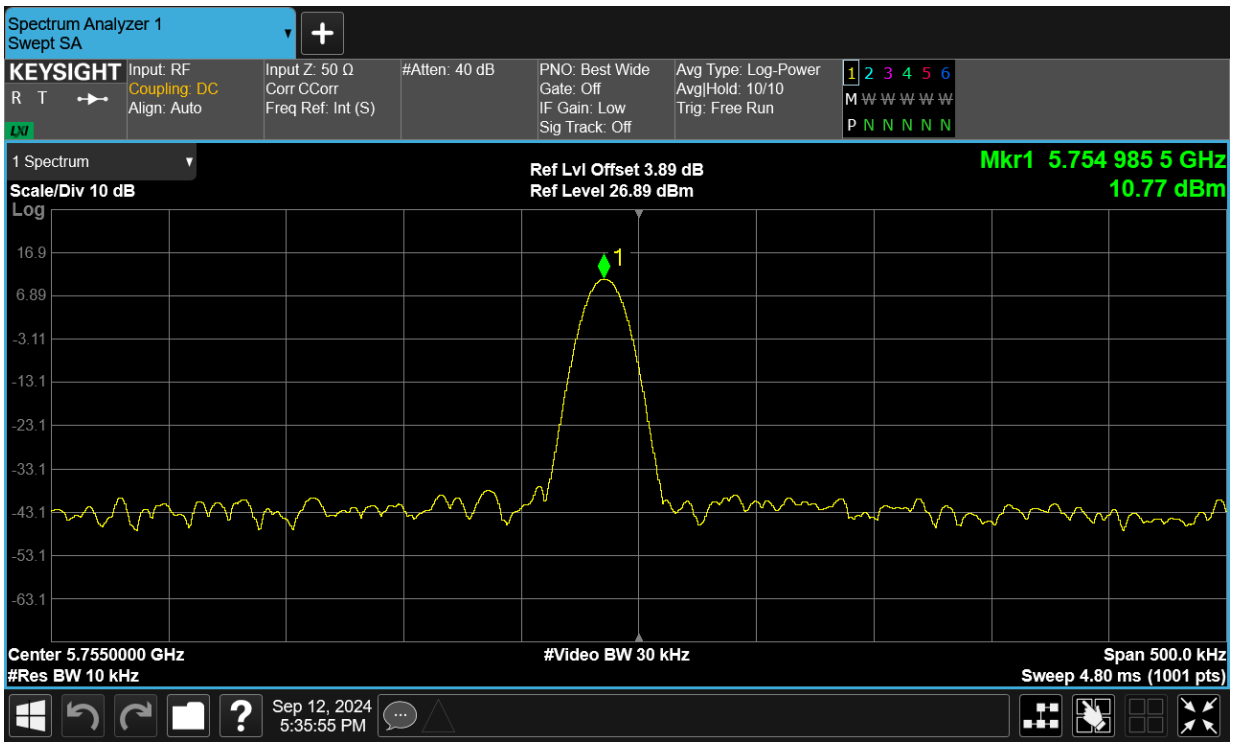
Freq. Stability NVNT ac80 5775MHz Ant1



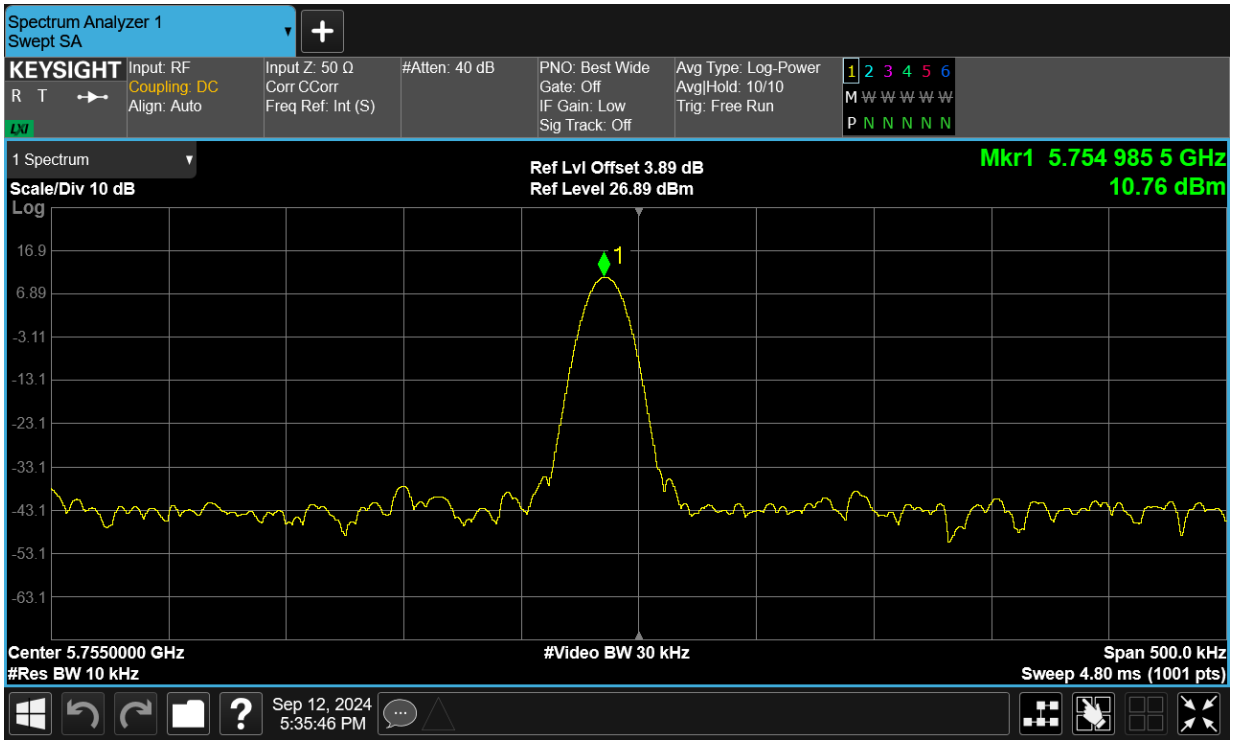
Freq. Stability HVNT n40 5755MHz Ant1



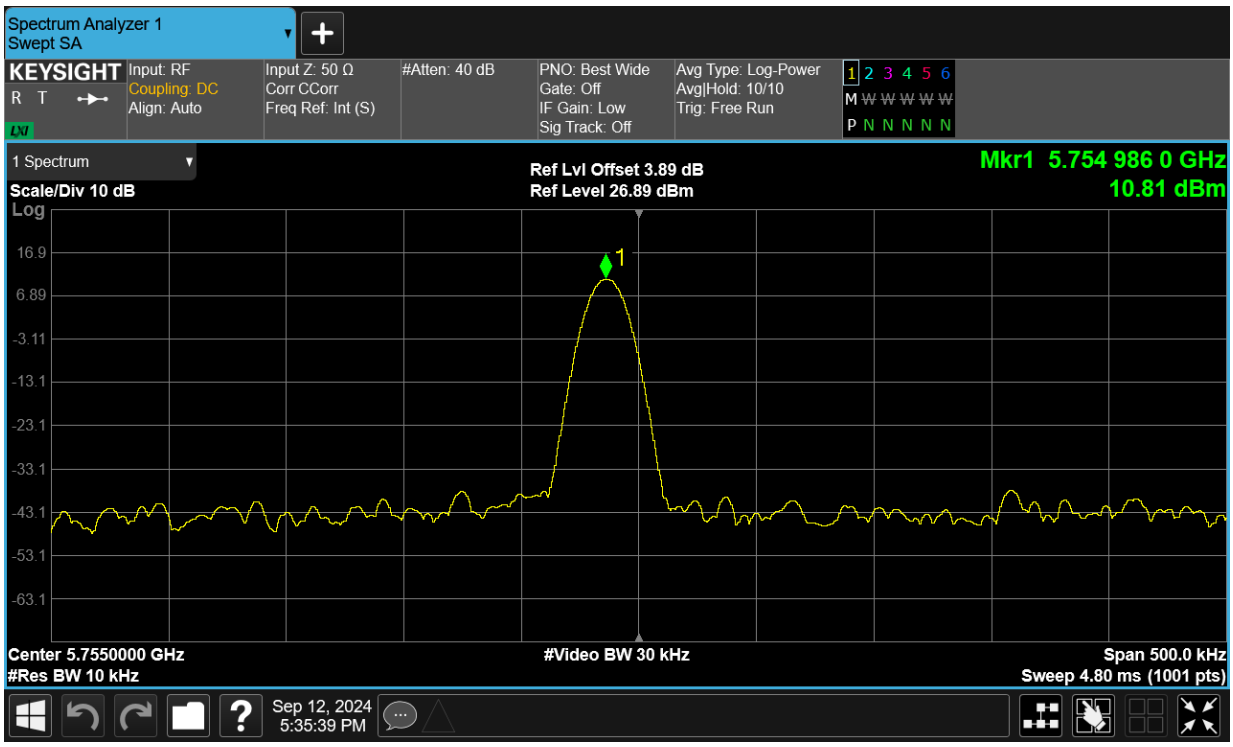
Freq. Stability LVNT n40 5755MHz Ant1



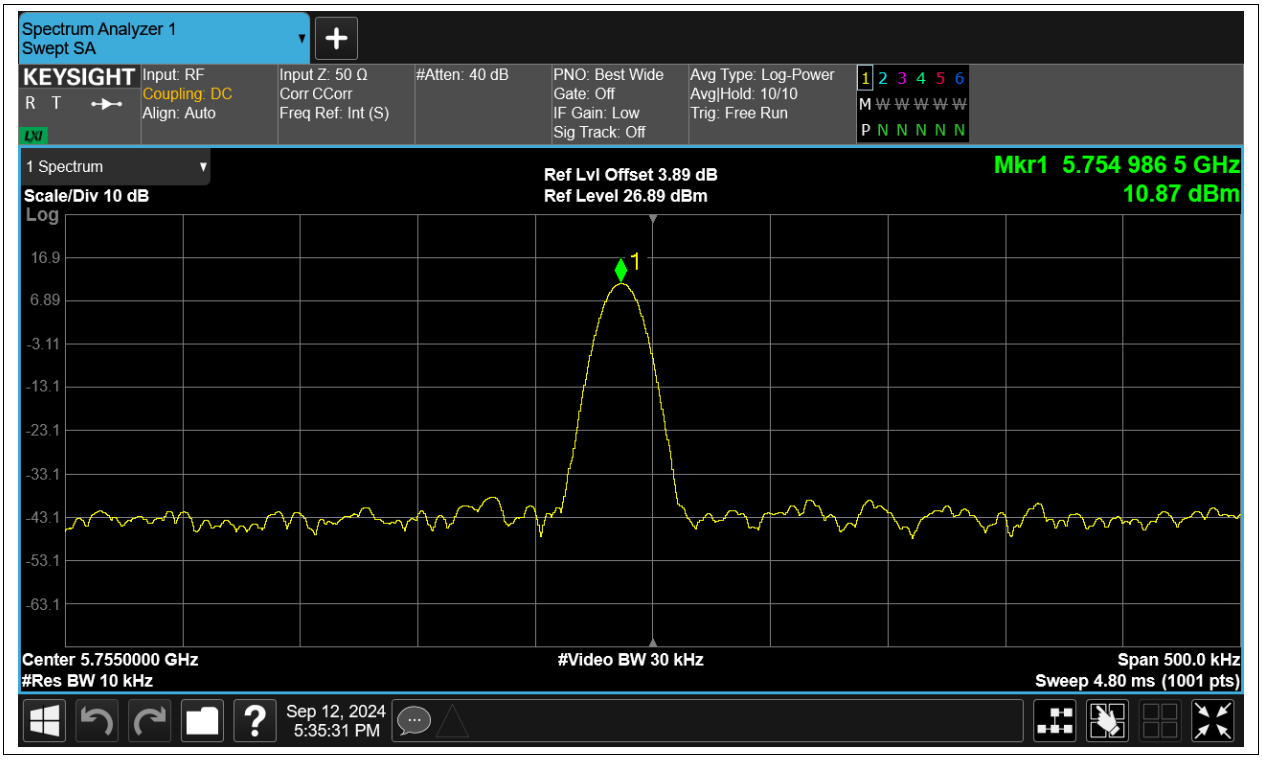
Freq. Stability NVHT n40 5755MHz Ant1



Freq. Stability NVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1

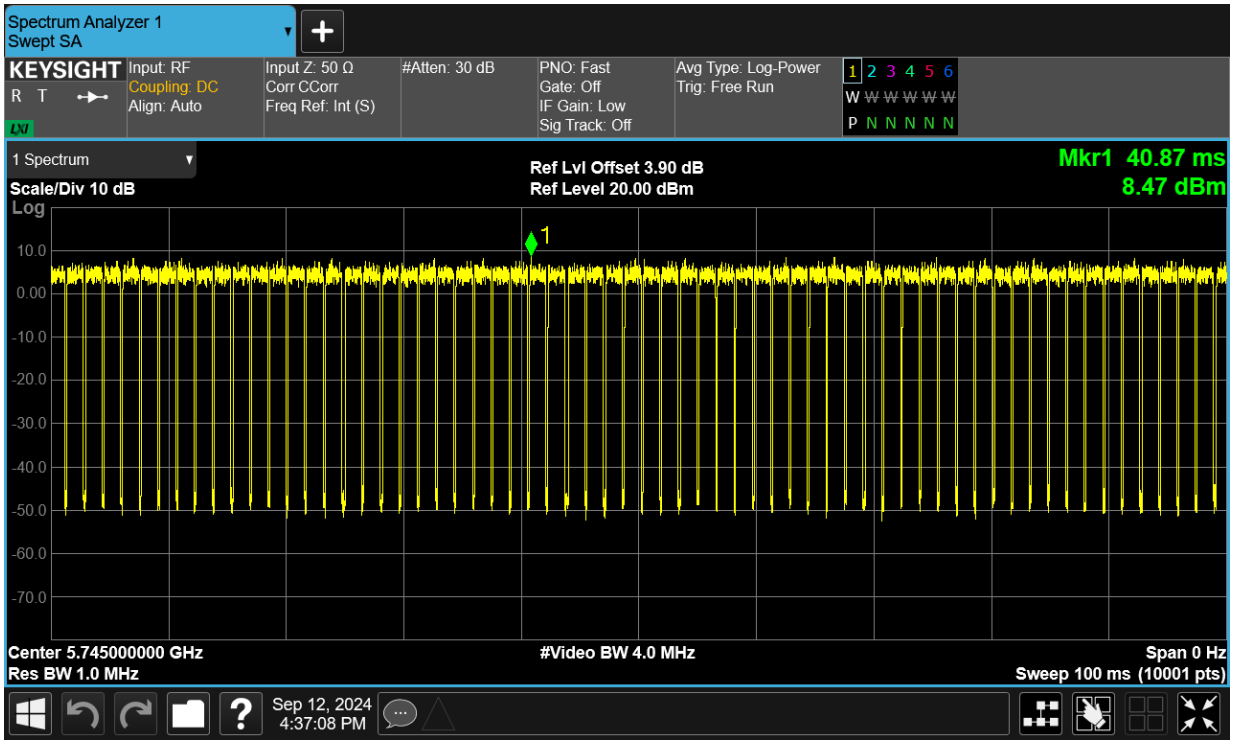

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.89 dB
Ref Level 26.89 dBm
Mkr1 5.754 986 5 GHz
10.87 dBm
16.9
6.89
-3.11
-13.1
-23.1
-33.1
-43.1
-53.1
-63.1
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Sep 12, 2024
5:35:31 PM

Duty Cycle

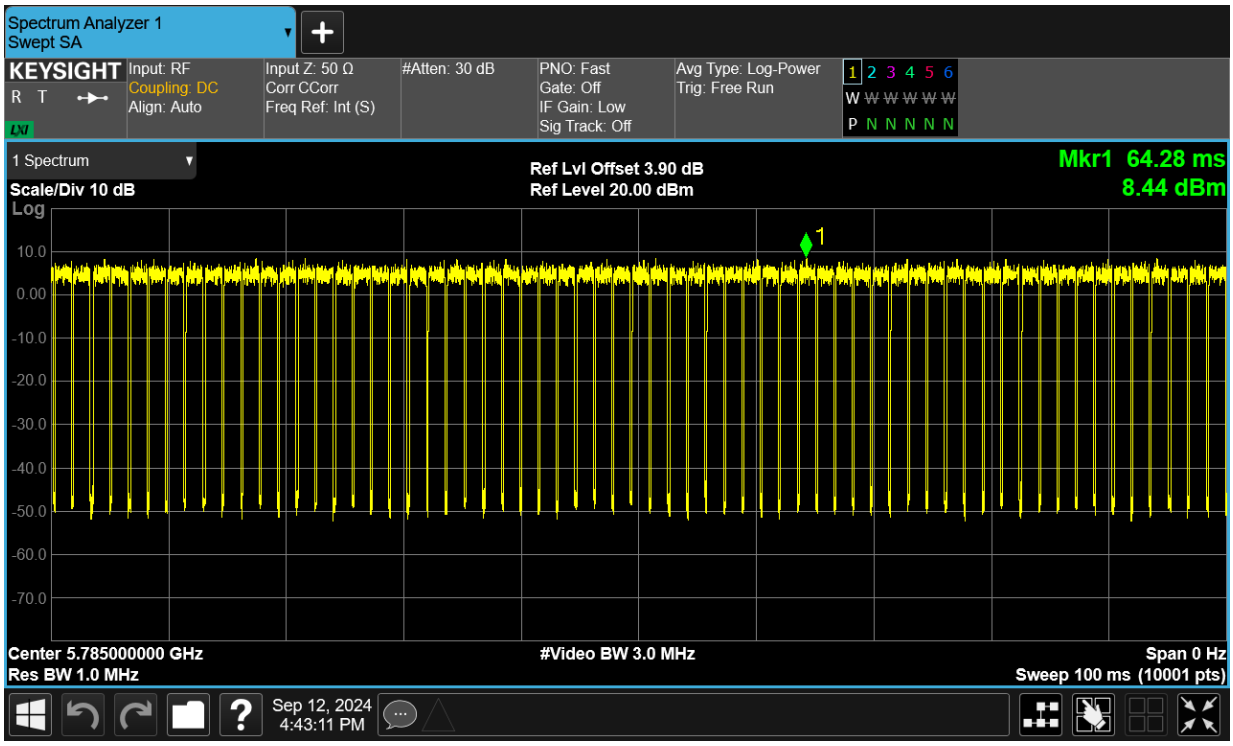
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	89.09	0.5
NVNT	a	5785	Ant1	88.58	0.53
NVNT	a	5825	Ant1	88.27	0.54
NVNT	ac20	5745	Ant1	87.41	0.58
NVNT	ac20	5785	Ant1	87.02	0.6
NVNT	ac20	5825	Ant1	87.52	0.58
NVNT	ac40	5755	Ant1	77.28	1.12
NVNT	ac40	5795	Ant1	77.75	1.09
NVNT	ac80	5775	Ant1	64.23	1.92
NVNT	n20	5745	Ant1	87.38	0.59
NVNT	n20	5785	Ant1	87.13	0.6
NVNT	n20	5825	Ant1	87.03	0.6
NVNT	n40	5755	Ant1	77.59	1.1
NVNT	n40	5795	Ant1	77.26	1.12

Test Graphs

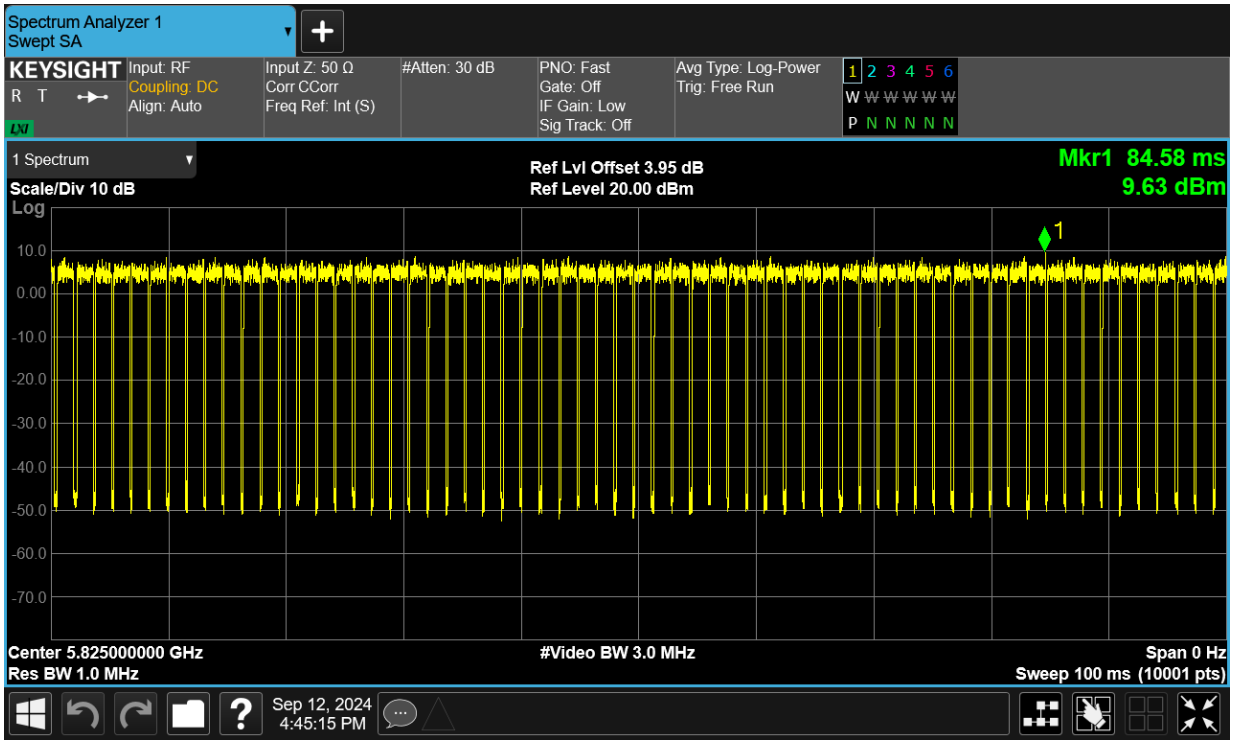
Duty Cycle NVNT a 5745MHz Ant1



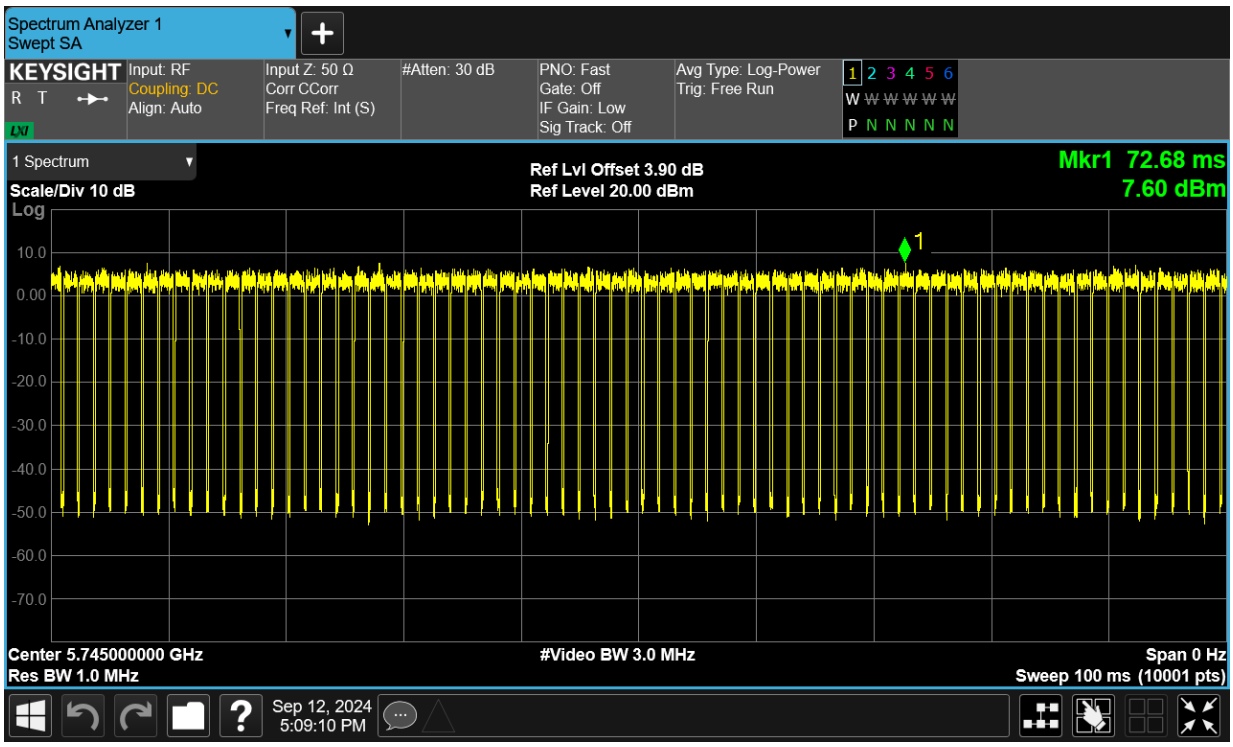
Duty Cycle NVNT a 5785MHz Ant1



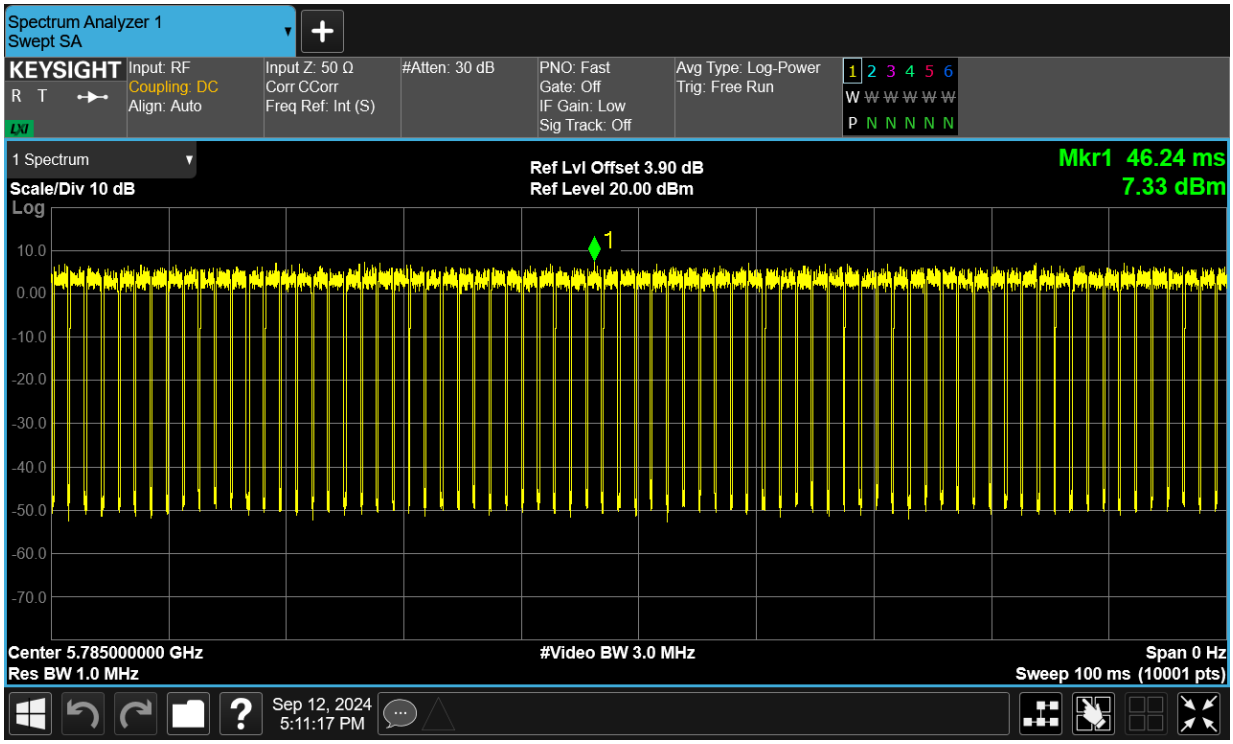
Duty Cycle NVNT a 5825MHz Ant1



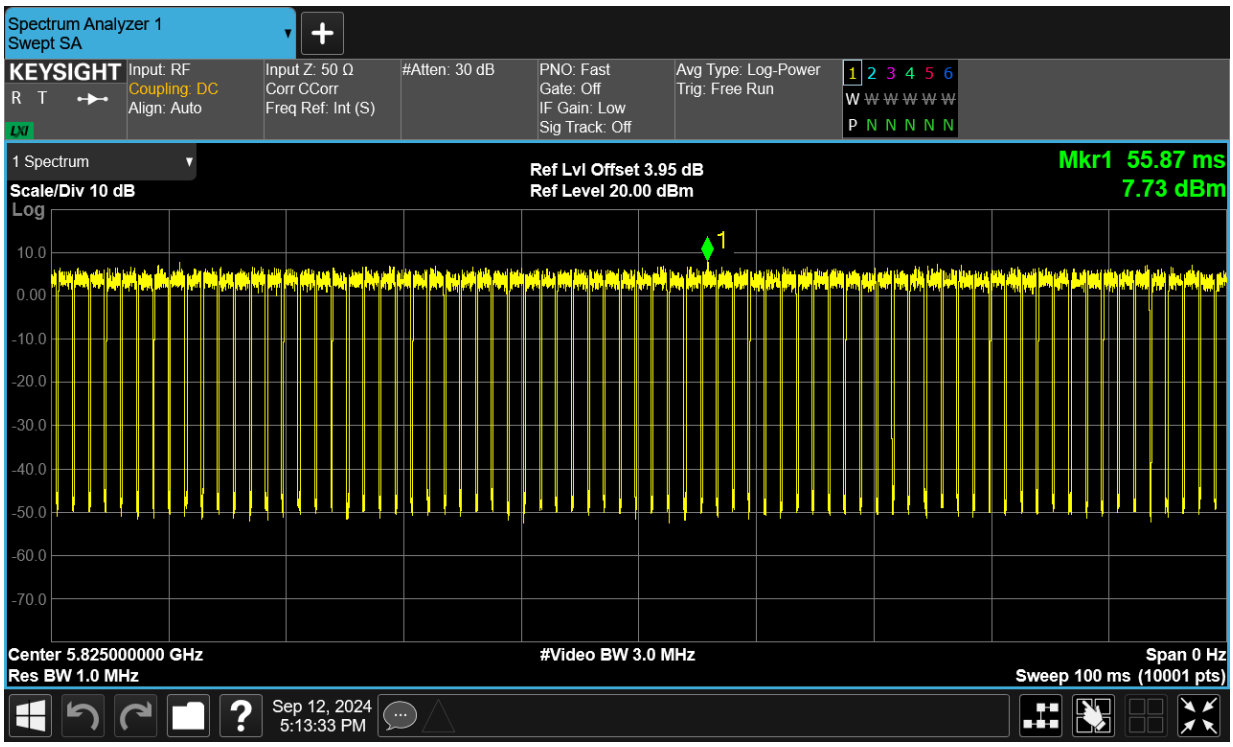
Duty Cycle NVNT ac20 5745MHz Ant1



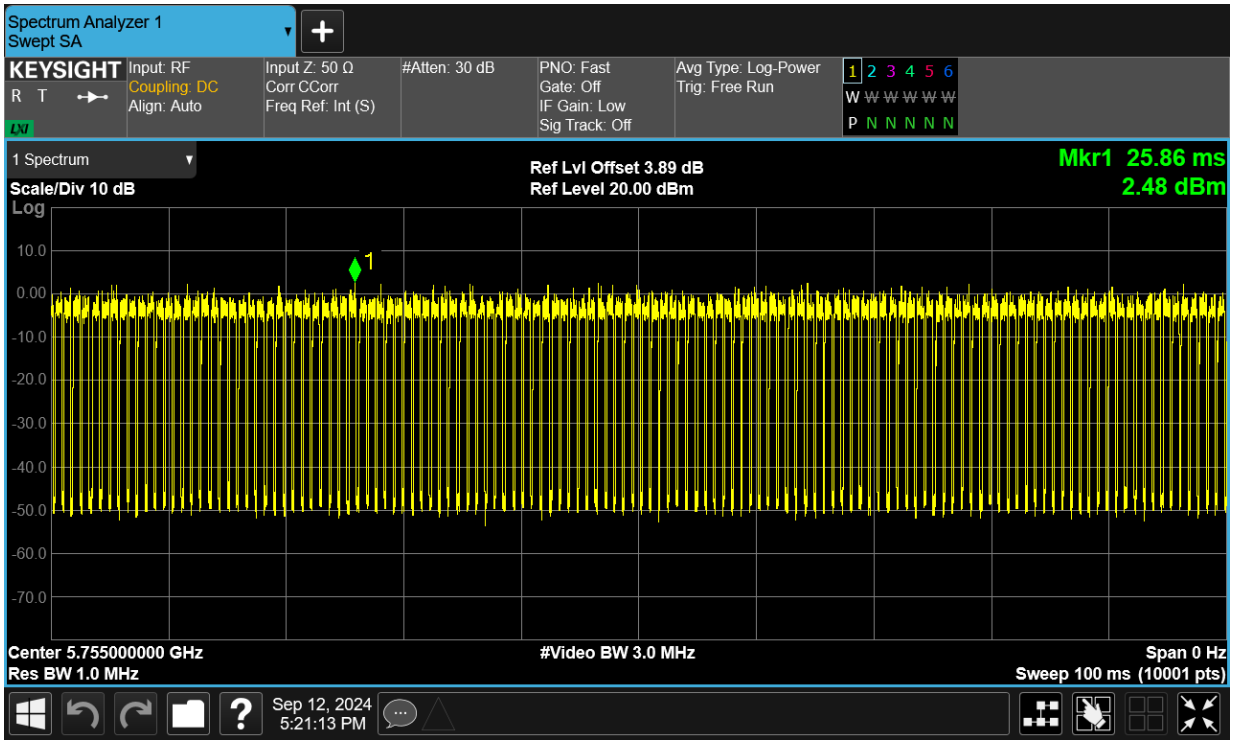
Duty Cycle NVNT ac20 5785MHz Ant1



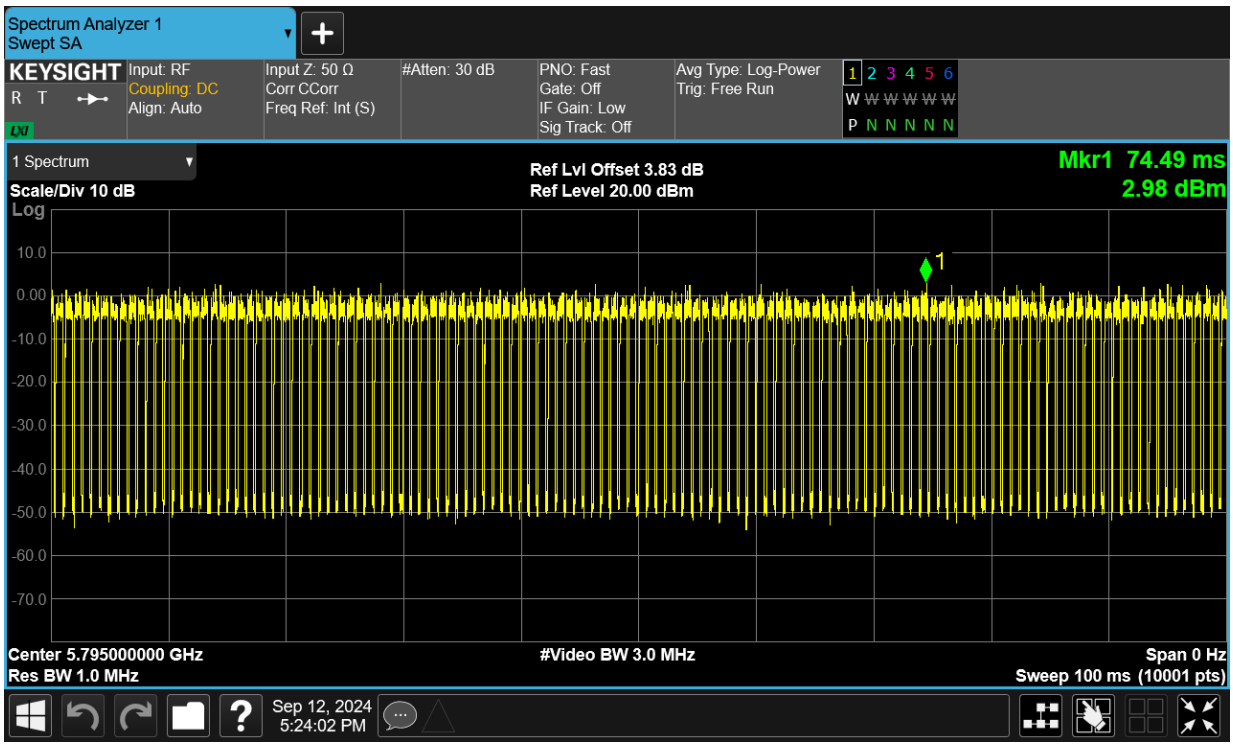
Duty Cycle NVNT ac20 5825MHz Ant1



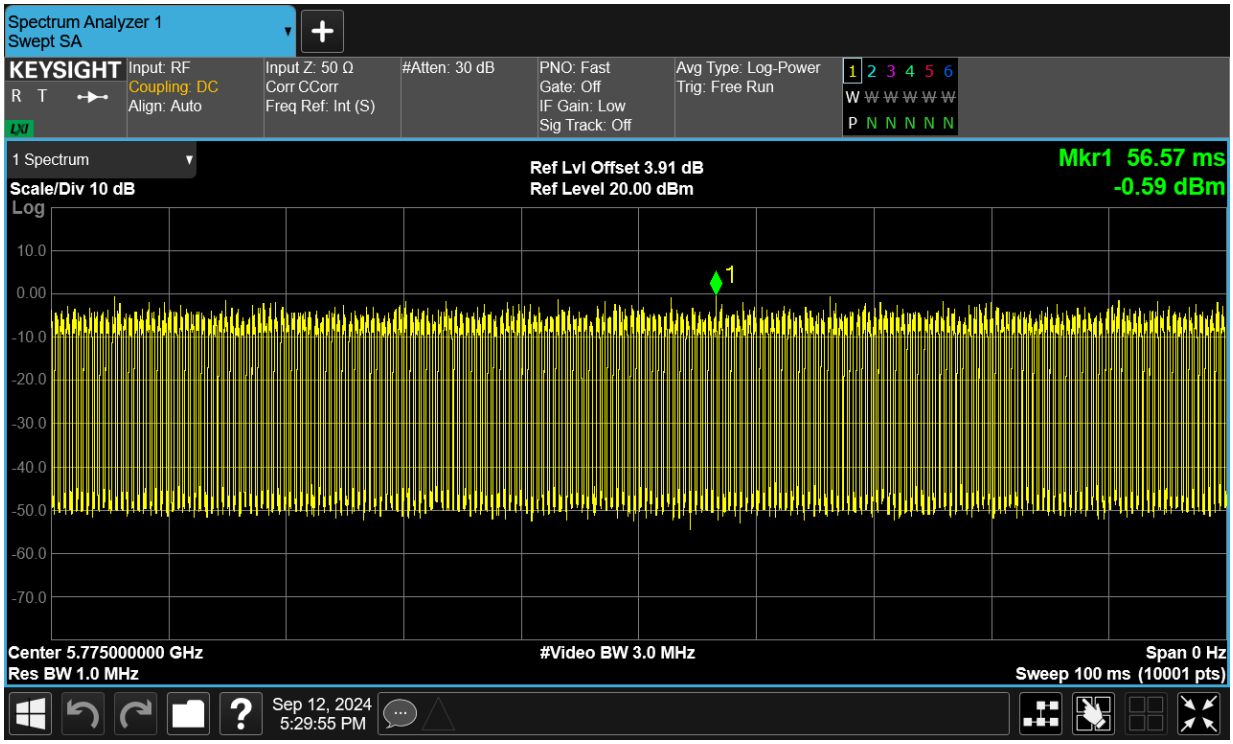
Duty Cycle NVNT ac40 5755MHz Ant1



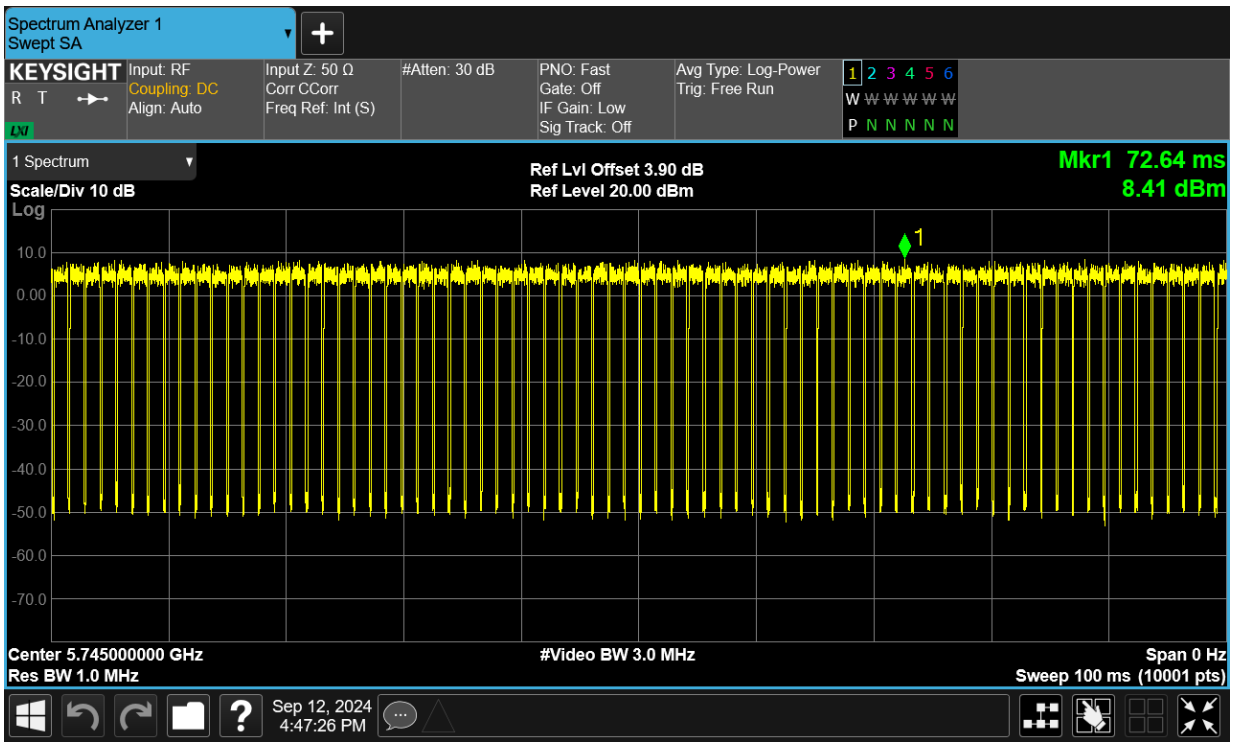
Duty Cycle NVNT ac40 5795MHz Ant1



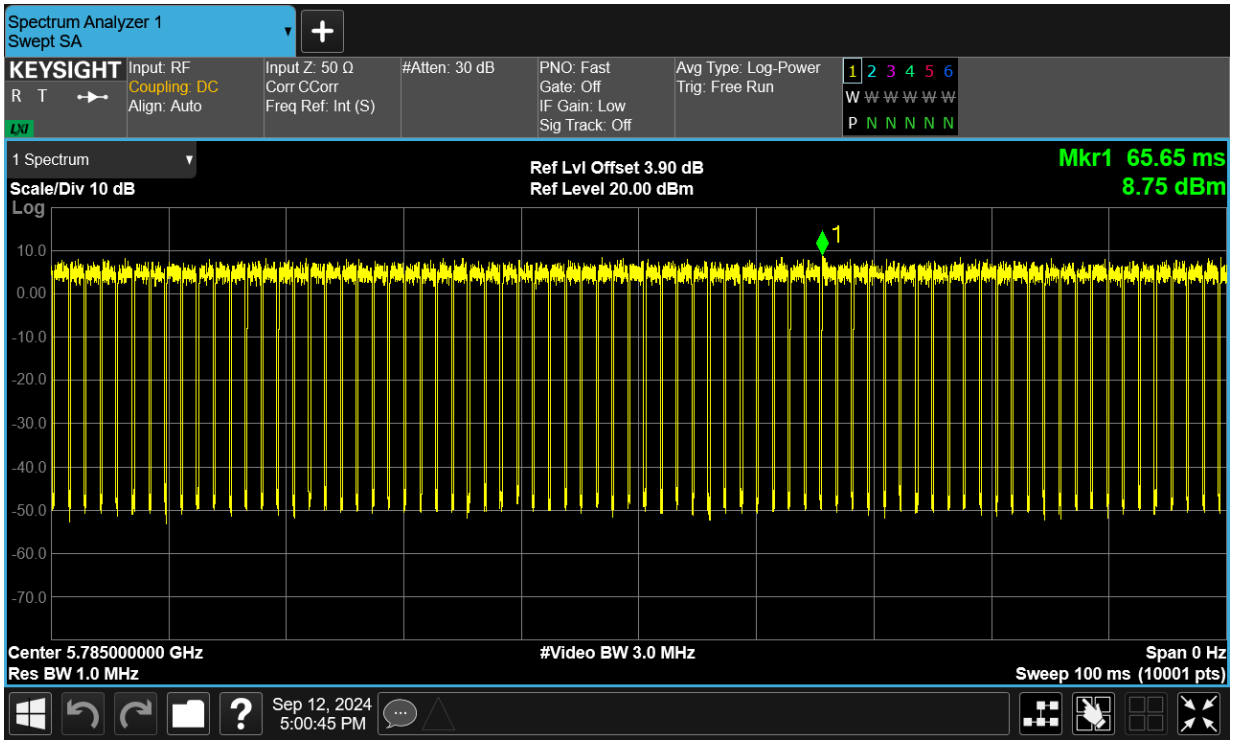
Duty Cycle NVNT ac80 5775MHz Ant1



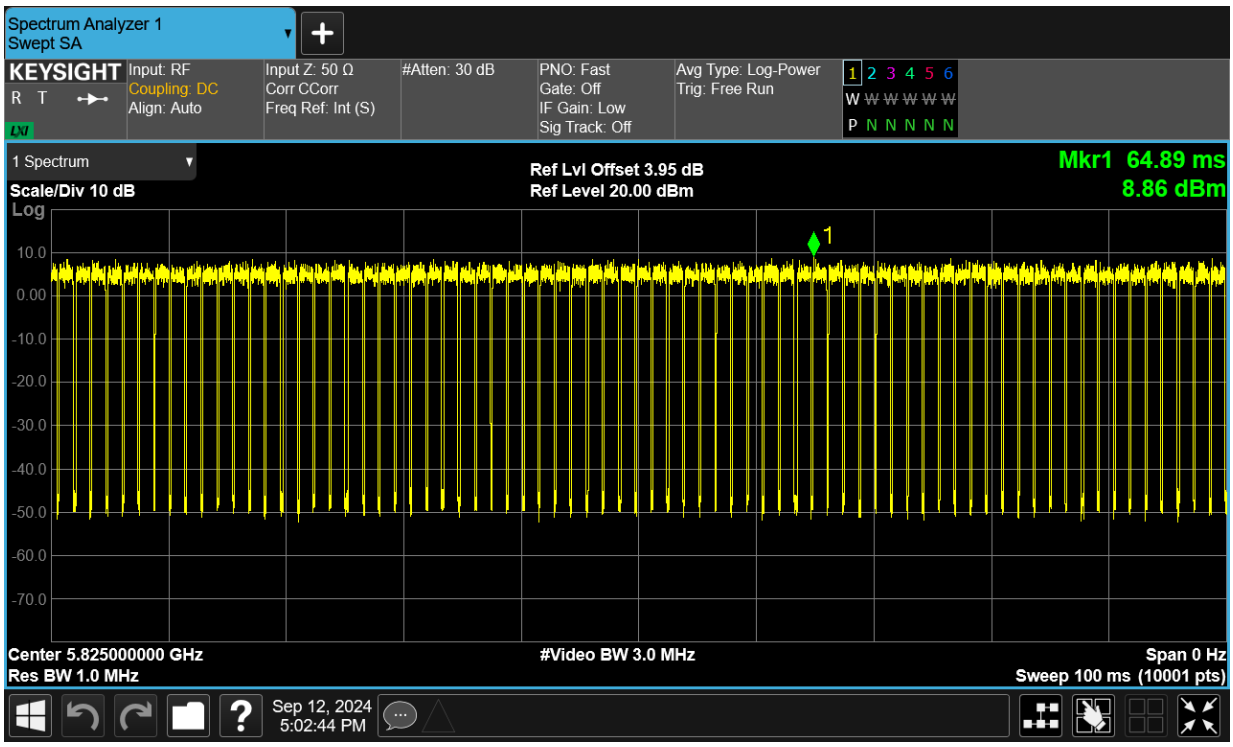
Duty Cycle NVNT n20 5745MHz Ant1



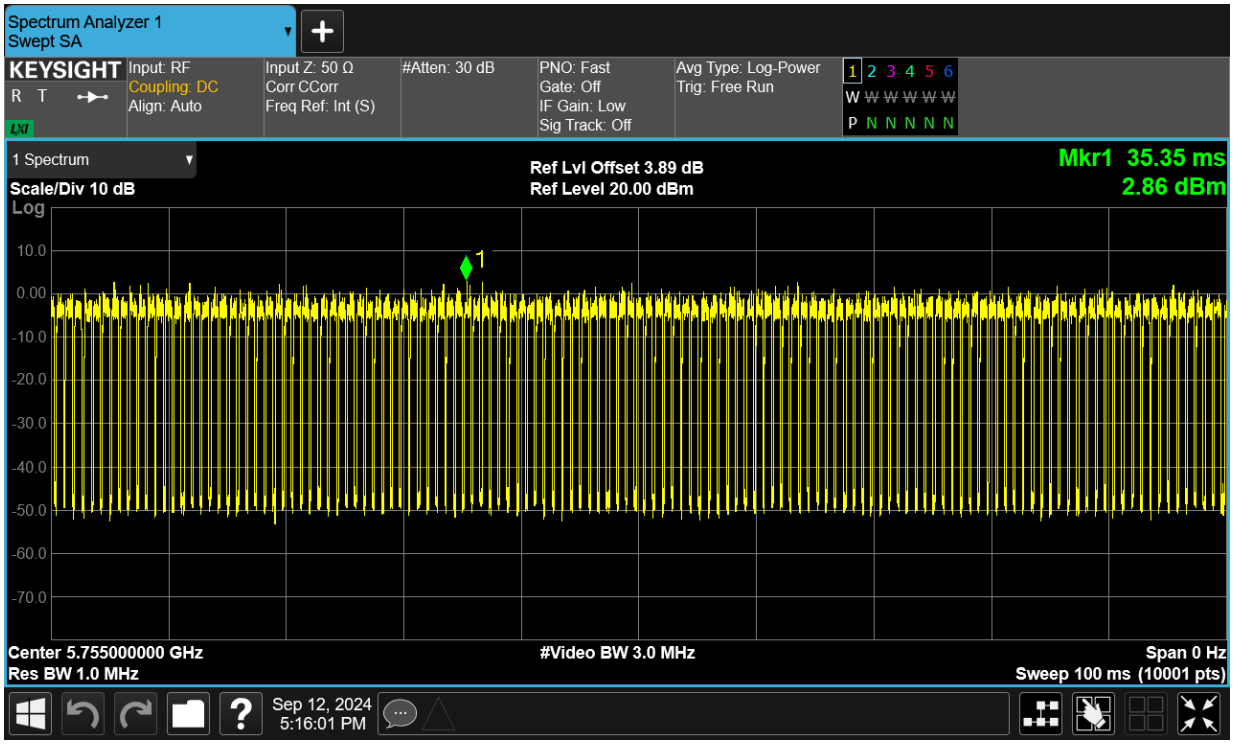
Duty Cycle NVNT n20 5785MHz Ant1



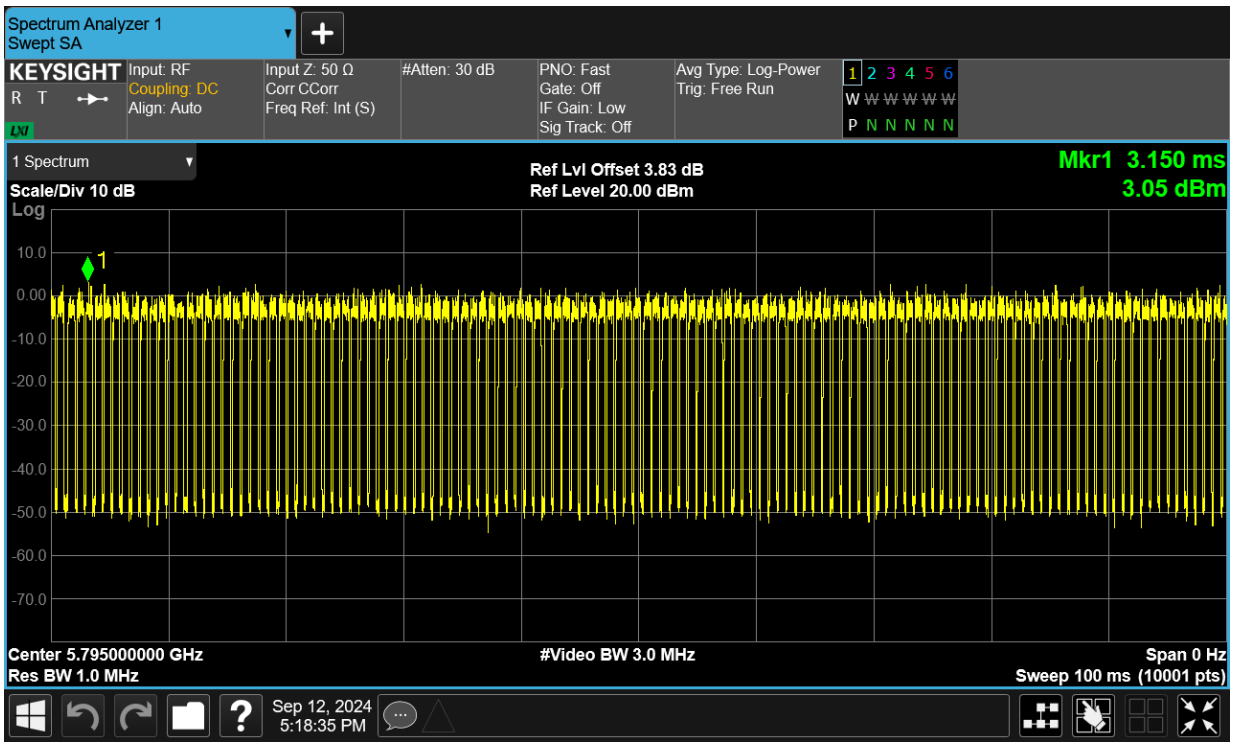
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



Maximum Conducted Output Power

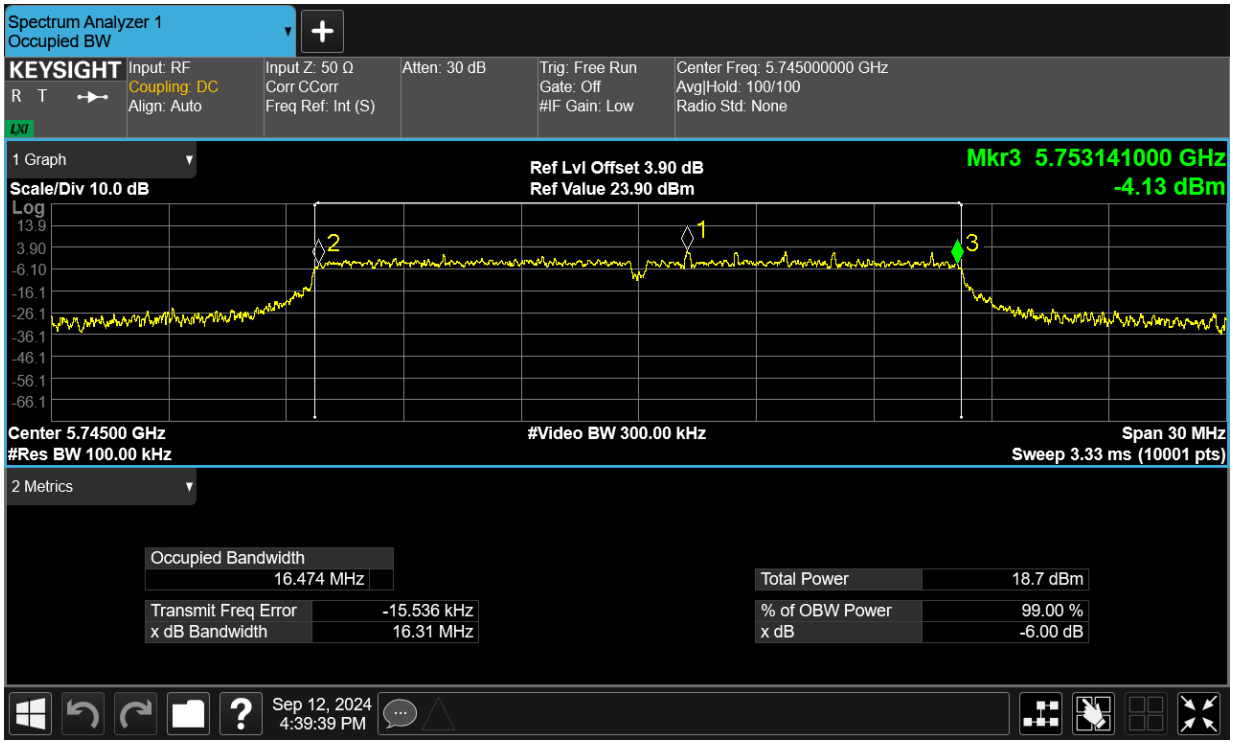
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.76	0.5	13.26	30	Pass
NVNT	a	5785	Ant1	12.6	0.53	13.13	30	Pass
NVNT	a	5825	Ant1	13.02	0.54	13.56	30	Pass
NVNT	ac20	5745	Ant1	11.71	0.58	12.29	30	Pass
NVNT	ac20	5785	Ant1	11.43	0.6	12.03	30	Pass
NVNT	ac20	5825	Ant1	11.9	0.58	12.48	30	Pass
NVNT	ac40	5755	Ant1	11.31	1.12	12.43	30	Pass
NVNT	ac40	5795	Ant1	11.89	1.09	12.98	30	Pass
NVNT	ac80	5775	Ant1	10.72	1.92	12.64	30	Pass
NVNT	n20	5745	Ant1	12.6	0.59	13.19	30	Pass
NVNT	n20	5785	Ant1	12.73	0.6	13.33	30	Pass
NVNT	n20	5825	Ant1	13.16	0.6	13.76	30	Pass
NVNT	n40	5755	Ant1	11.81	1.1	12.91	30	Pass
NVNT	n40	5795	Ant1	11.88	1.12	13	30	Pass

-6dB Bandwidth

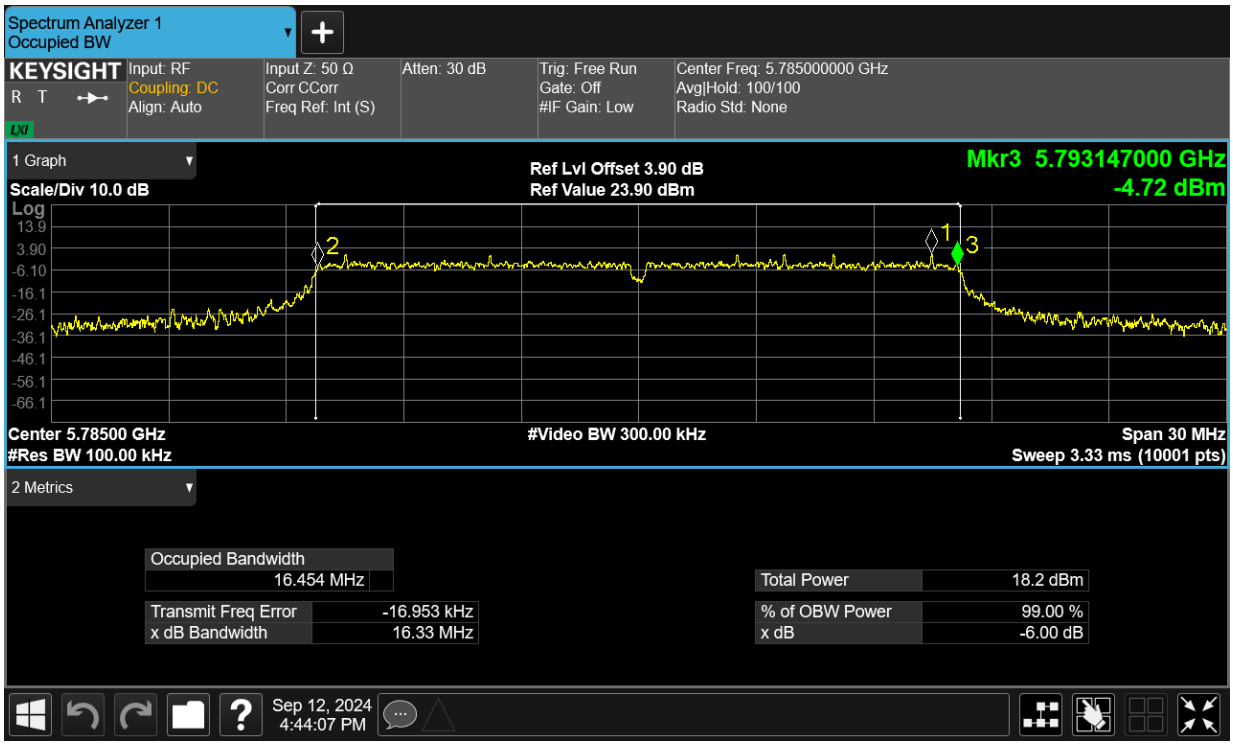
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant1	16.312	0.5	Pass
NVNT	a	5785	Ant1	16.328	0.5	Pass
NVNT	a	5825	Ant1	16.332	0.5	Pass
NVNT	ac20	5745	Ant1	17.302	0.5	Pass
NVNT	ac20	5785	Ant1	17.236	0.5	Pass
NVNT	ac20	5825	Ant1	17.217	0.5	Pass
NVNT	ac40	5755	Ant1	36.273	0.5	Pass
NVNT	ac40	5795	Ant1	35.877	0.5	Pass
NVNT	ac80	5775	Ant1	75.584	0.5	Pass
NVNT	n20	5745	Ant1	17.019	0.5	Pass
NVNT	n20	5785	Ant1	16.836	0.5	Pass
NVNT	n20	5825	Ant1	17.149	0.5	Pass
NVNT	n40	5755	Ant1	36.415	0.5	Pass
NVNT	n40	5795	Ant1	36.082	0.5	Pass

Test Graphs

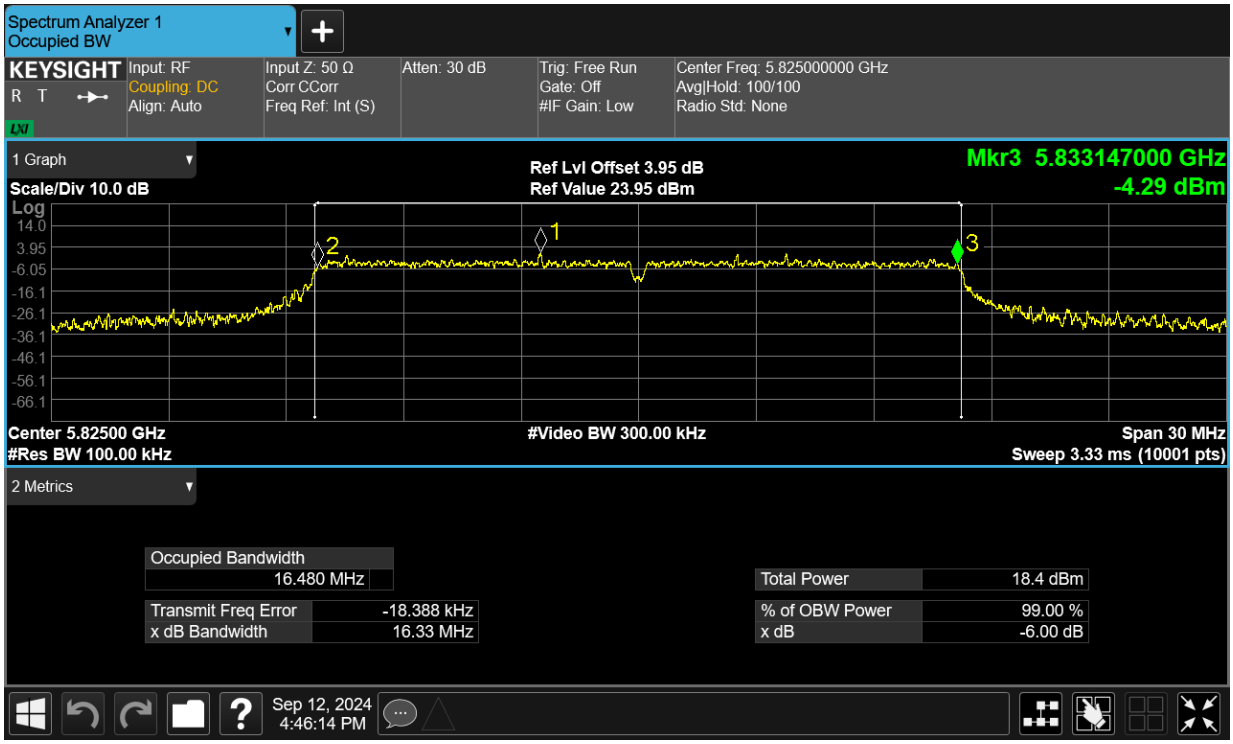
-6dB Bandwidth NVNT a 5745MHz Ant1



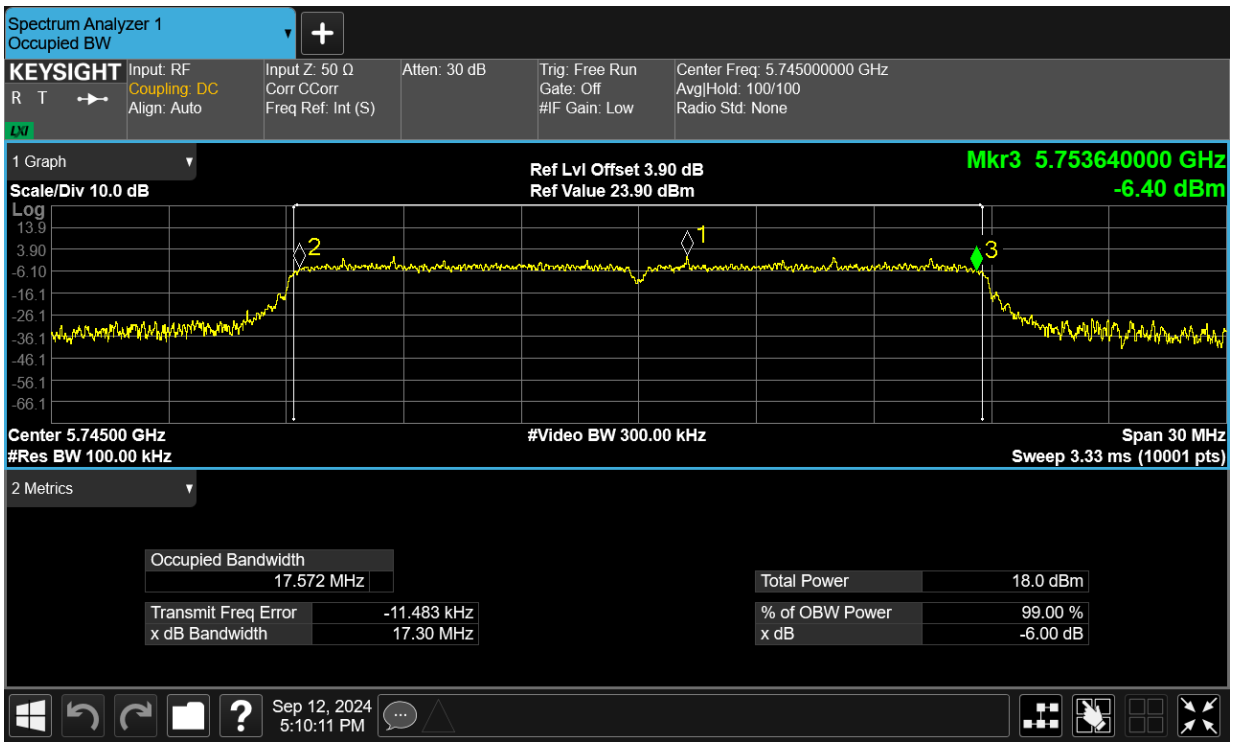
-6dB Bandwidth NVNT a 5785MHz Ant1



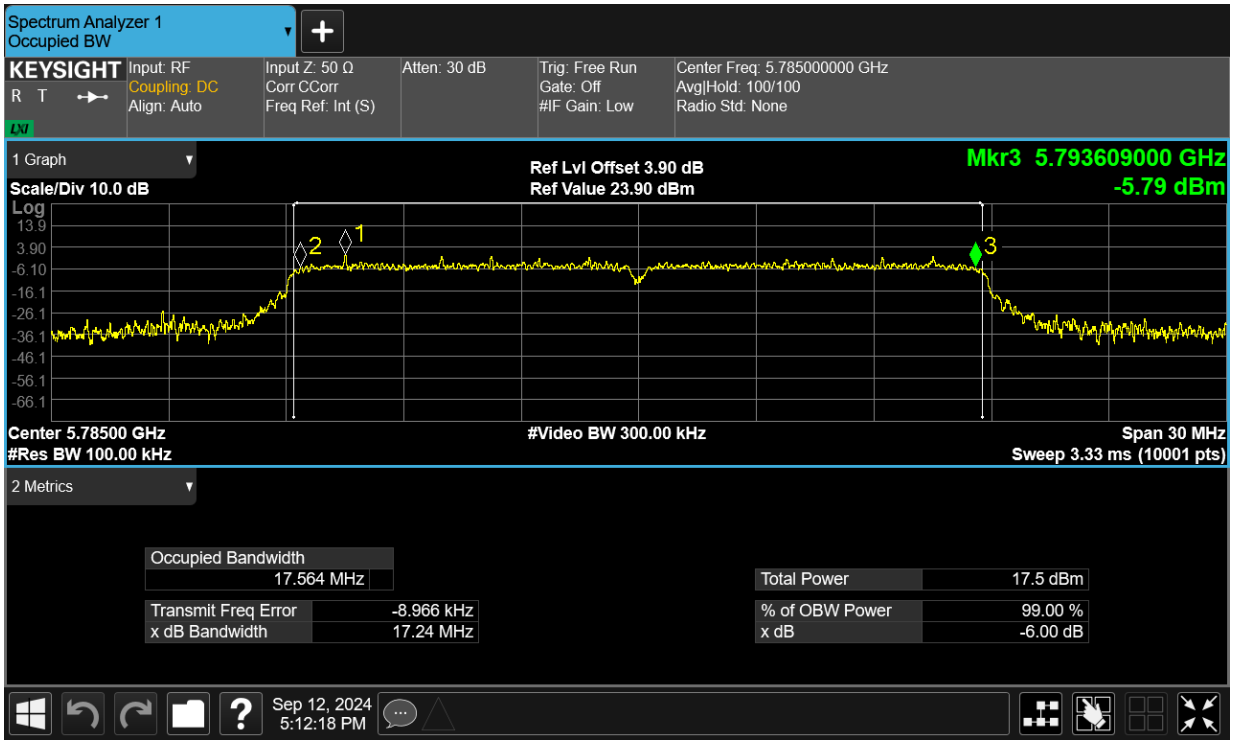
-6dB Bandwidth NVNT a 5825MHz Ant1



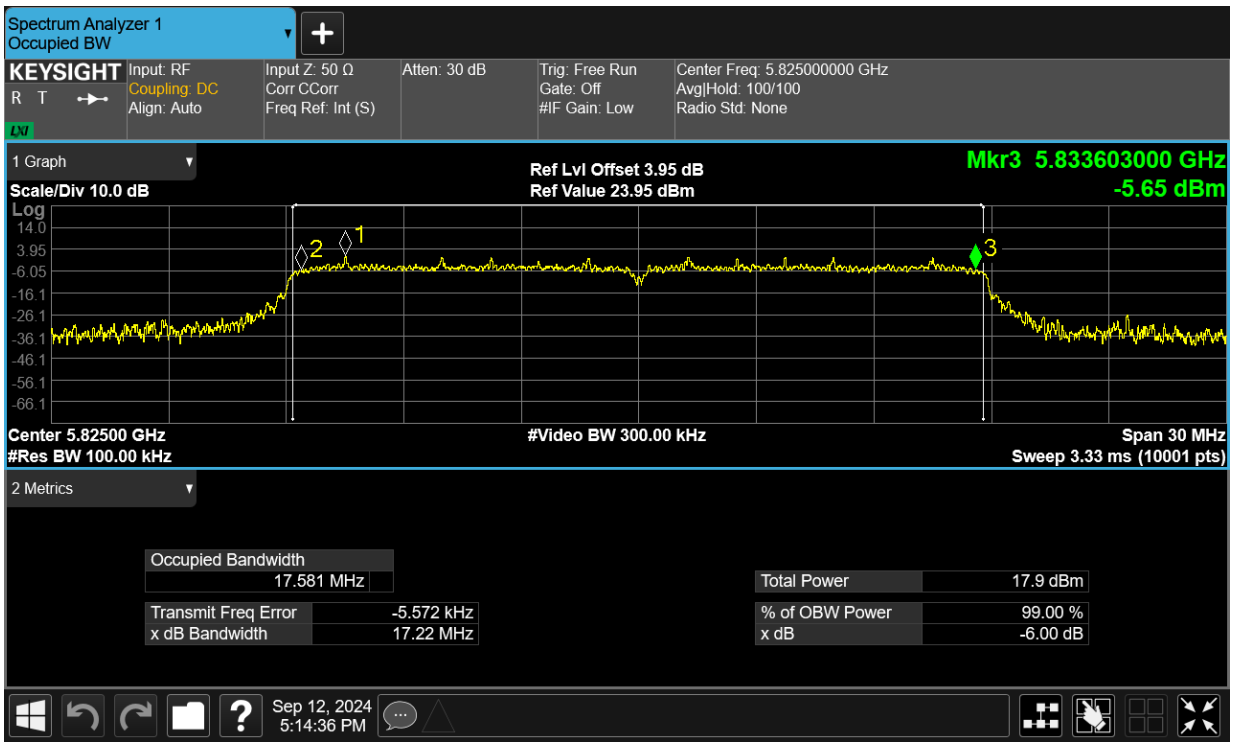
-6dB Bandwidth NVNT ac20 5745MHz Ant1



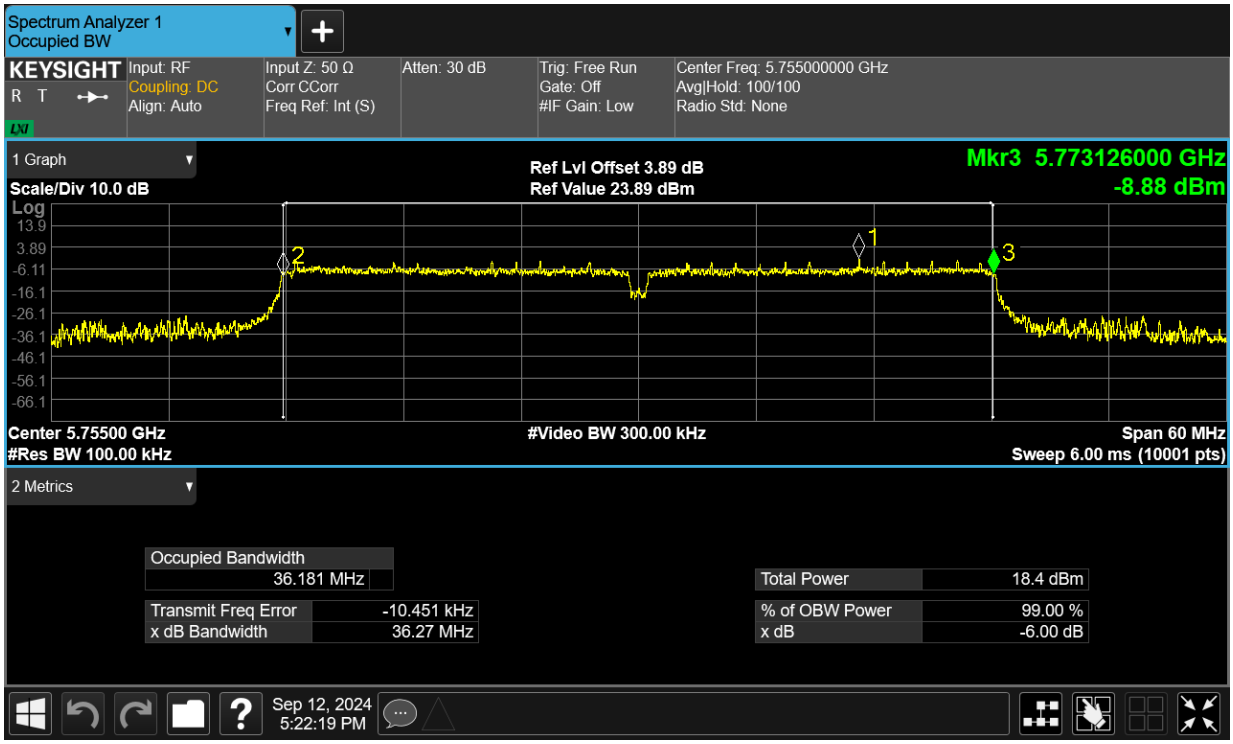
-6dB Bandwidth NVNT ac20 5785MHz Ant1



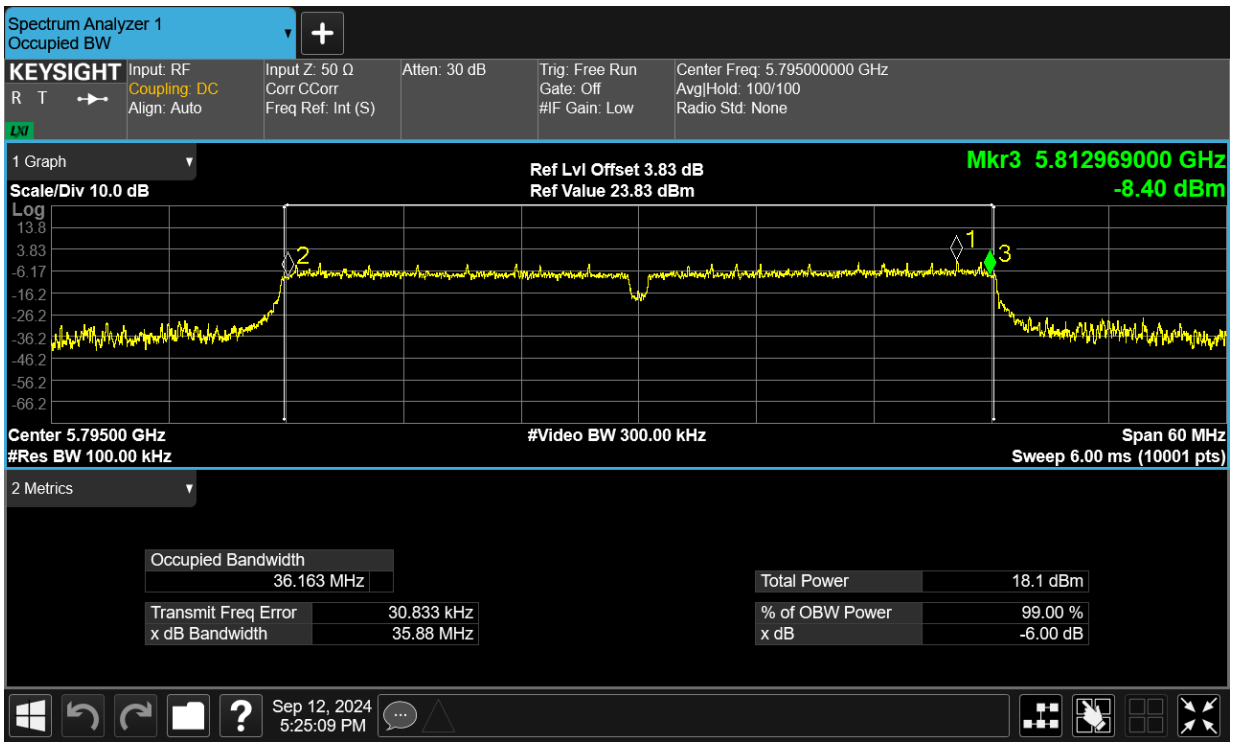
-6dB Bandwidth NVNT ac20 5825MHz Ant1



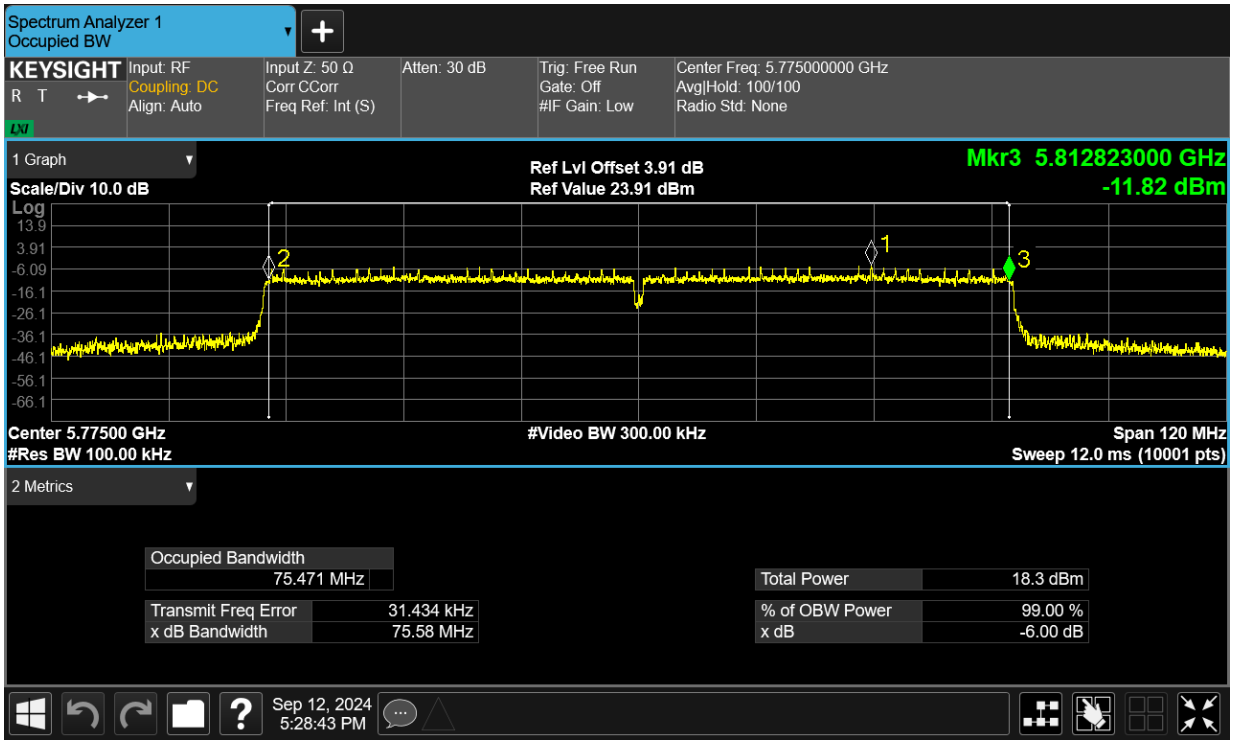
-6dB Bandwidth NVNT ac40 5755MHz Ant1



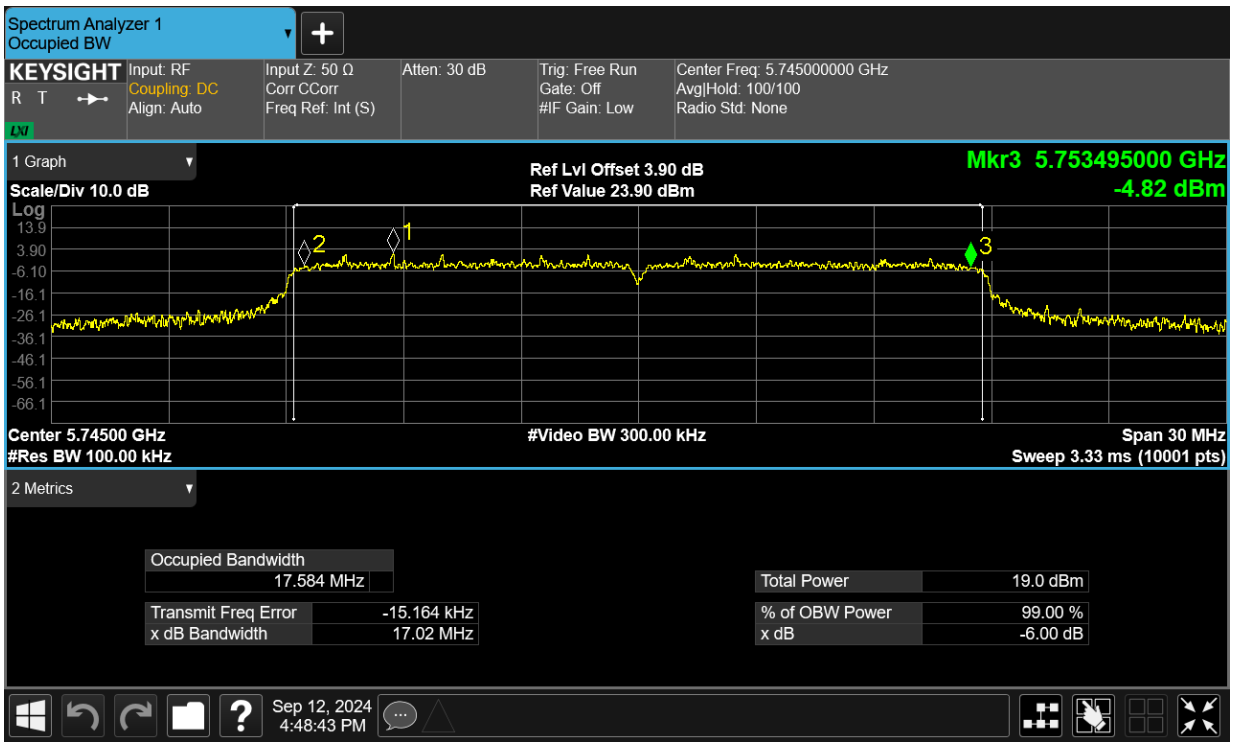
-6dB Bandwidth NVNT ac40 5795MHz Ant1



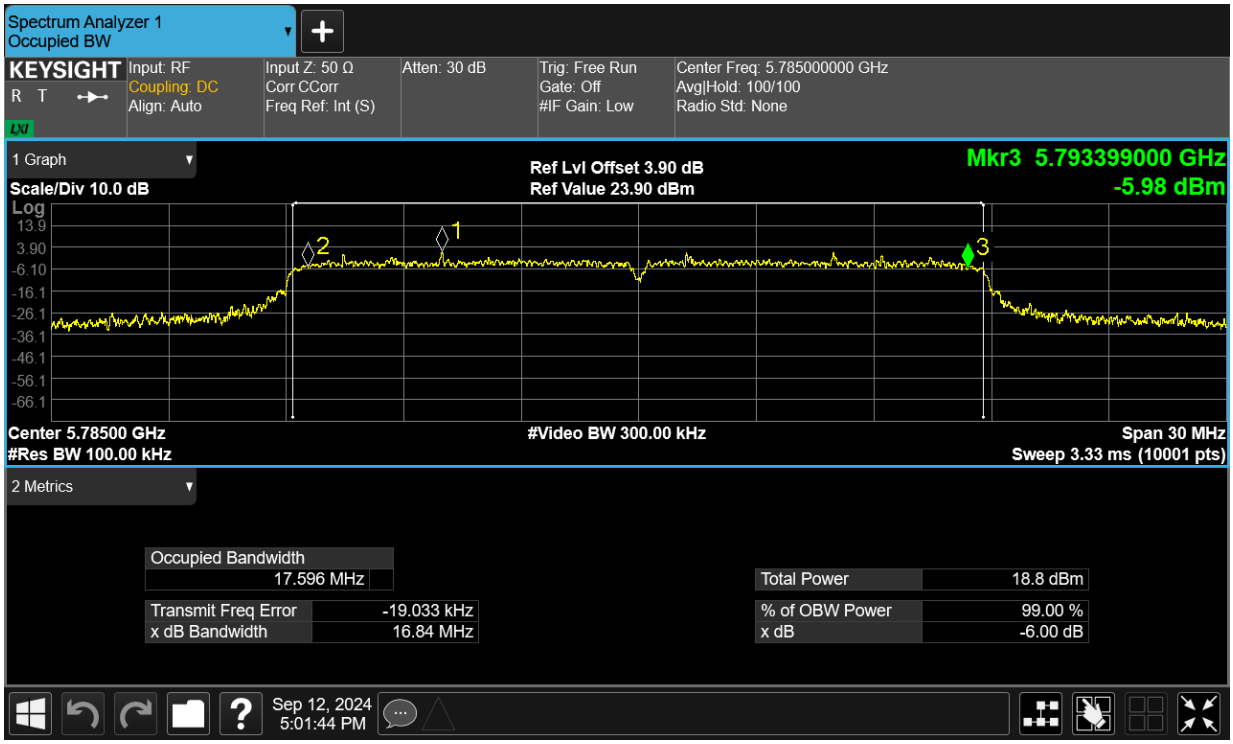
-6dB Bandwidth NVNT ac80 5775MHz Ant1



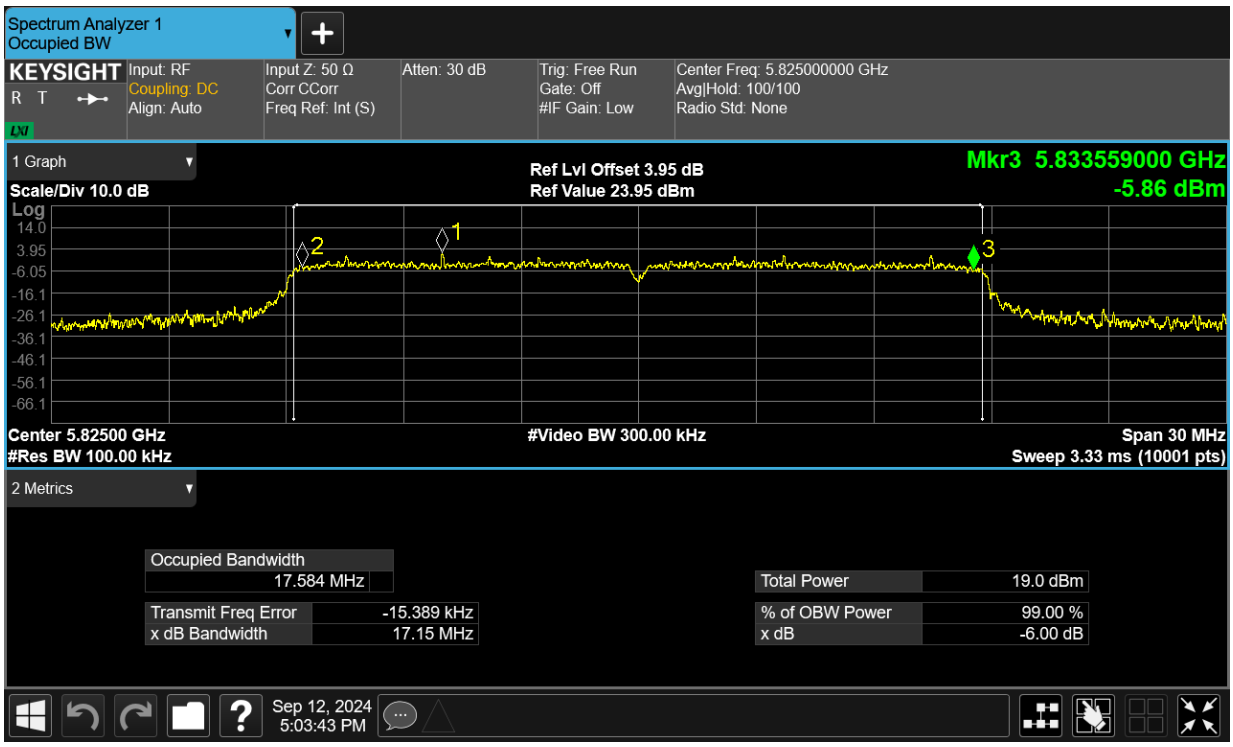
-6dB Bandwidth NVNT n20 5745MHz Ant1



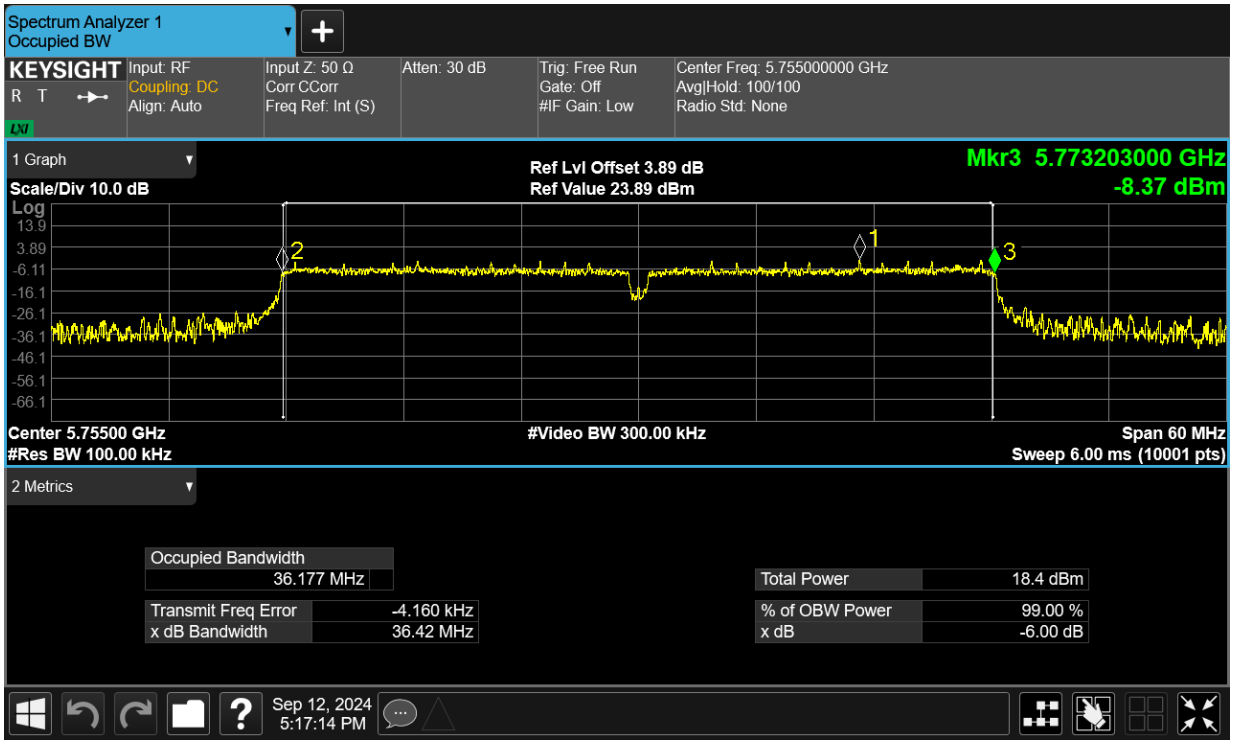
-6dB Bandwidth NVNT n20 5785MHz Ant1



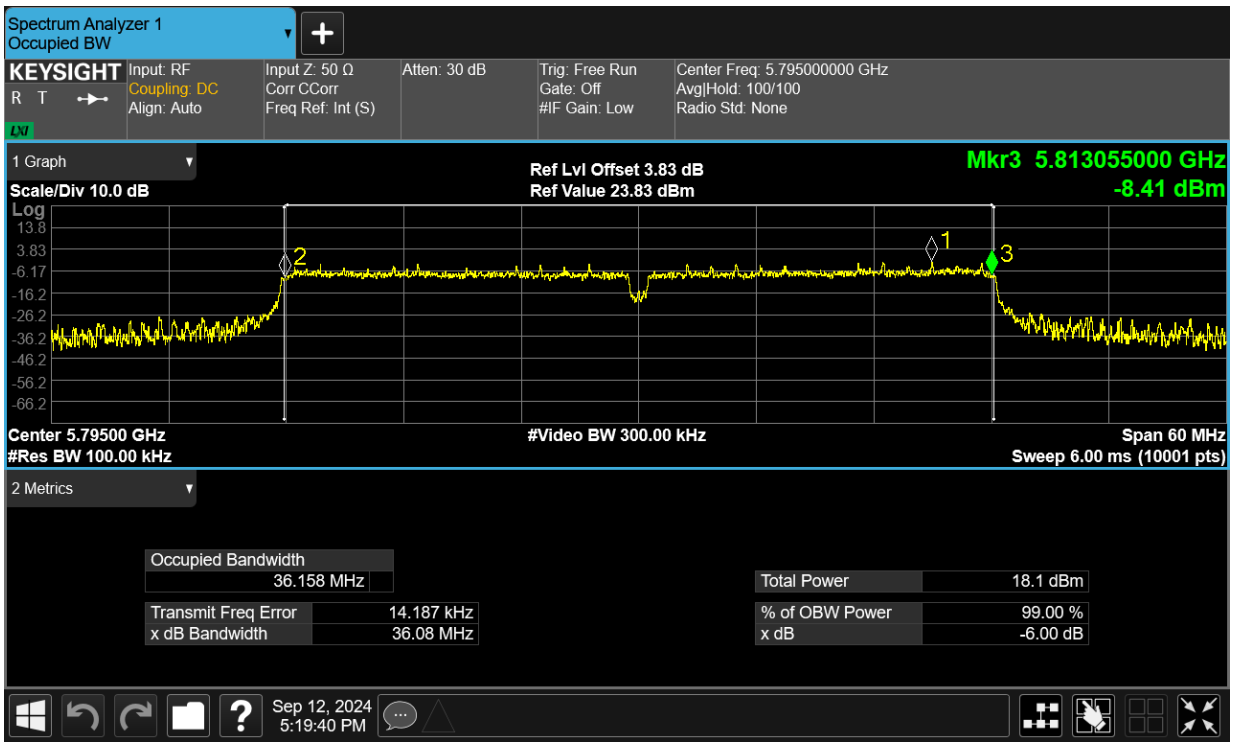
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1

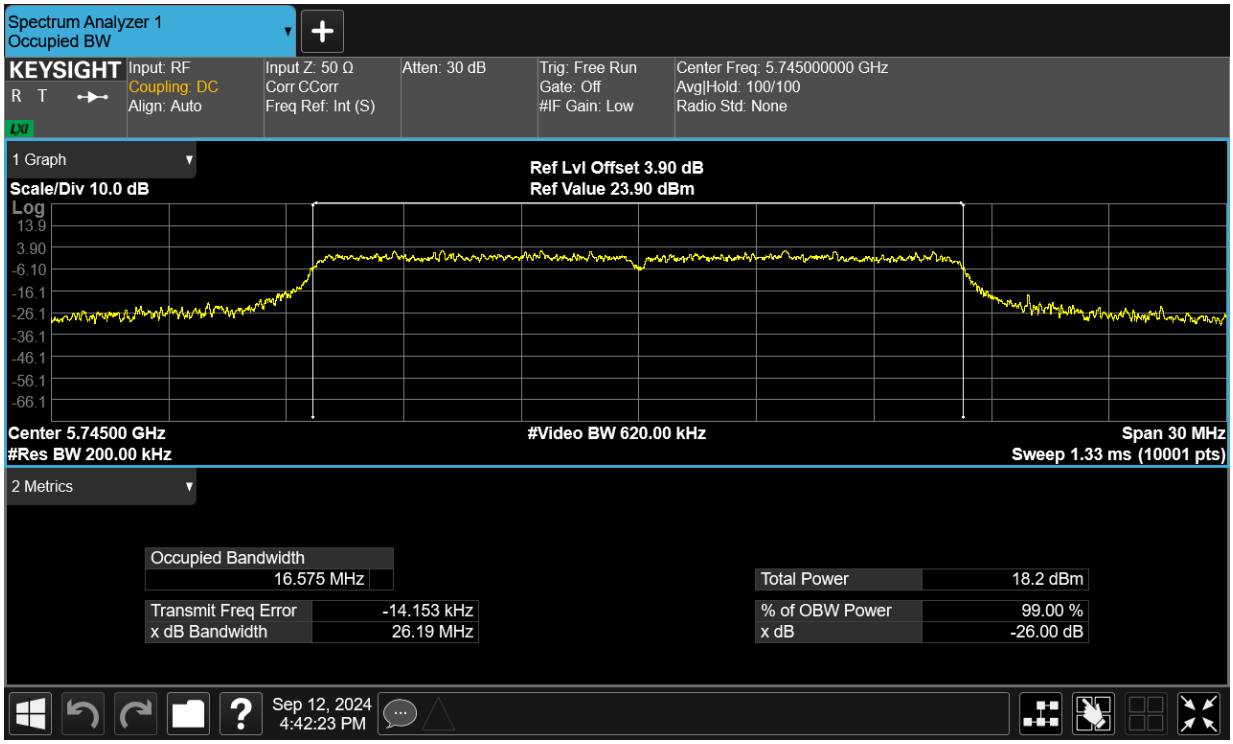


Occupied Channel Bandwidth

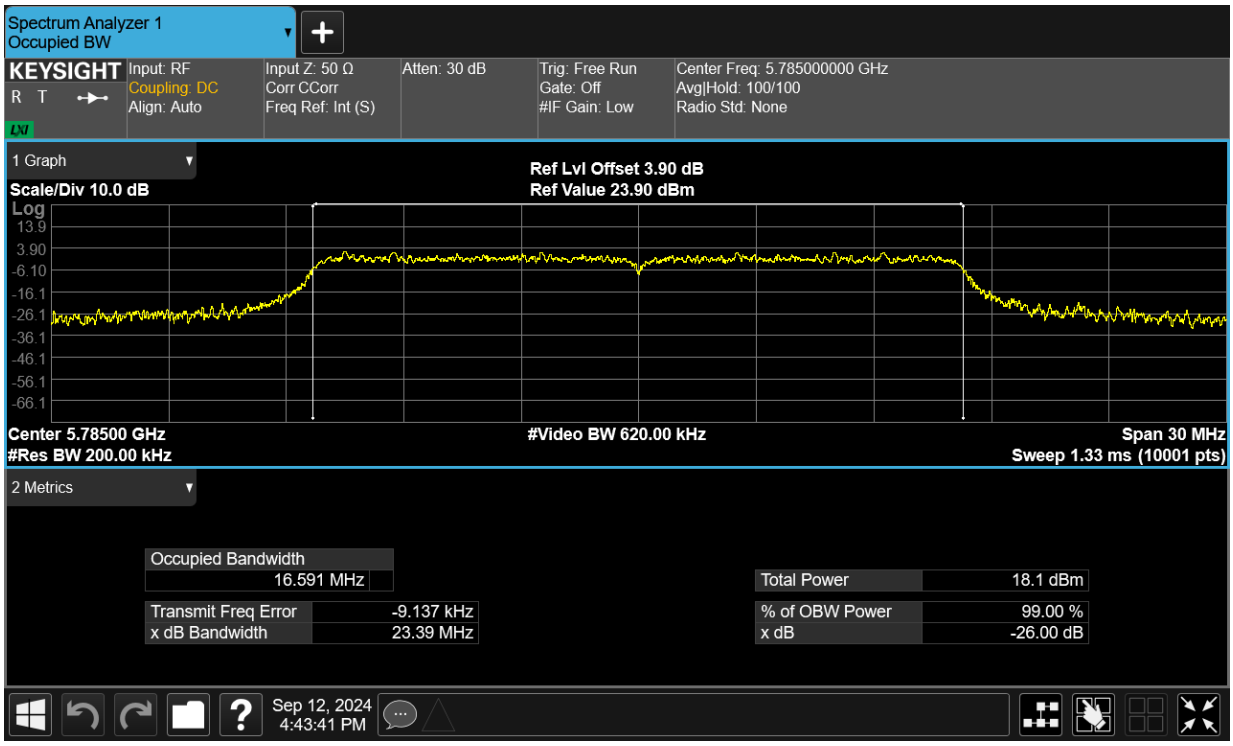
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.575
NVNT	a	5785	Ant1	16.591
NVNT	a	5825	Ant1	16.56
NVNT	ac20	5745	Ant1	17.627
NVNT	ac20	5785	Ant1	17.624
NVNT	ac20	5825	Ant1	17.633
NVNT	ac40	5755	Ant1	36.366
NVNT	ac40	5795	Ant1	36.349
NVNT	ac80	5775	Ant1	75.586
NVNT	n20	5745	Ant1	17.66
NVNT	n20	5785	Ant1	17.656
NVNT	n20	5825	Ant1	17.664
NVNT	n40	5755	Ant1	36.35
NVNT	n40	5795	Ant1	36.376

Test Graphs

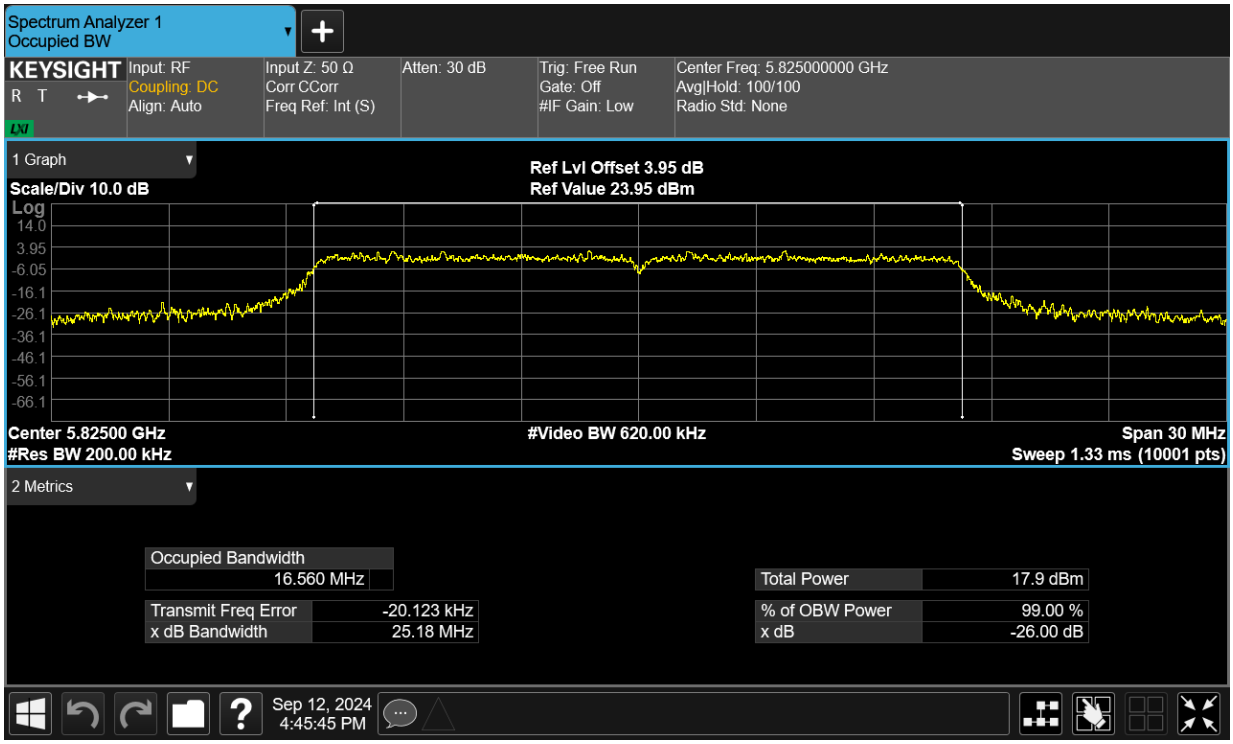
OBW NVNT a 5745MHz Ant1



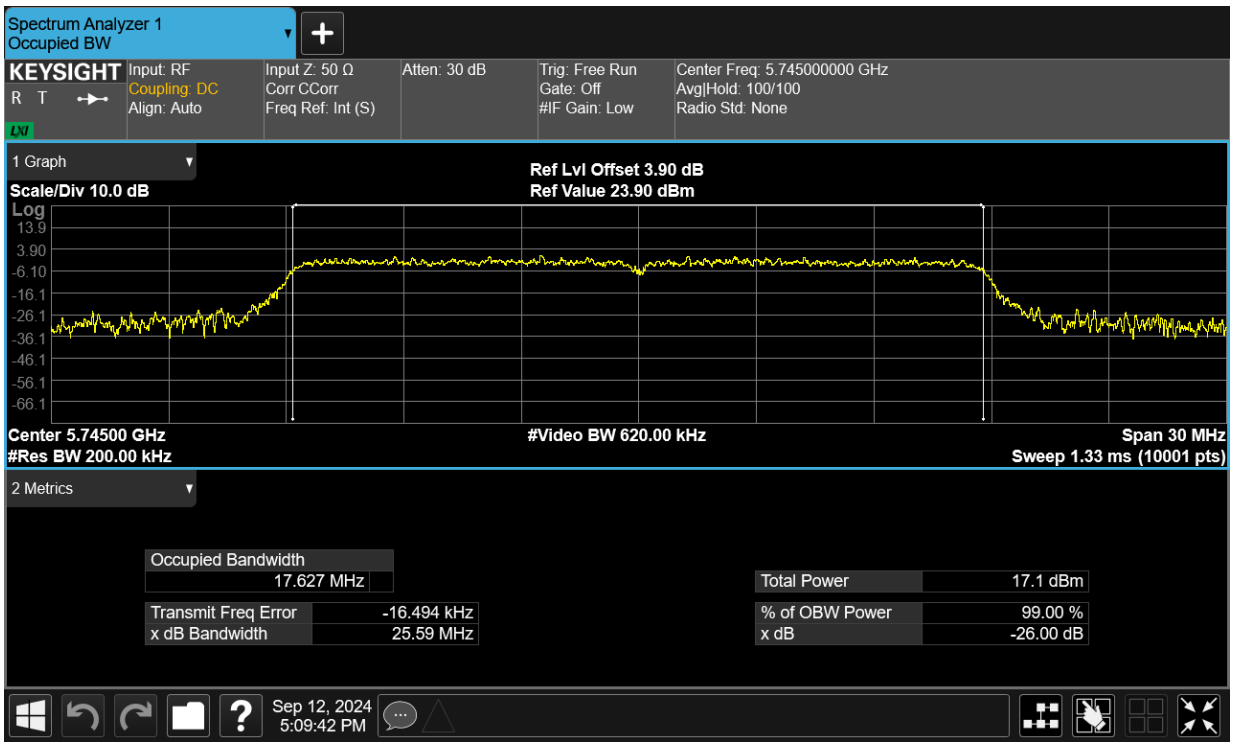
OBW NVNT a 5785MHz Ant1



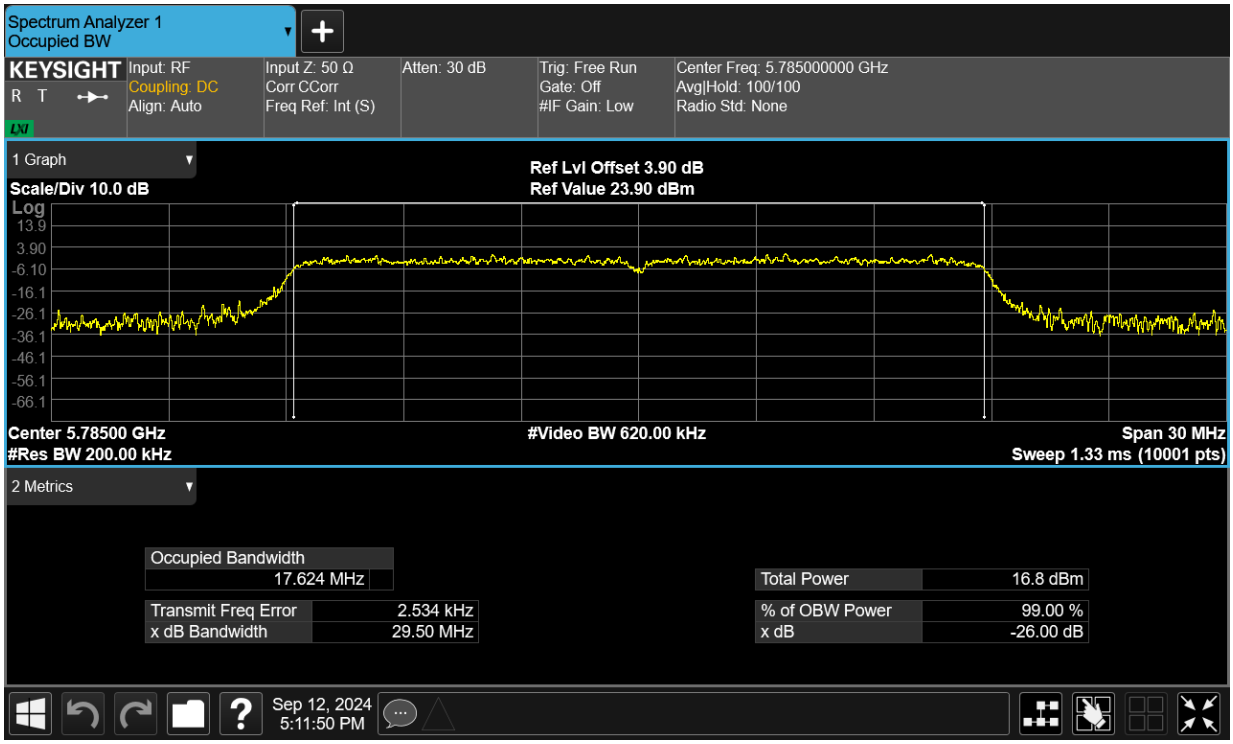
OBW NVNT a 5825MHz Ant1



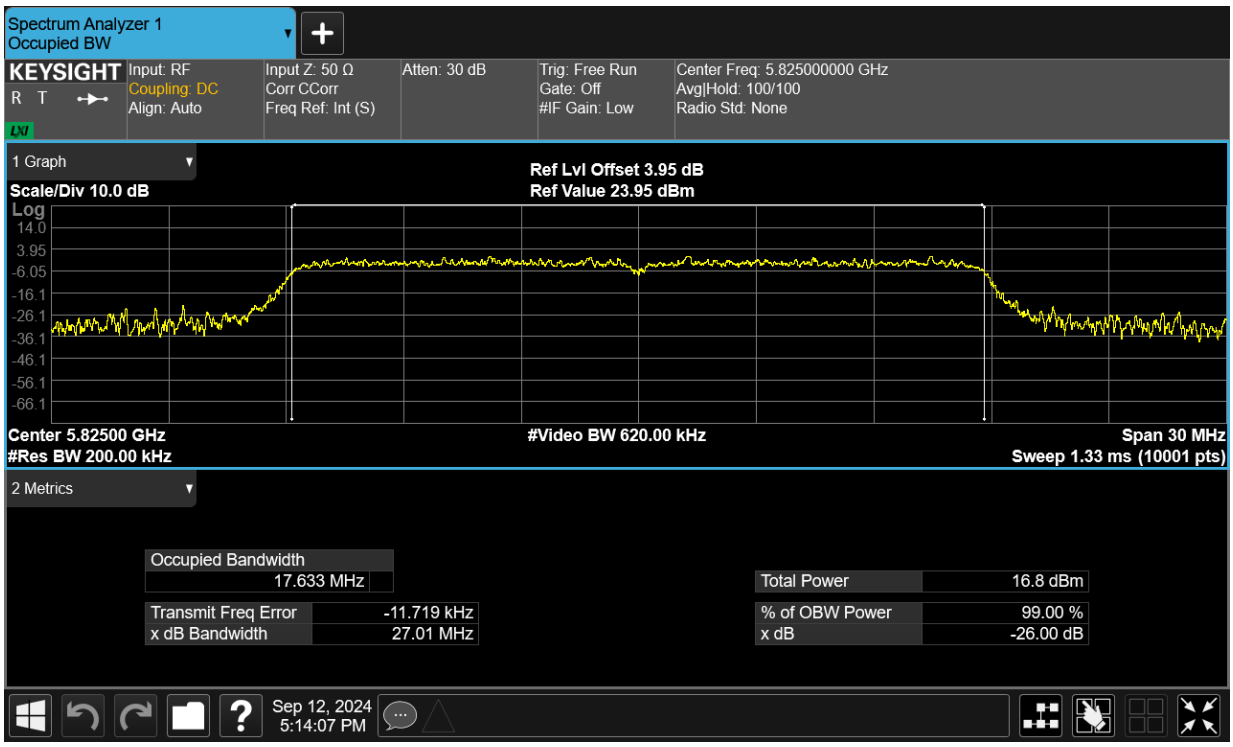
OBW NVNT ac20 5745MHz Ant1



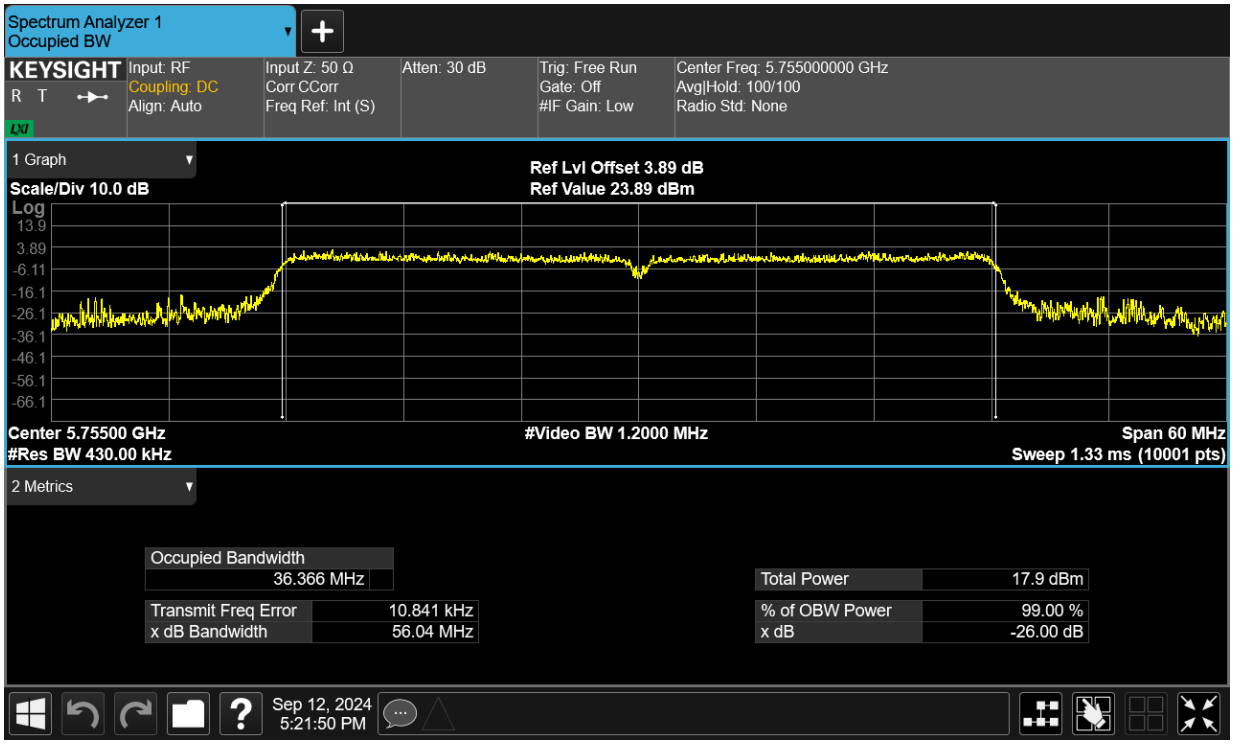
OBW NVNT ac20 5785MHz Ant1



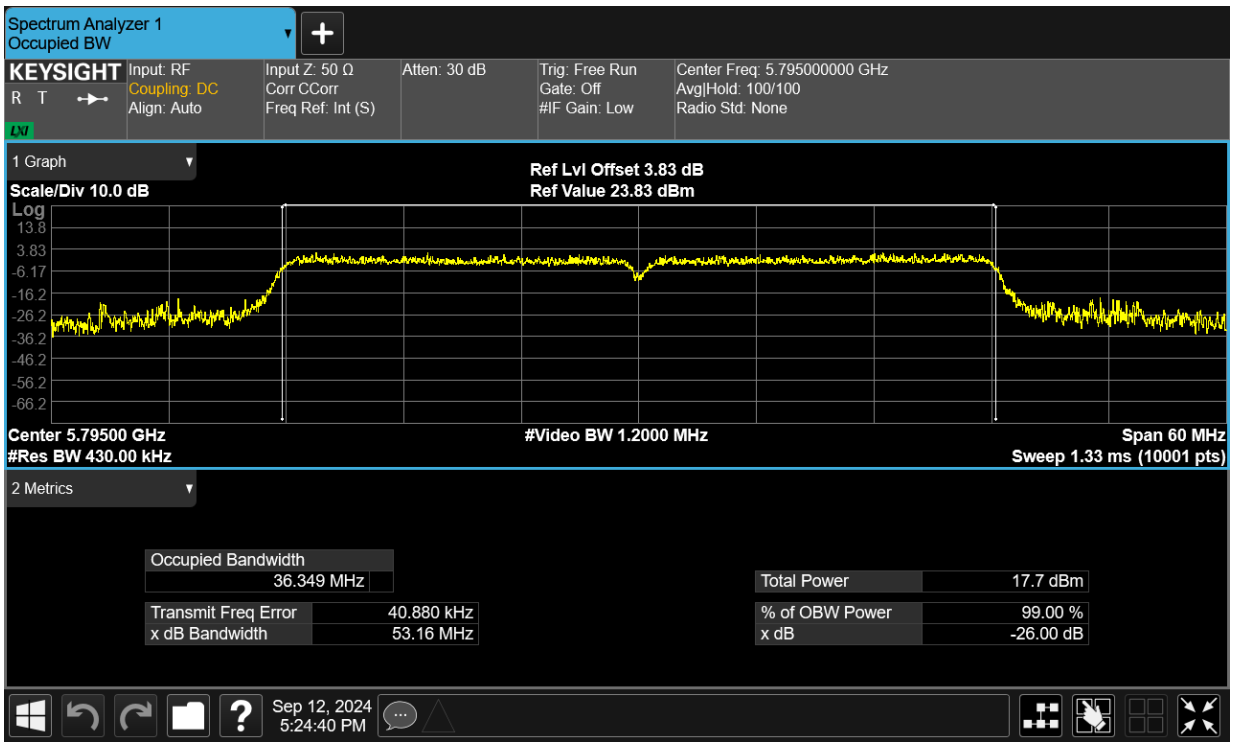
OBW NVNT ac20 5825MHz Ant1



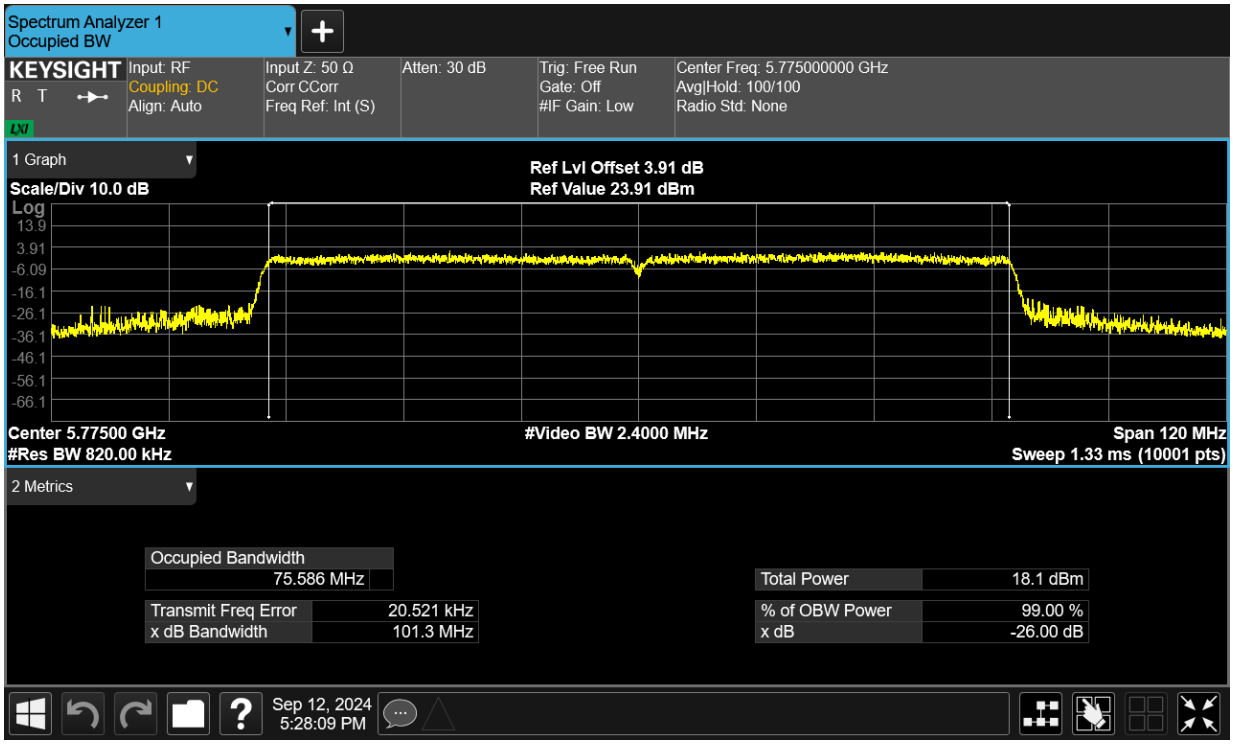
OBW NVNT ac40 5755MHz Ant1



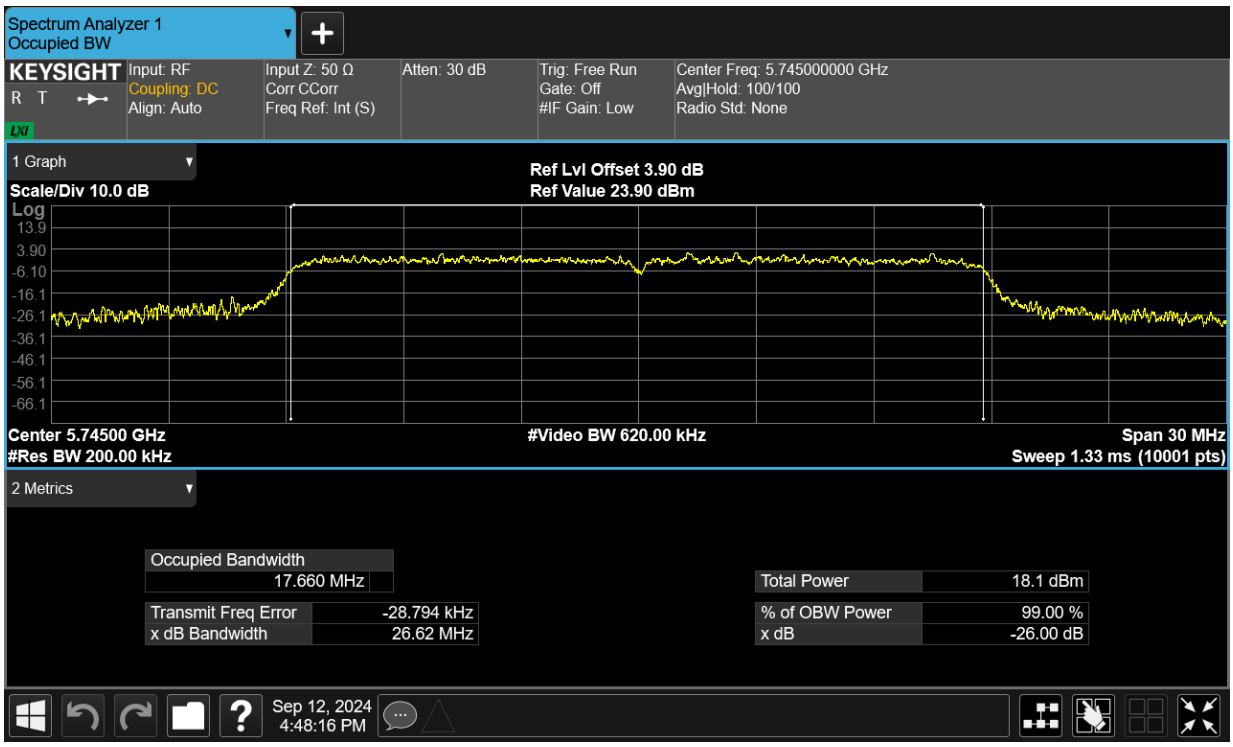
OBW NVNT ac40 5795MHz Ant1



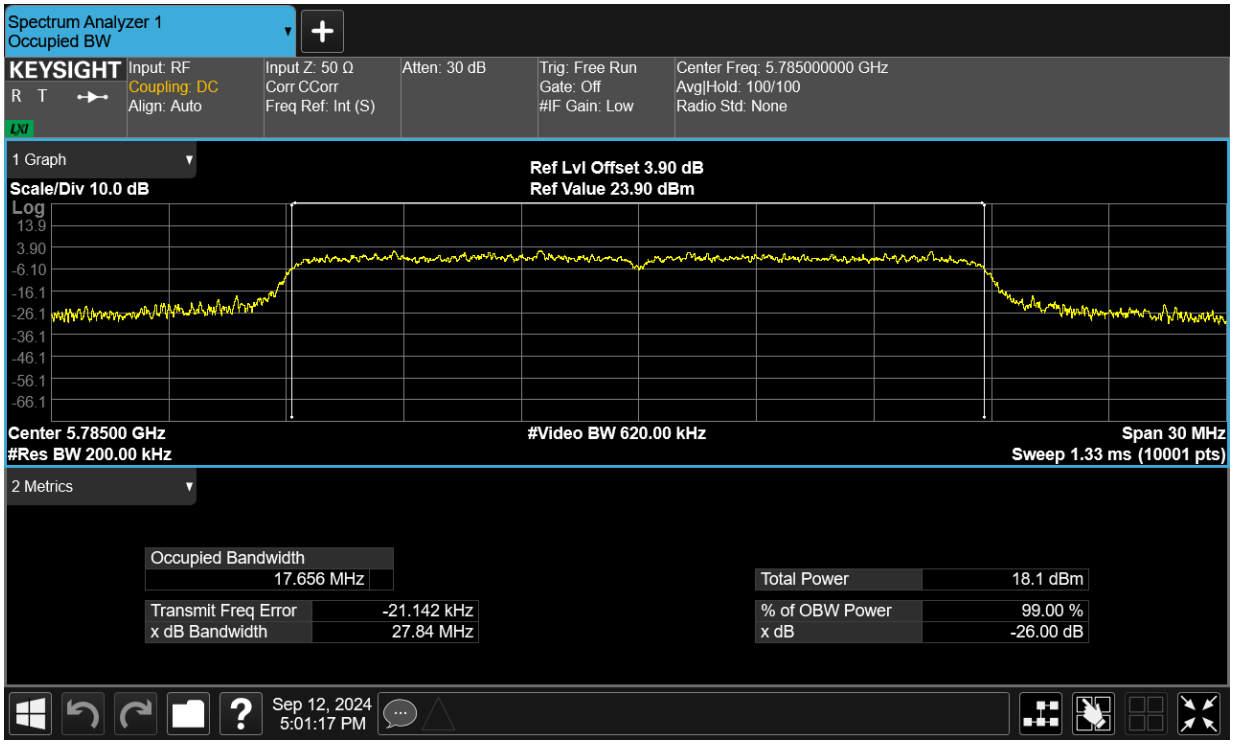
OBW NVNT ac80 5775MHz Ant1



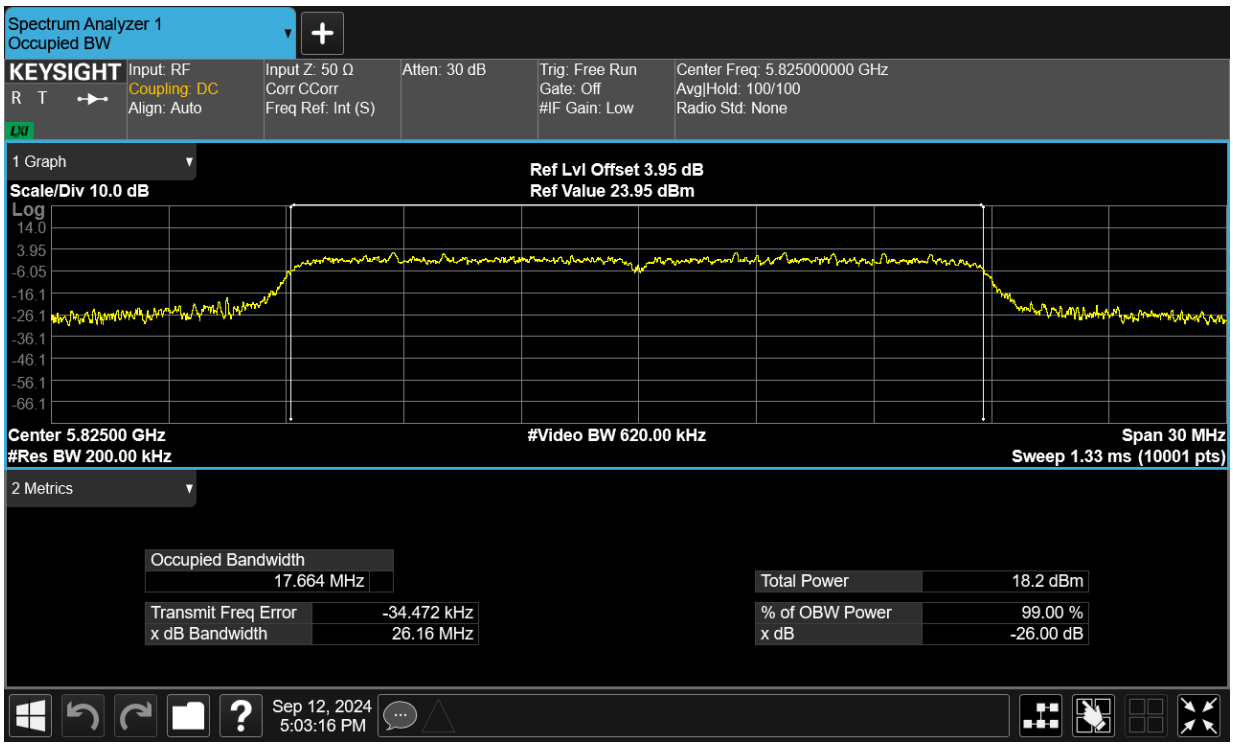
OBW NVNT n20 5745MHz Ant1



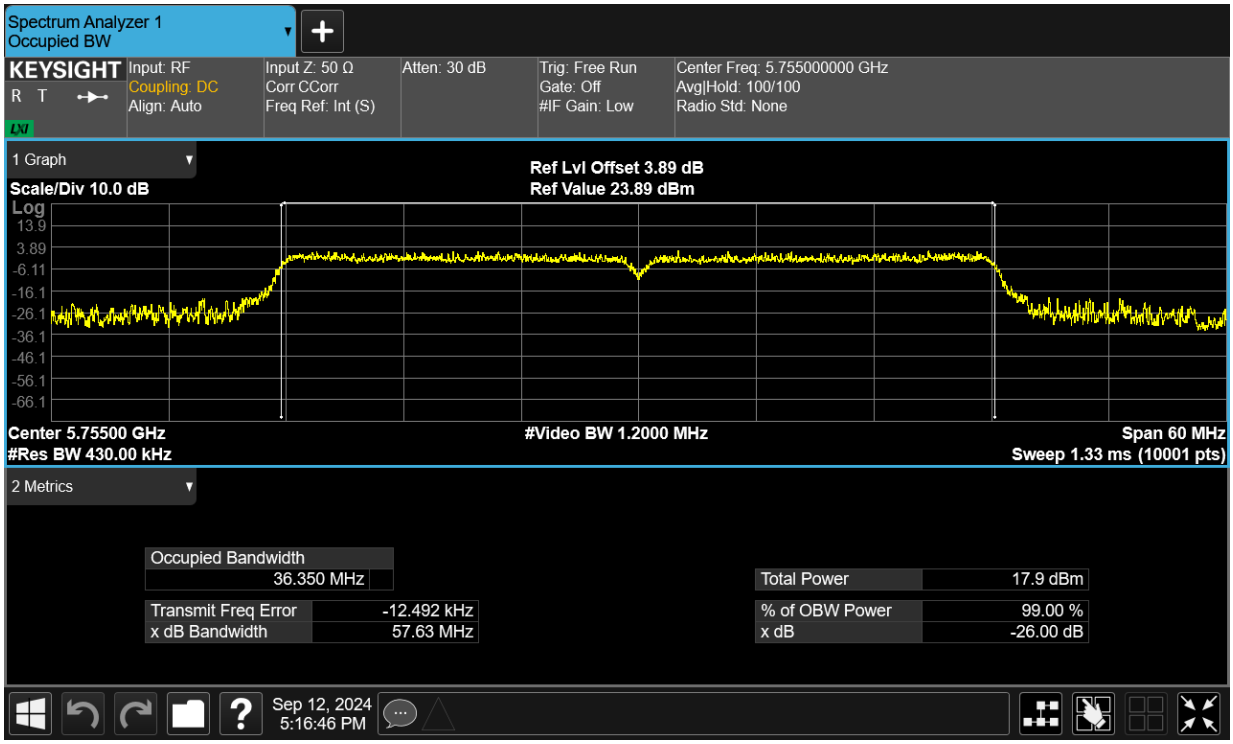
OBW NVNT n20 5785MHz Ant1



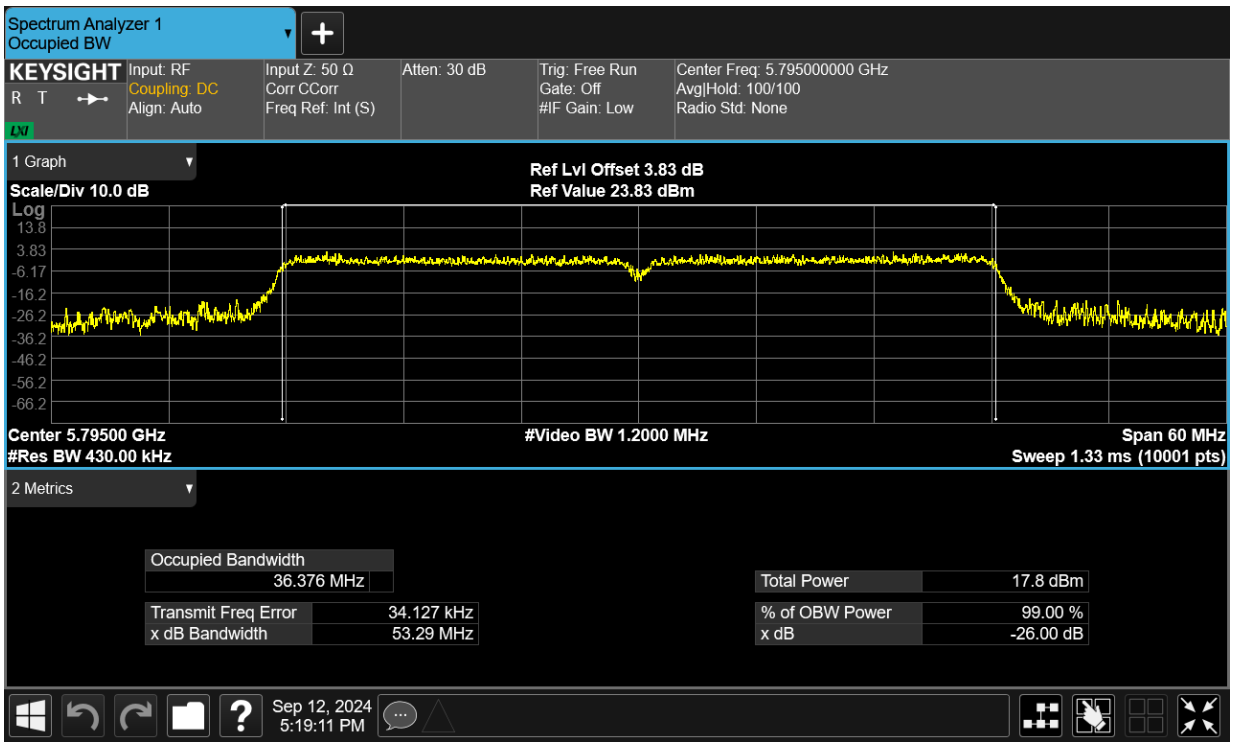
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1

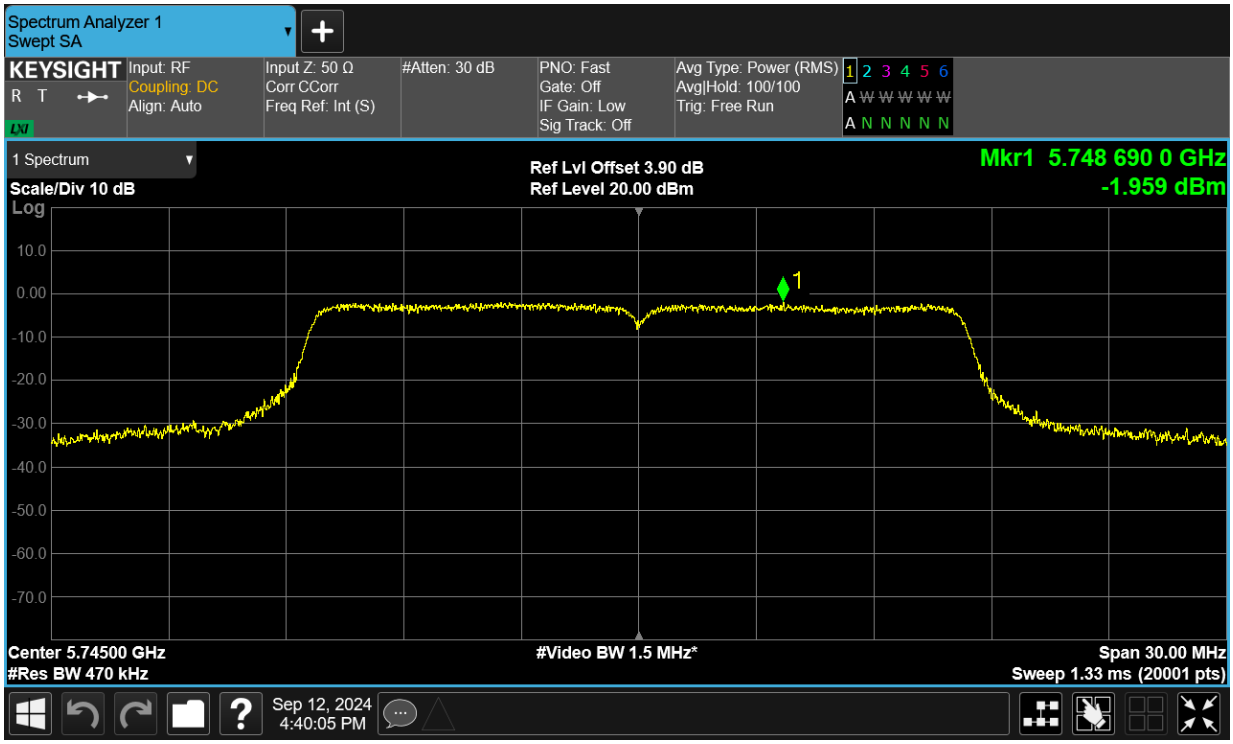


Maximum Power Spectral Density Level

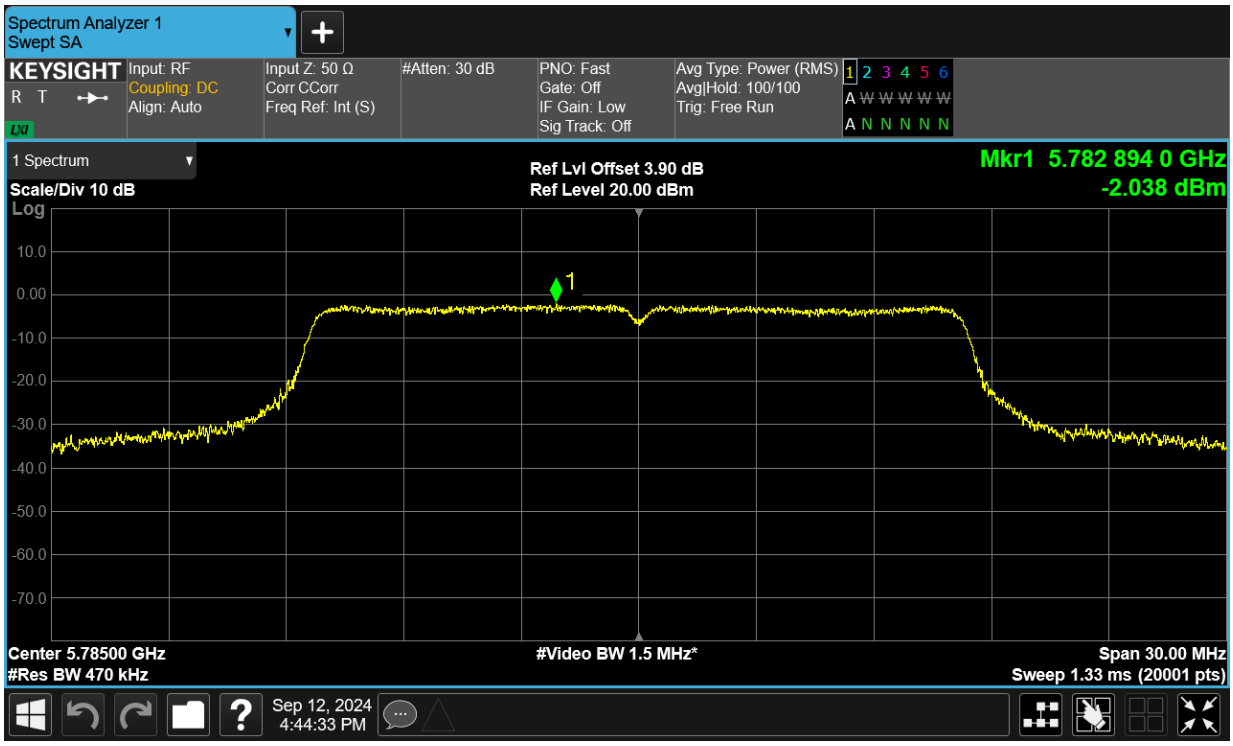
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-1.959	30	Pass
NVNT	a	5785	Ant1	-2.038	30	Pass
NVNT	a	5825	Ant1	-1.793	30	Pass
NVNT	ac20	5745	Ant1	-2.874	30	Pass
NVNT	ac20	5785	Ant1	-3.335	30	Pass
NVNT	ac20	5825	Ant1	-3.265	30	Pass
NVNT	ac40	5755	Ant1	-5.897	30	Pass
NVNT	ac40	5795	Ant1	-6.199	30	Pass
NVNT	ac80	5775	Ant1	-9.738	30	Pass
NVNT	n20	5745	Ant1	-2.045	30	Pass
NVNT	n20	5785	Ant1	-2.211	30	Pass
NVNT	n20	5825	Ant1	-1.955	30	Pass
NVNT	n40	5755	Ant1	-5.556	30	Pass
NVNT	n40	5795	Ant1	-5.548	30	Pass

Test Graphs

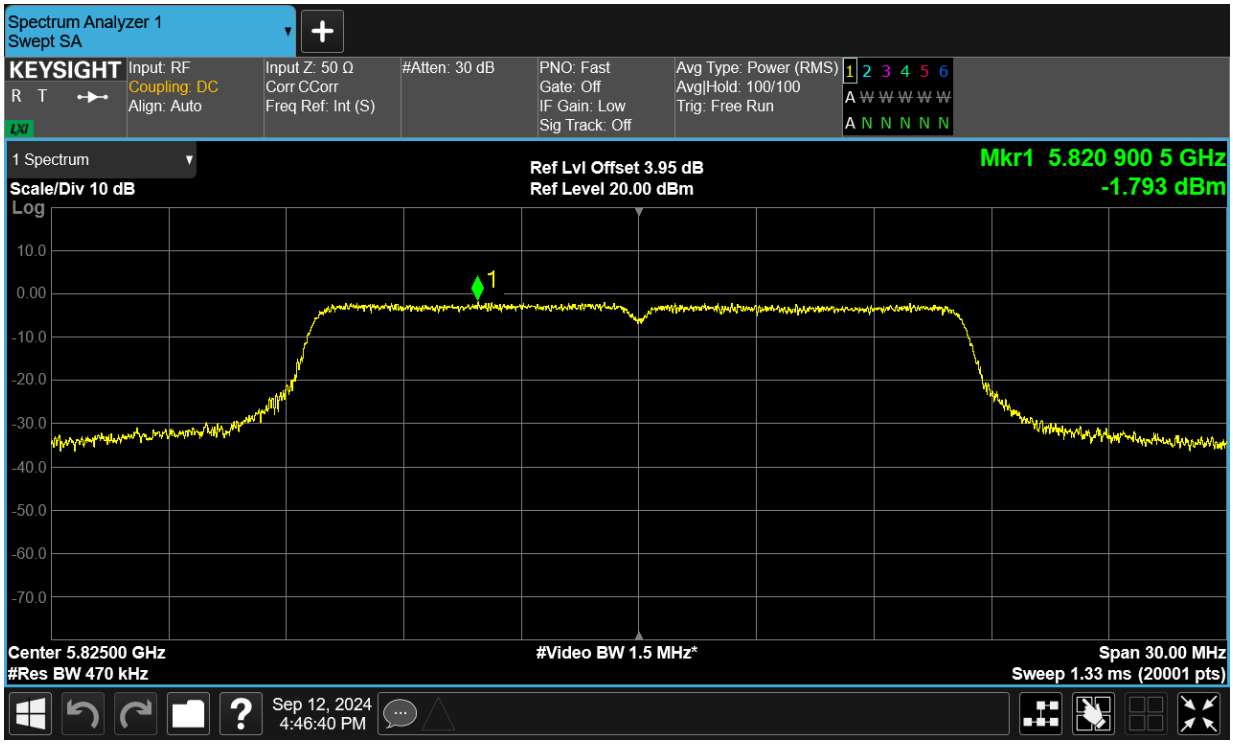
PSD NVNT a 5745MHz Ant1



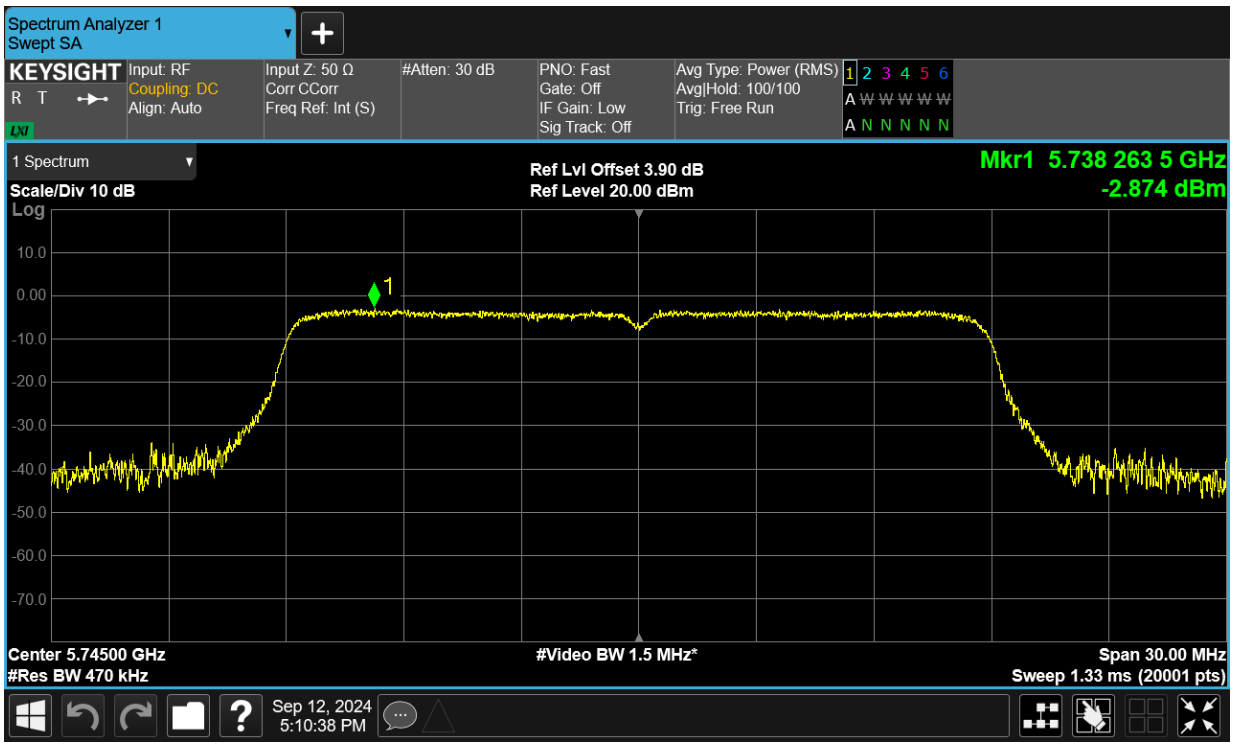
PSD NVNT a 5785MHz Ant1



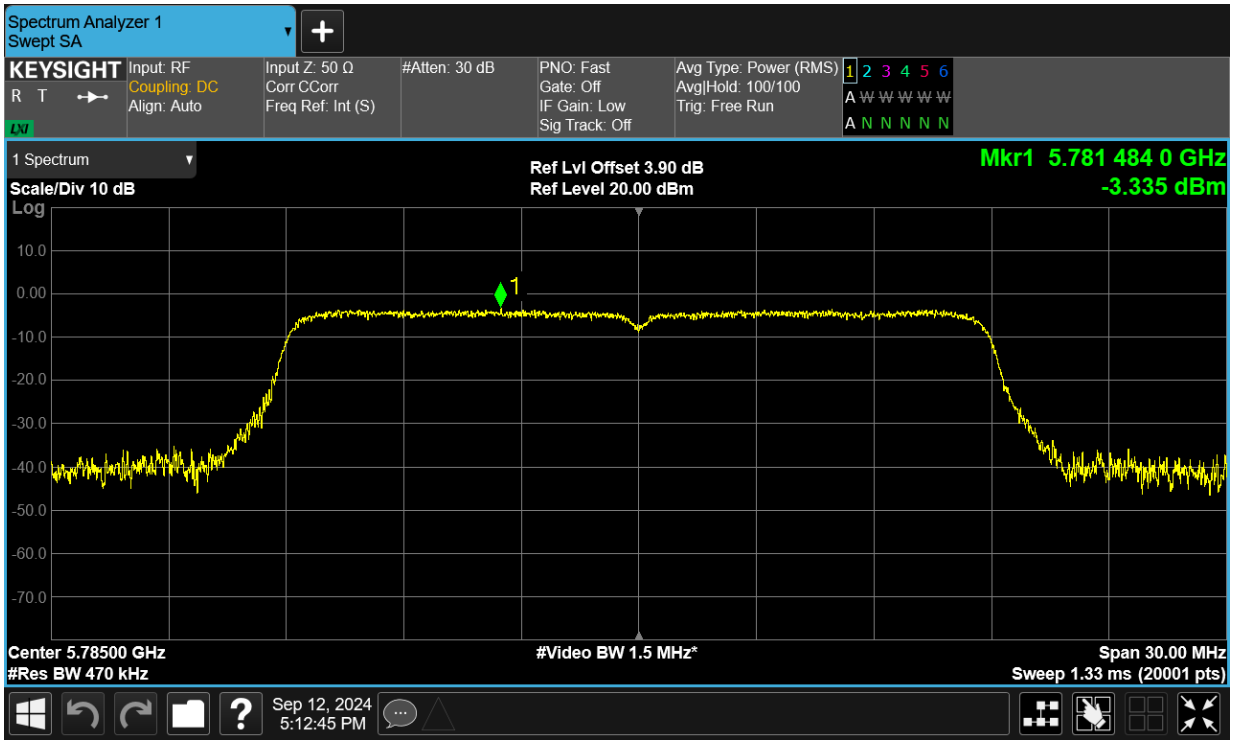
PSD NVNT a 5825MHz Ant1



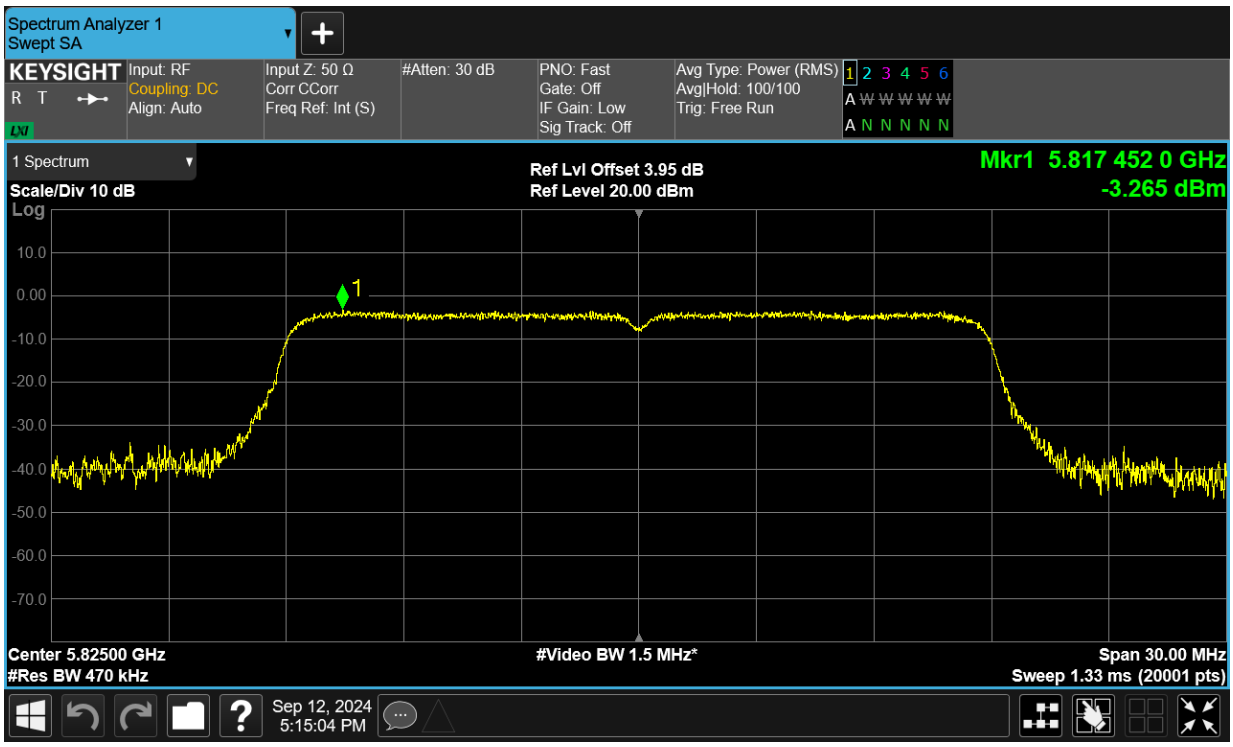
PSD NVNT ac20 5745MHz Ant1



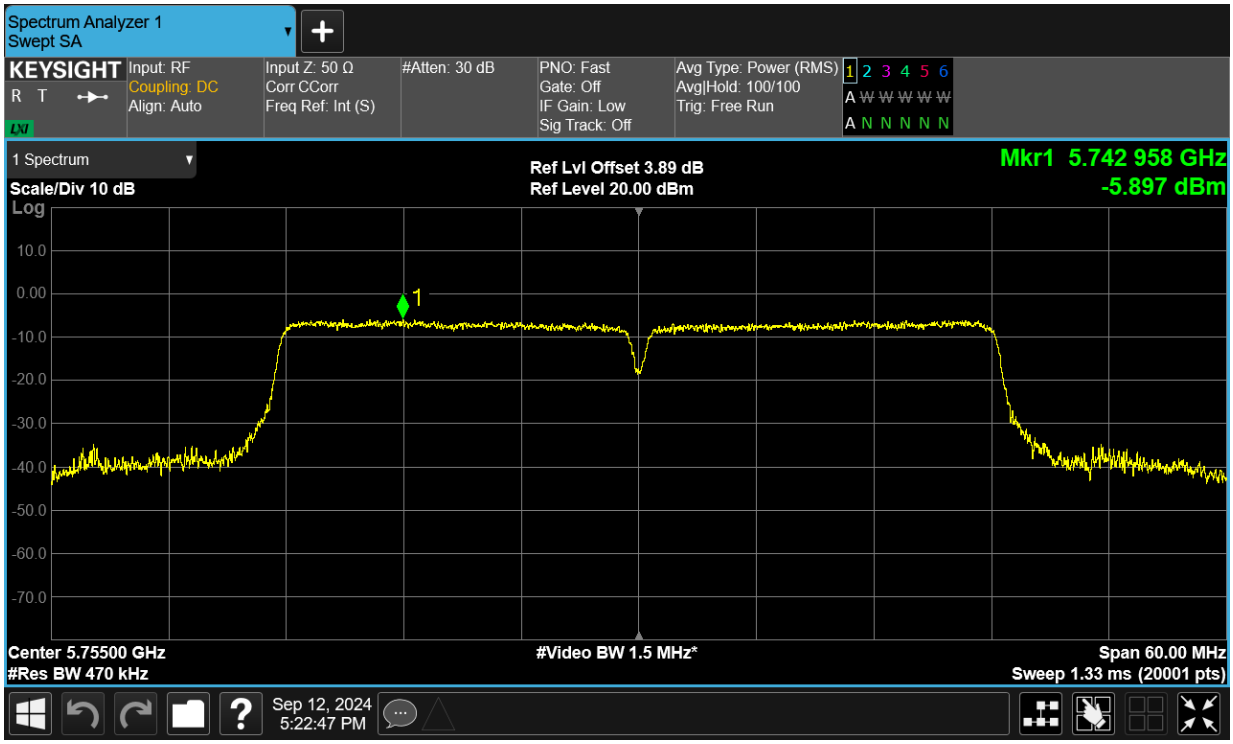
PSD NVNT ac20 5785MHz Ant1



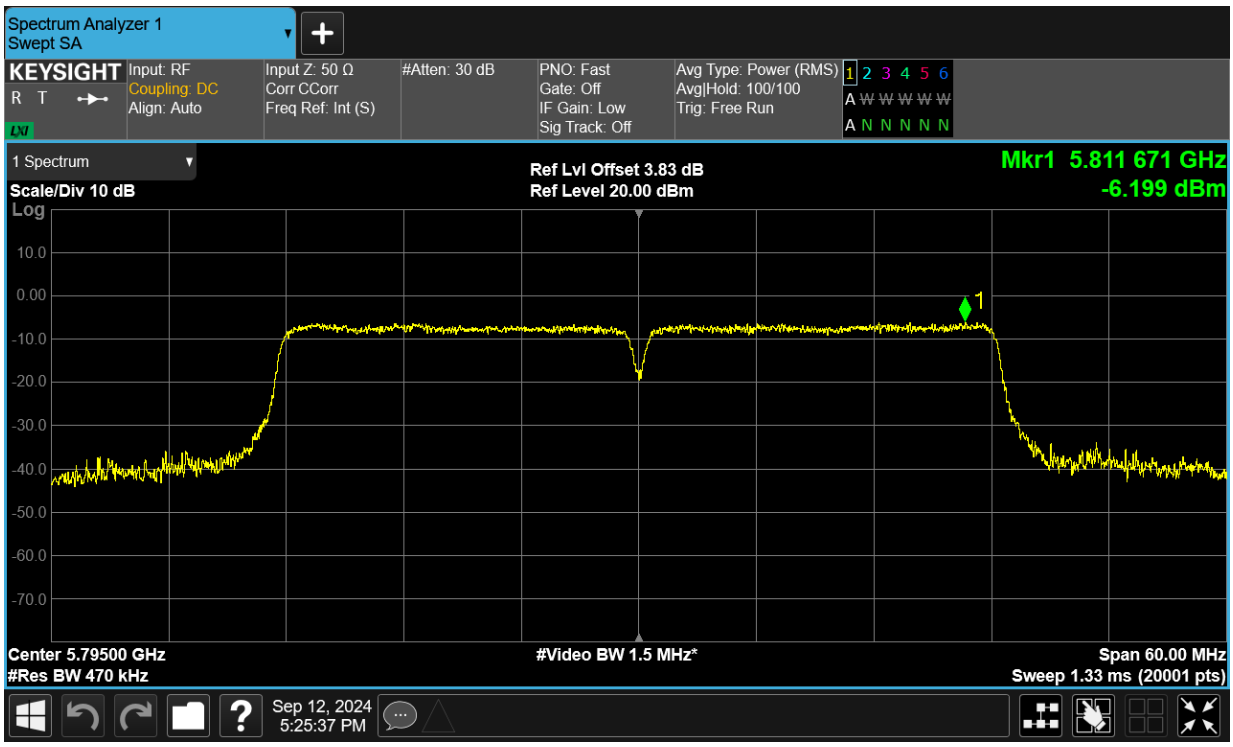
PSD NVNT ac20 5825MHz Ant1



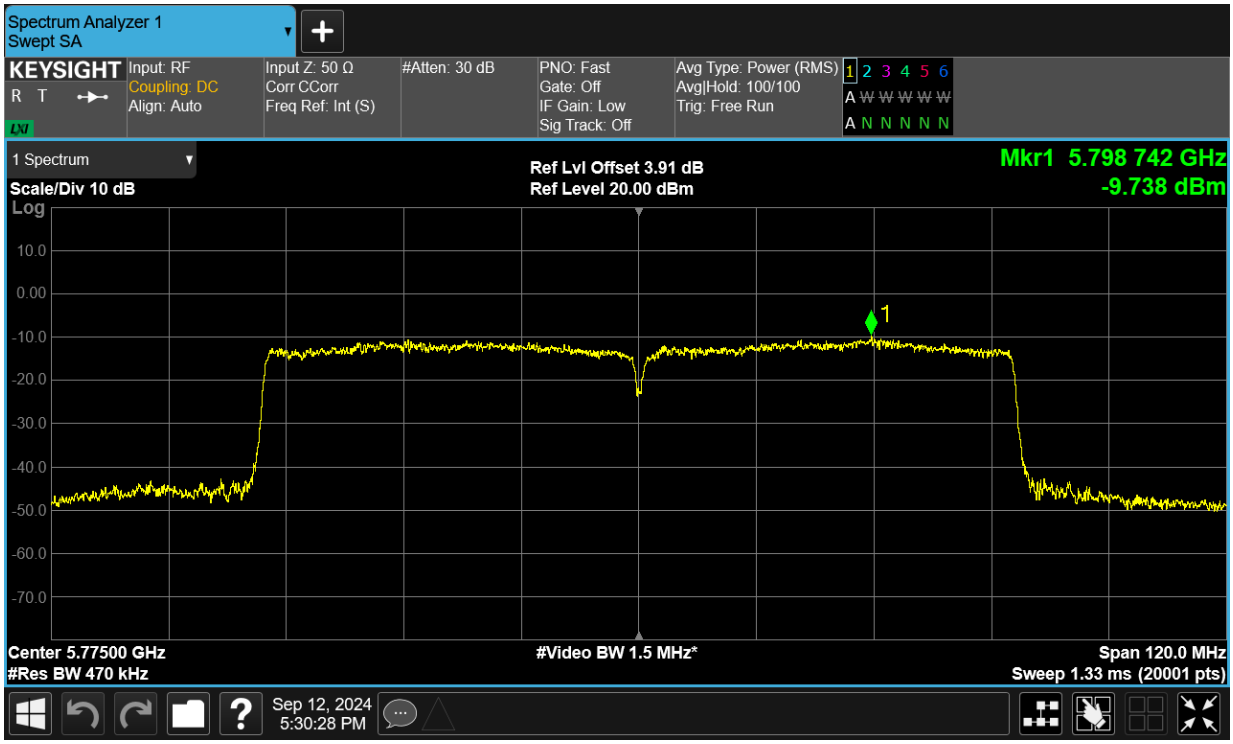
PSD NVNT ac40 5755MHz Ant1



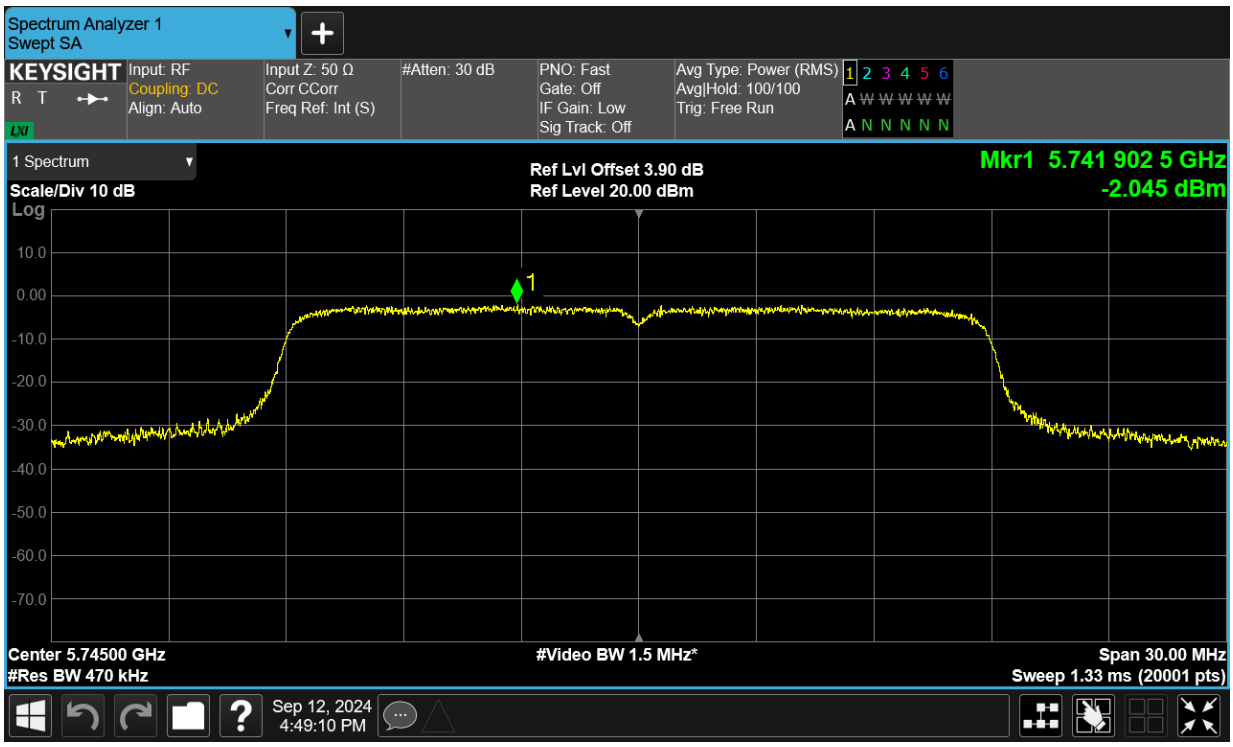
PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1



PSD NVNT n20 5745MHz Ant1



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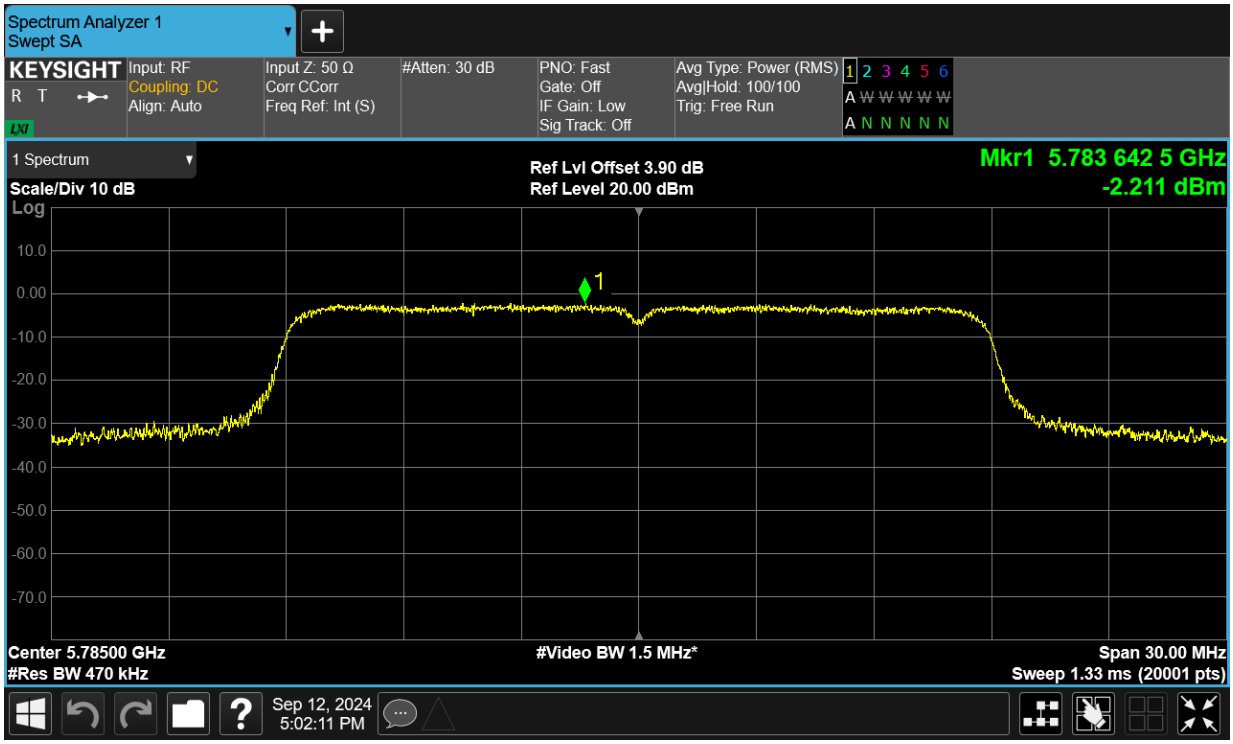
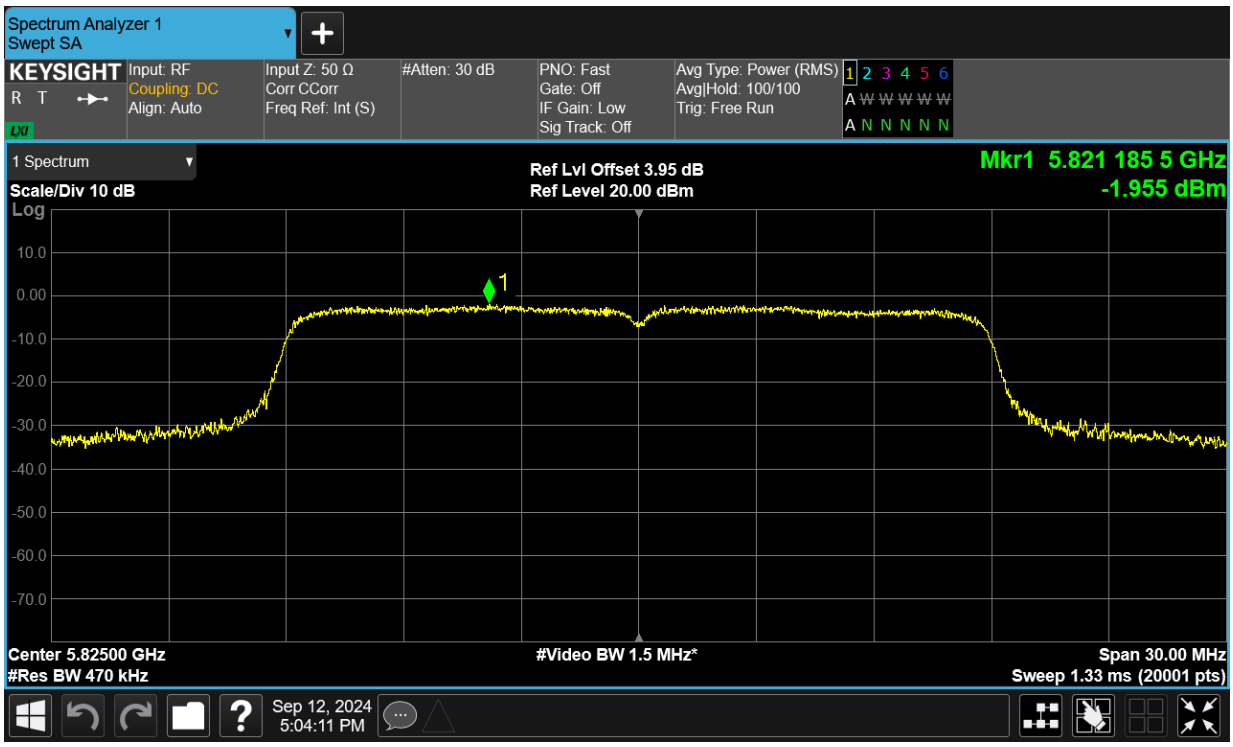
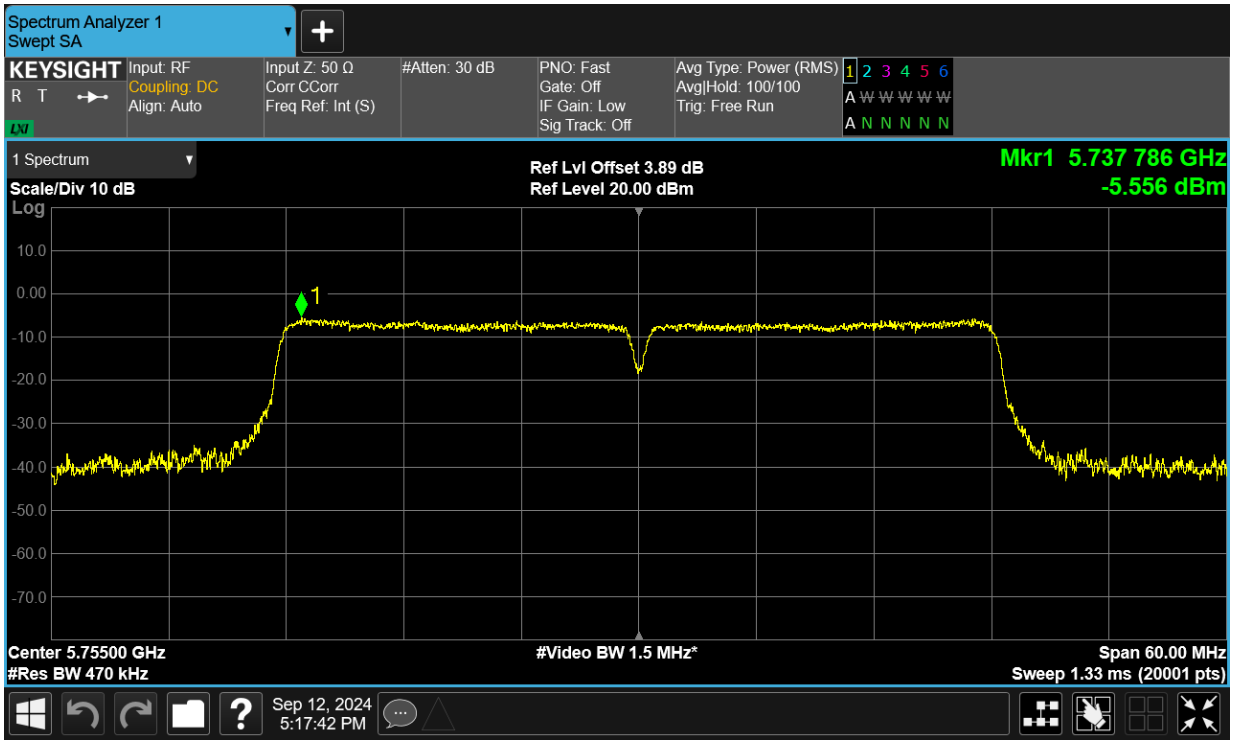
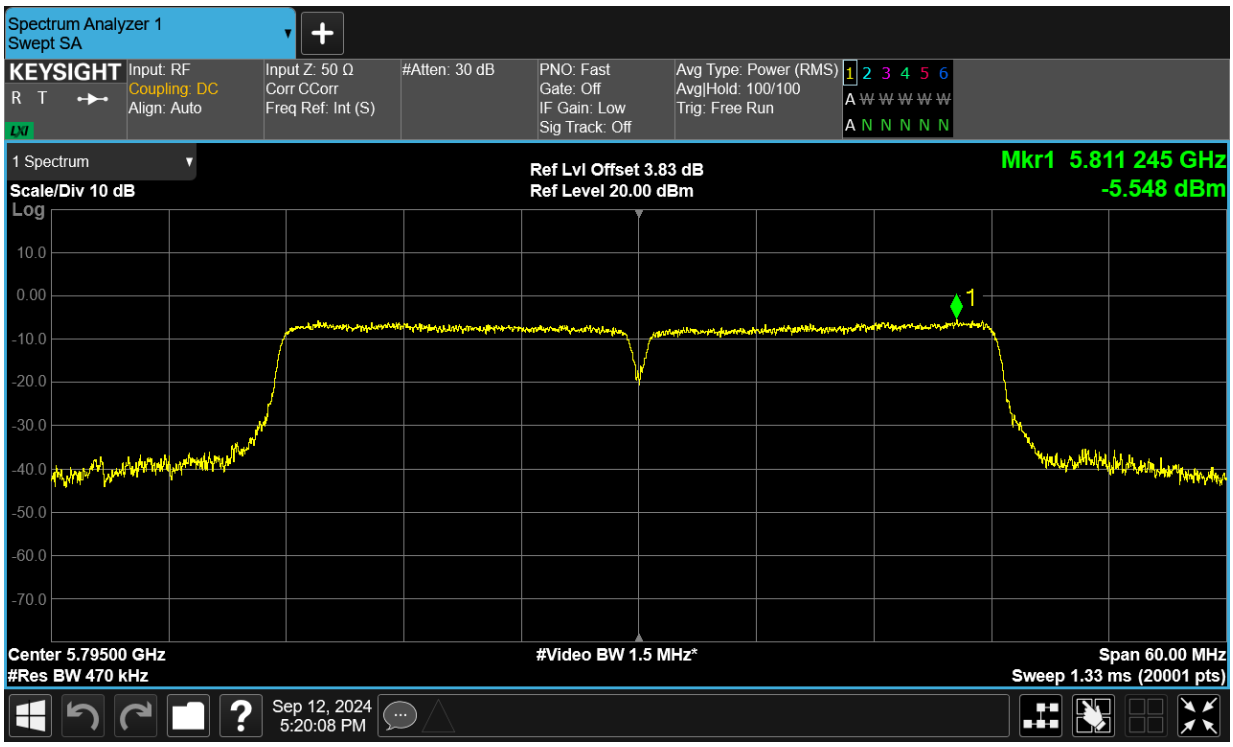


PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1