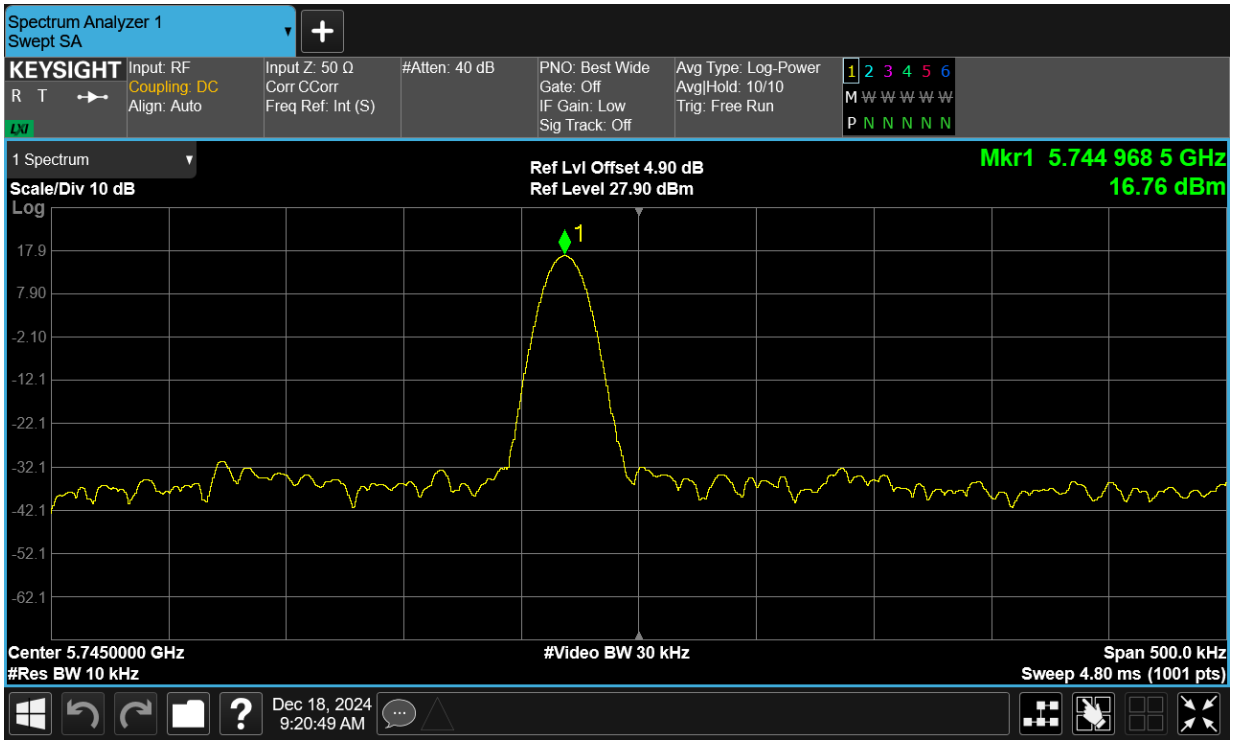
Test Data

Frequency Stability

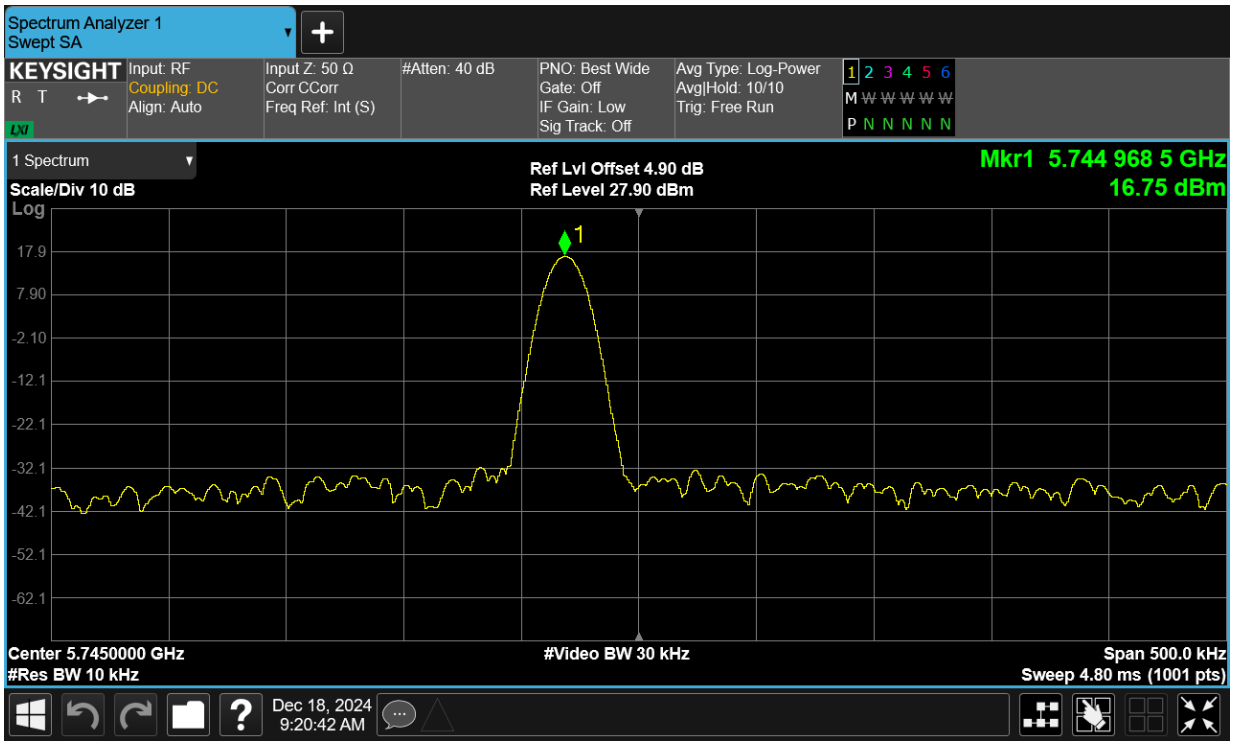
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant13	5744.9685	-5.48	Within authorized band	Pass
LVNT	a	5745	Ant13	5744.9685	-5.48		Pass
NVHT	a	5745	Ant13	5744.969	-5.4		Pass
NVLT	a	5745	Ant13	5744.9695	-5.31		Pass
NVNT	a	5745	Ant13	5744.97	-5.22		Pass
HVNT	ac80	5775	Ant13	5774.9665	-5.8		Pass
LVNT	ac80	5775	Ant13	5774.9665	-5.8		Pass
NVHT	ac80	5775	Ant13	5774.9665	-5.8		Pass
NVLT	ac80	5775	Ant13	5774.966	-5.89		Pass
NVNT	ac80	5775	Ant13	5774.966	-5.89		Pass
HVNT	n40	5755	Ant13	5754.967	-5.73		Pass
LVNT	n40	5755	Ant13	5754.967	-5.73		Pass
NVHT	n40	5755	Ant13	5754.967	-5.73		Pass
NVLT	n40	5755	Ant13	5754.967	-5.73		Pass
NVNT	n40	5755	Ant13	5754.967	-5.73		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.

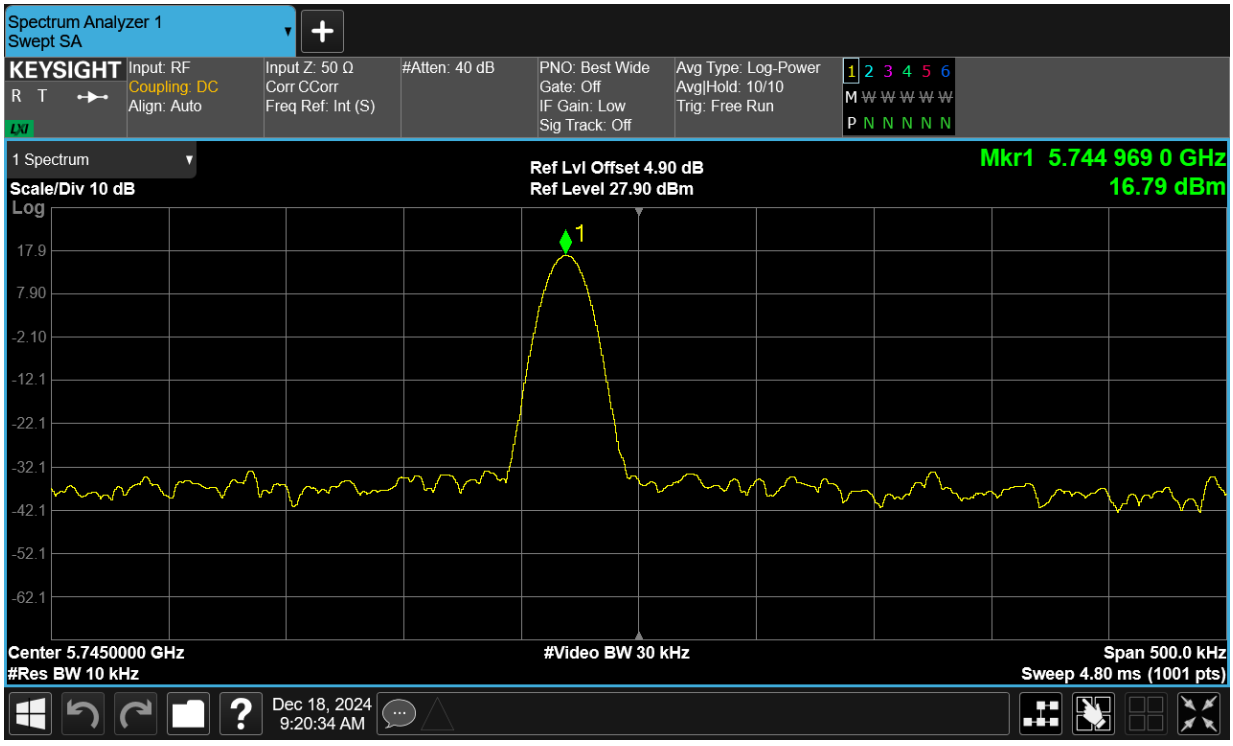
Test Graphs
Freq. Stability HVNT a 5745MHz Ant13



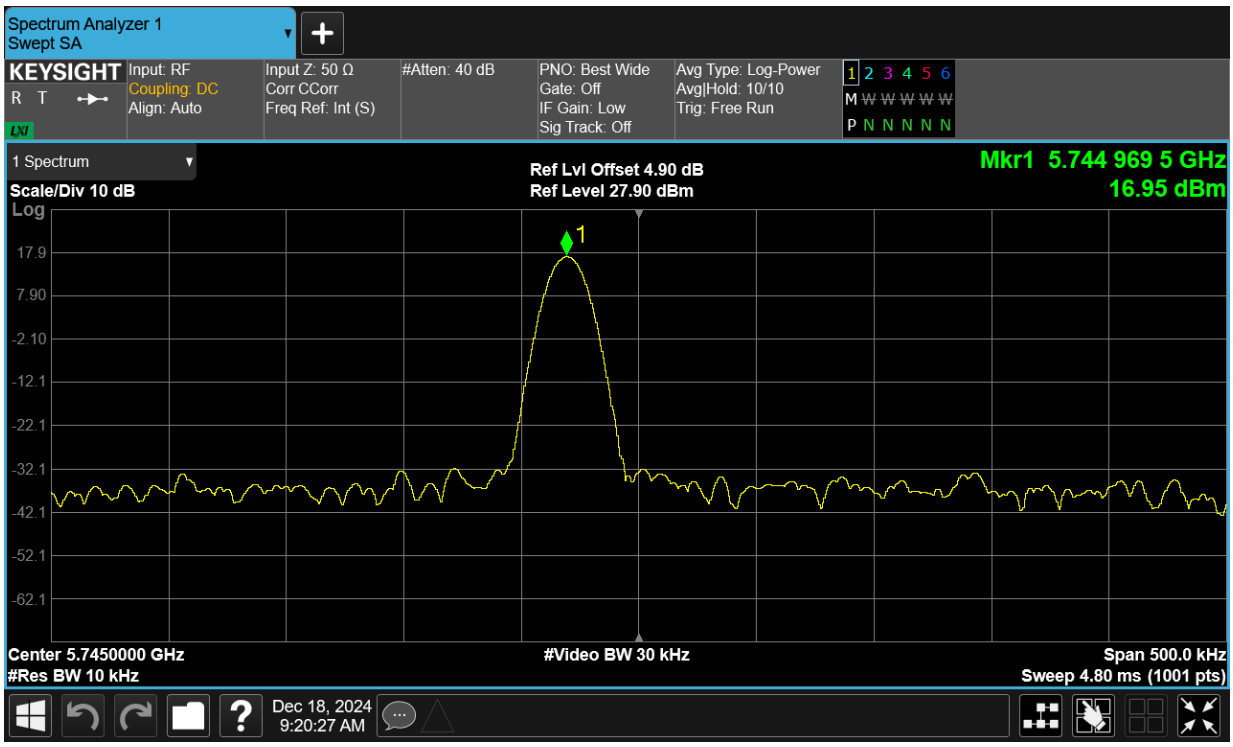
Freq. Stability LVNT a 5745MHz Ant13



Freq. Stability NVHT a 5745MHz Ant13

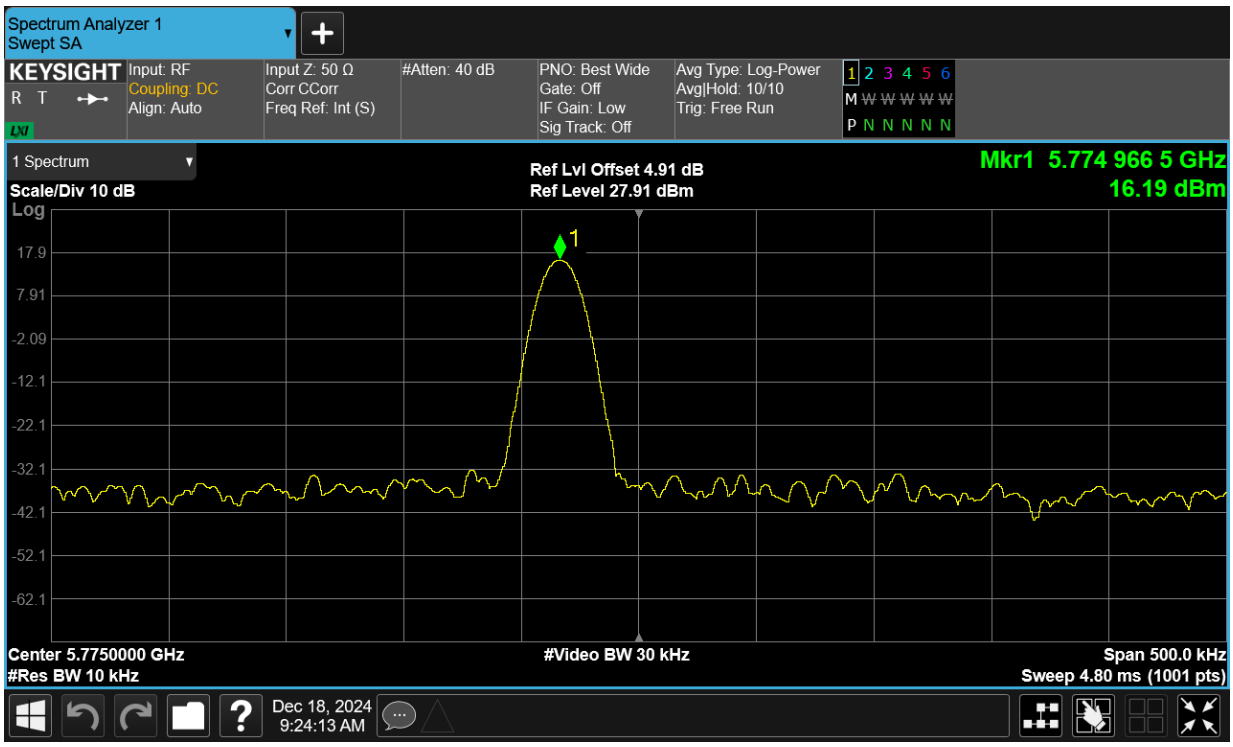


Freq. Stability NVLT a 5745MHz Ant13

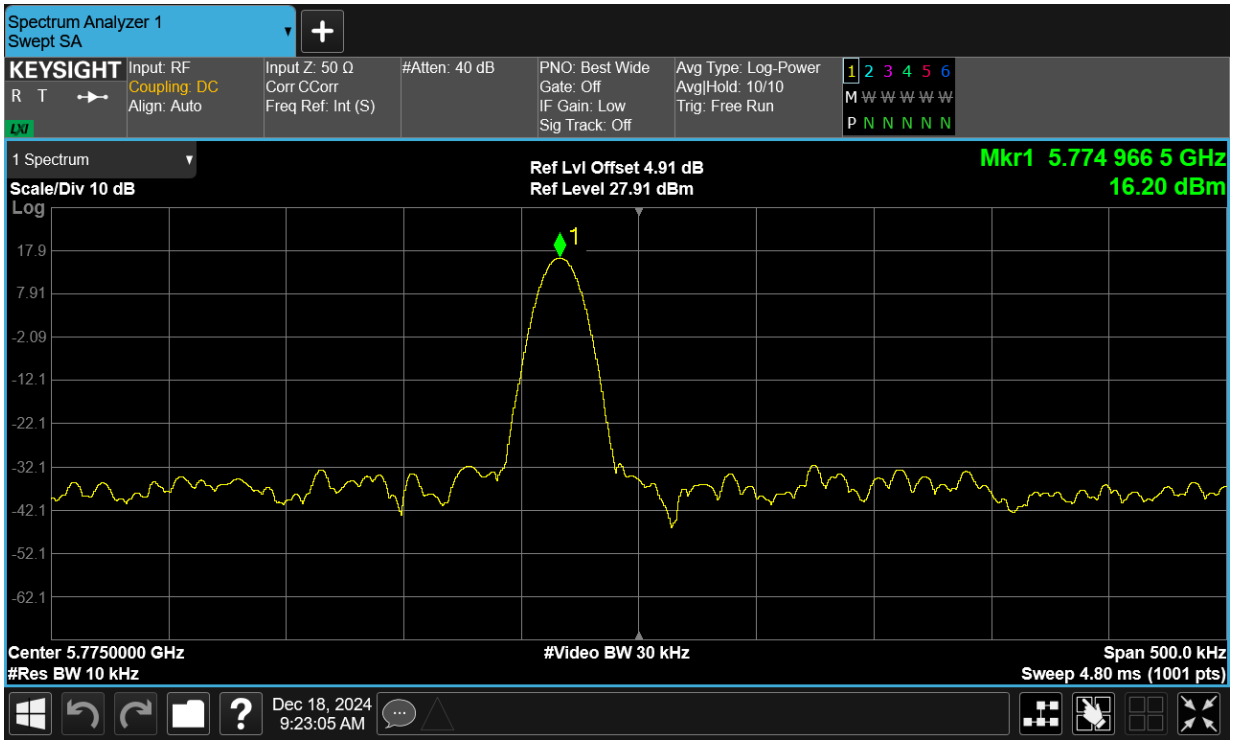


Freq. Stability NVNT a 5745MHz Ant13

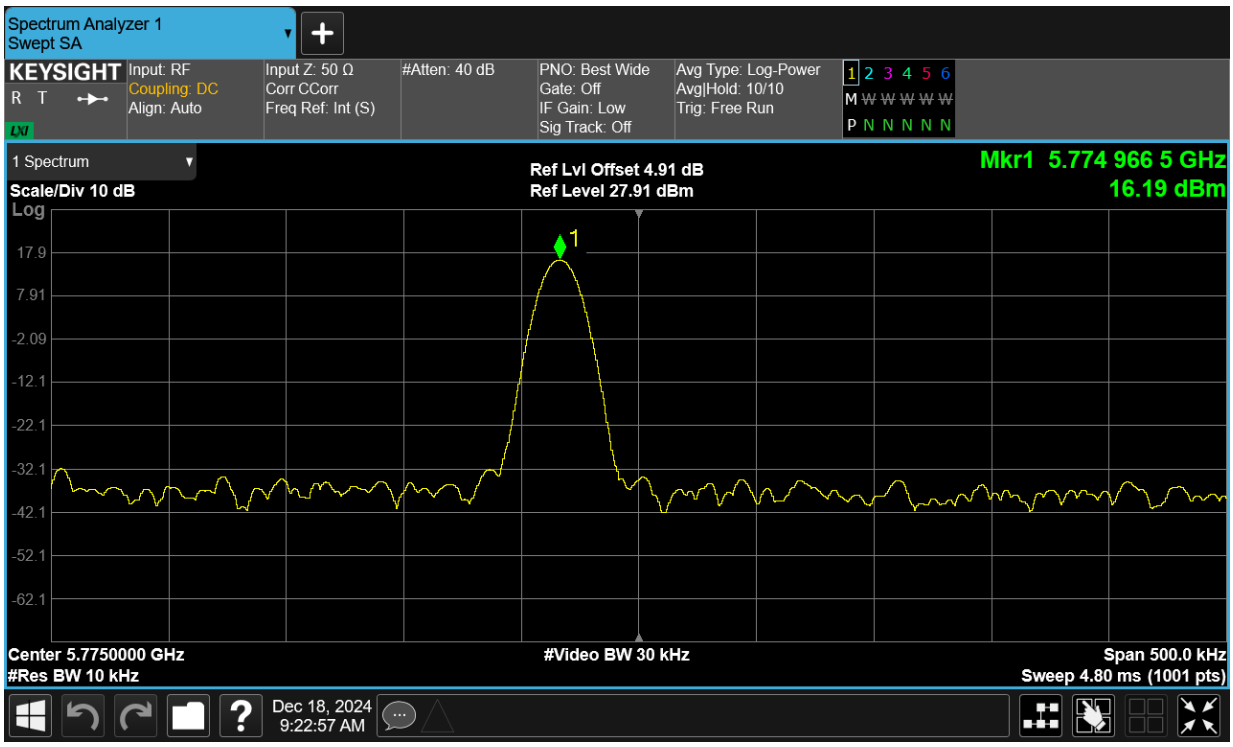
Freq. Stability HVNT ac80 5775MHz Ant13



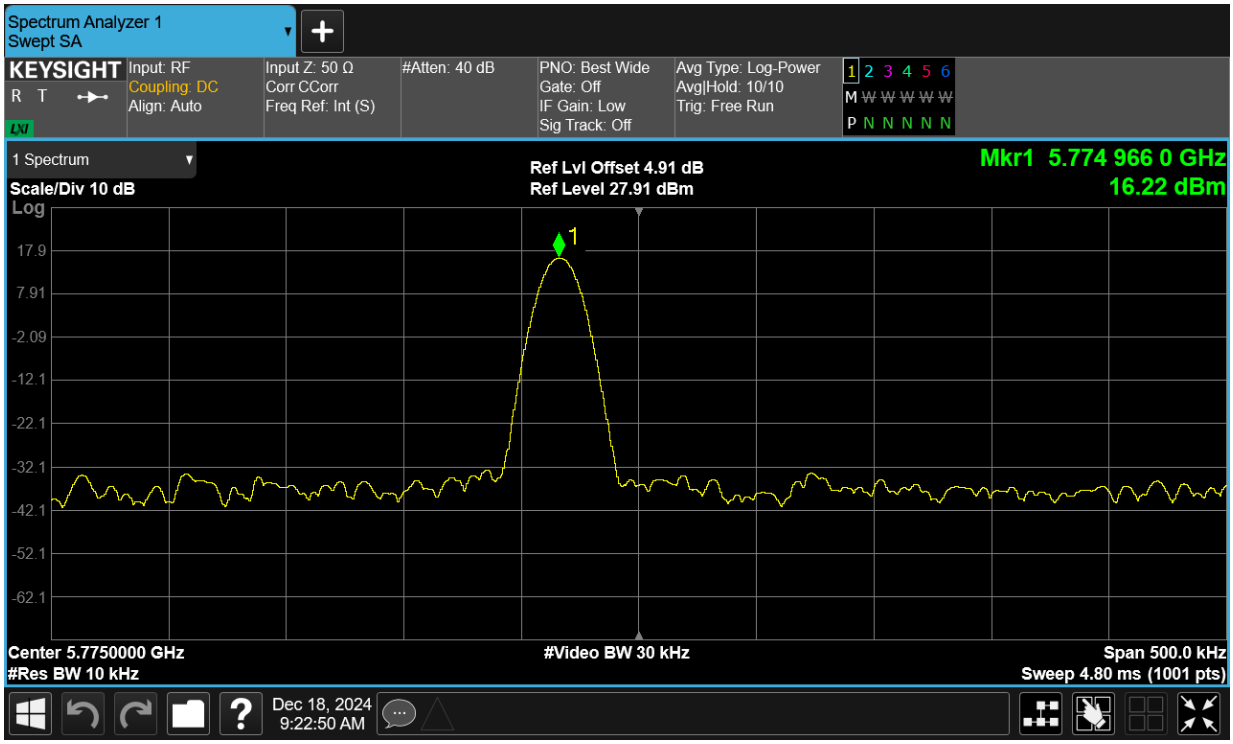
Freq. Stability LVNT ac80 5775MHz Ant13



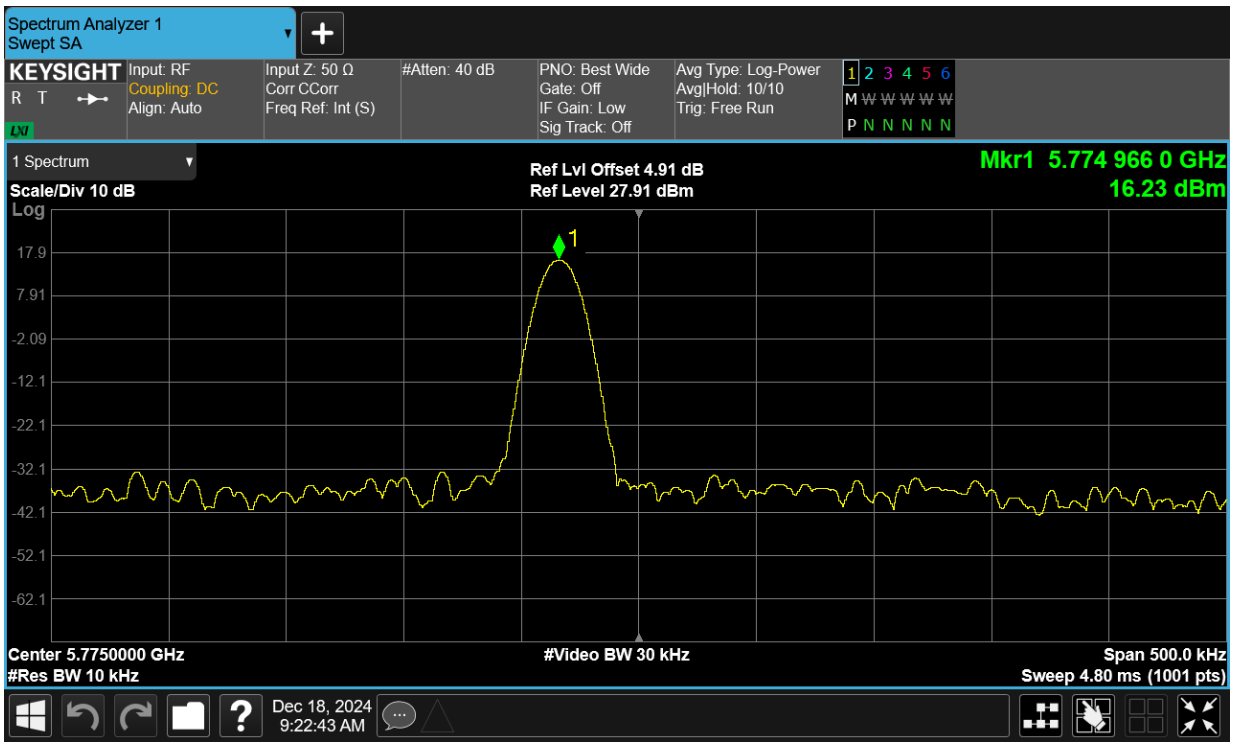
Freq. Stability NVHT ac80 5775MHz Ant13



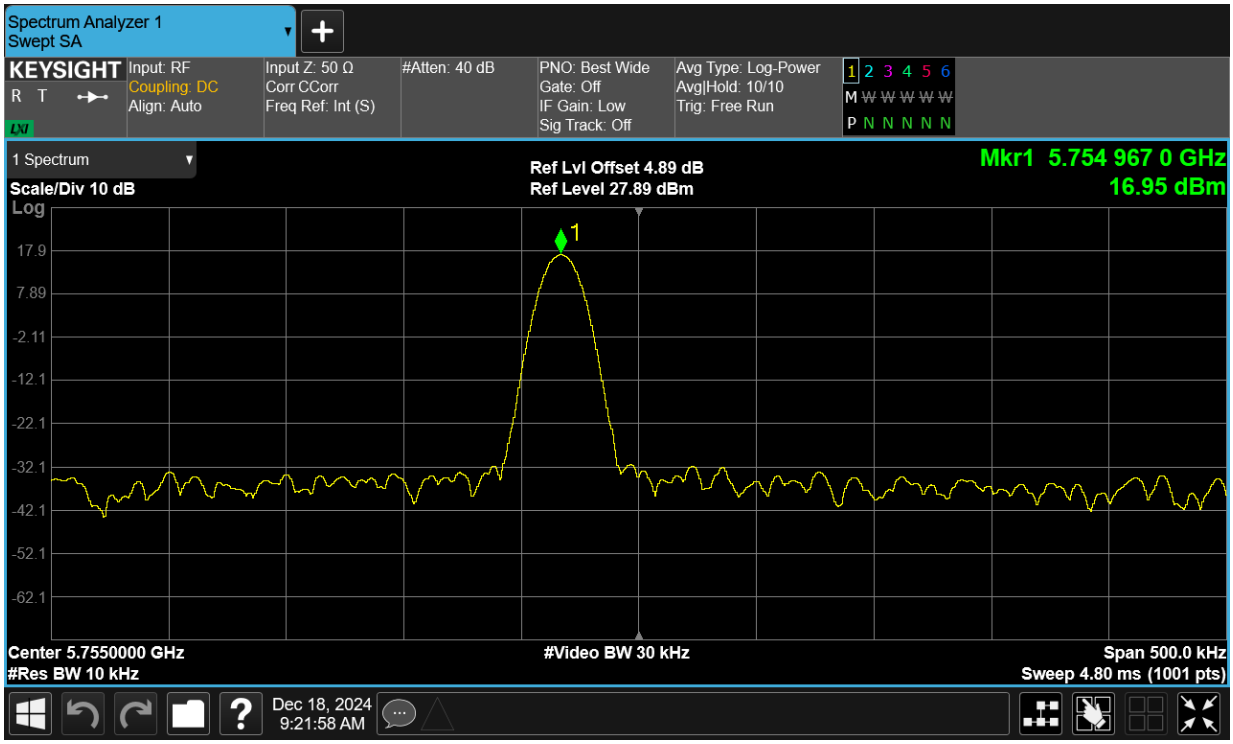
Freq. Stability NVLT ac80 5775MHz Ant13



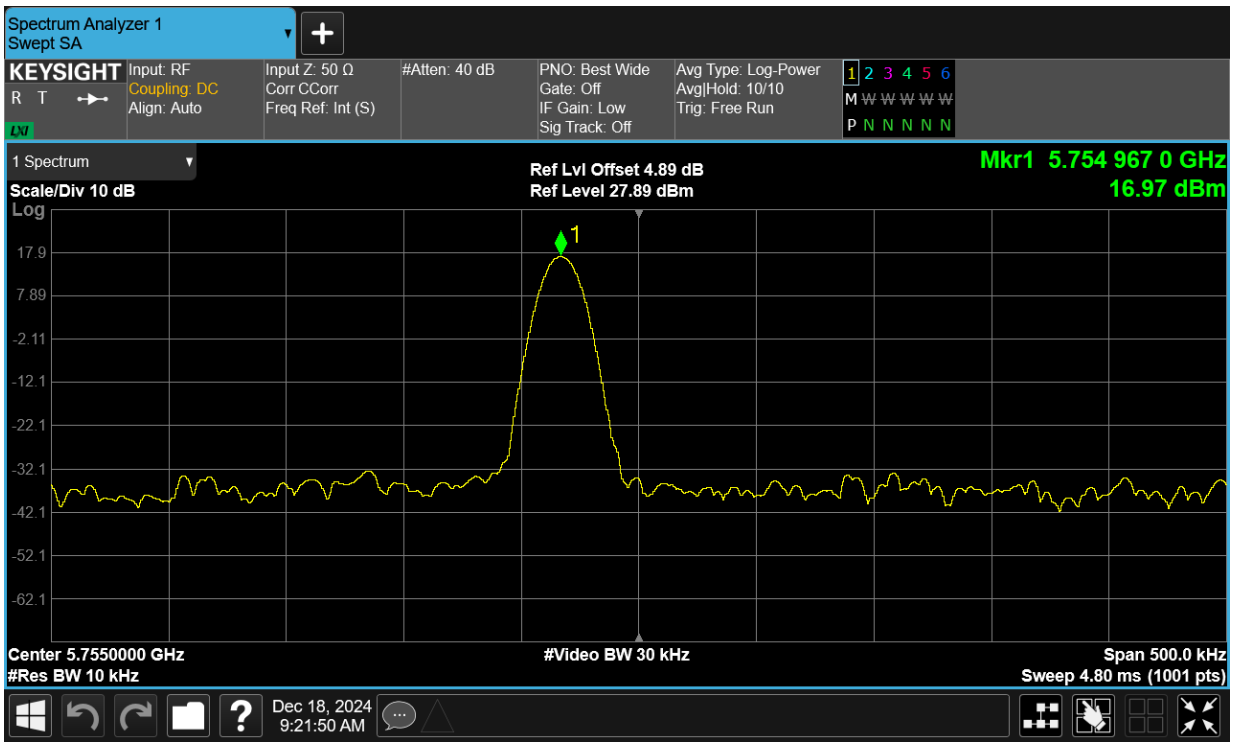
Freq. Stability NVNT ac80 5775MHz Ant13



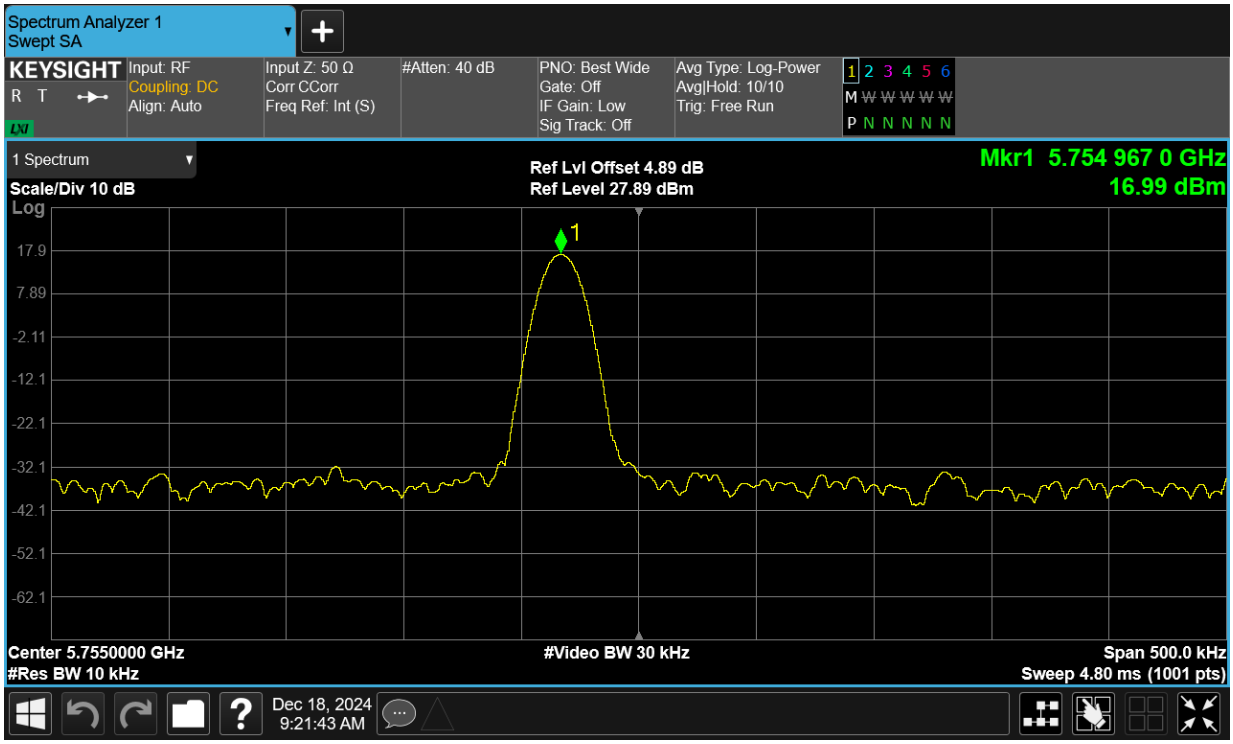
Freq. Stability HVNT n40 5755MHz Ant13



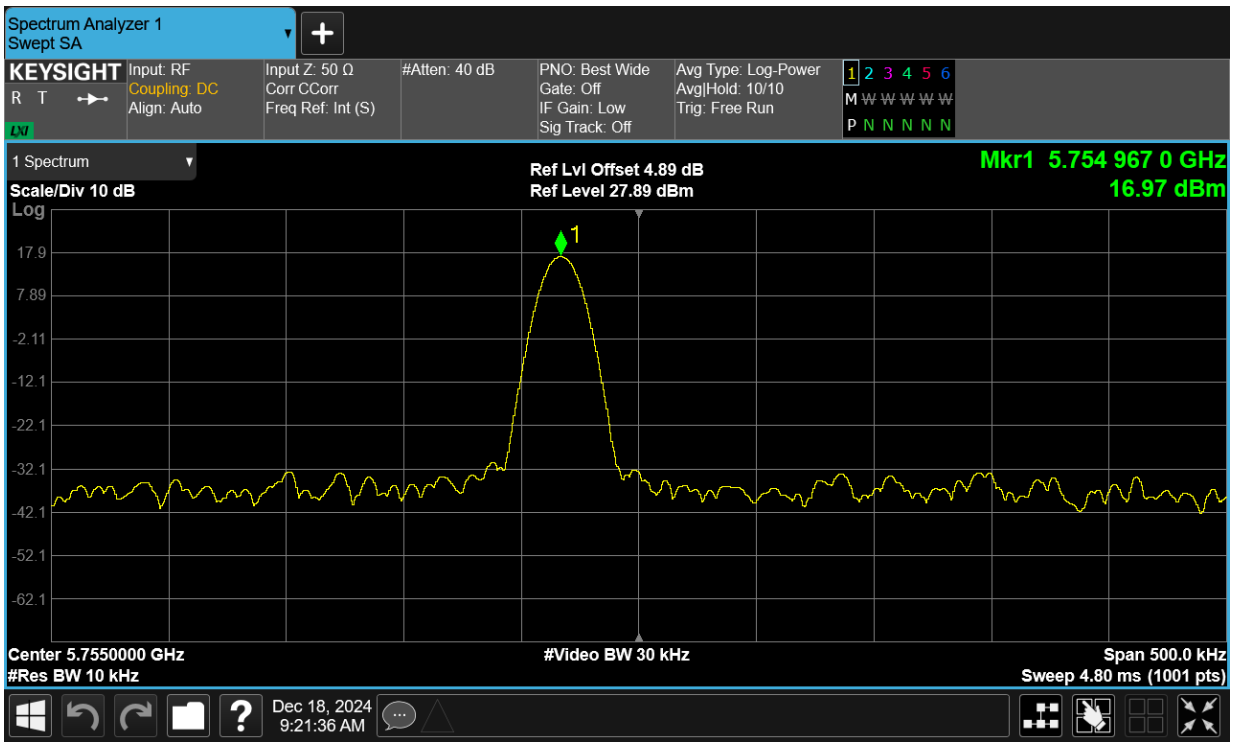
Freq. Stability LVNT n40 5755MHz Ant13



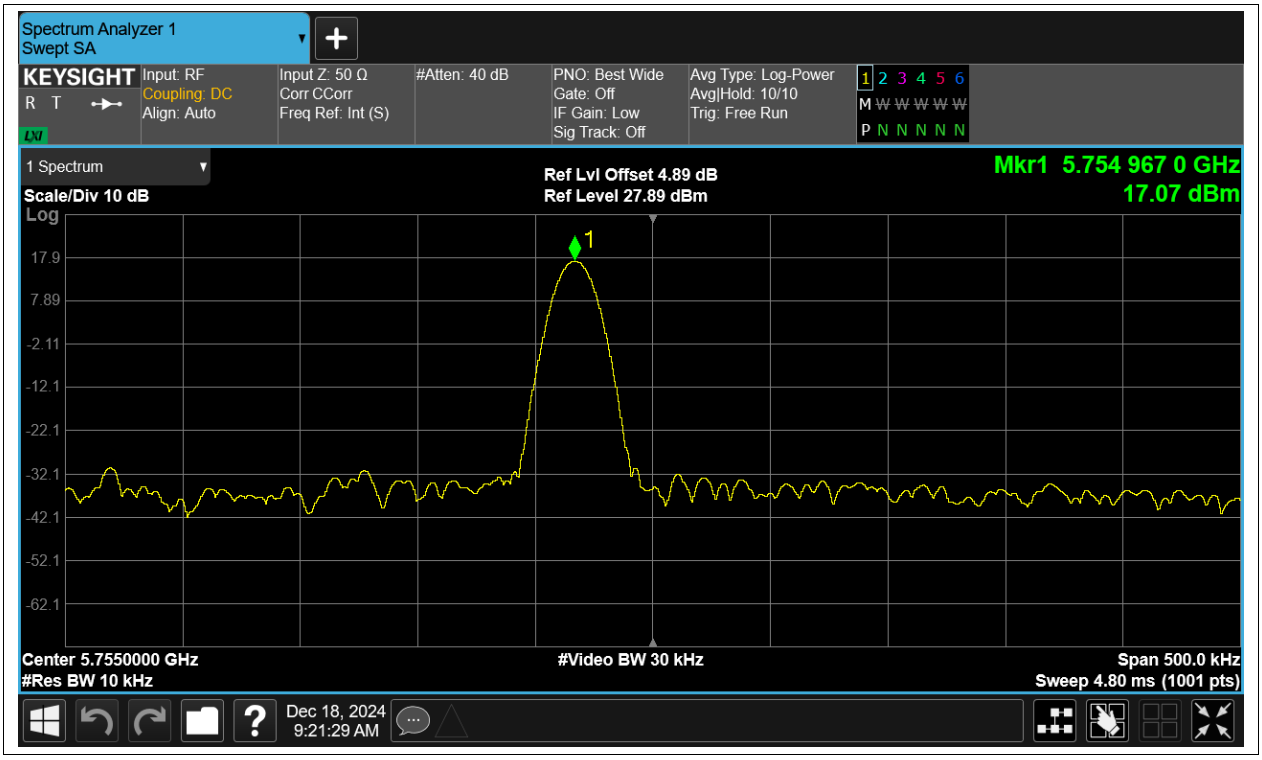
Freq. Stability NVHT n40 5755MHz Ant13



Freq. Stability NVLT n40 5755MHz Ant13



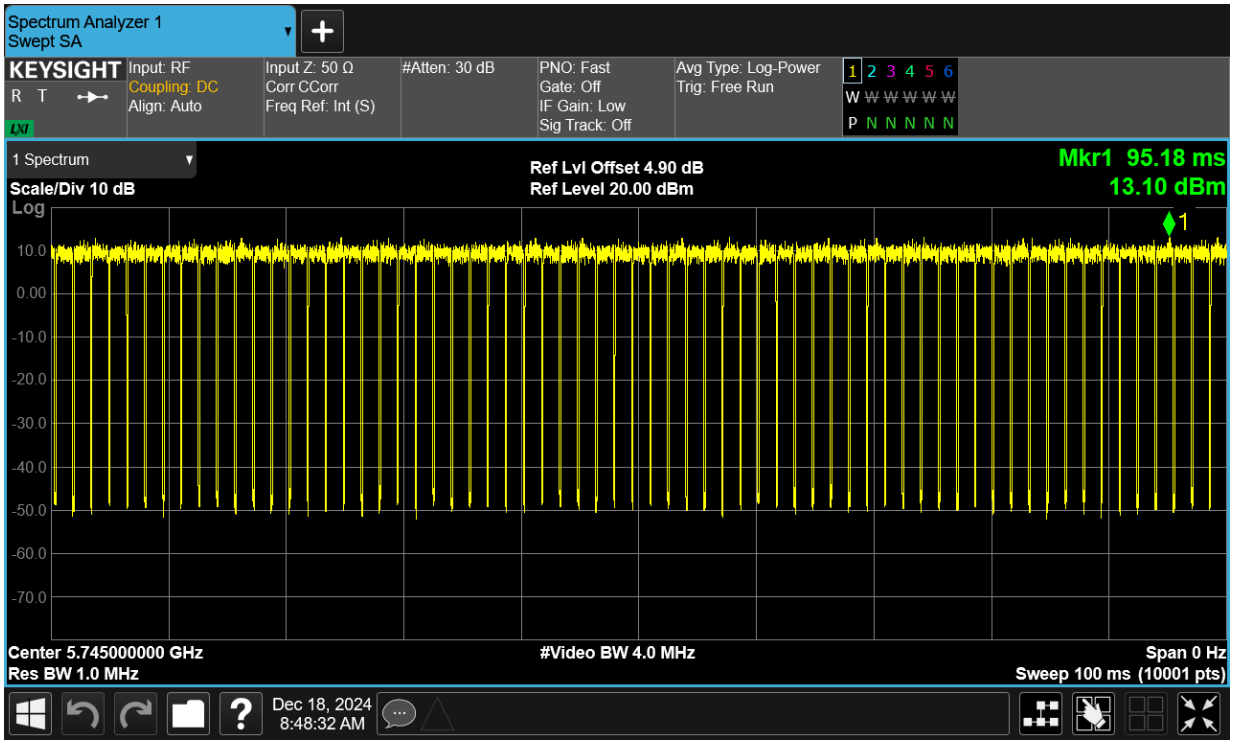
Freq. Stability NVNT n40 5755MHz Ant13


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
Ref Lvl Offset 4.89 dB
Ref Level 27.89 dBm
Mkr1 5.754 967 0 GHz
17.07 dBm
Log
17.9
7.89
-2.11
-12.1
-22.1
-32.1
-42.1
-52.1
-62.1
Center 5.7550000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Dec 18, 2024
9:21:29 AM

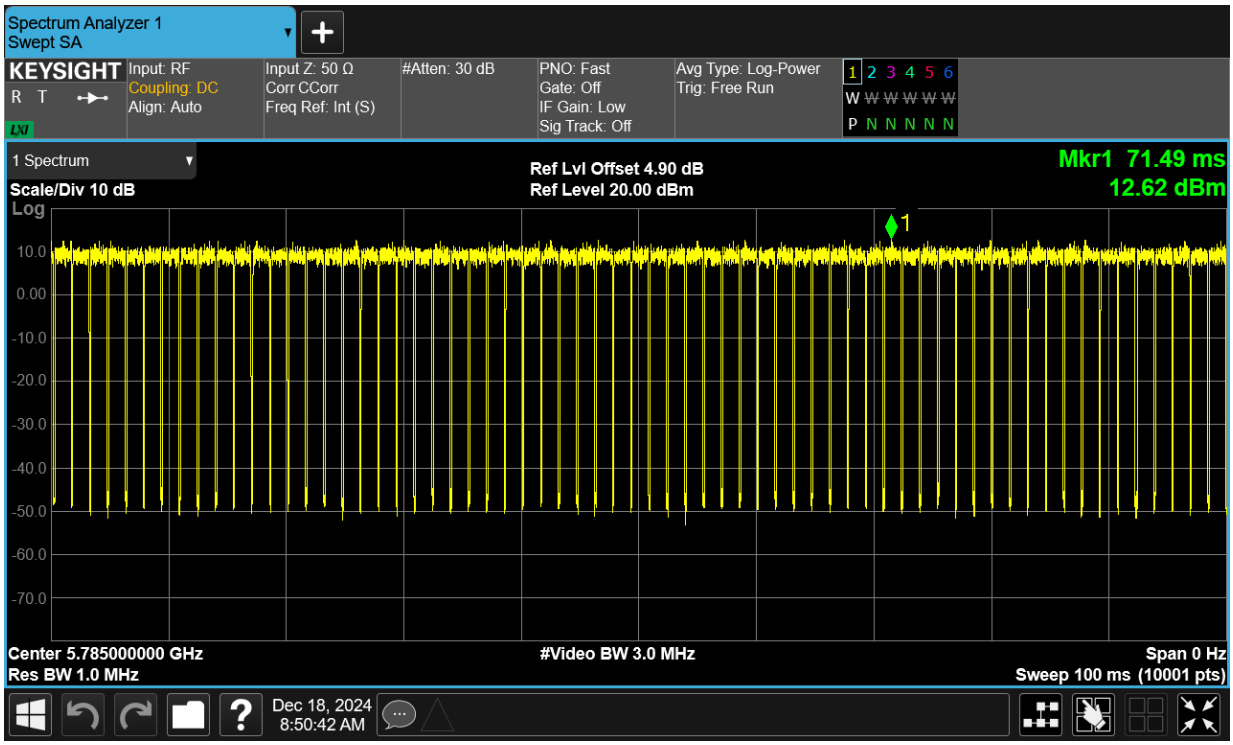
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant13	91.38	0.39
NVNT	a	5785	Ant13	91.4	0.39
NVNT	a	5825	Ant13	91.51	0.39
NVNT	ac20	5745	Ant13	90	0.46
NVNT	ac20	5785	Ant13	90.07	0.45
NVNT	ac20	5825	Ant13	97.35	0.12
NVNT	ac40	5755	Ant13	82.3	0.85
NVNT	ac40	5795	Ant13	82.34	0.84
NVNT	ac80	5775	Ant13	70.68	1.51
NVNT	n20	5745	Ant13	90.04	0.46
NVNT	n20	5785	Ant13	90.05	0.46
NVNT	n20	5825	Ant13	90.1	0.45
NVNT	n40	5755	Ant13	82.24	0.85
NVNT	n40	5795	Ant13	82.35	0.84

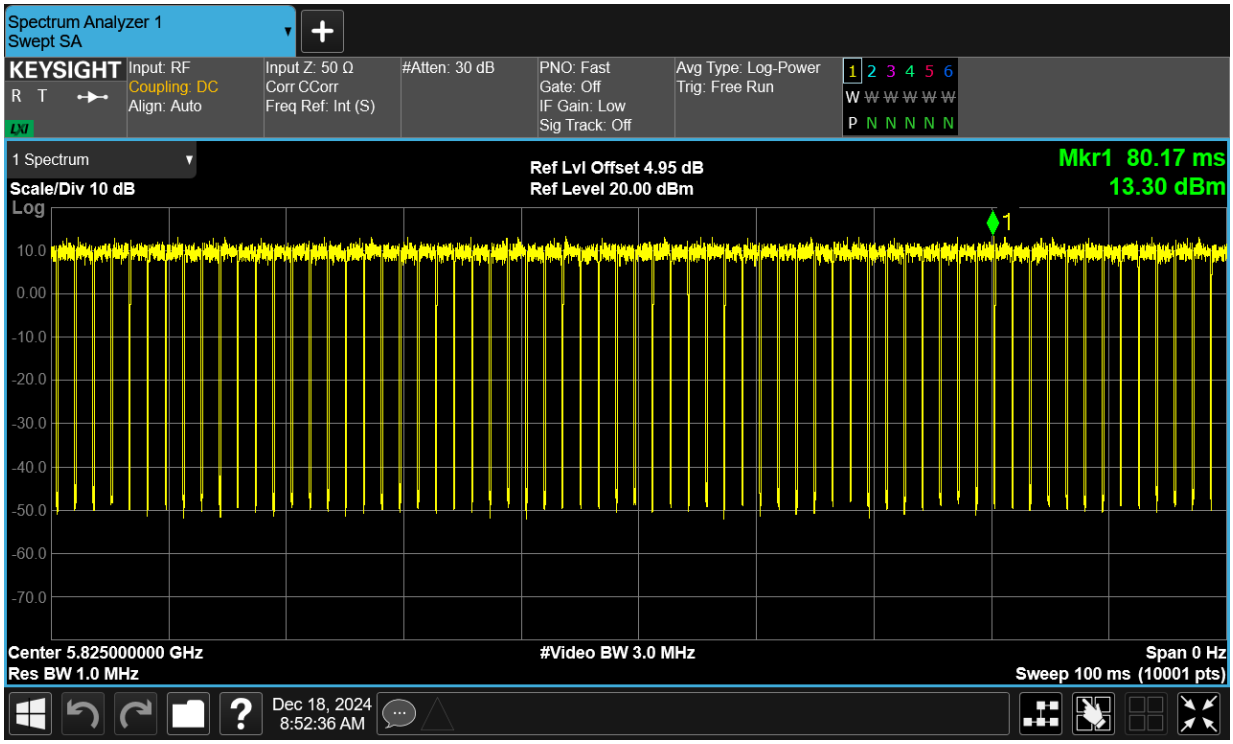
Test Graphs
Duty Cycle NVNT a 5745MHz Ant13



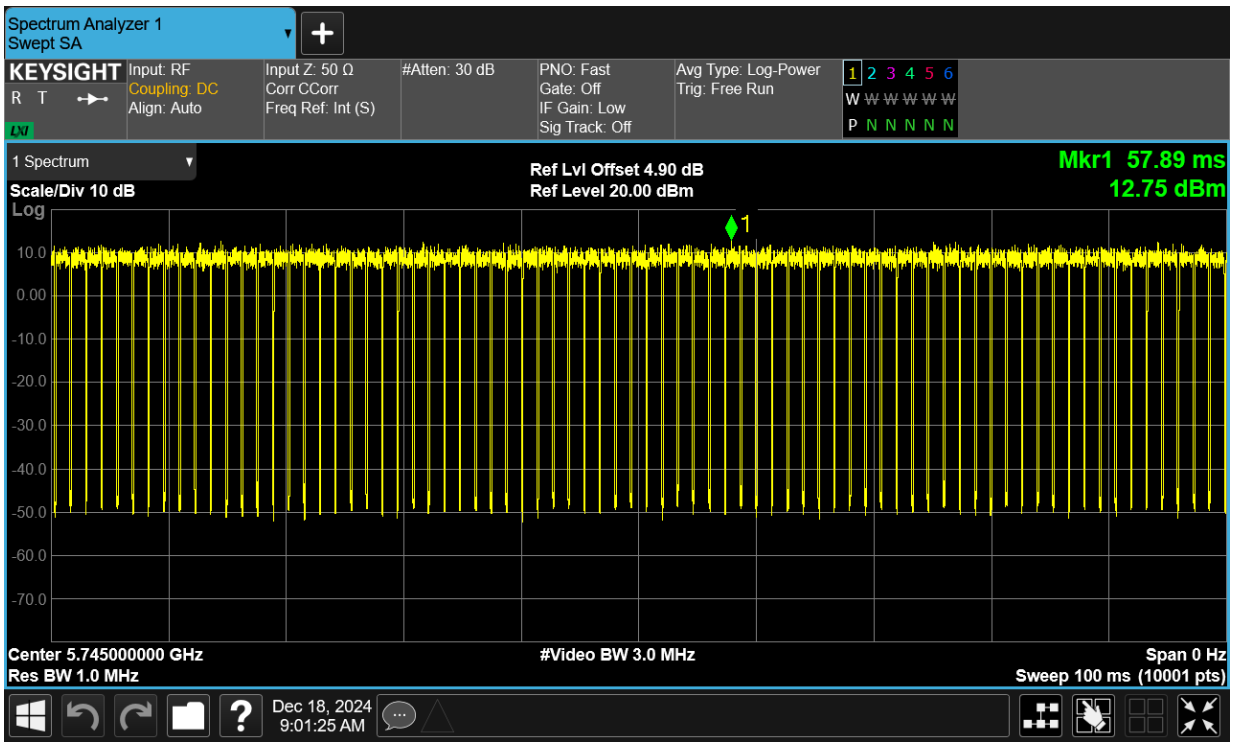
Duty Cycle NVNT a 5785MHz Ant13



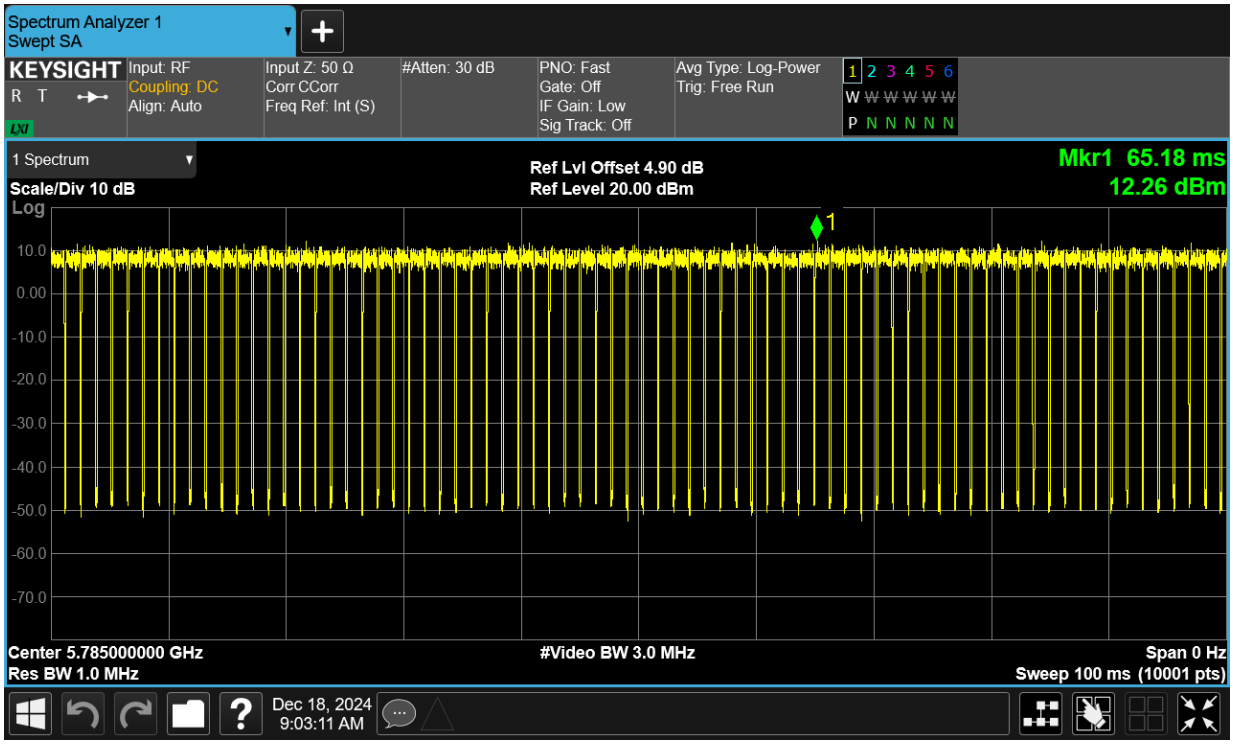
Duty Cycle NVNT a 5825MHz Ant13



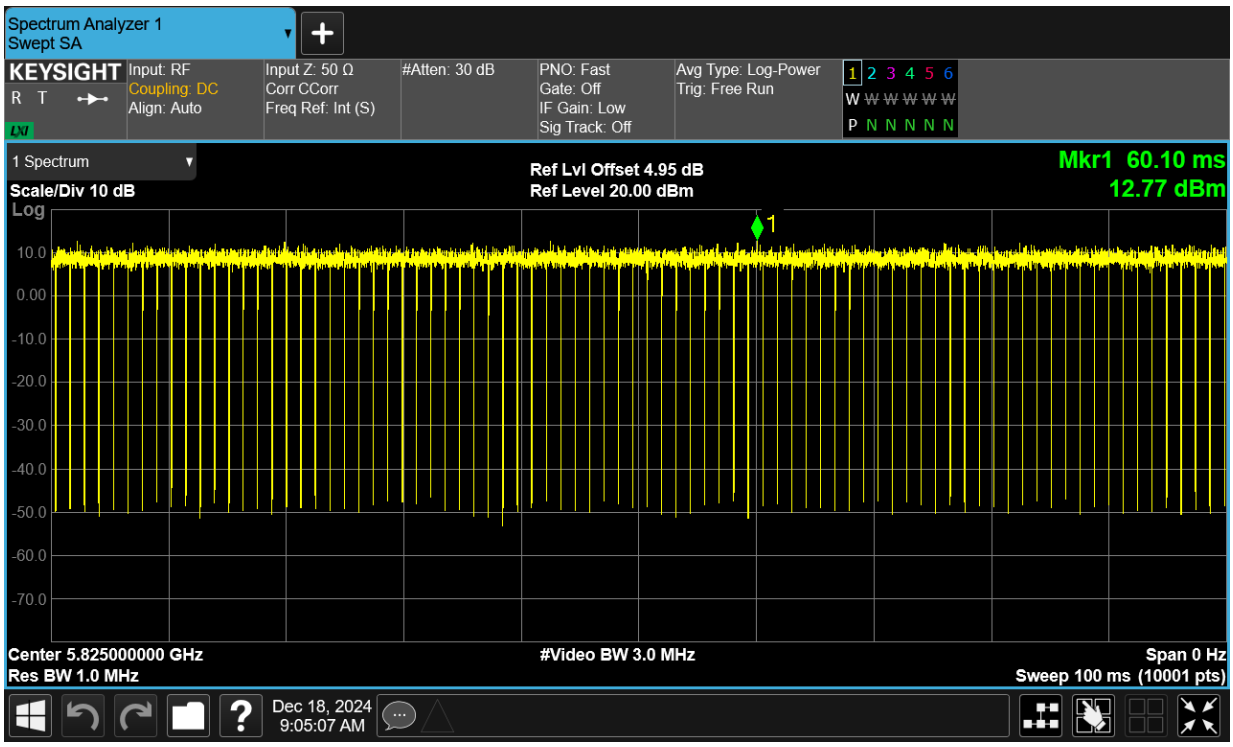
Duty Cycle NVNT ac20 5745MHz Ant13



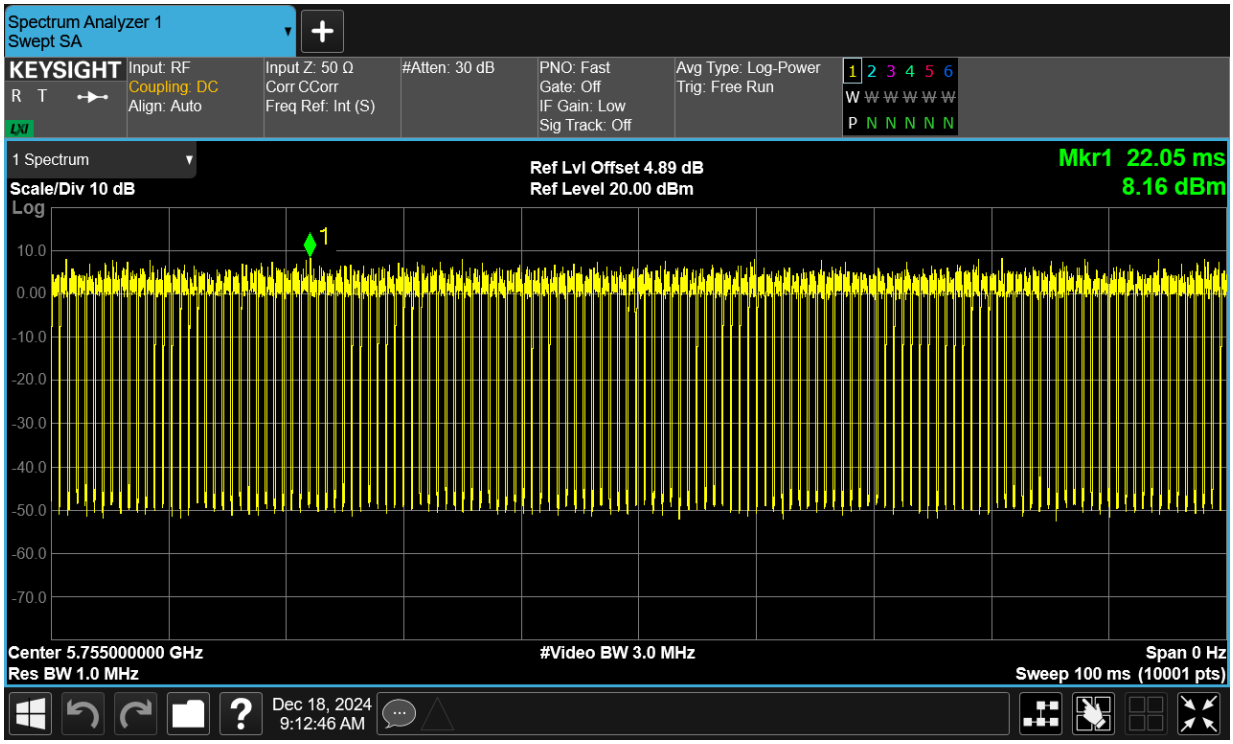
Duty Cycle NVNT ac20 5785MHz Ant13



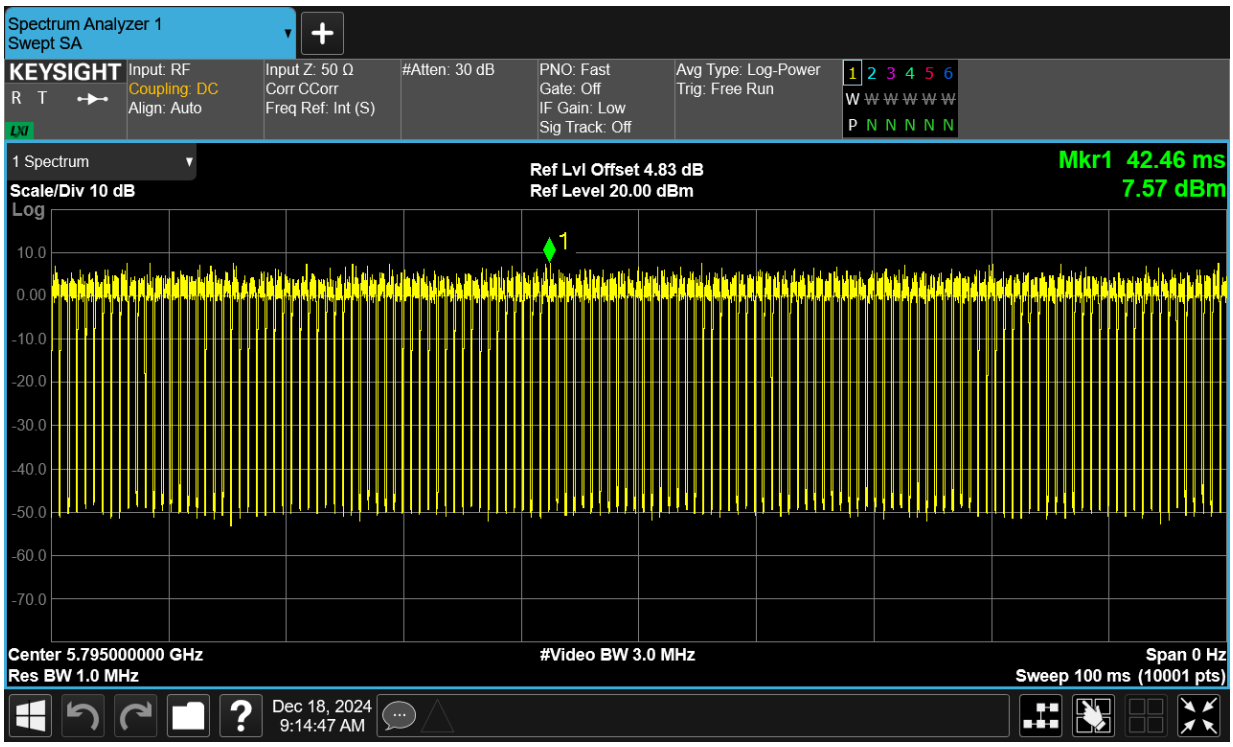
Duty Cycle NVNT ac20 5825MHz Ant13



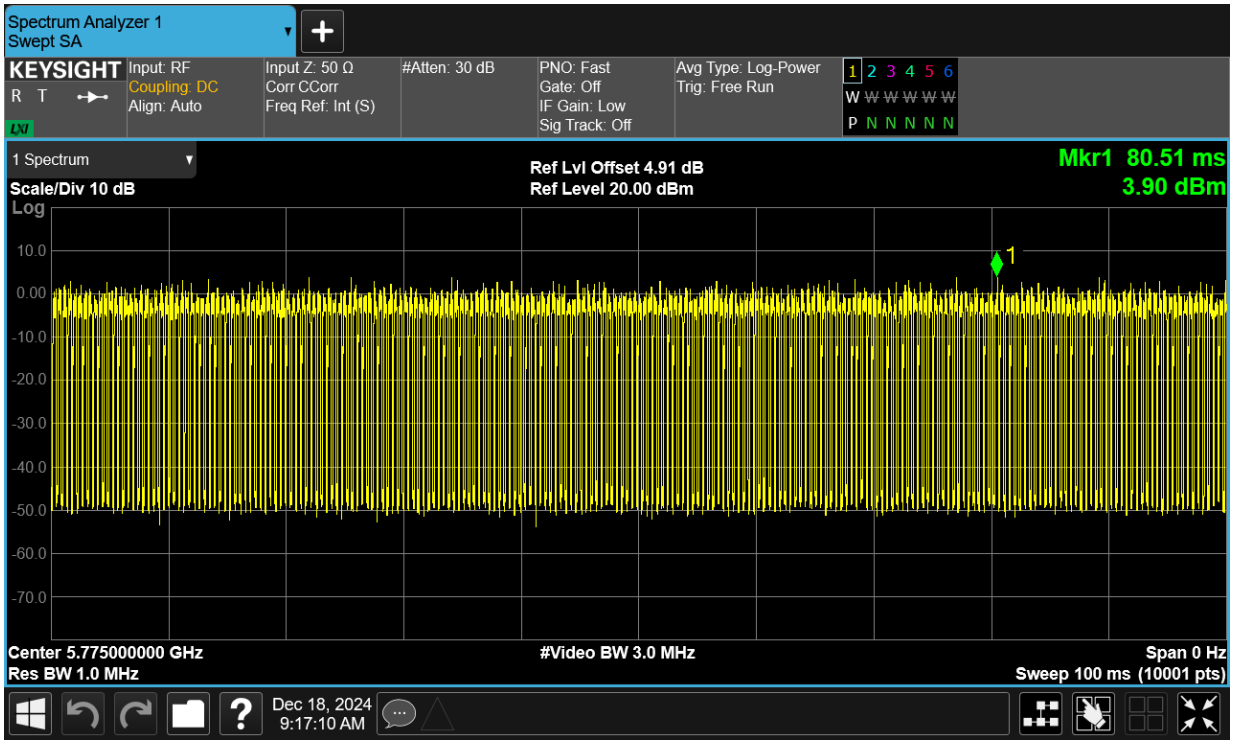
Duty Cycle NVNT ac40 5755MHz Ant13



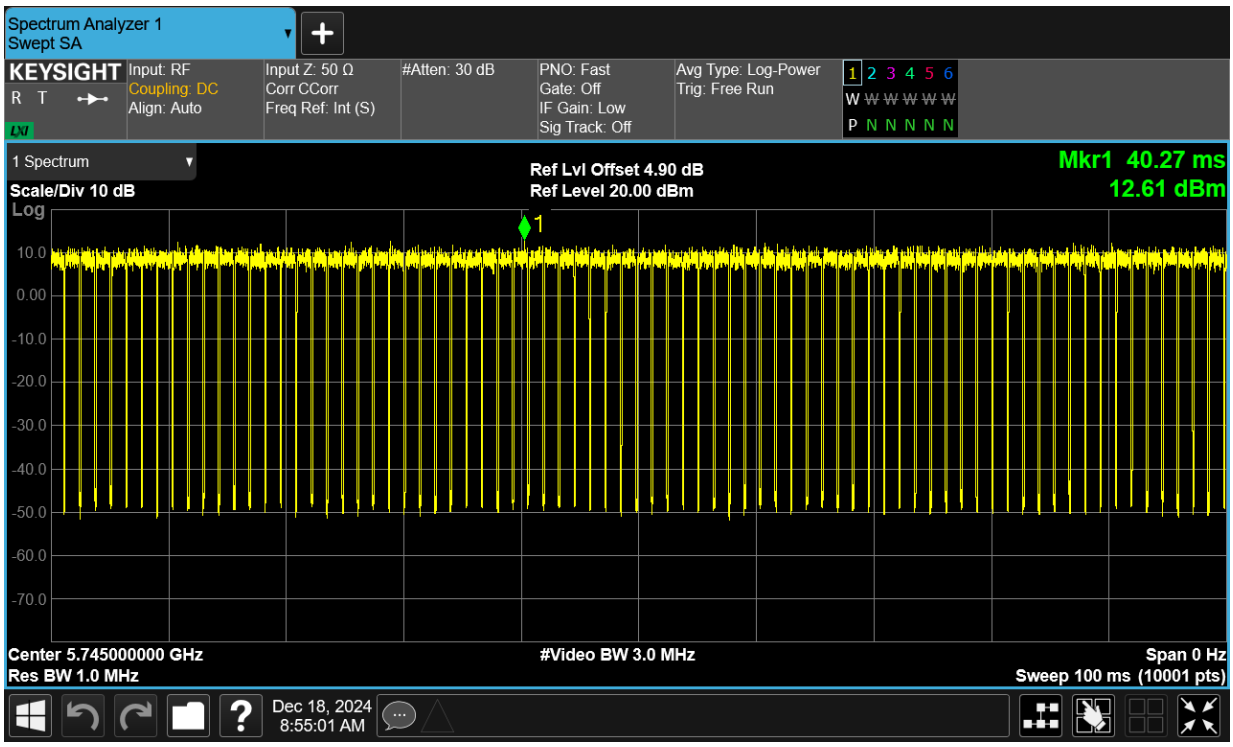
Duty Cycle NVNT ac40 5795MHz Ant13



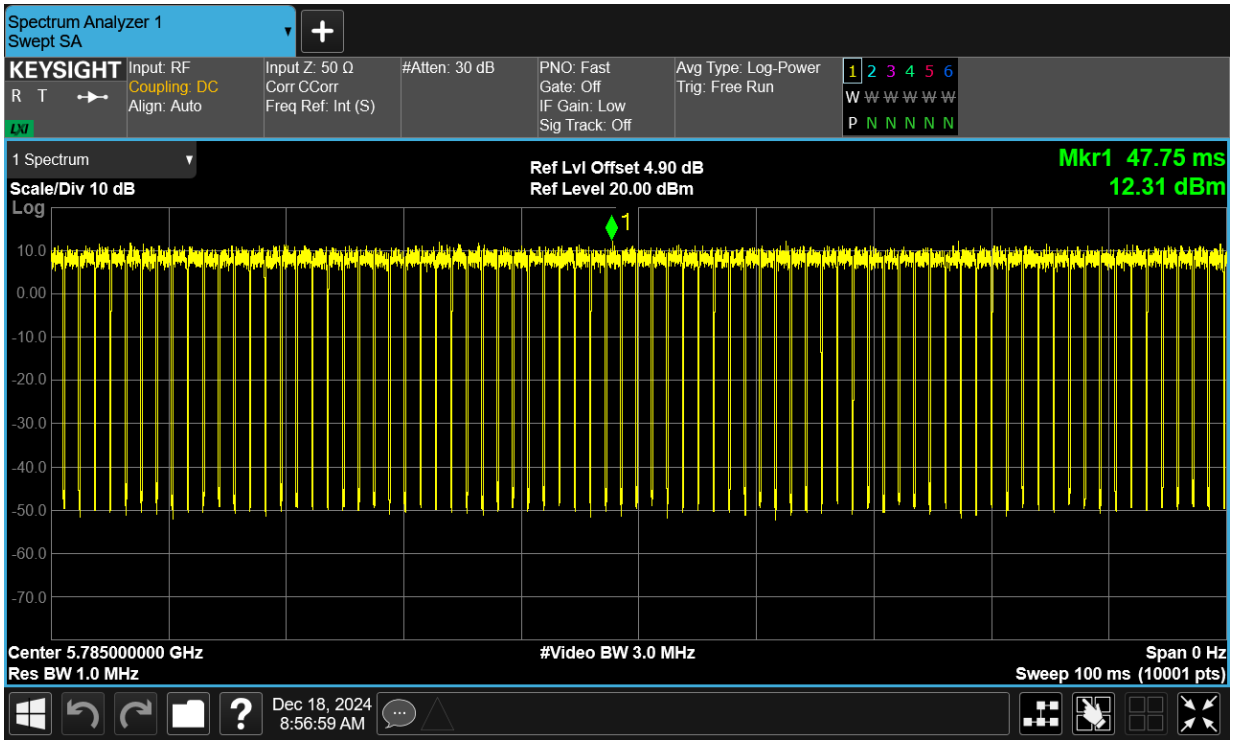
Duty Cycle NVNT ac80 5775MHz Ant13



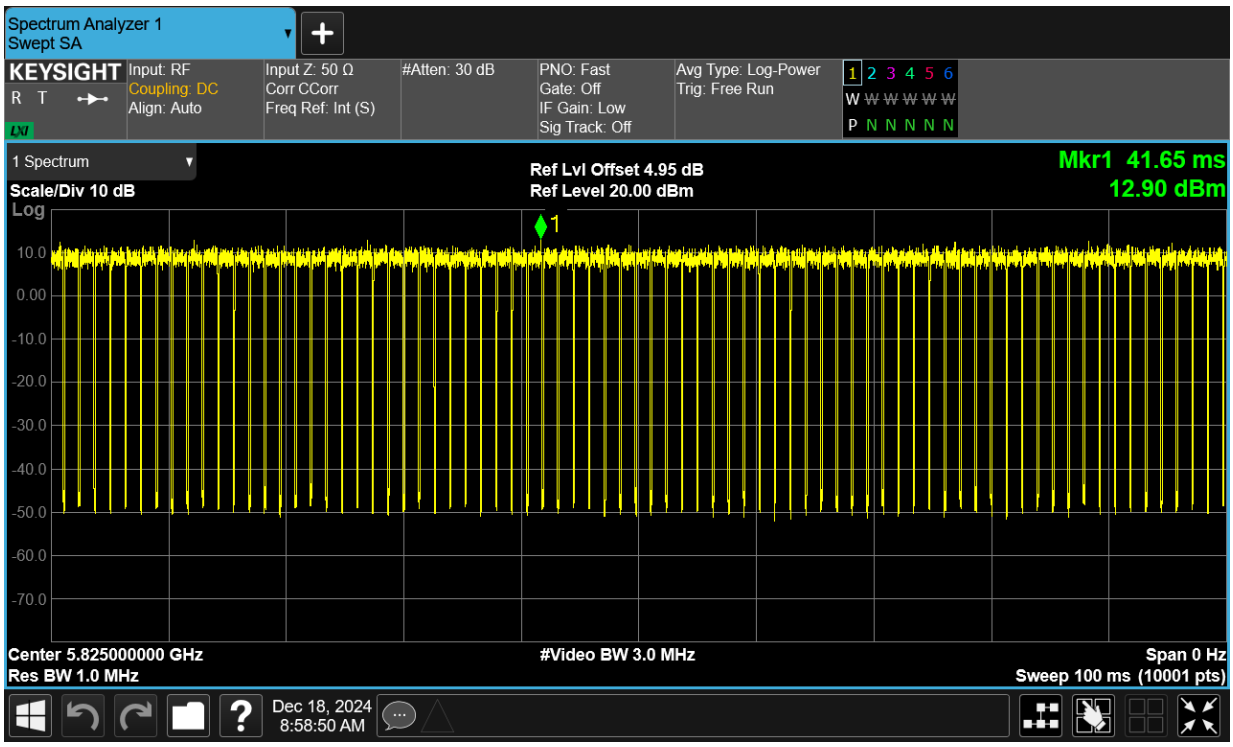
Duty Cycle NVNT n20 5745MHz Ant13



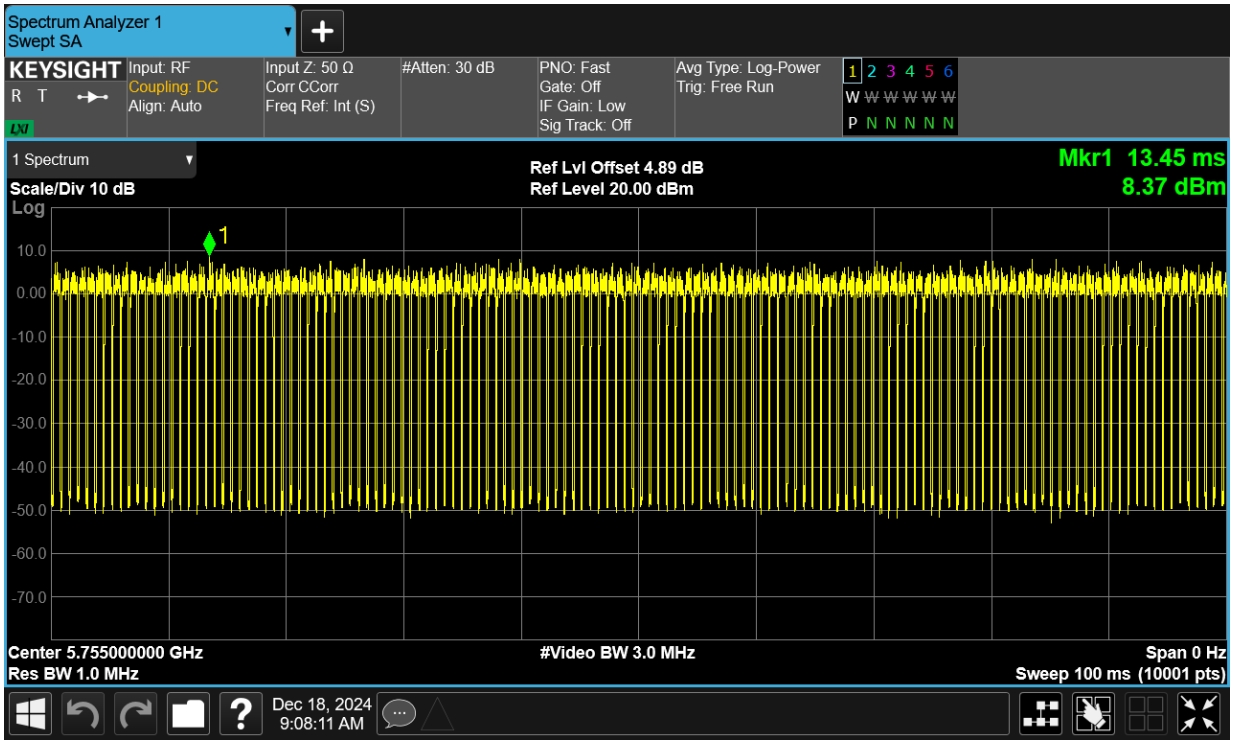
Duty Cycle NVNT n20 5785MHz Ant13



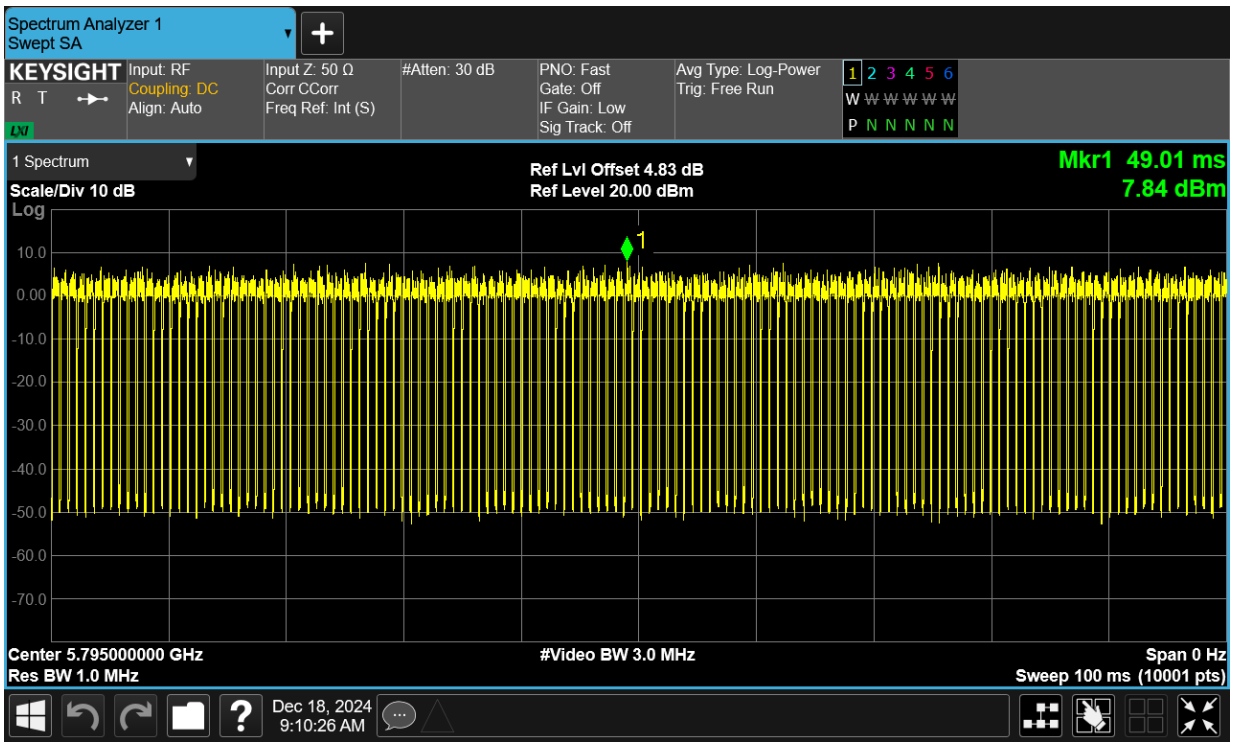
Duty Cycle NVNT n20 5825MHz Ant13



Duty Cycle NVNT n40 5755MHz Ant13



Duty Cycle NVNT n40 5795MHz Ant13



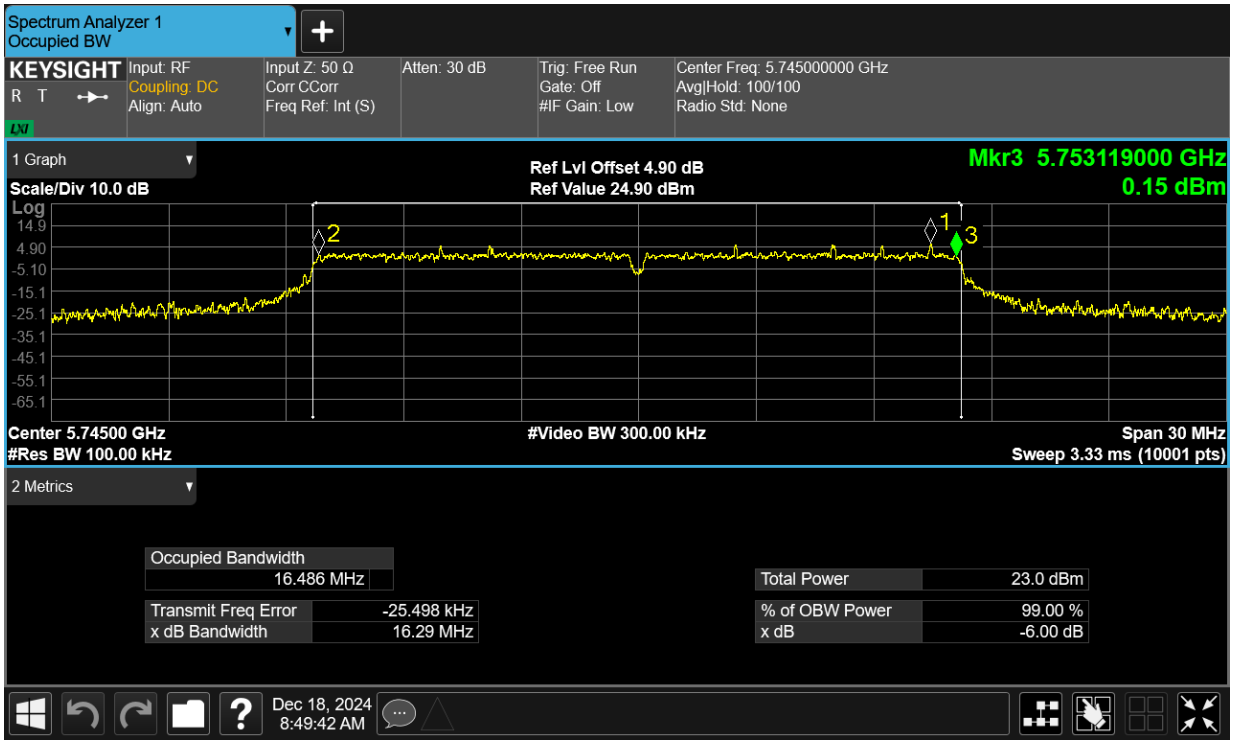
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant13	16.92	0.39	17.31	30	Pass
NVNT	a	5785	Ant13	17.12	0.39	17.51	30	Pass
NVNT	a	5825	Ant13	16.62	0.39	17.01	30	Pass
NVNT	ac20	5745	Ant13	16.1	0.46	16.56	30	Pass
NVNT	ac20	5785	Ant13	16.36	0.45	16.81	30	Pass
NVNT	ac20	5825	Ant13	15.71	0.12	15.83	30	Pass
NVNT	ac40	5755	Ant13	15.52	0.85	16.37	30	Pass
NVNT	ac40	5795	Ant13	15.31	0.84	16.15	30	Pass
NVNT	ac80	5775	Ant13	15.24	1.51	16.75	30	Pass
NVNT	n20	5745	Ant13	16.15	0.46	16.61	30	Pass
NVNT	n20	5785	Ant13	16.42	0.46	16.88	30	Pass
NVNT	n20	5825	Ant13	15.91	0.45	16.36	30	Pass
NVNT	n40	5755	Ant13	15.44	0.85	16.29	30	Pass
NVNT	n40	5795	Ant13	15.32	0.84	16.16	30	Pass

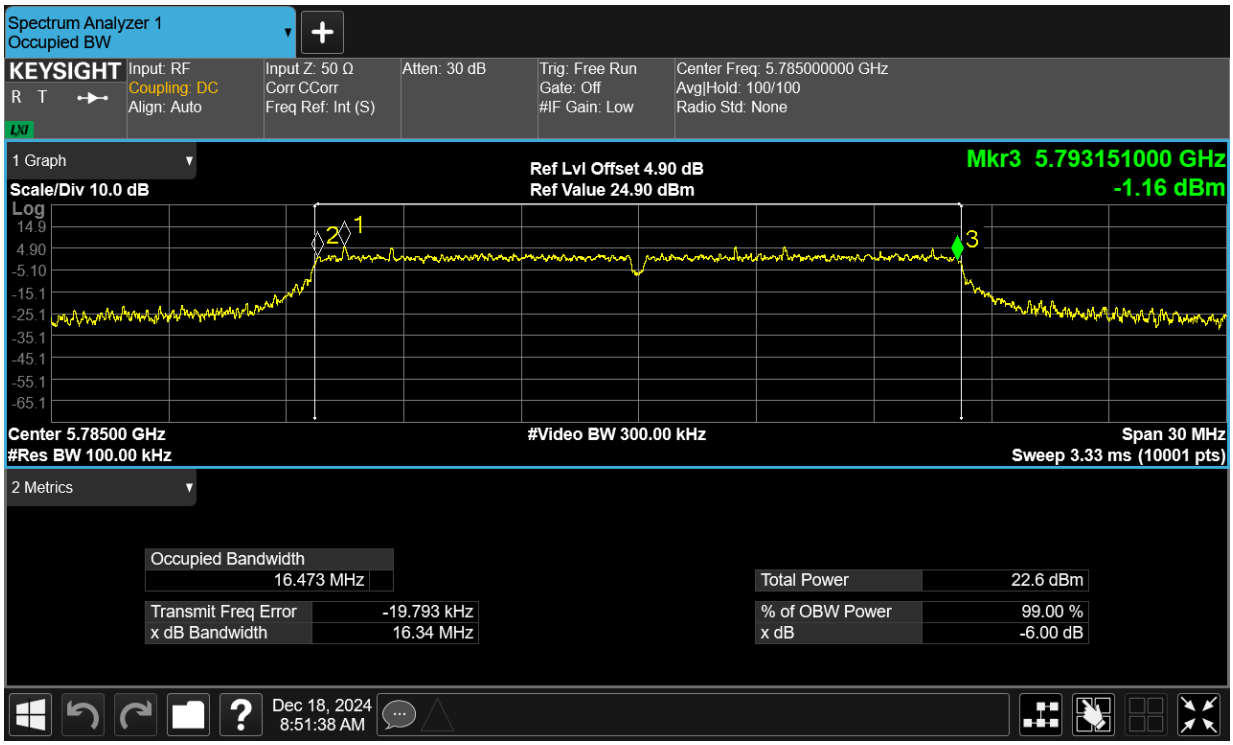
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	a	5745	Ant13	16.289	0.5	Pass
NVNT	a	5785	Ant13	16.341	0.5	Pass
NVNT	a	5825	Ant13	16.354	0.5	Pass
NVNT	ac20	5745	Ant13	17.261	0.5	Pass
NVNT	ac20	5785	Ant13	17.12	0.5	Pass
NVNT	ac20	5825	Ant13	16.933	0.5	Pass
NVNT	ac40	5755	Ant13	35.155	0.5	Pass
NVNT	ac40	5795	Ant13	35.912	0.5	Pass
NVNT	ac80	5775	Ant13	75.123	0.5	Pass
NVNT	n20	5745	Ant13	17.372	0.5	Pass
NVNT	n20	5785	Ant13	17.103	0.5	Pass
NVNT	n20	5825	Ant13	17.233	0.5	Pass
NVNT	n40	5755	Ant13	35.092	0.5	Pass
NVNT	n40	5795	Ant13	35.261	0.5	Pass

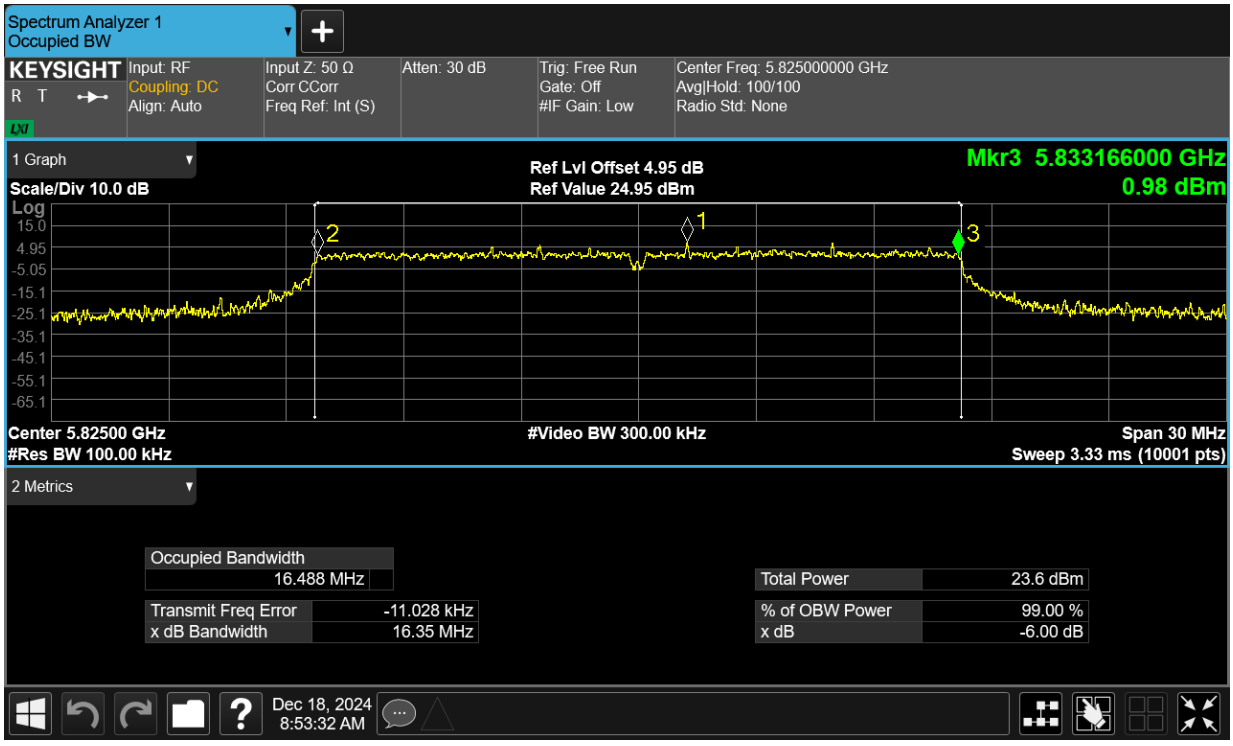
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant13



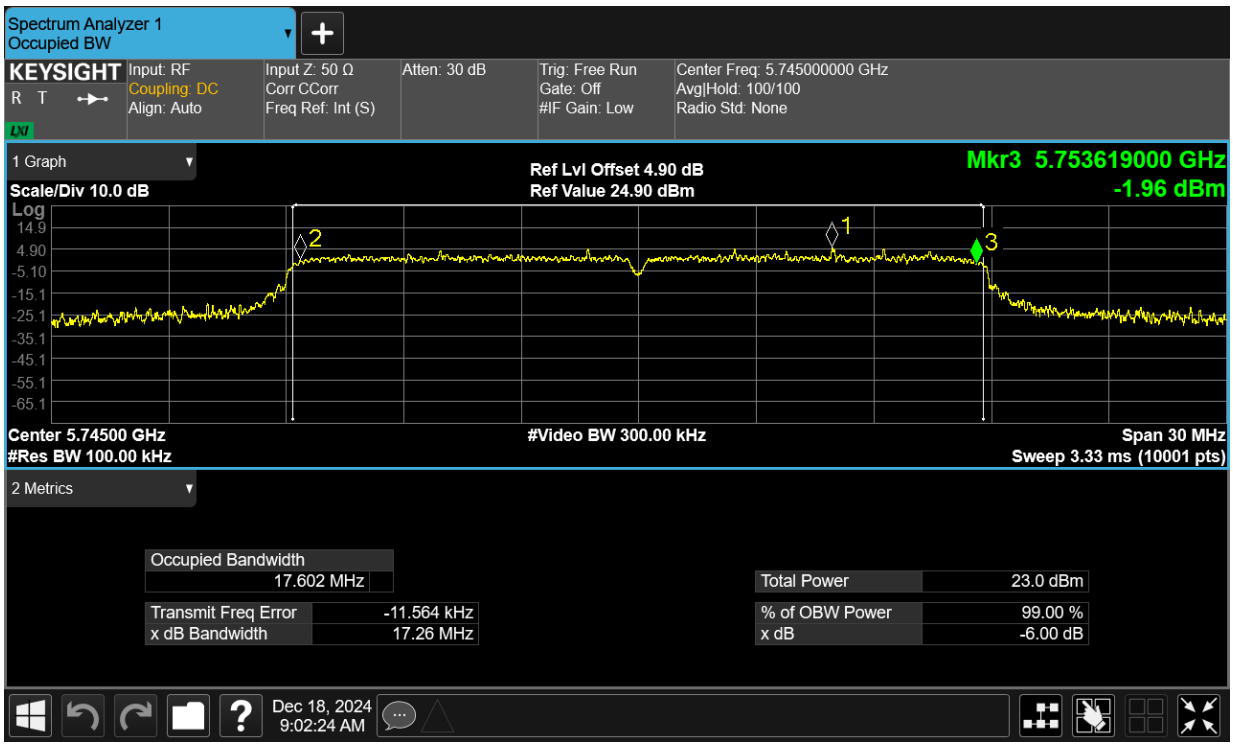
-6dB Bandwidth NVNT a 5785MHz Ant13



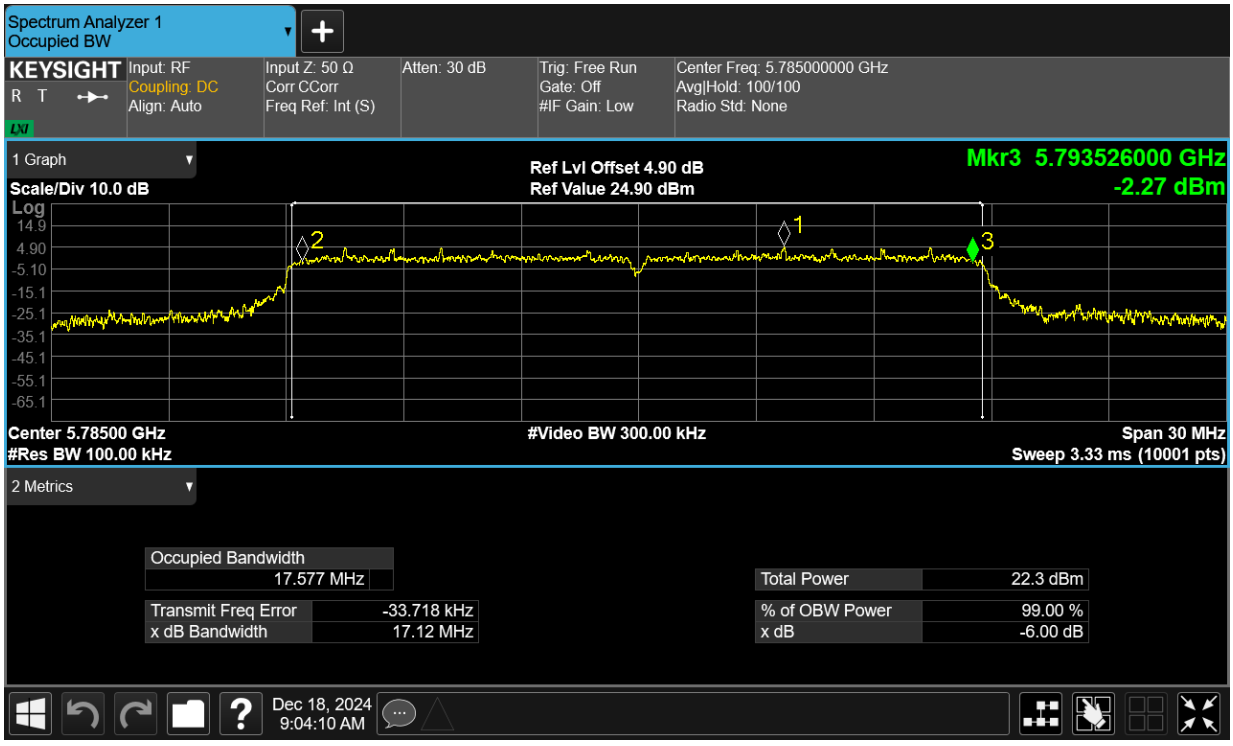
-6dB Bandwidth NVNT a 5825MHz Ant13



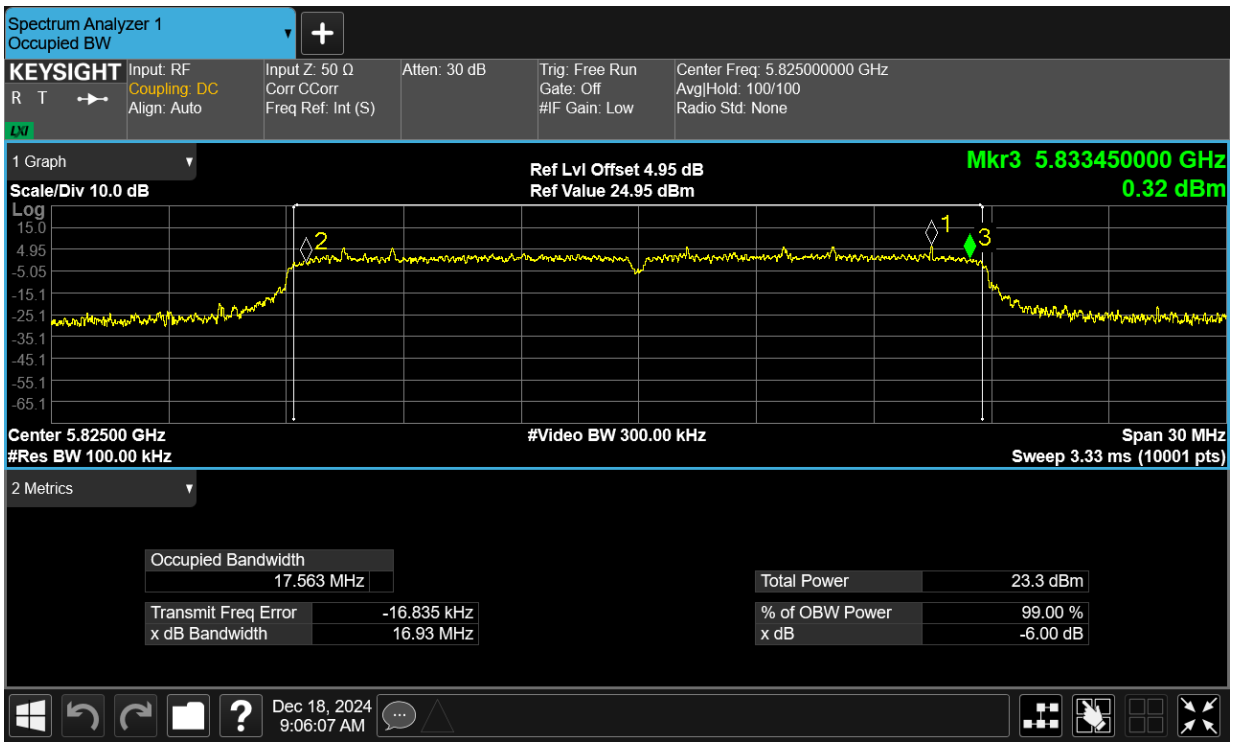
-6dB Bandwidth NVNT ac20 5745MHz Ant13



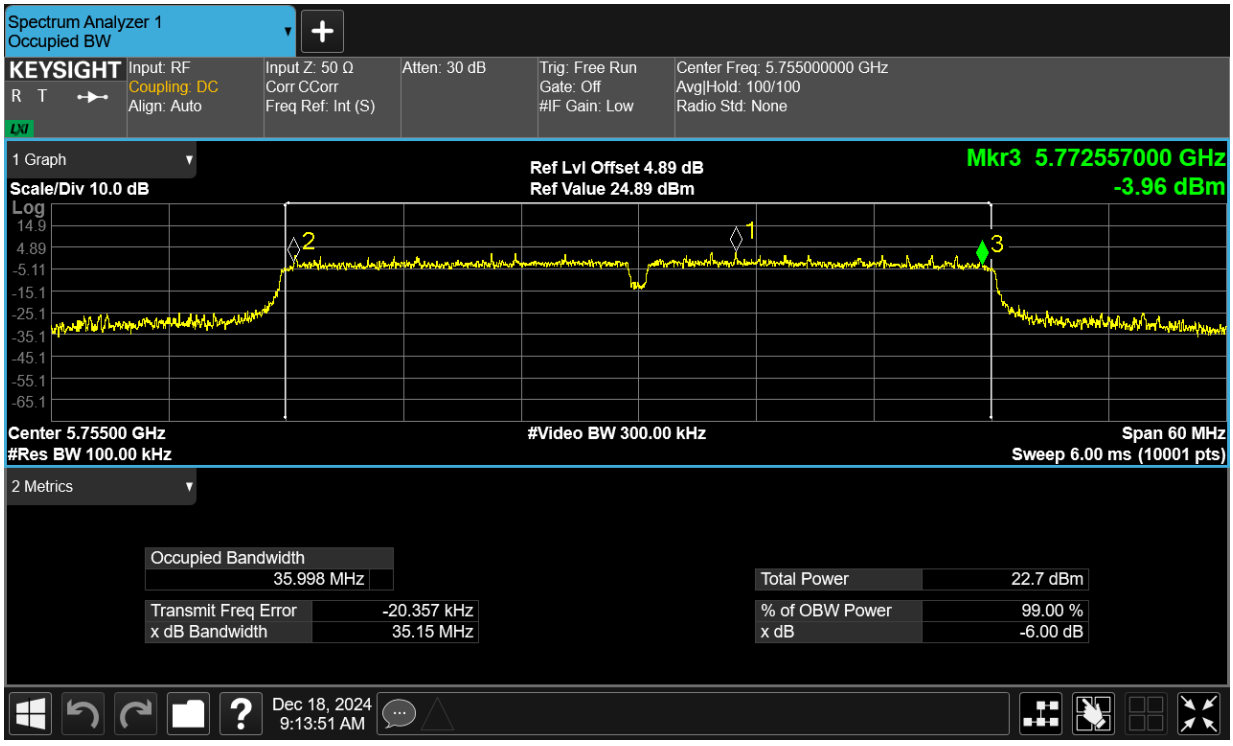
-6dB Bandwidth NVNT ac20 5785MHz Ant13



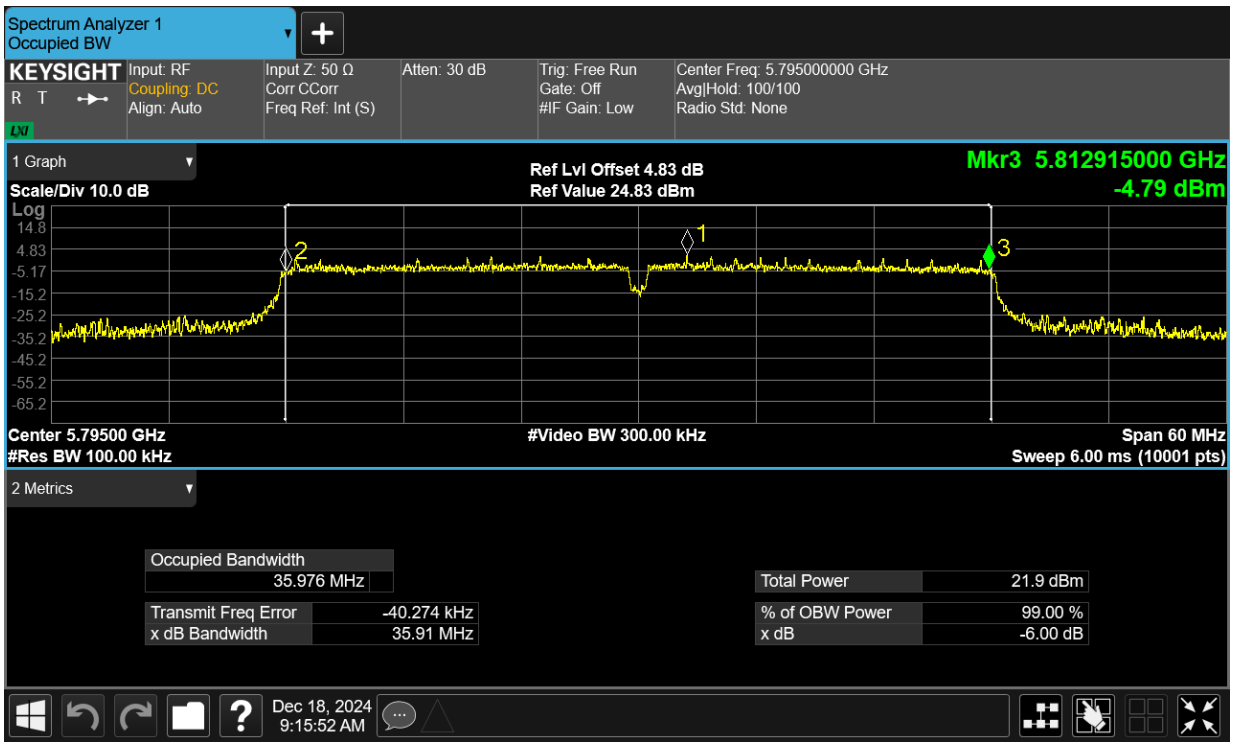
-6dB Bandwidth NVNT ac20 5825MHz Ant13



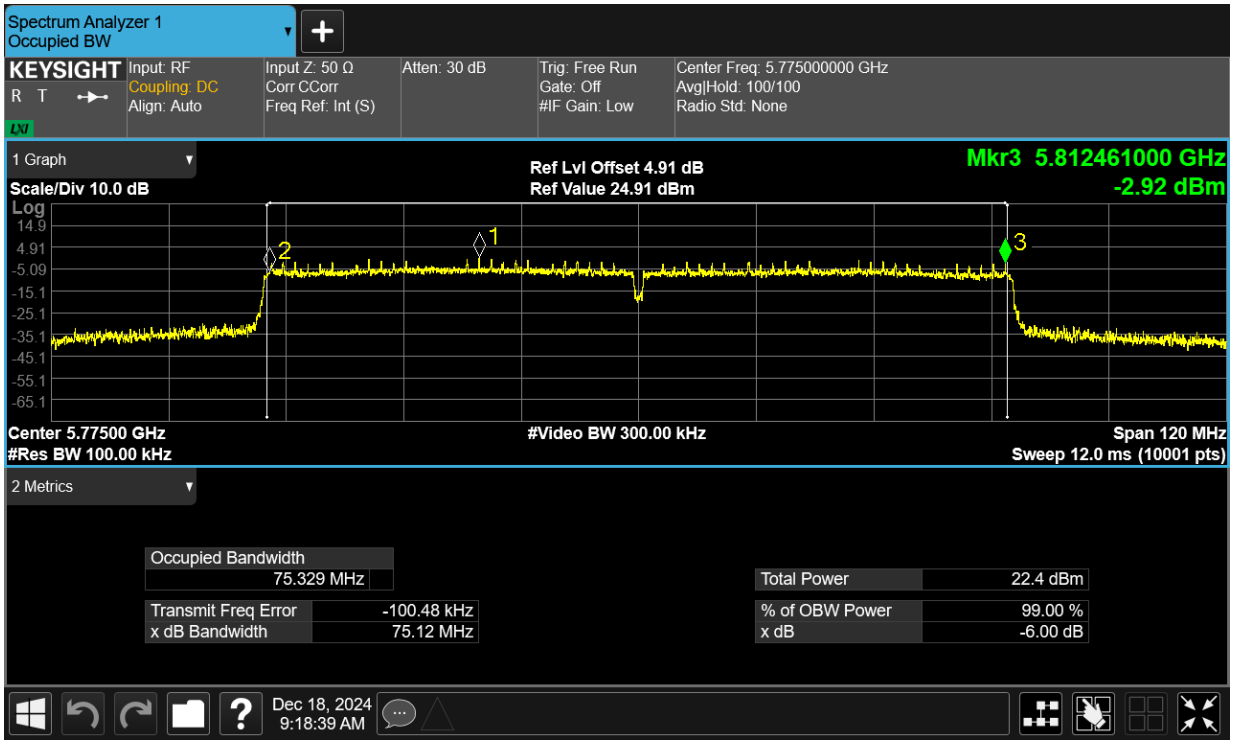
-6dB Bandwidth NVNT ac40 5755MHz Ant13



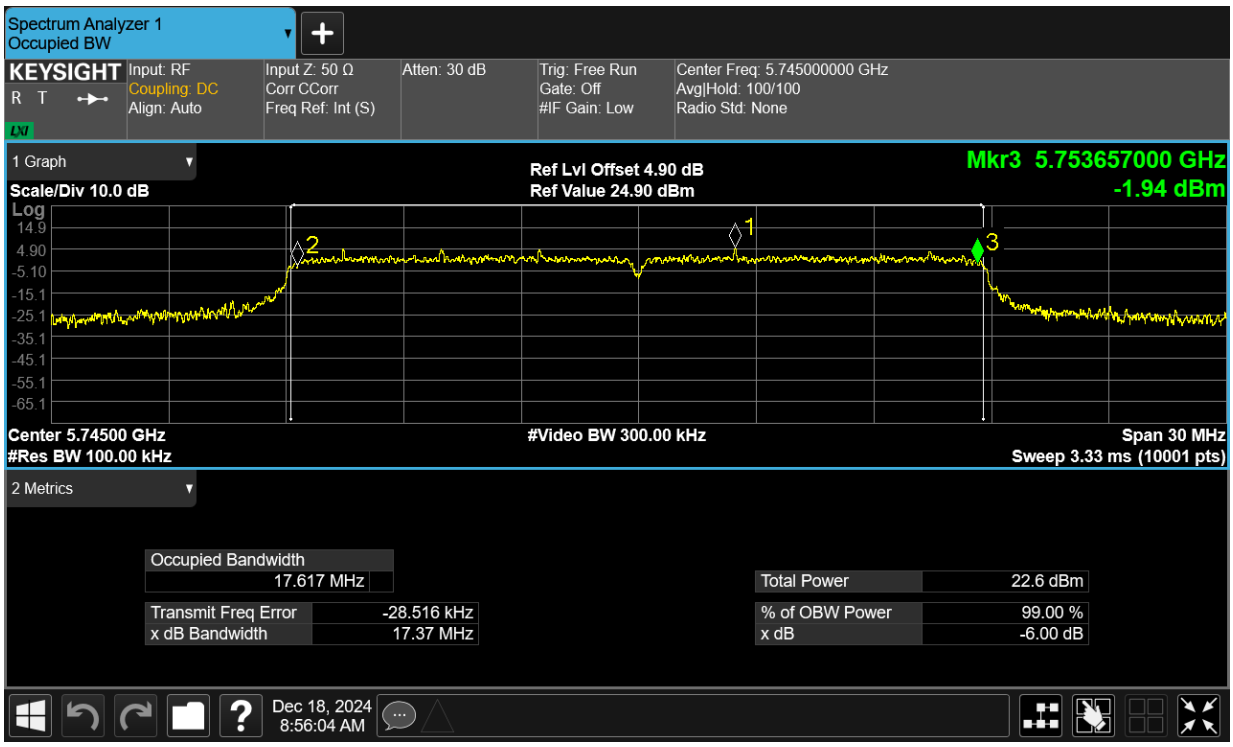
-6dB Bandwidth NVNT ac40 5795MHz Ant13



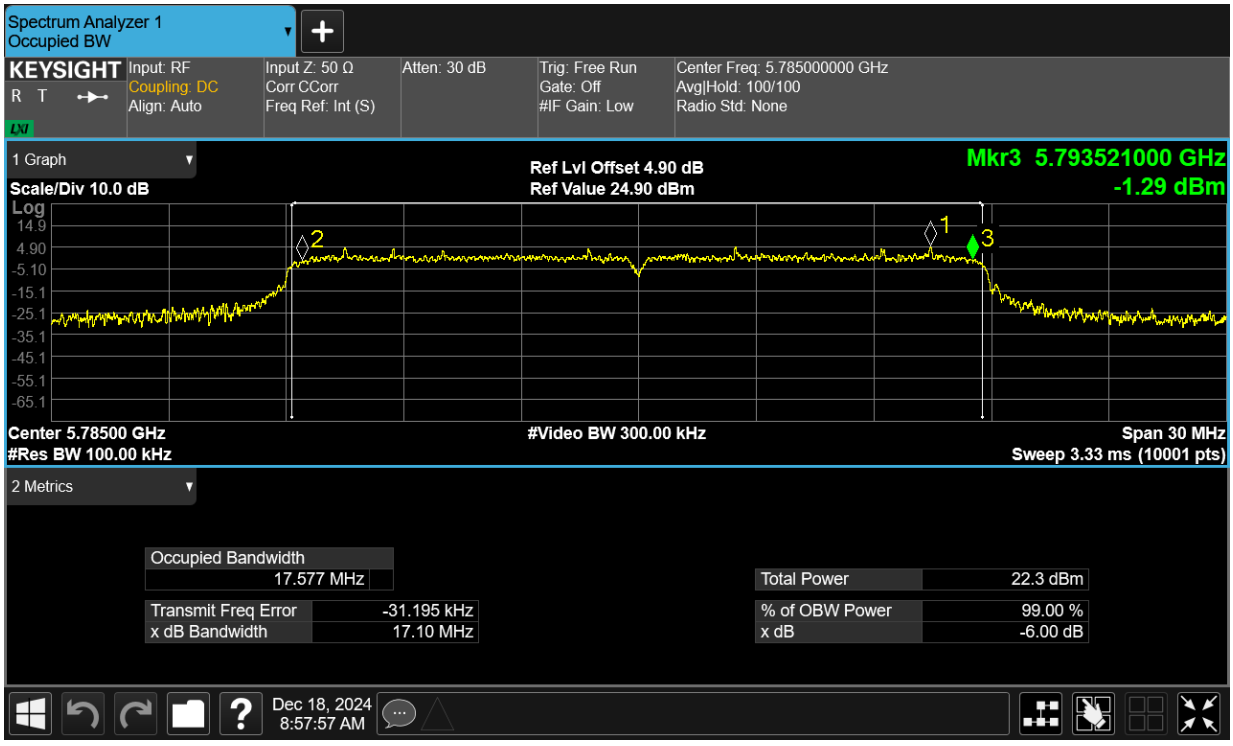
-6dB Bandwidth NVNT ac80 5775MHz Ant13



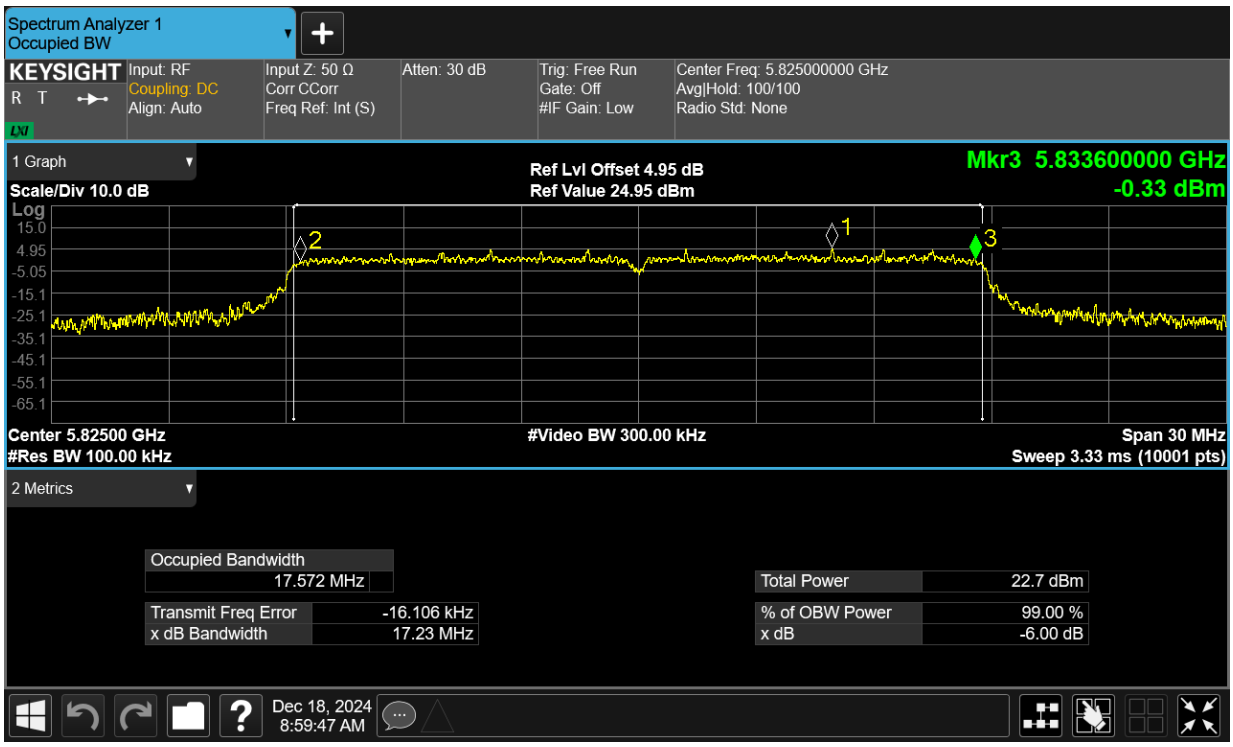
-6dB Bandwidth NVNT n20 5745MHz Ant13



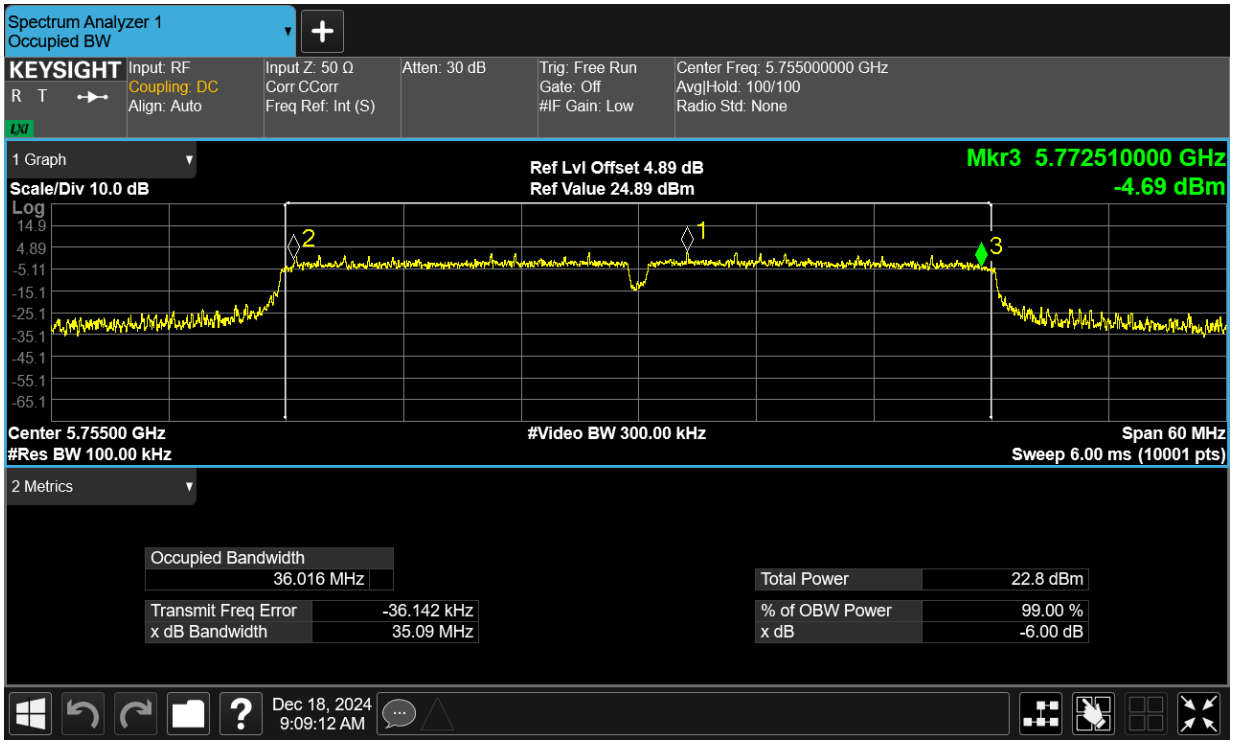
-6dB Bandwidth NVNT n20 5785MHz Ant13



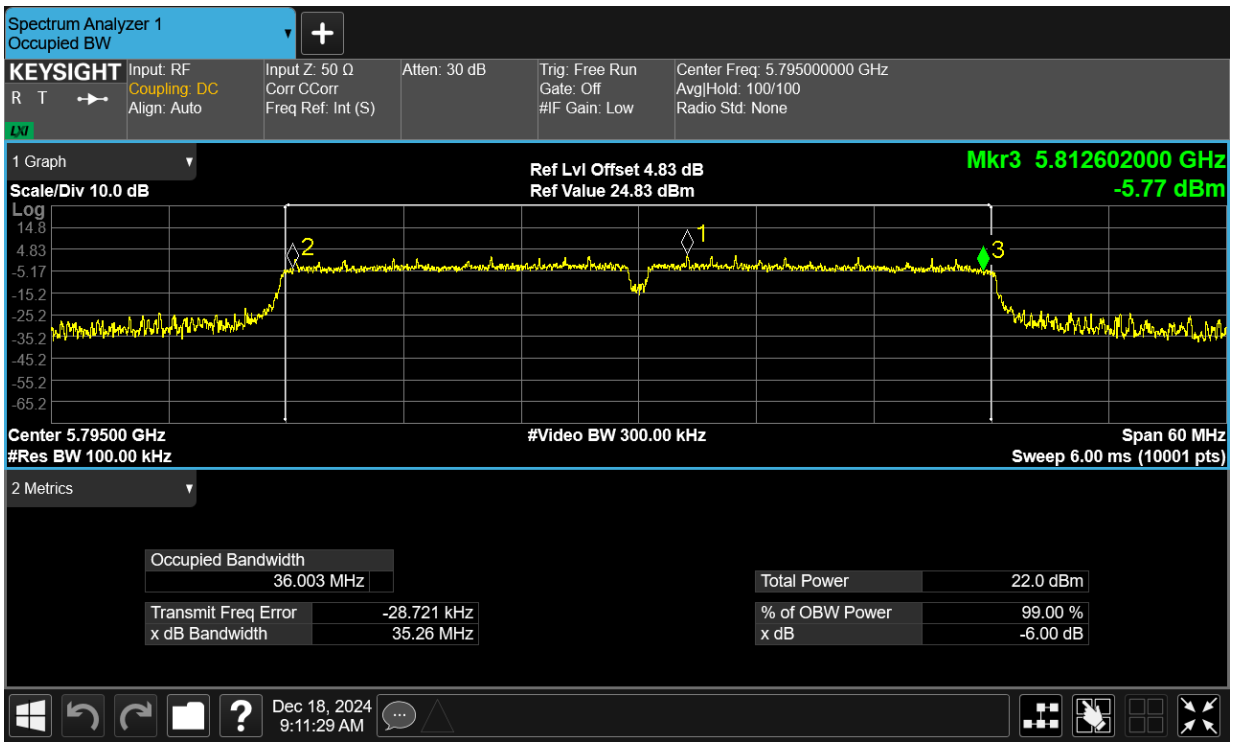
-6dB Bandwidth NVNT n20 5825MHz Ant13



-6dB Bandwidth NVNT n40 5755MHz Ant13



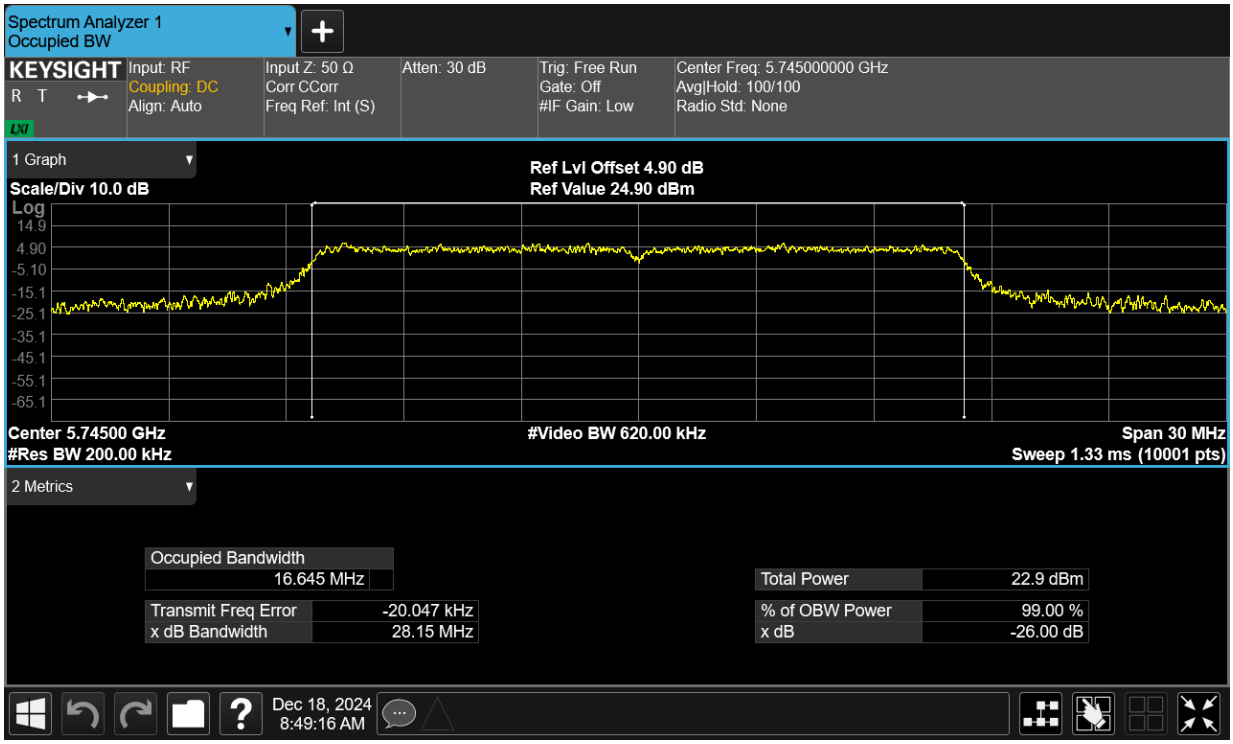
-6dB Bandwidth NVNT n40 5795MHz Ant13



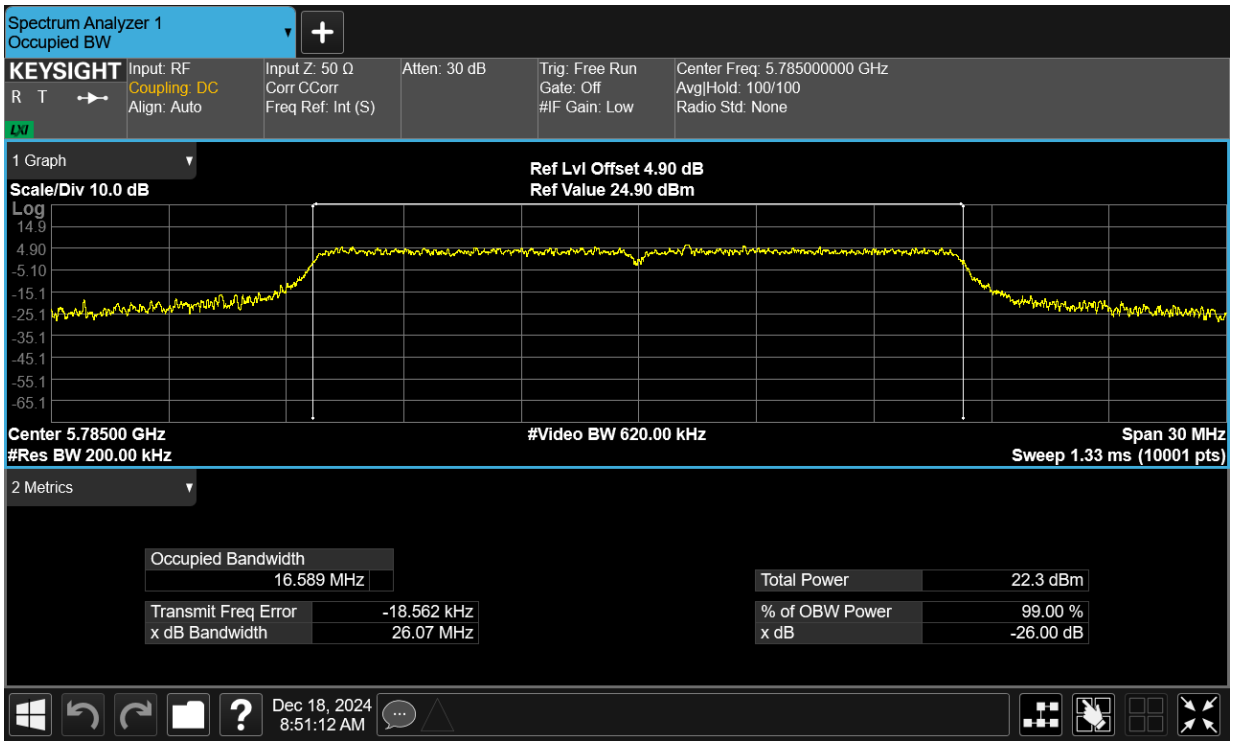
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant13	16.645
NVNT	a	5785	Ant13	16.589
NVNT	a	5825	Ant13	16.608
NVNT	ac20	5745	Ant13	17.659
NVNT	ac20	5785	Ant13	17.651
NVNT	ac20	5825	Ant13	17.626
NVNT	ac40	5755	Ant13	36.159
NVNT	ac40	5795	Ant13	36.121
NVNT	ac80	5775	Ant13	75.505
NVNT	n20	5745	Ant13	17.657
NVNT	n20	5785	Ant13	17.651
NVNT	n20	5825	Ant13	17.616
NVNT	n40	5755	Ant13	36.07
NVNT	n40	5795	Ant13	36.126

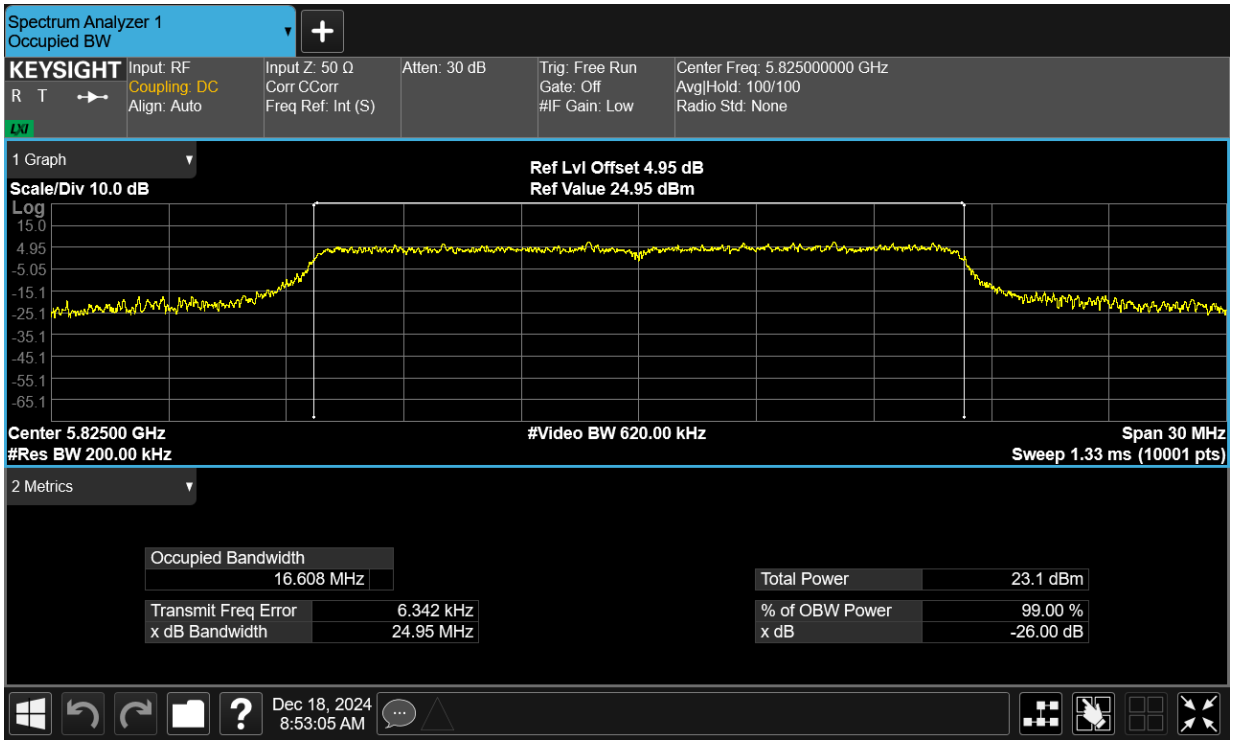
Test Graphs
OBW NVNT a 5745MHz Ant13



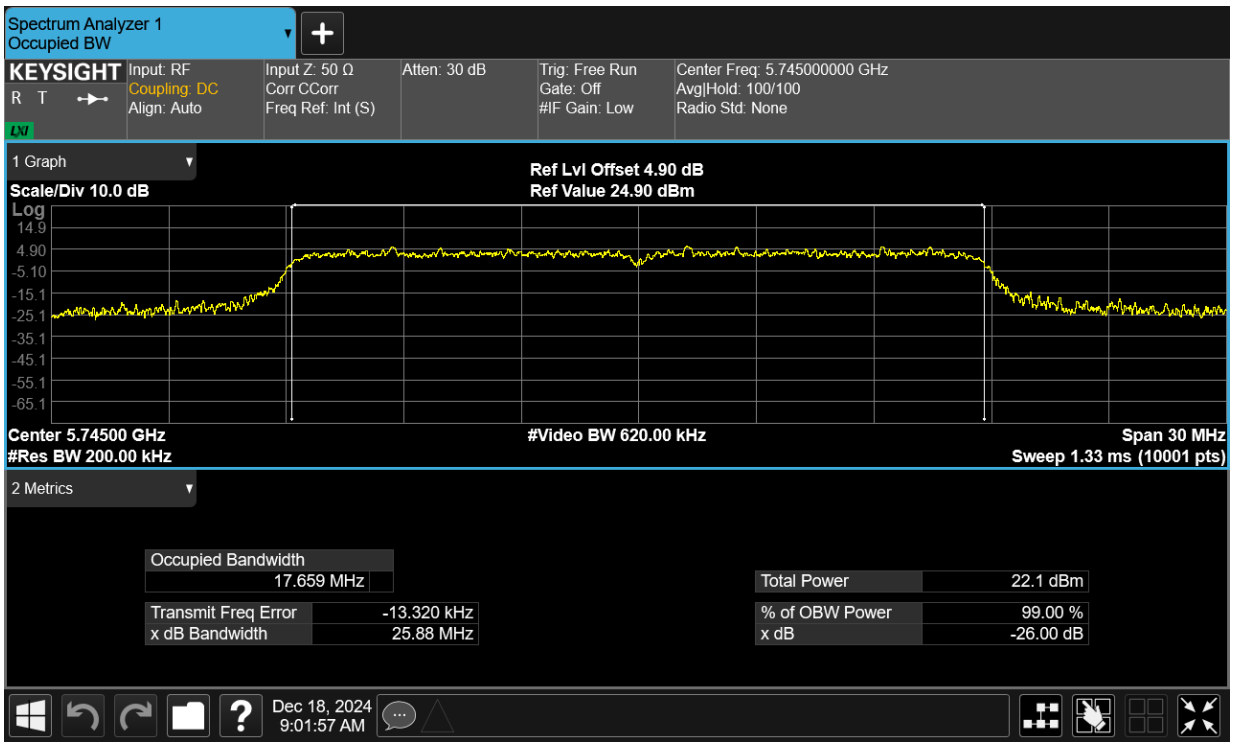
OBW NVNT a 5785MHz Ant13



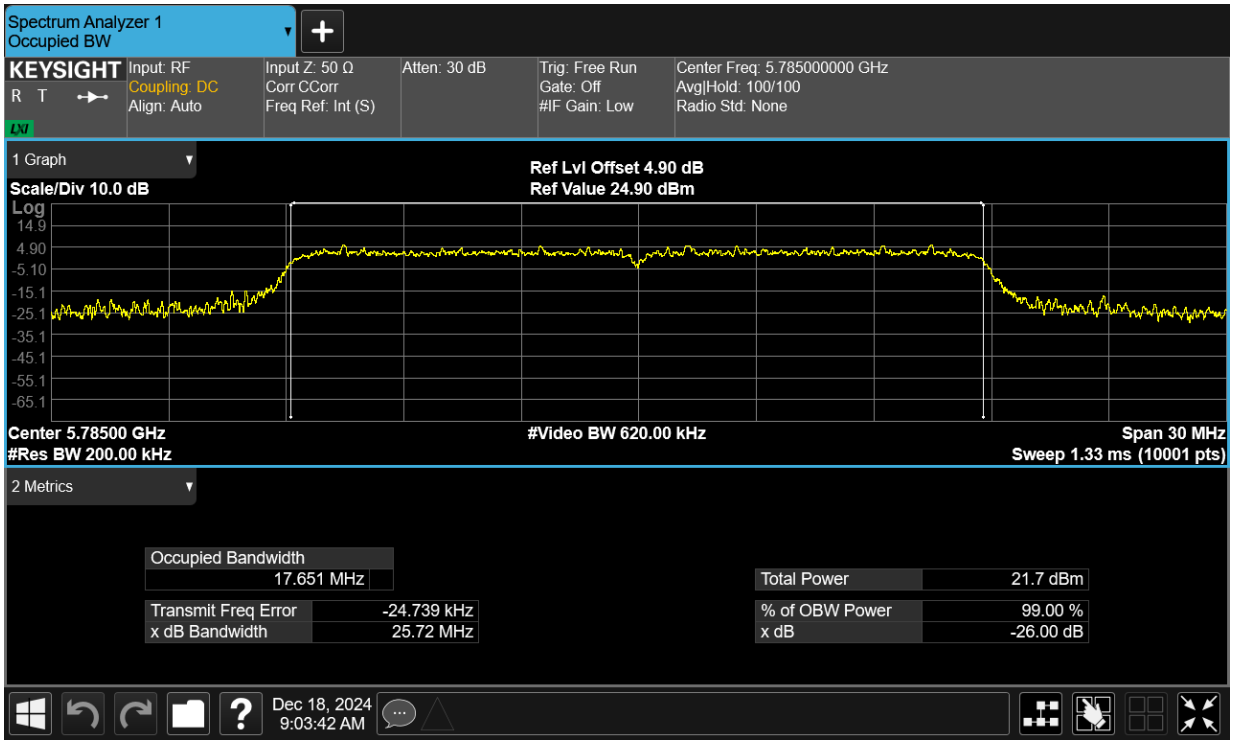
OBW NVNT a 5825MHz Ant13



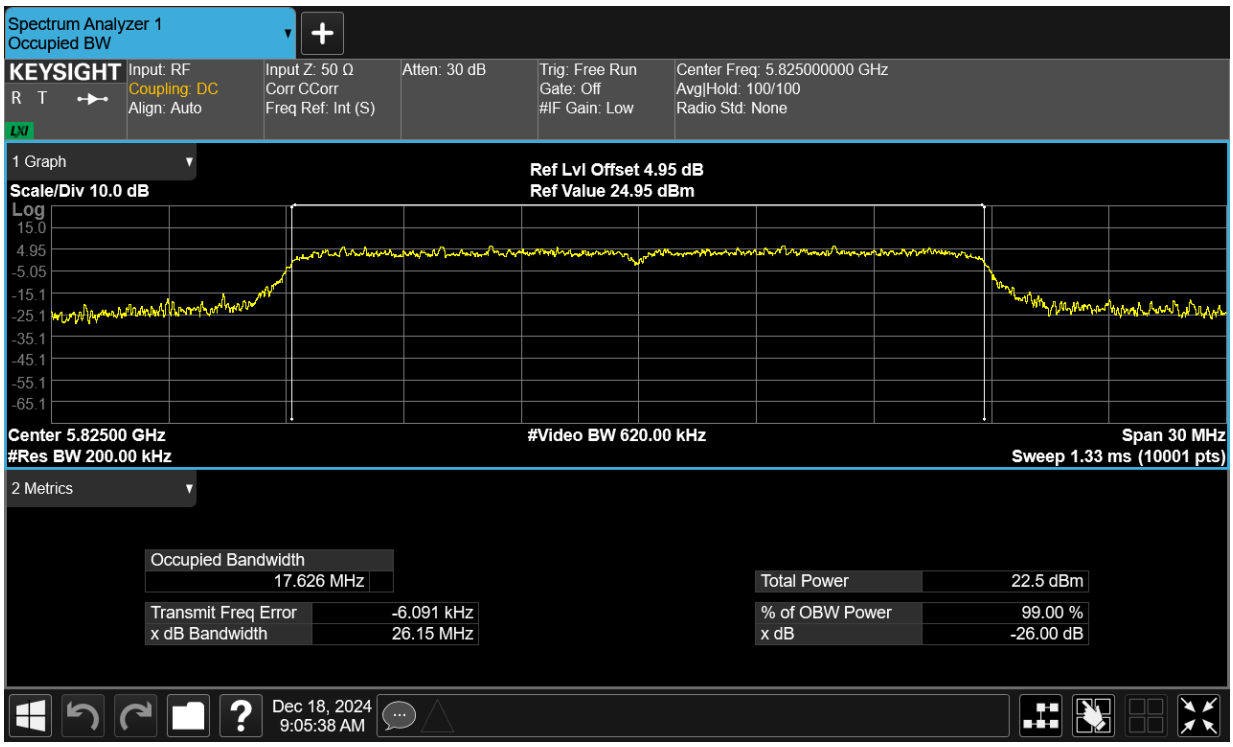
OBW NVNT ac20 5745MHz Ant13



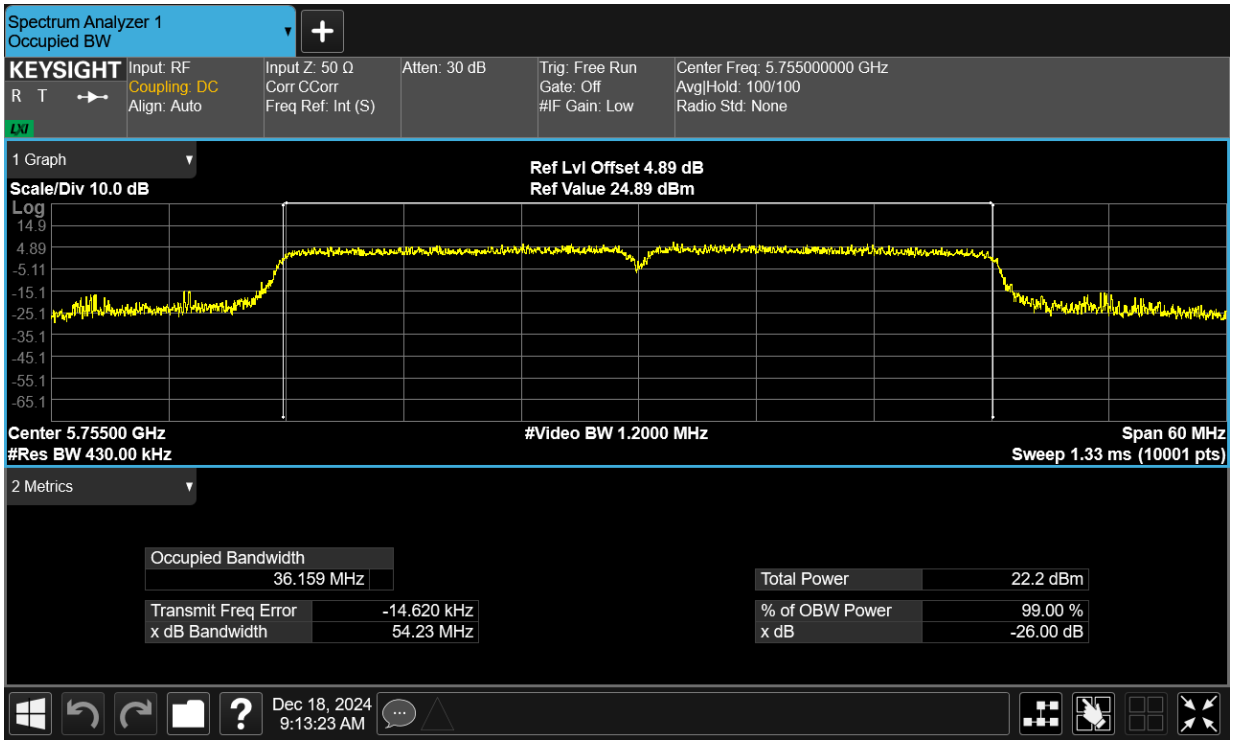
OBW NVNT ac20 5785MHz Ant13



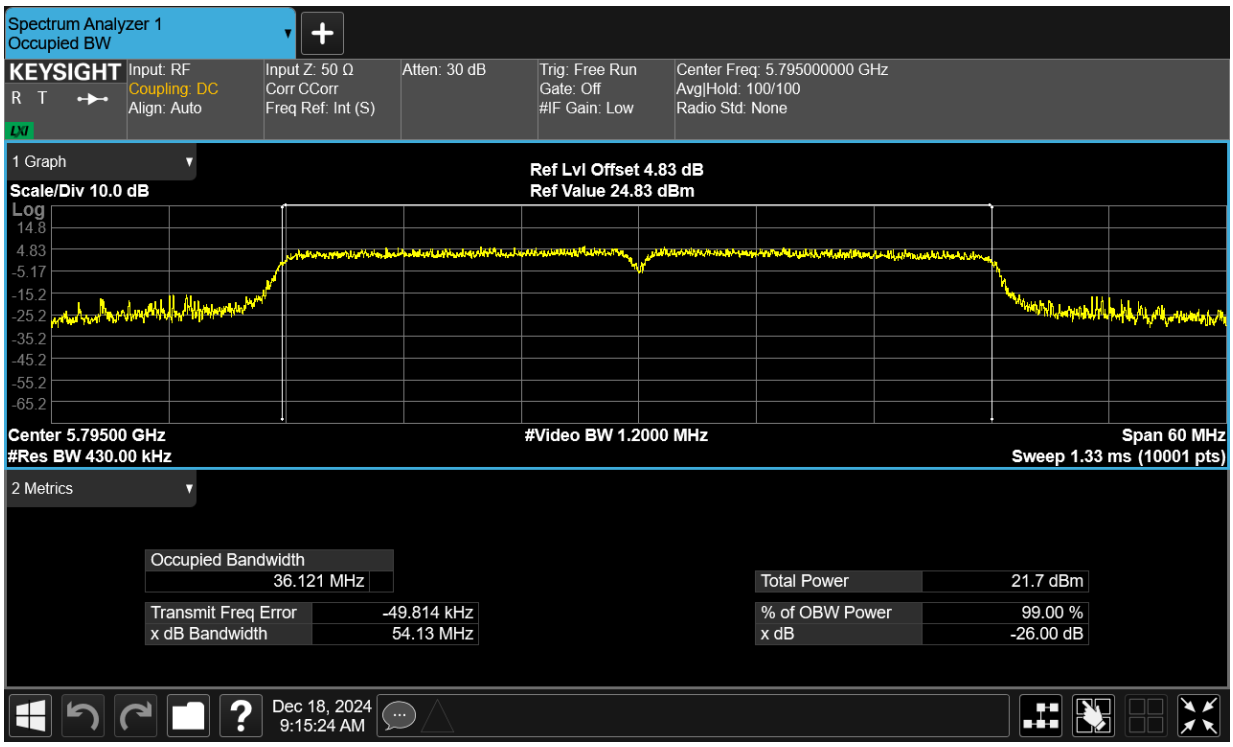
OBW NVNT ac20 5825MHz Ant13



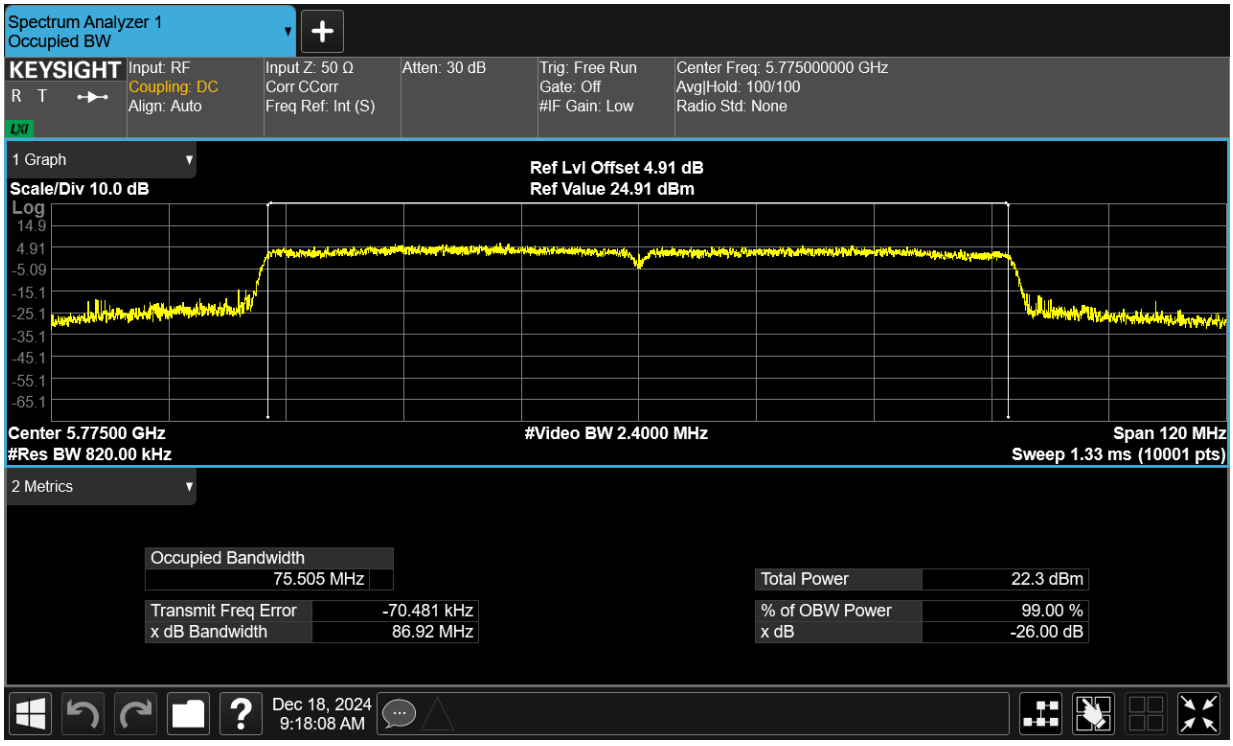
OBW NVNT ac40 5755MHz Ant13



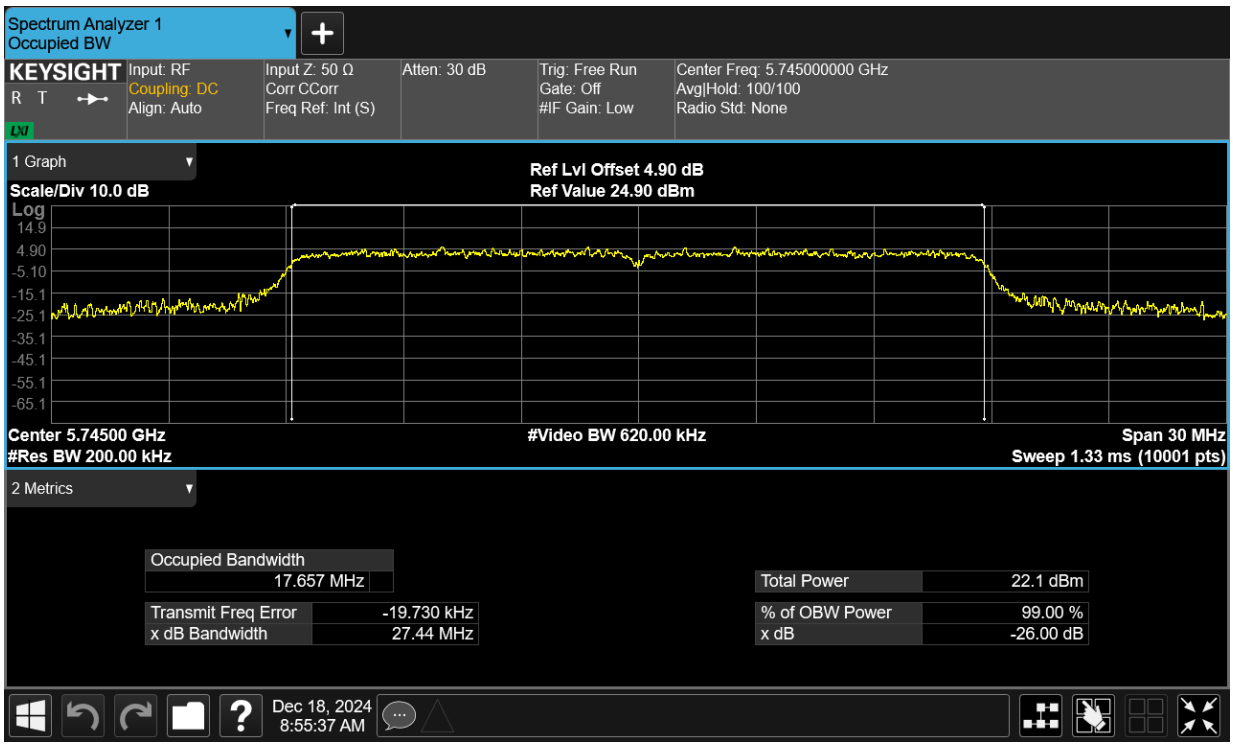
OBW NVNT ac40 5795MHz Ant13



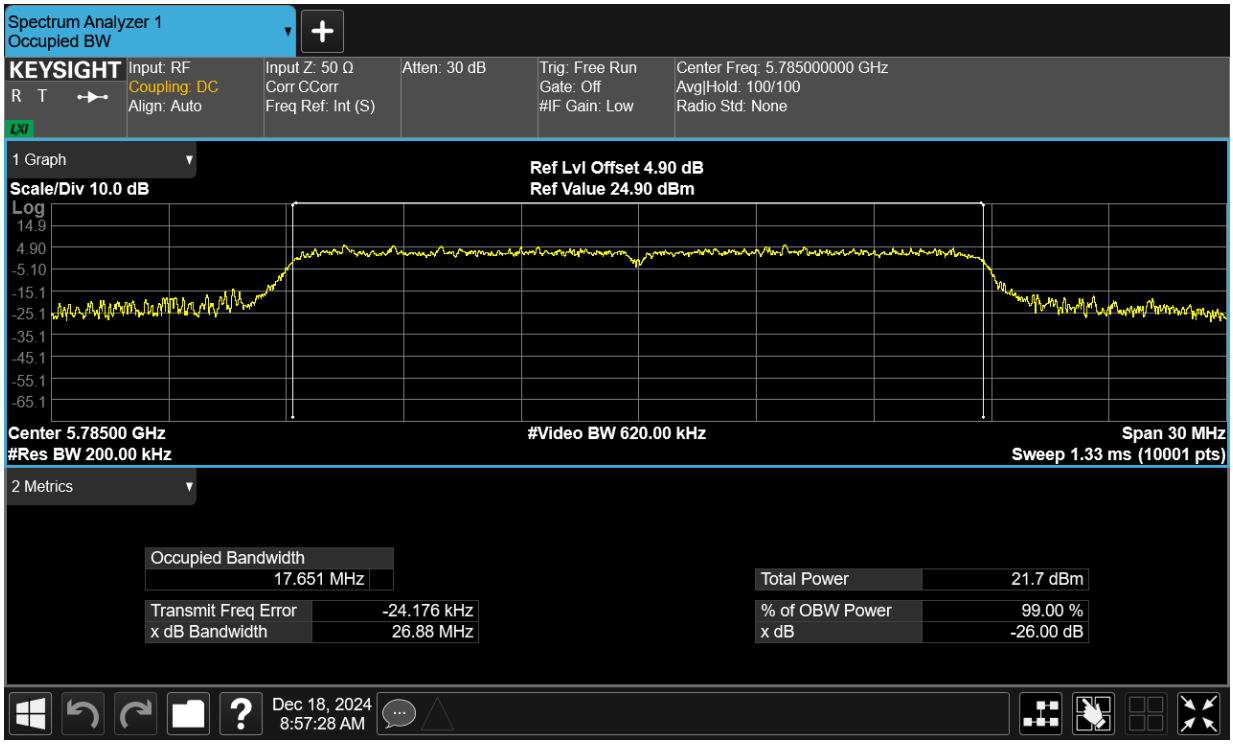
OBW NVNT ac80 5775MHz Ant13



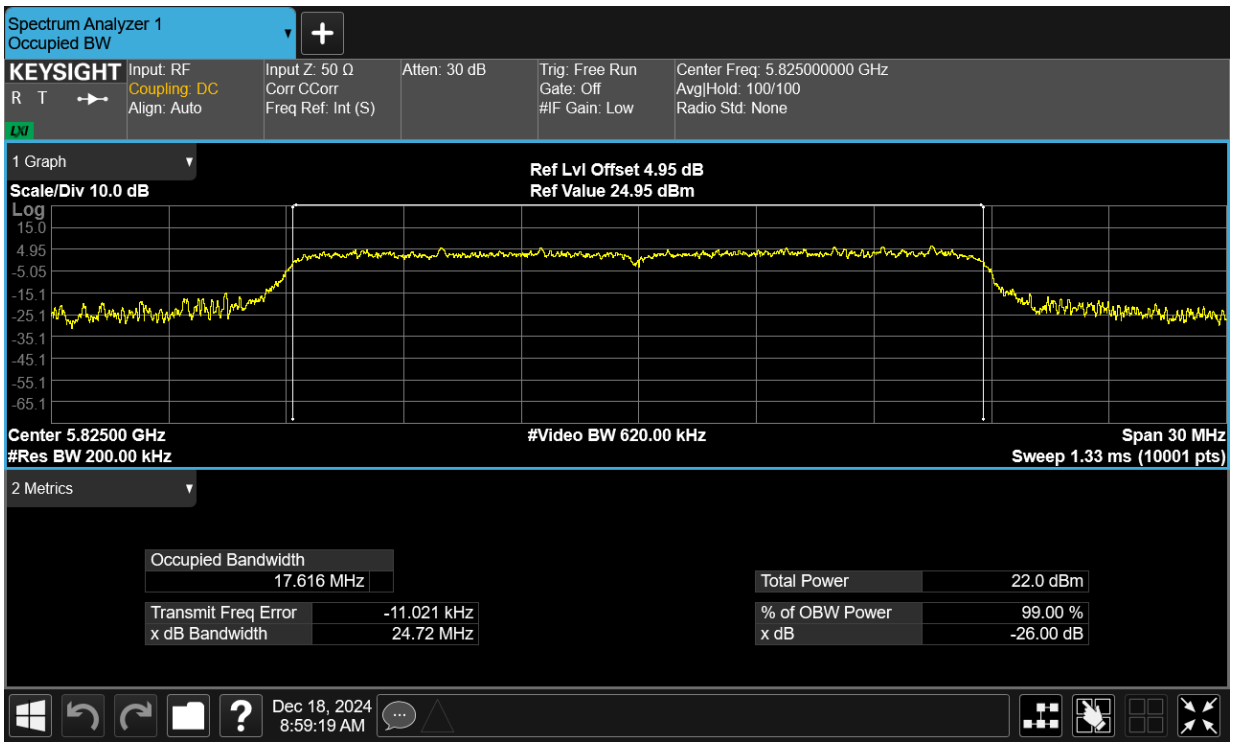
OBW NVNT n20 5745MHz Ant13



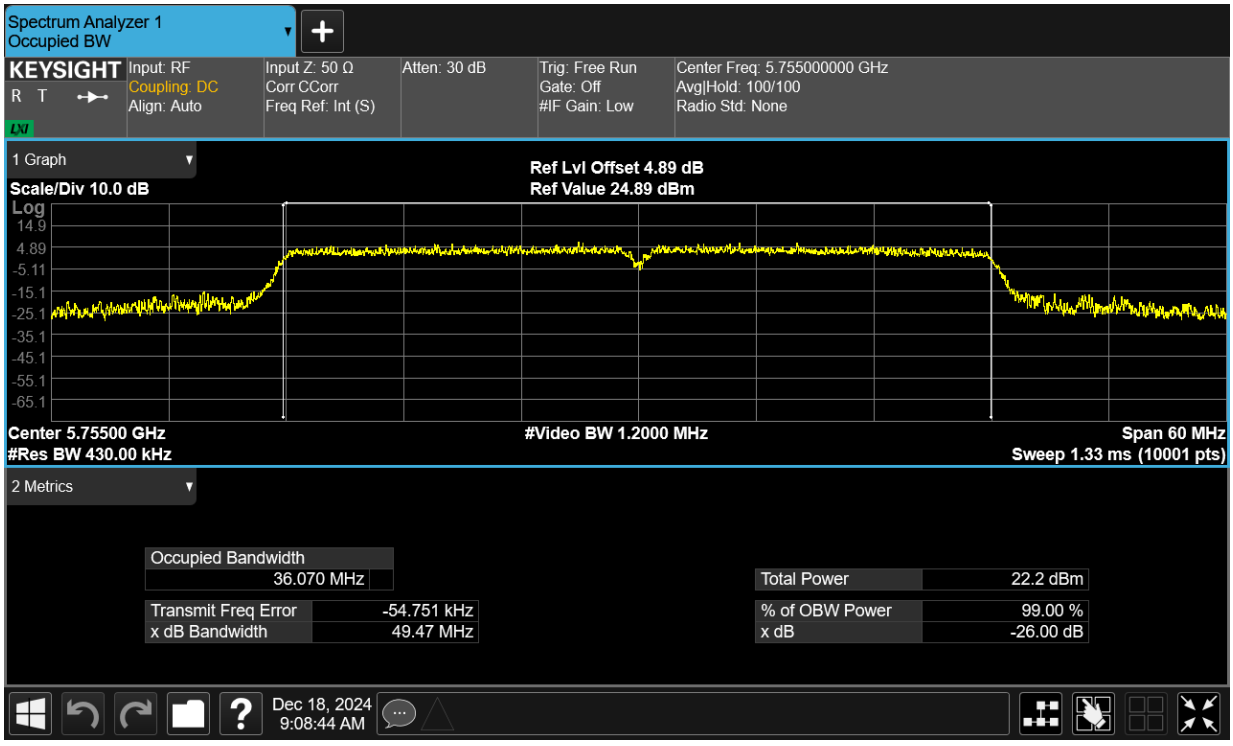
OBW NVNT n20 5785MHz Ant13



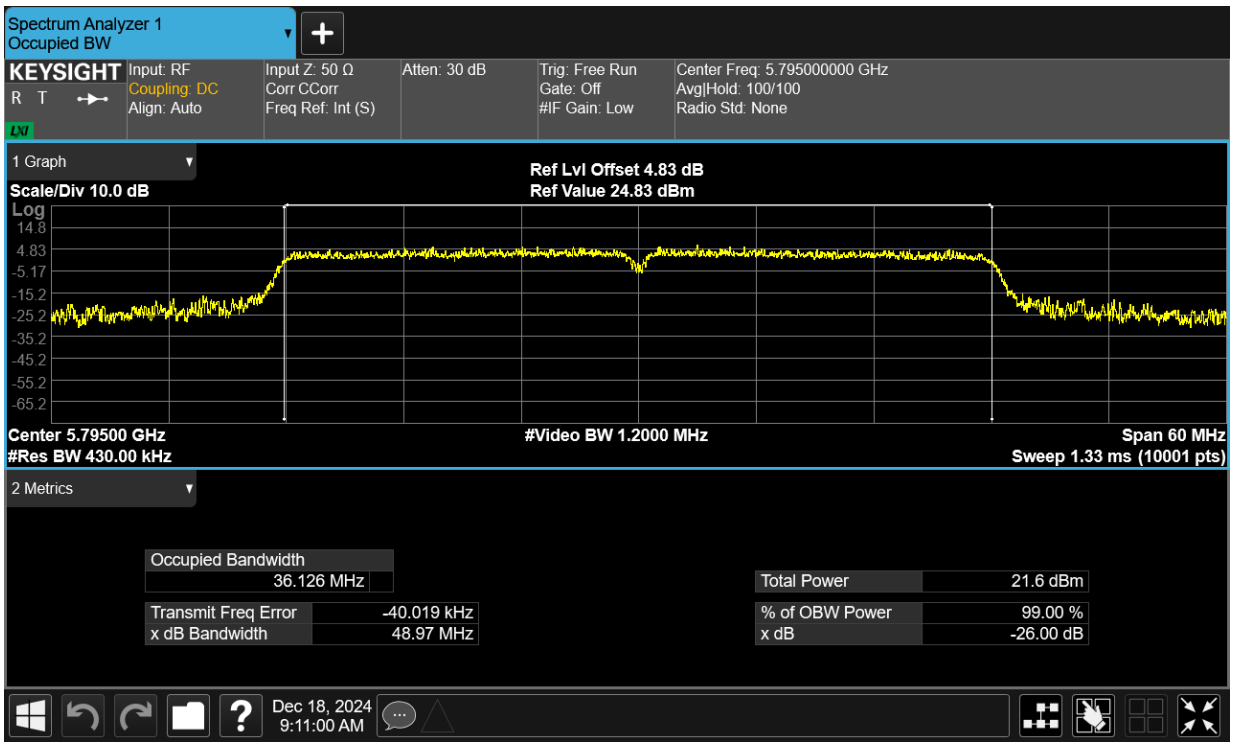
OBW NVNT n20 5825MHz Ant13



OBW NVNT n40 5755MHz Ant13



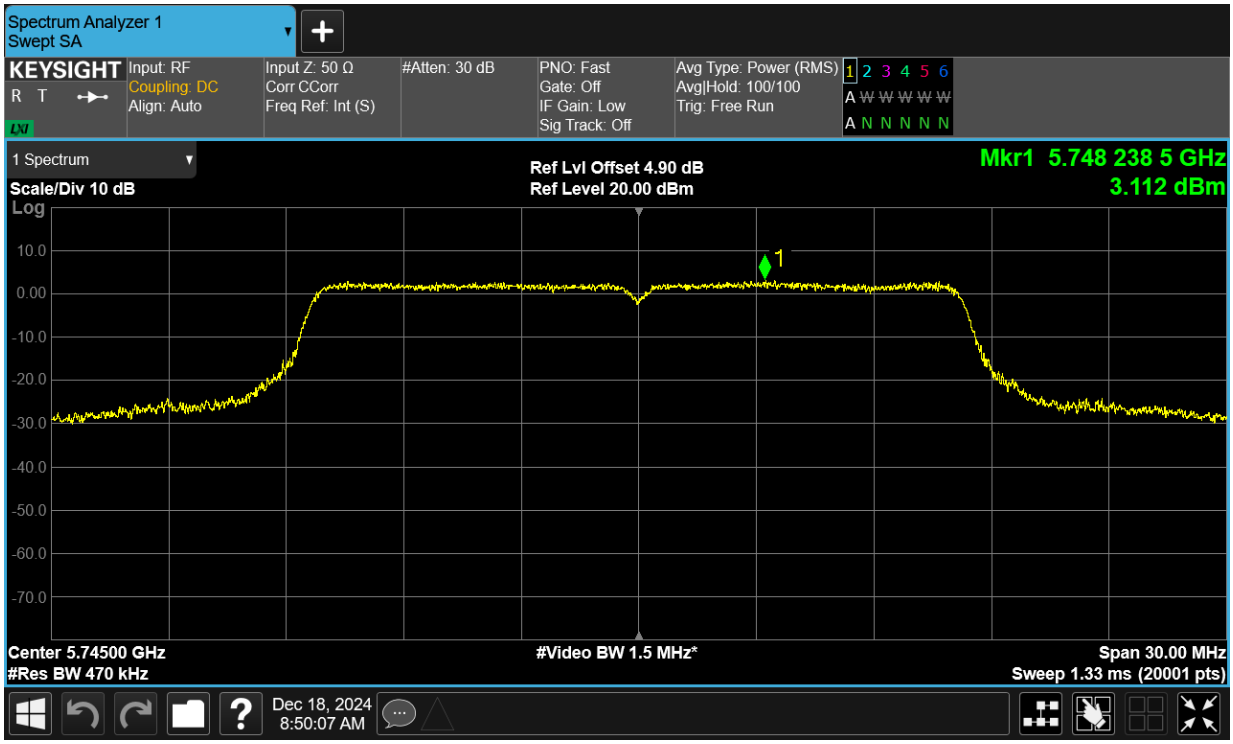
OBW NVNT n40 5795MHz Ant13



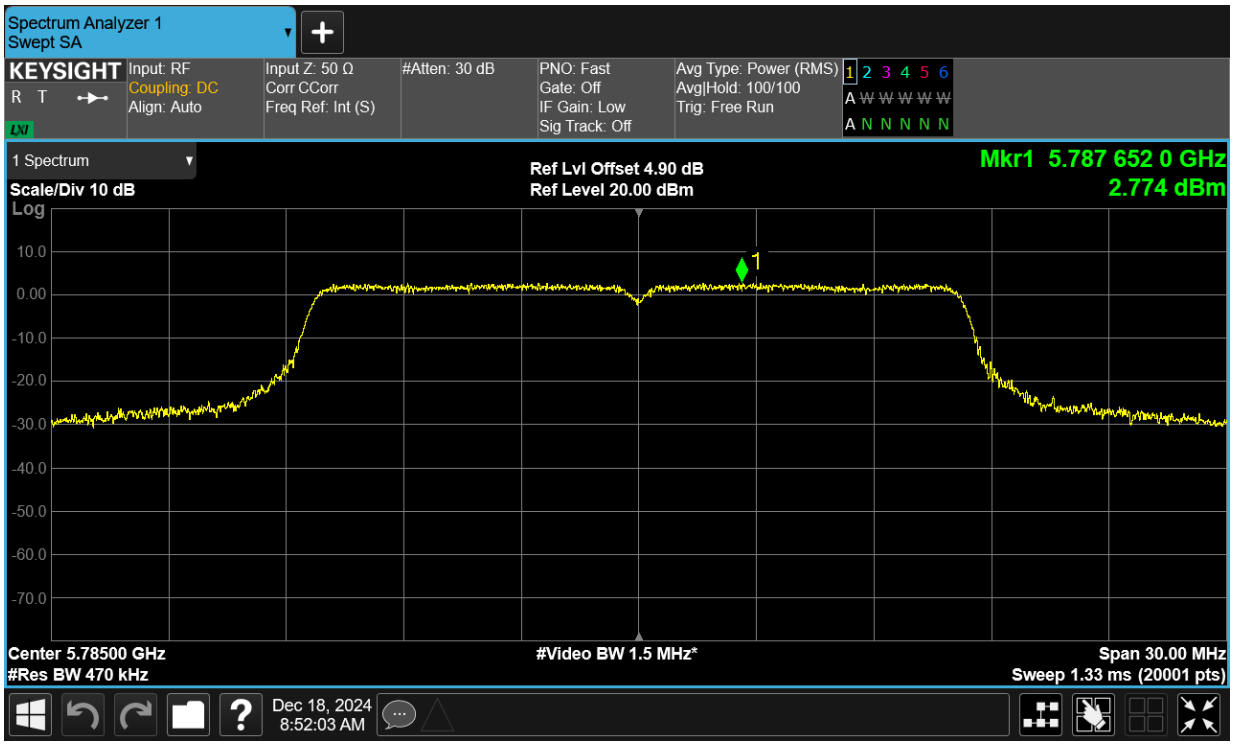
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant13	3.112	30	Pass
NVNT	a	5785	Ant13	2.774	30	Pass
NVNT	a	5825	Ant13	3.394	30	Pass
NVNT	ac20	5745	Ant13	2.116	30	Pass
NVNT	ac20	5785	Ant13	1.519	30	Pass
NVNT	ac20	5825	Ant13	2.727	30	Pass
NVNT	ac40	5755	Ant13	-1.061	30	Pass
NVNT	ac40	5795	Ant13	-1.566	30	Pass
NVNT	ac80	5775	Ant13	-4.968	30	Pass
NVNT	n20	5745	Ant13	2.081	30	Pass
NVNT	n20	5785	Ant13	1.597	30	Pass
NVNT	n20	5825	Ant13	1.89	30	Pass
NVNT	n40	5755	Ant13	-1.096	30	Pass
NVNT	n40	5795	Ant13	-1.603	30	Pass

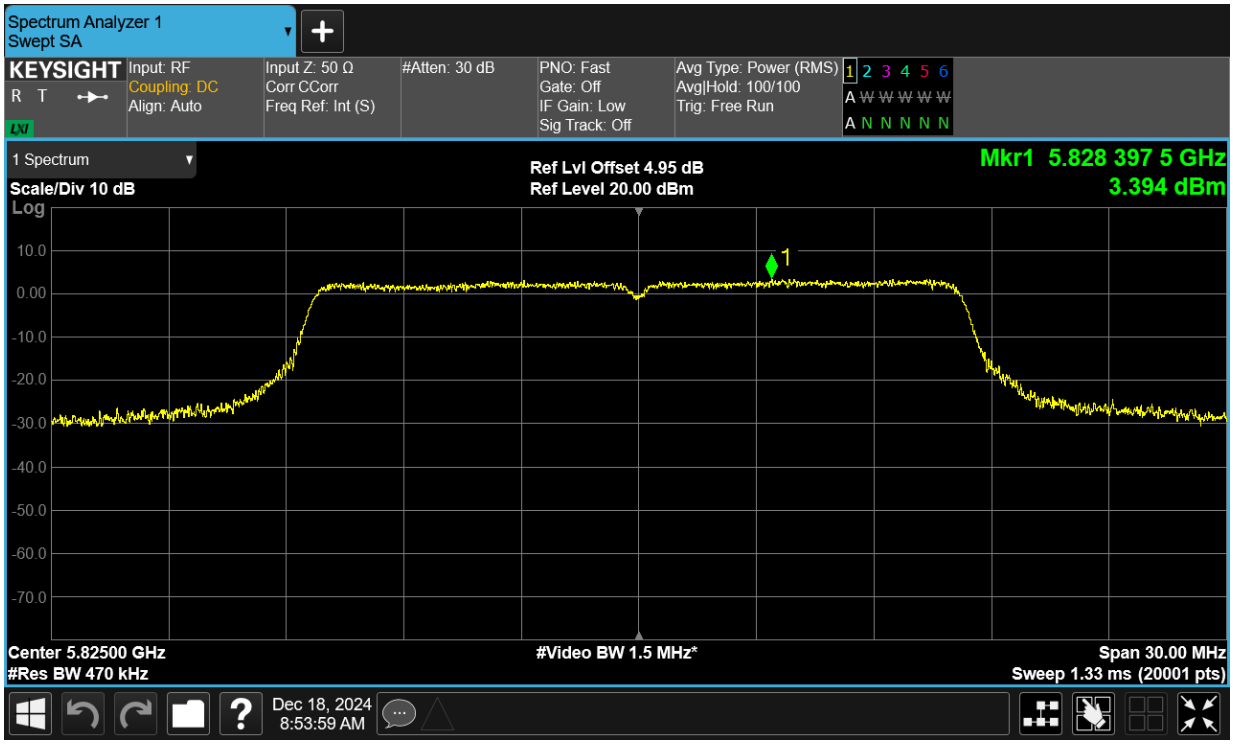
Test Graphs
PSD NVNT a 5745MHz Ant13



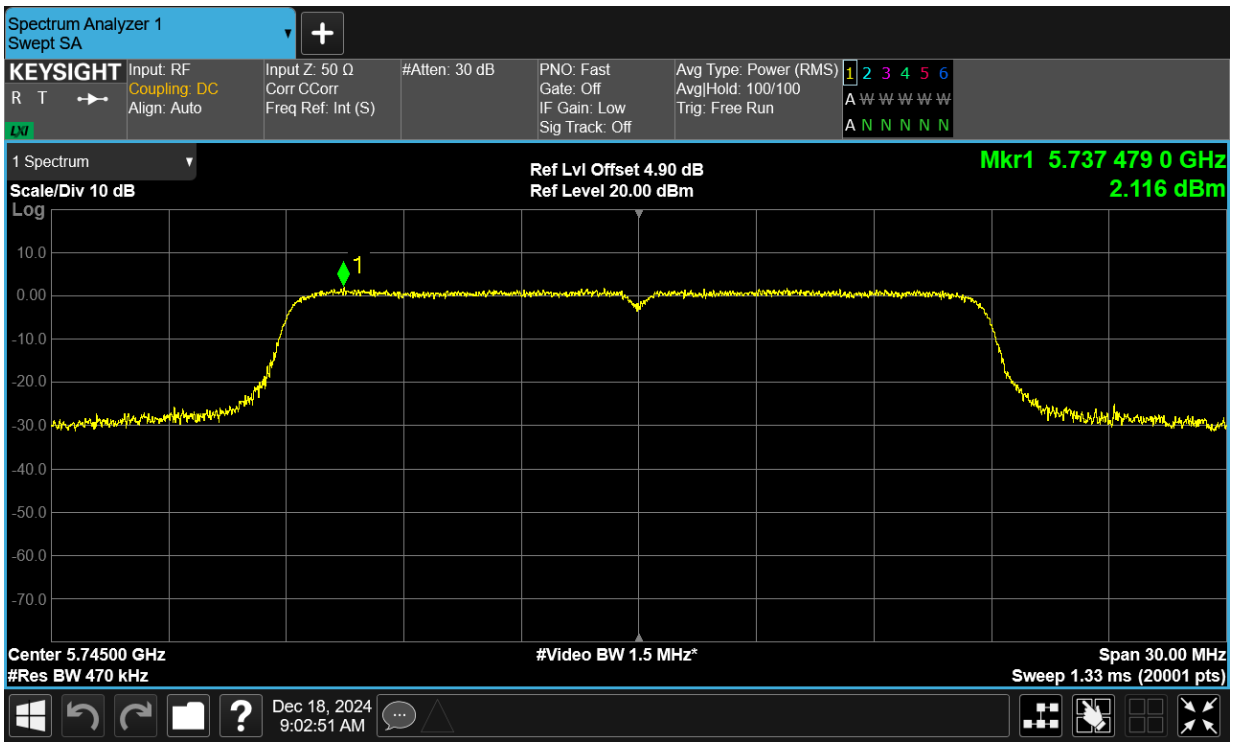
PSD NVNT a 5785MHz Ant13



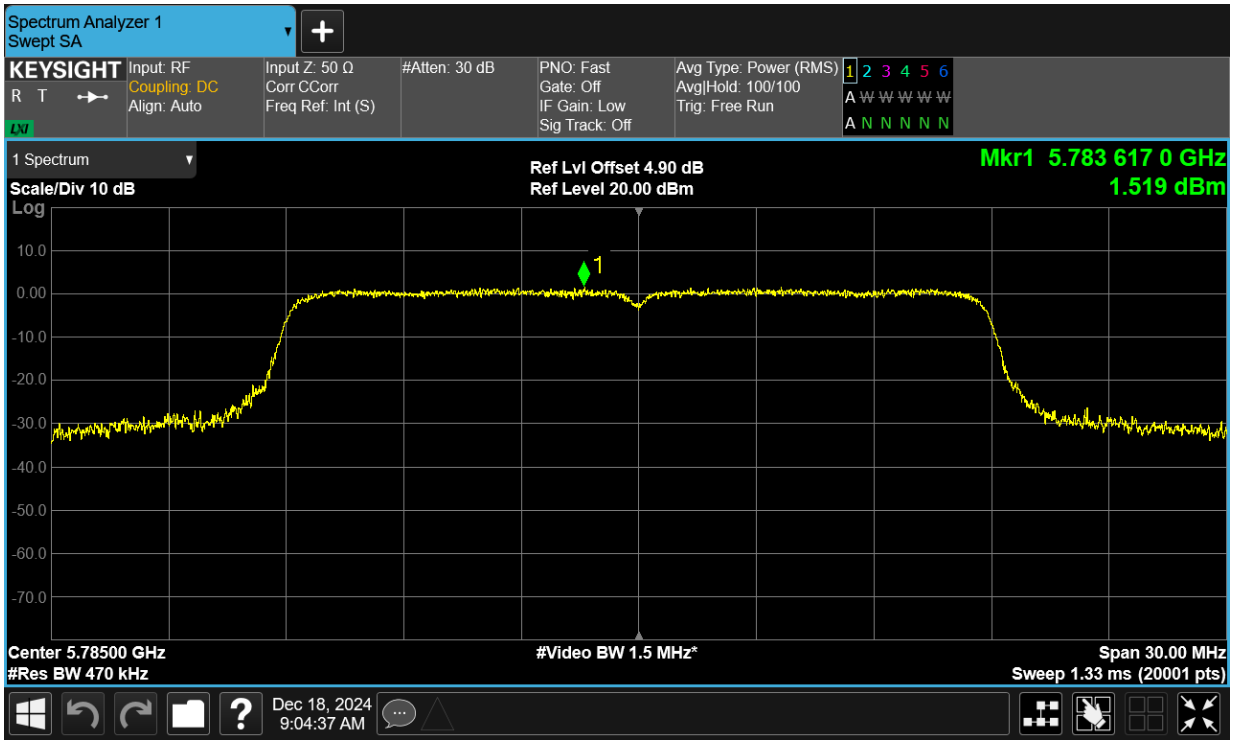
PSD NVNT a 5825MHz Ant13



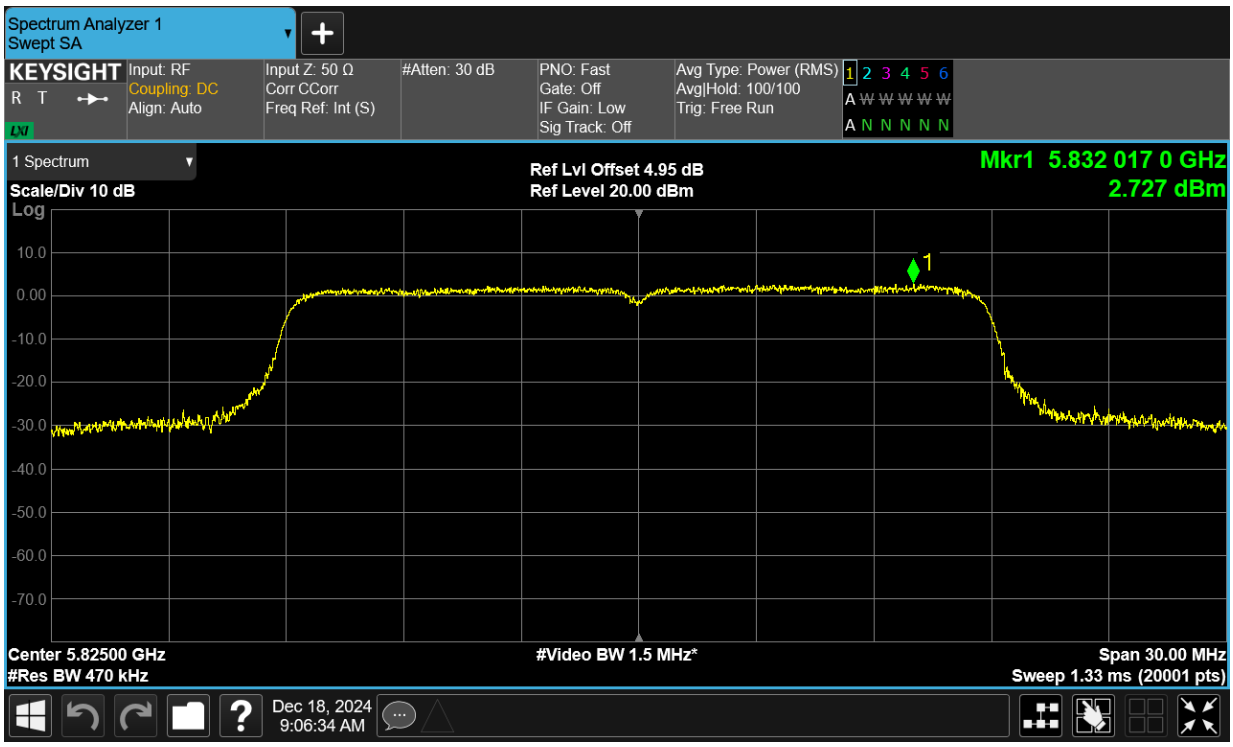
PSD NVNT ac20 5745MHz Ant13



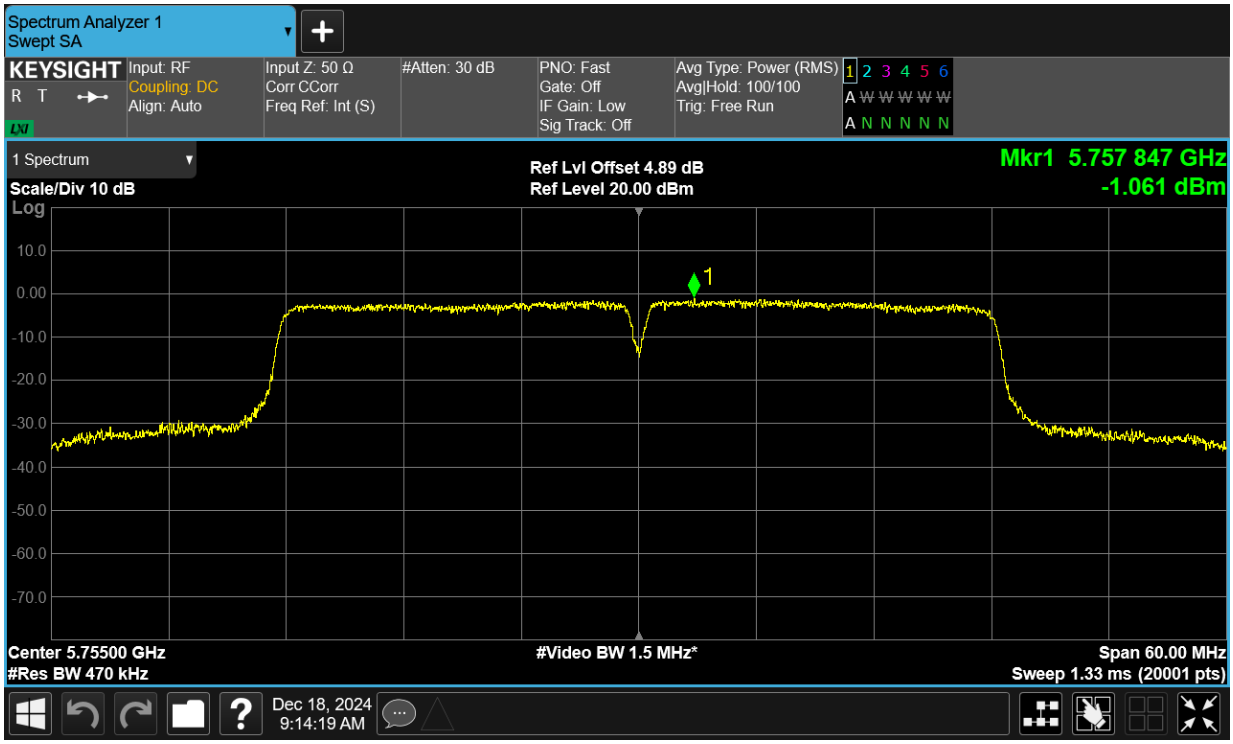
PSD NVNT ac20 5785MHz Ant13



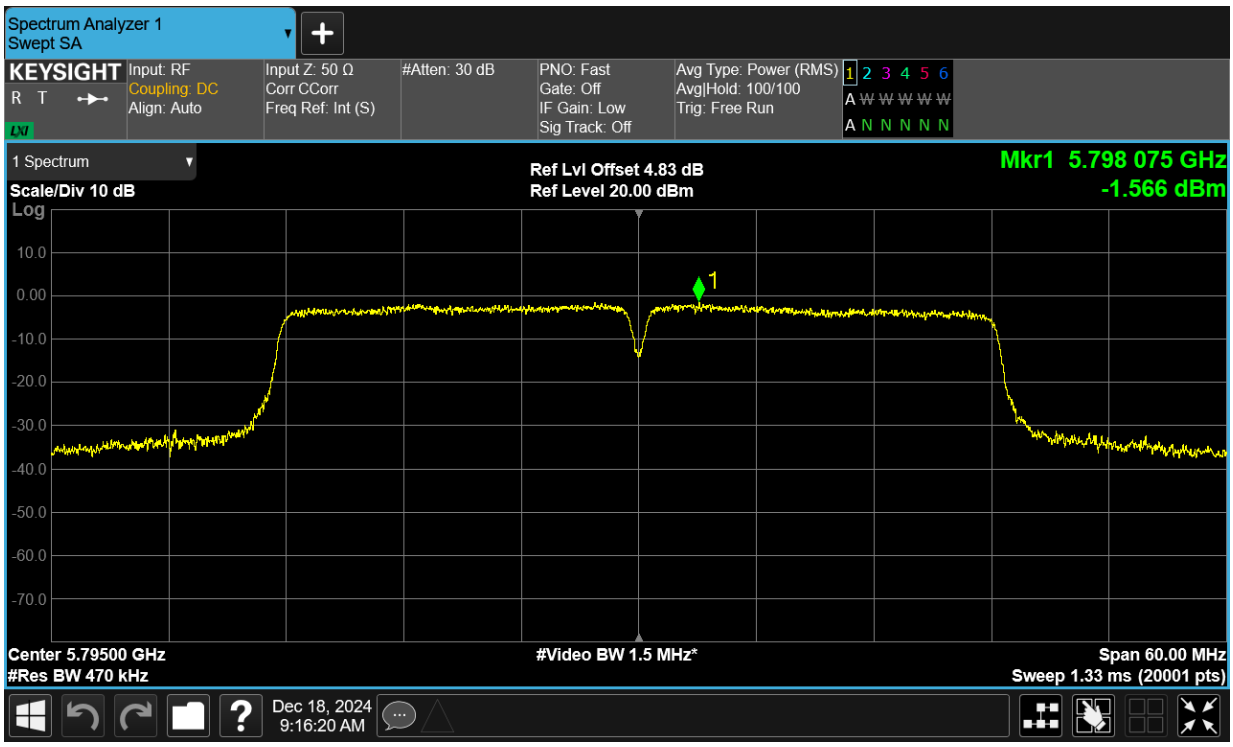
PSD NVNT ac20 5825MHz Ant13



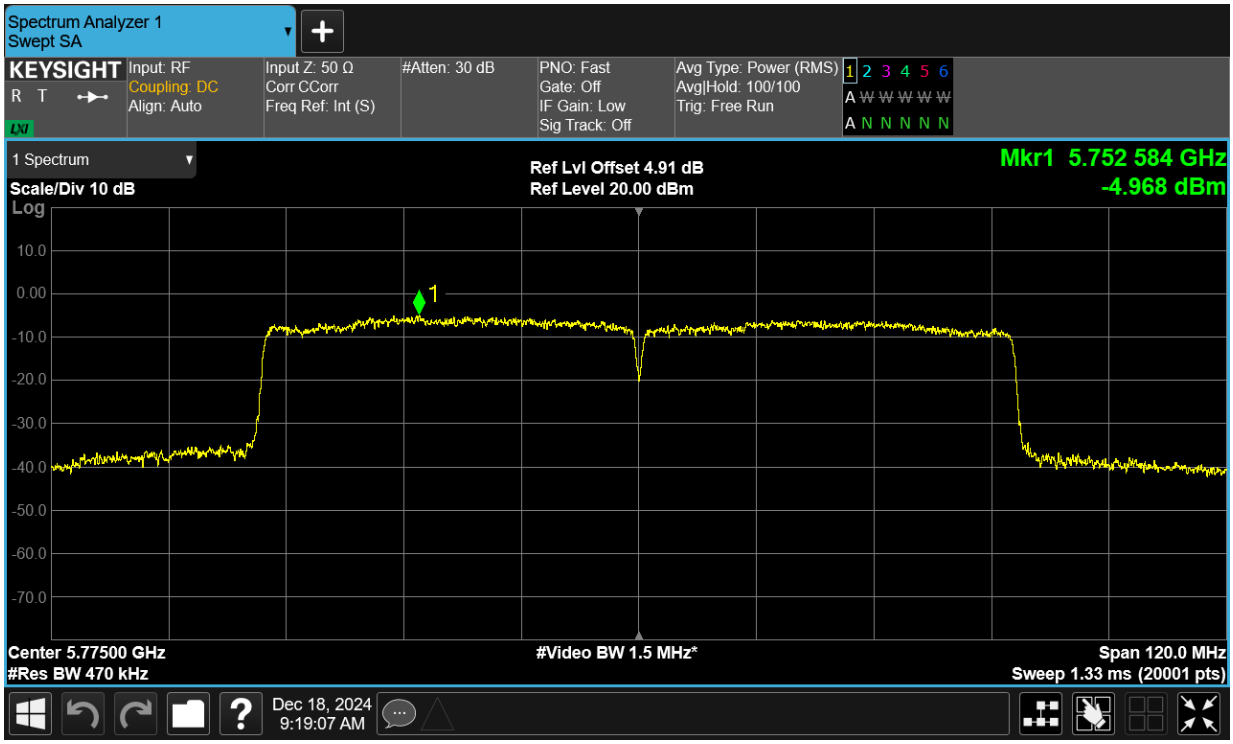
PSD NVNT ac40 5755MHz Ant13



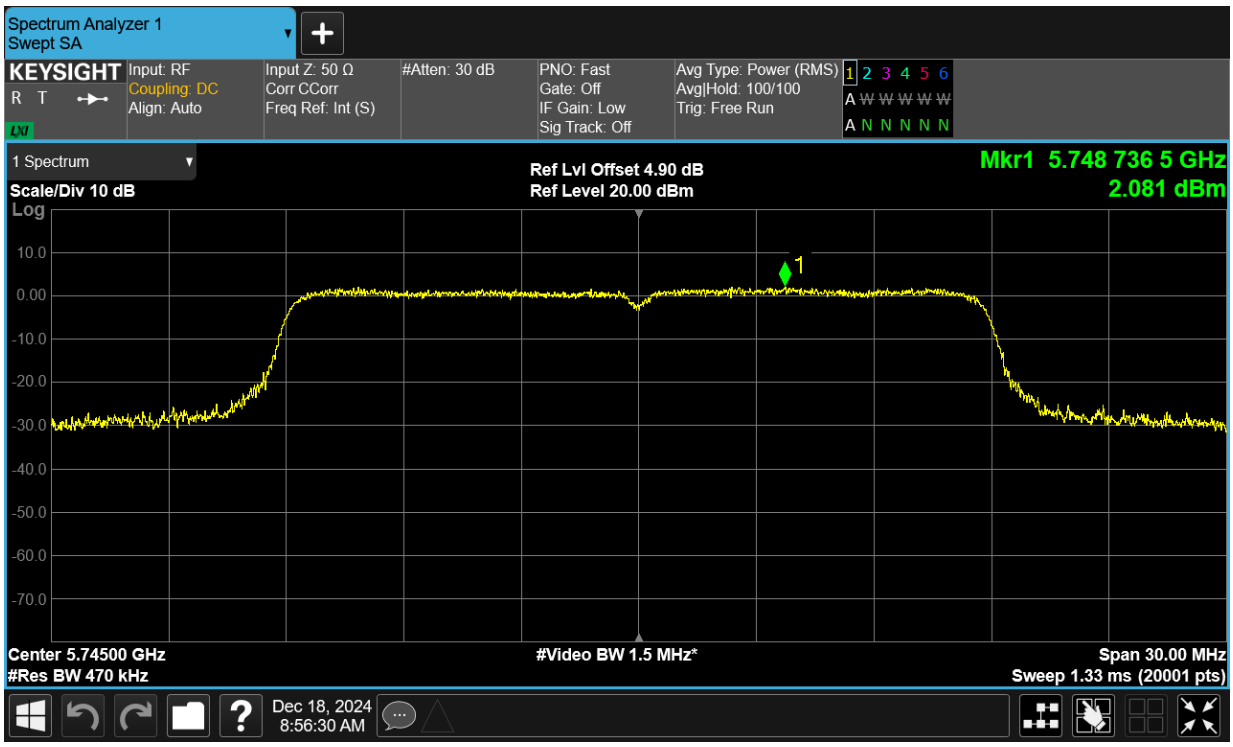
PSD NVNT ac40 5795MHz Ant13



PSD NVNT ac80 5775MHz Ant13



PSD NVNT n20 5745MHz Ant13



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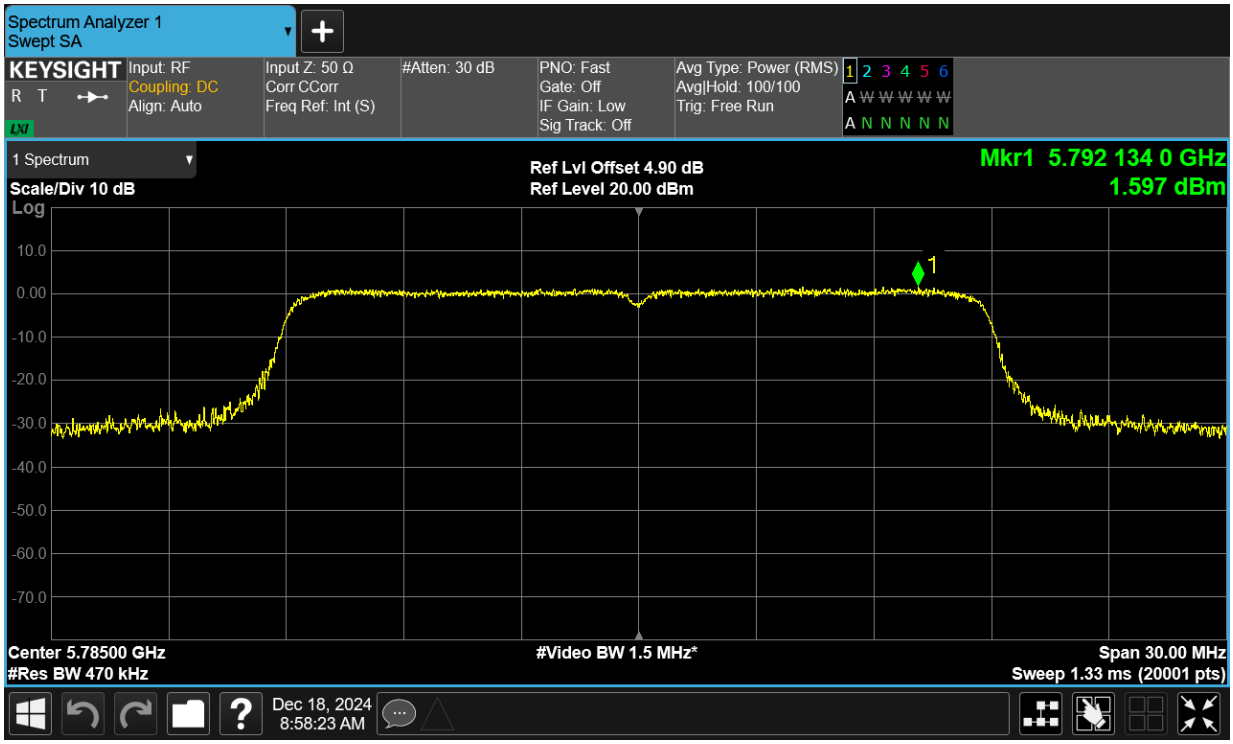
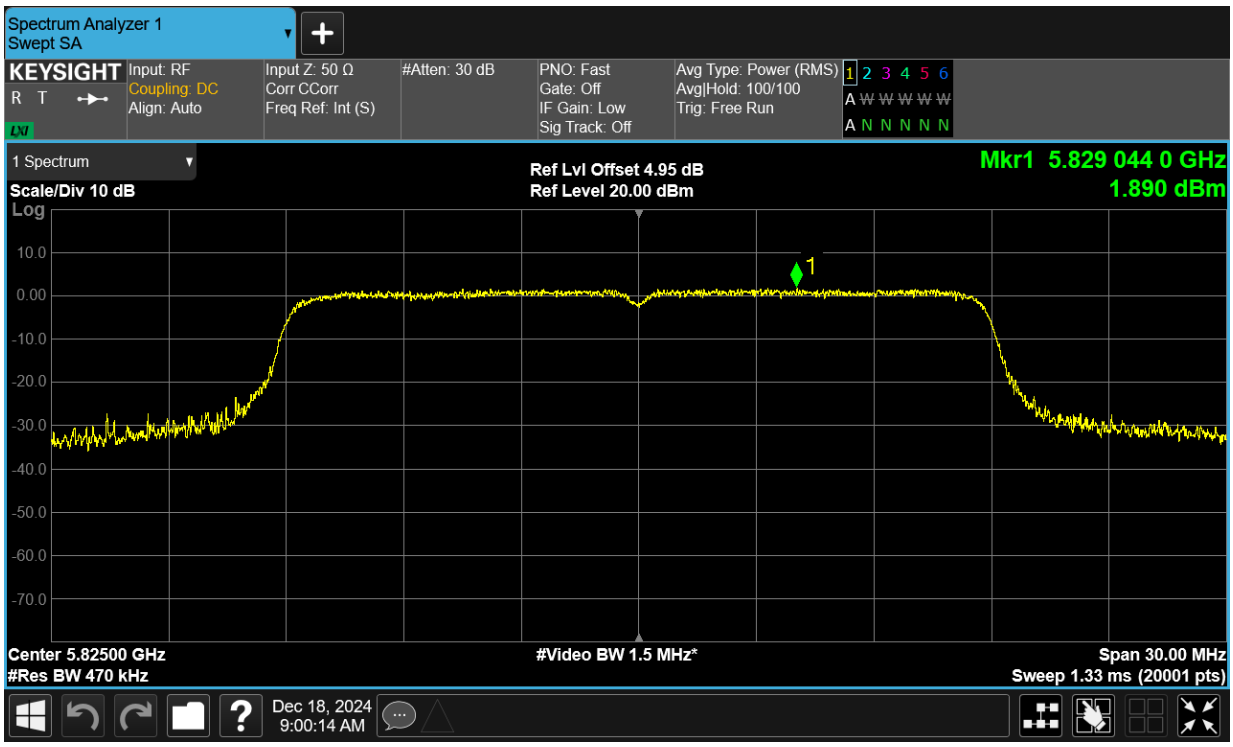
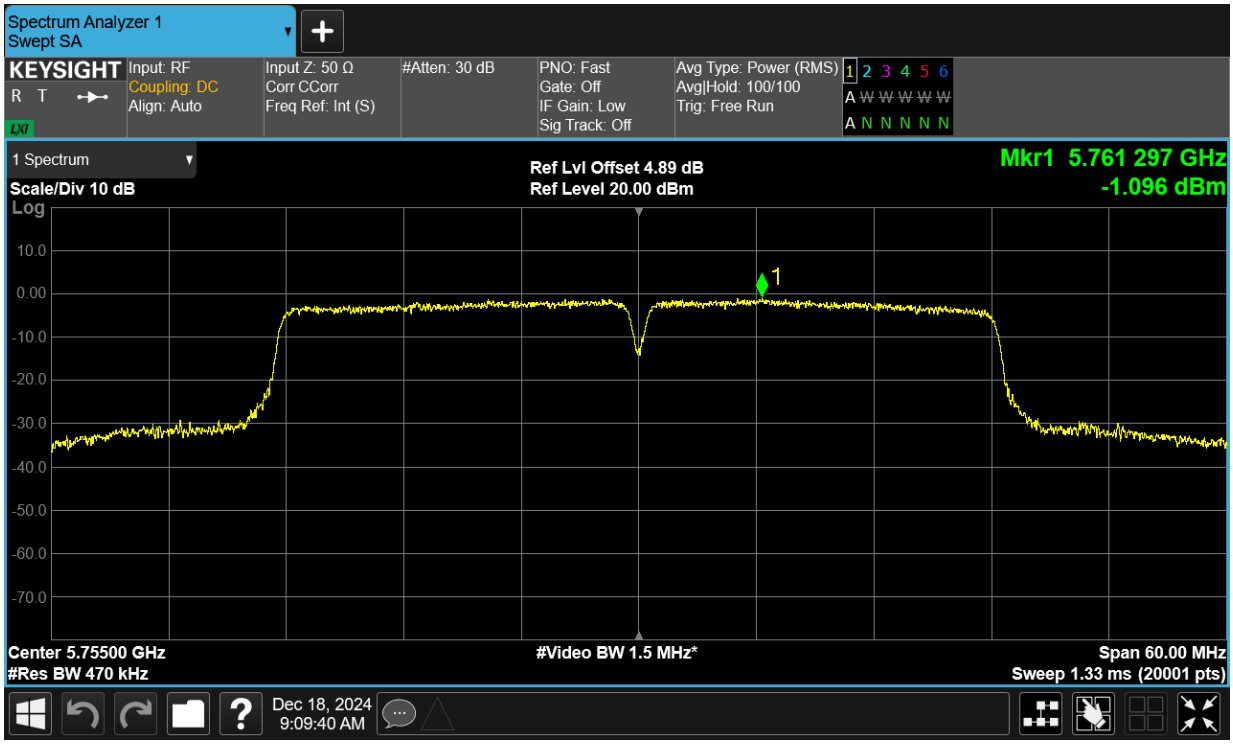
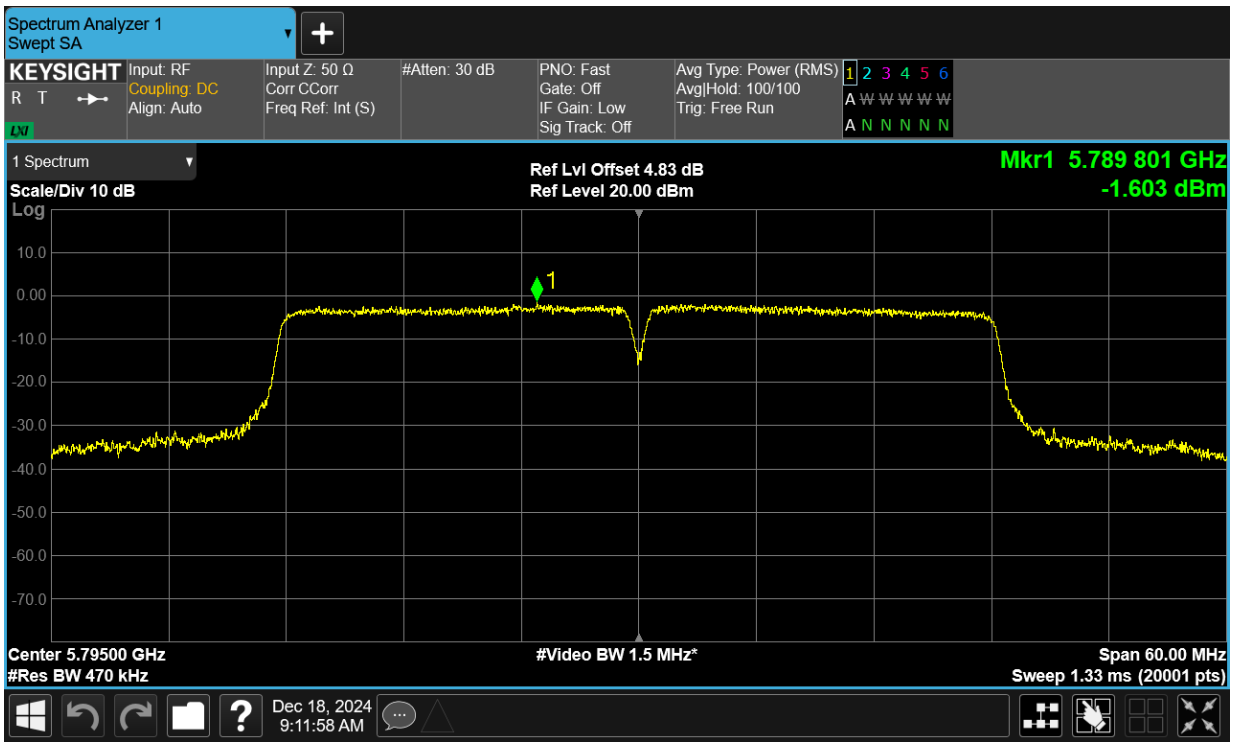


PSD NVNT n20 5825MHz Ant13



PSD NVNT n40 5755MHz Ant13



PSD NVNT n40 5795MHz Ant13