

## Test Data

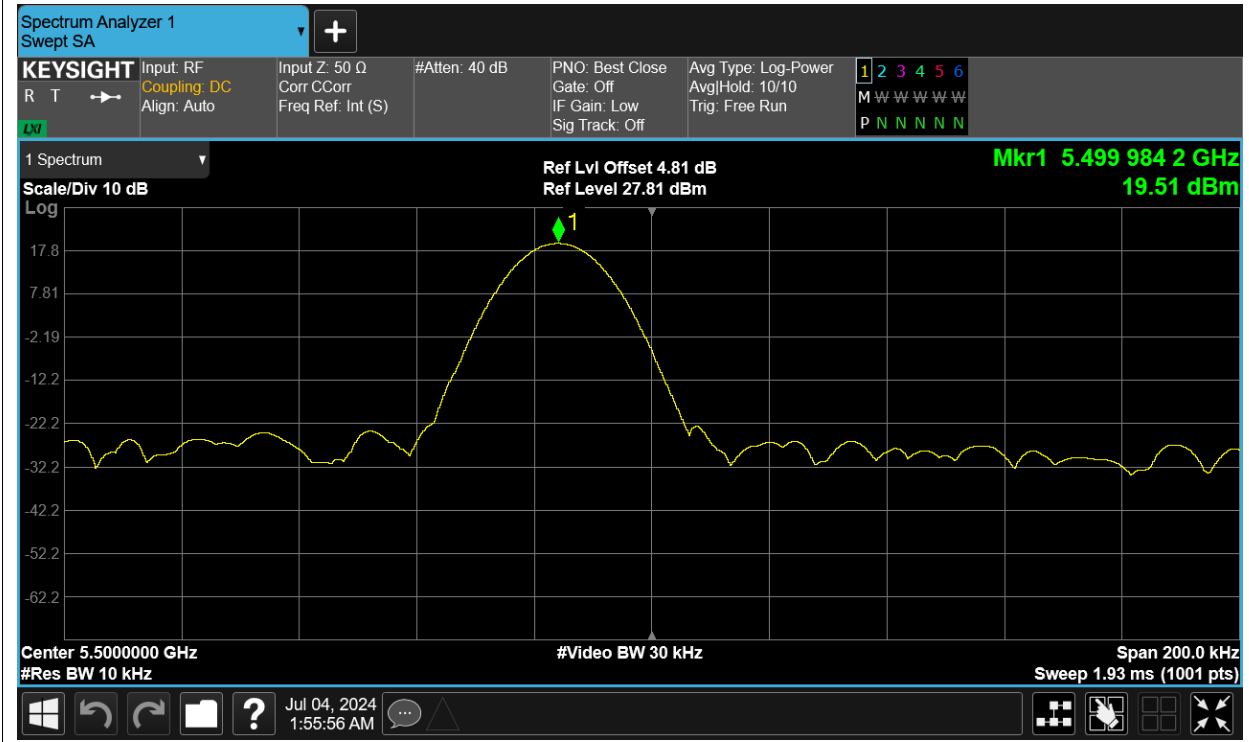
### Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5500	ANT13	5499.9842	-2.87	Within authorized band	Pass
LVNT	a	5500	ANT13	5499.9842	-2.87		Pass
NVHT	a	5500	ANT13	5499.9844	-2.84		Pass
NVLT	a	5500	ANT13	5499.9844	-2.84		Pass
NVNT	a	5500	ANT13	5499.9848	-2.76		Pass
HVNT	ac80	5530	ANT13	5529.9852	-2.68		Pass
LVNT	ac80	5530	ANT13	5529.9854	-2.64		Pass
NVHT	ac80	5530	ANT13	5529.985	-2.71		Pass
NVLT	ac80	5530	ANT13	5529.9858	-2.57		Pass
NVNT	ac80	5530	ANT13	5529.9846	-2.78		Pass
HVNT	n40	5510	ANT13	5509.9842	-2.87		Pass
LVNT	n40	5510	ANT13	5509.9842	-2.87		Pass
NVHT	n40	5510	ANT13	5509.9844	-2.83		Pass
NVLT	n40	5510	ANT13	5509.985	-2.72		Pass
NVNT	n40	5510	ANT13	5509.9852	-2.69		Pass

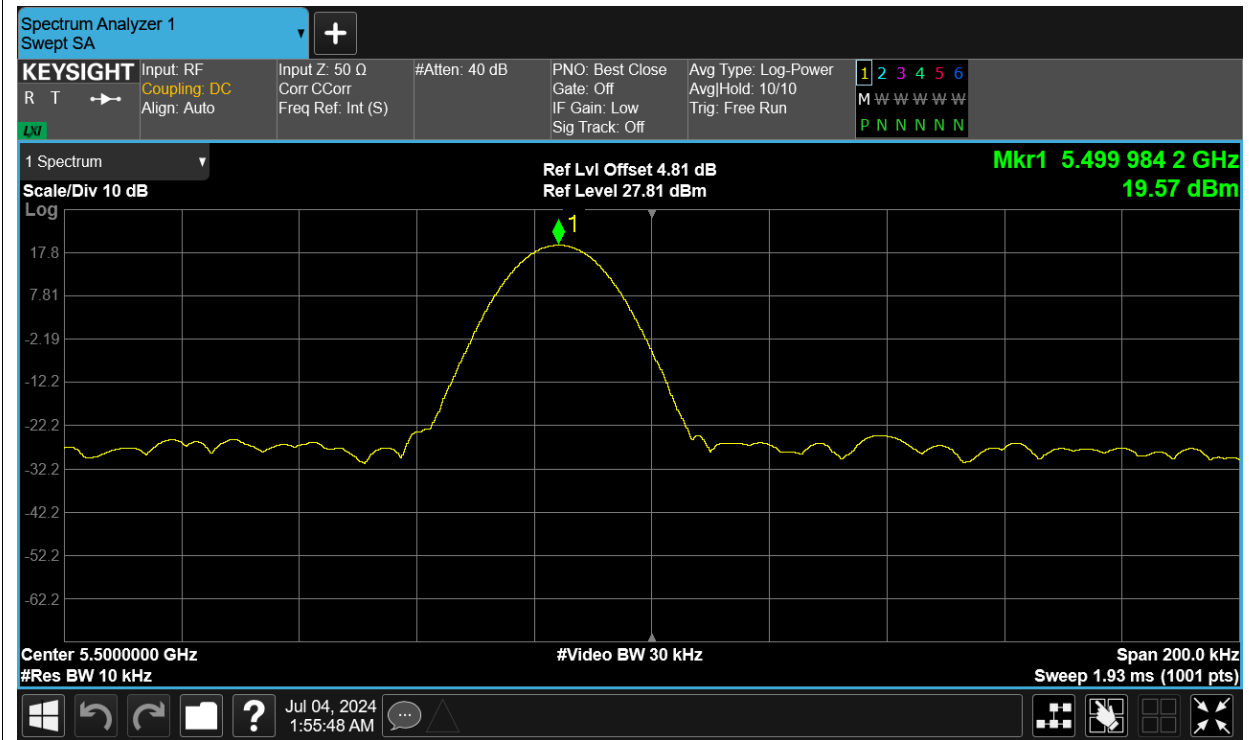
Remark: "NTNV" means Normal Temperature Normal Voltage, "NVHT" means Normal Voltage High Temperature, "NVLT" means Normal Voltage Low Temperature, "LVNT" means Low Voltage Normal Temperature, "HVNT" means High Voltage Normal Temperature.

Test Graphs

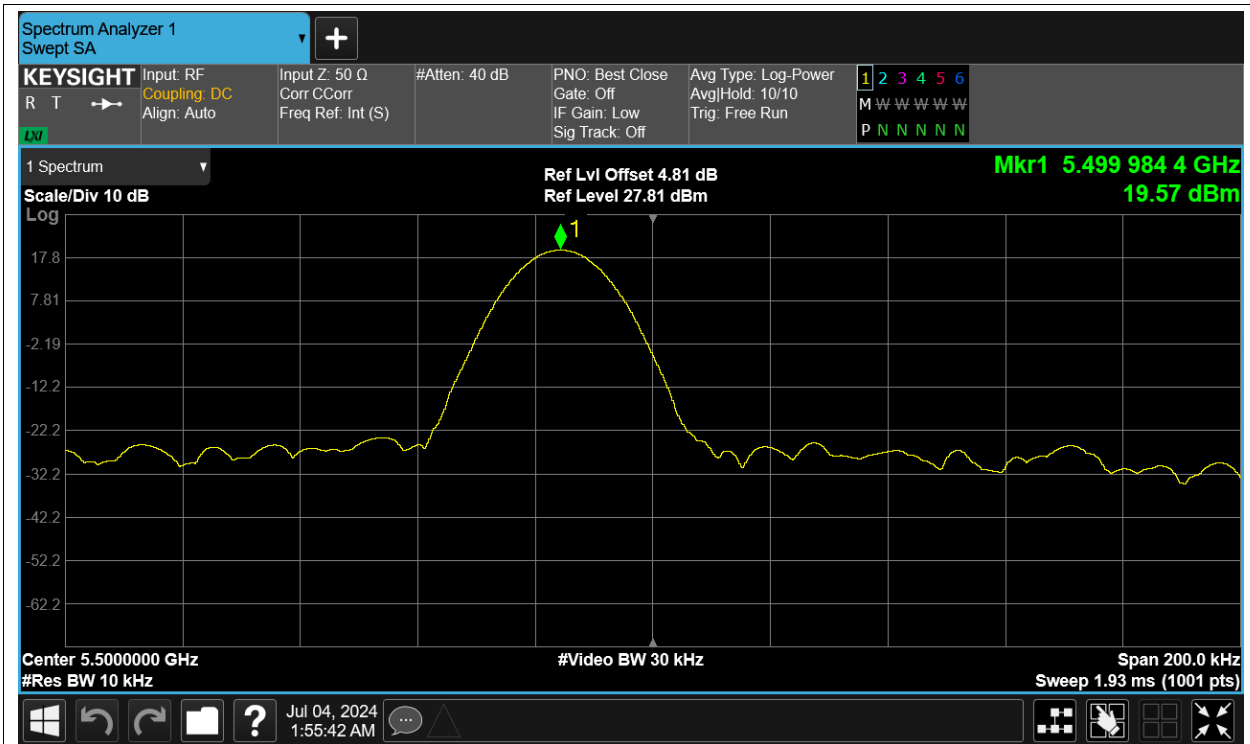
Freq. Stability HVNT a 5500MHz ANT13



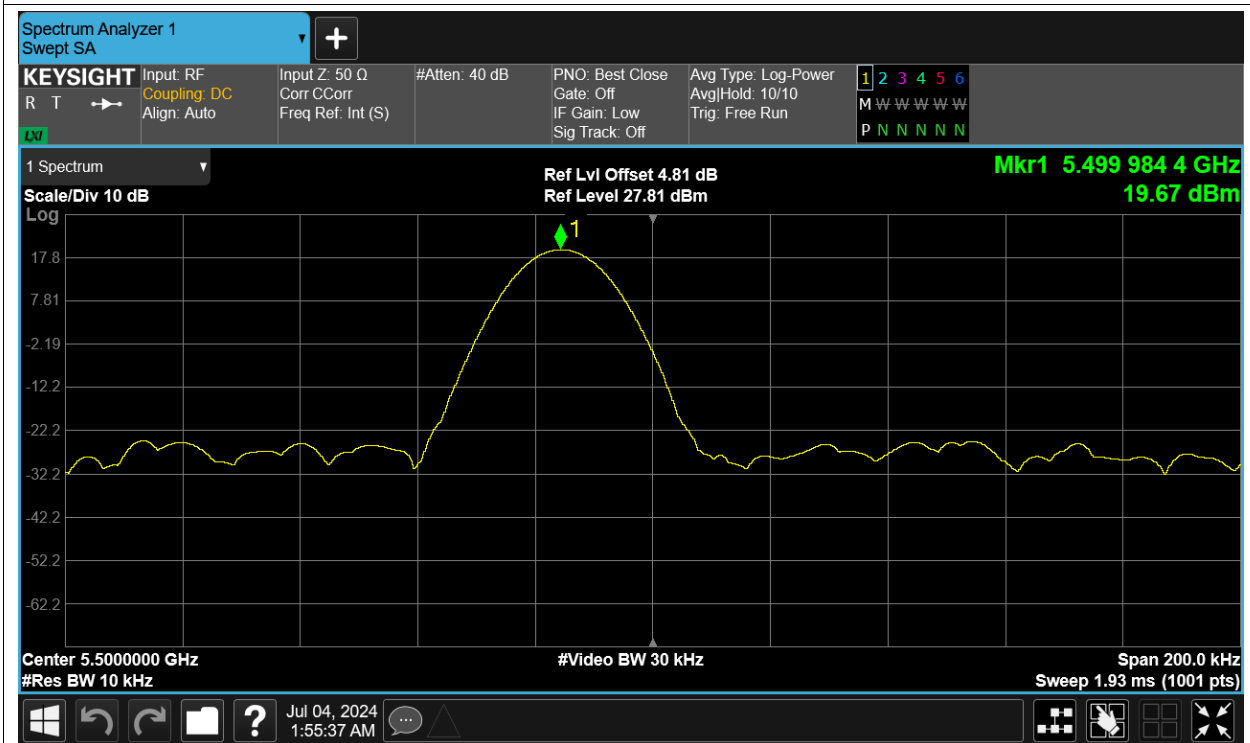
Freq. Stability LVNT a 5500MHz ANT13



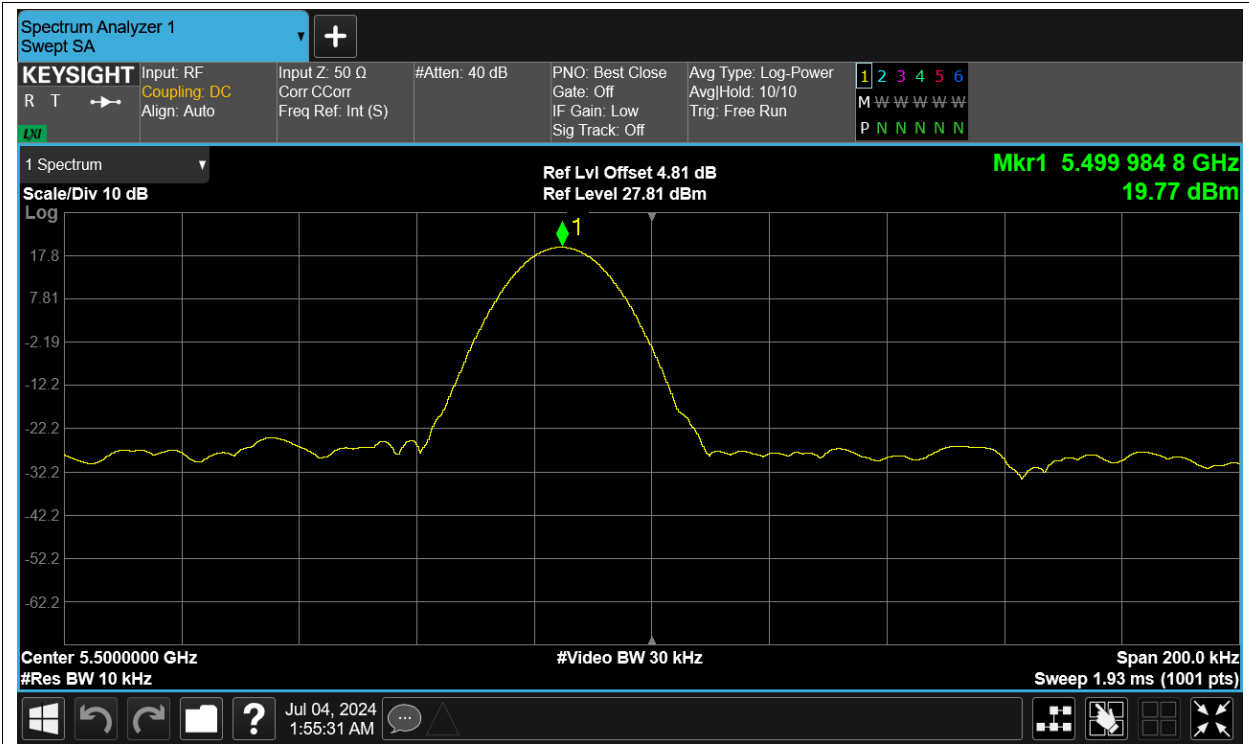
Freq. Stability NVHT a 5500MHz ANT13



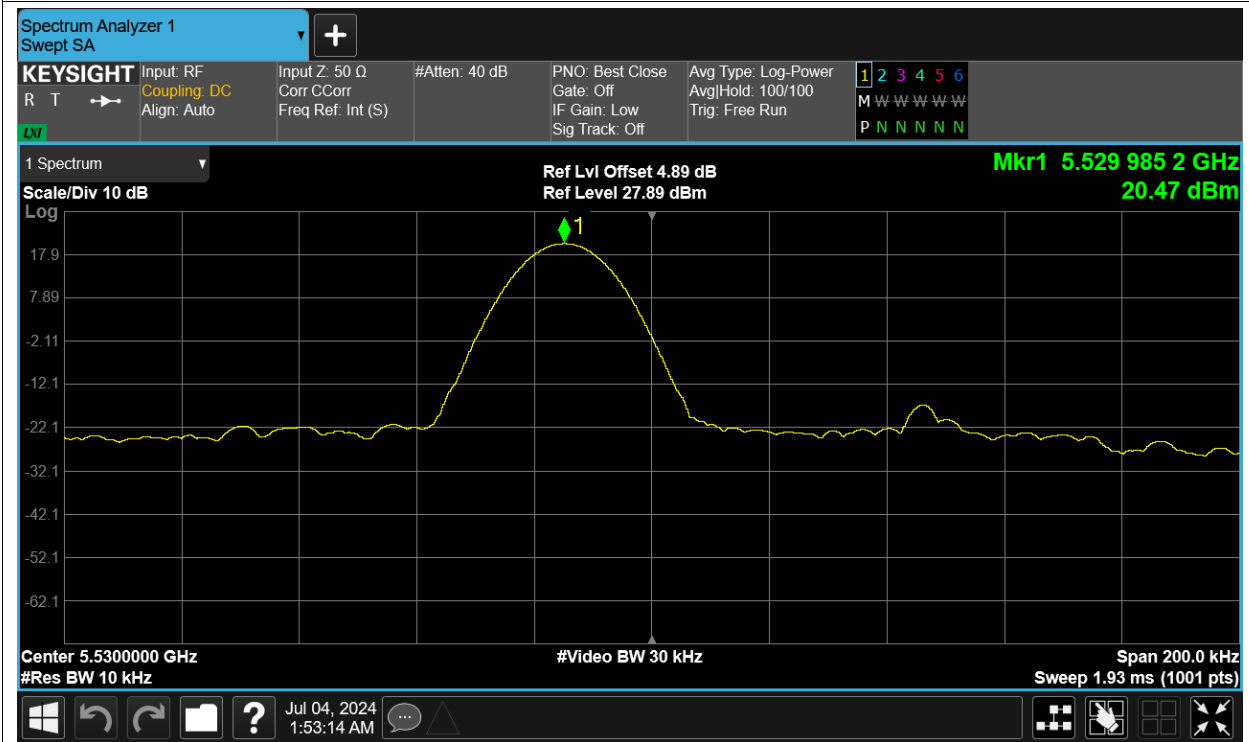
Freq. Stability NVLT a 5500MHz ANT13



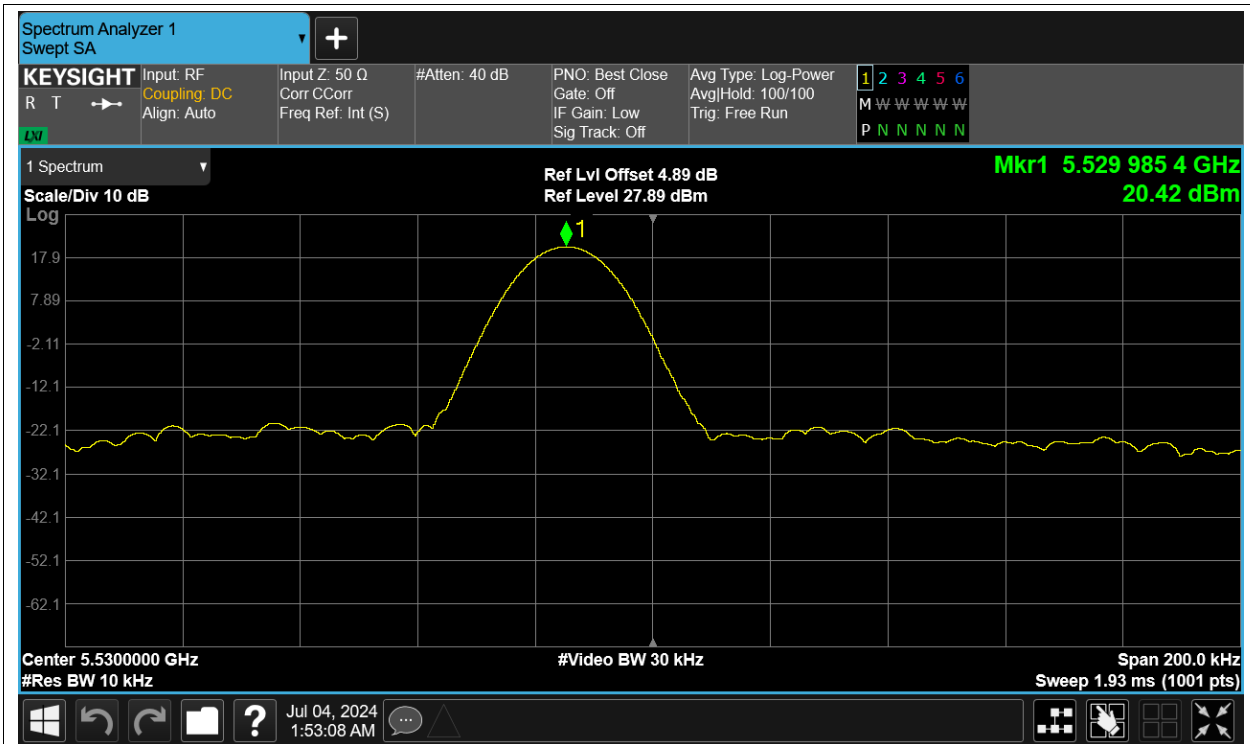
Freq. Stability NVNT a 5500MHz ANT13



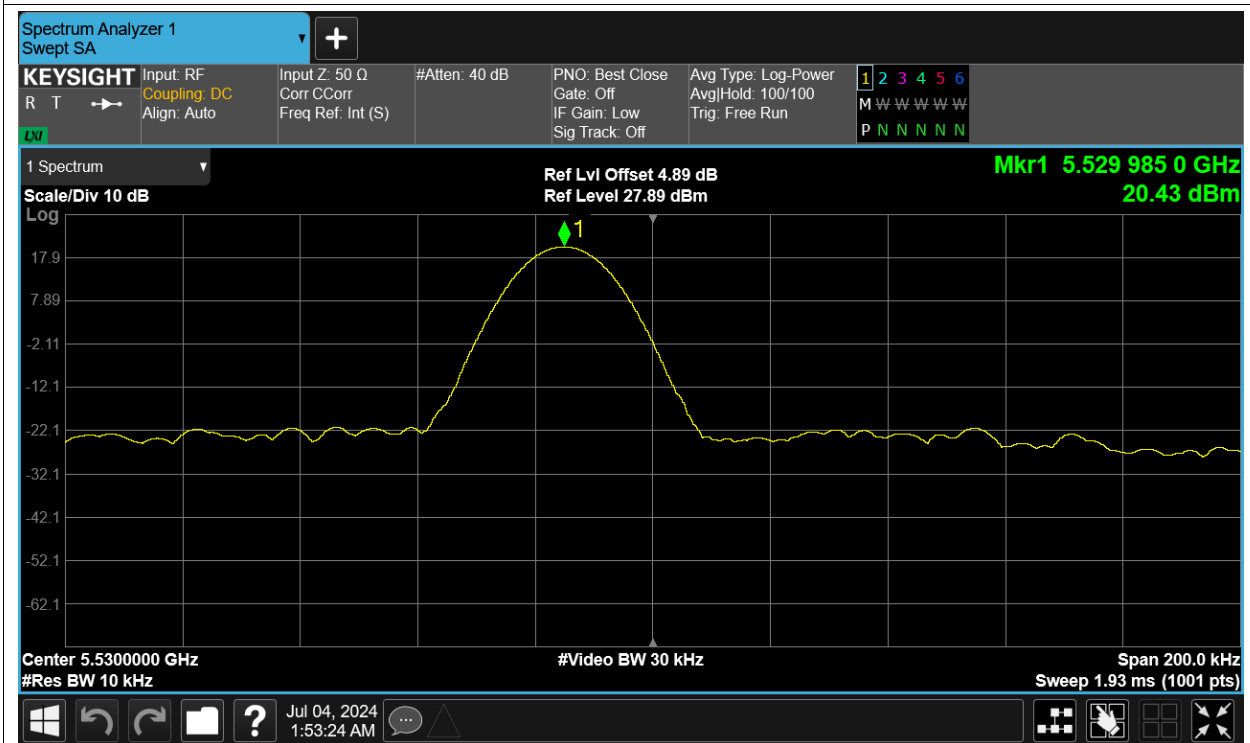
Freq. Stability HVNT ac80 5530MHz ANT13



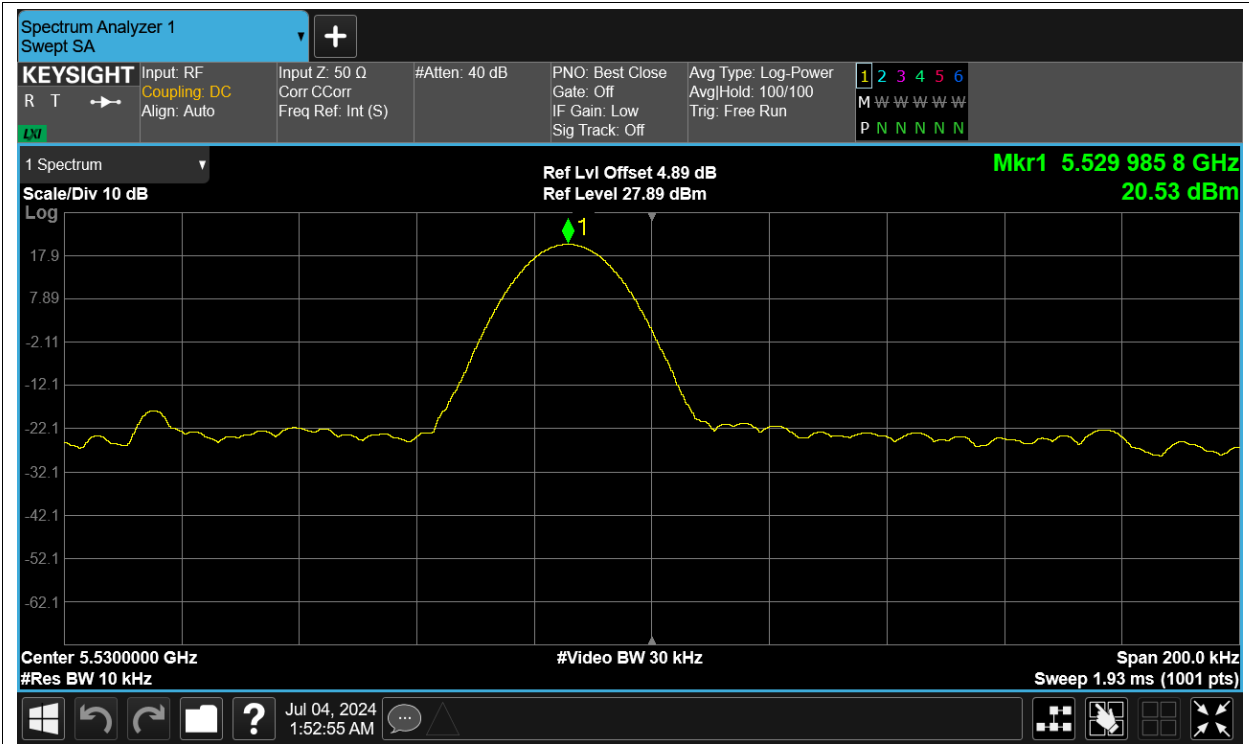
Freq. Stability LVNT ac80 5530MHz ANT13



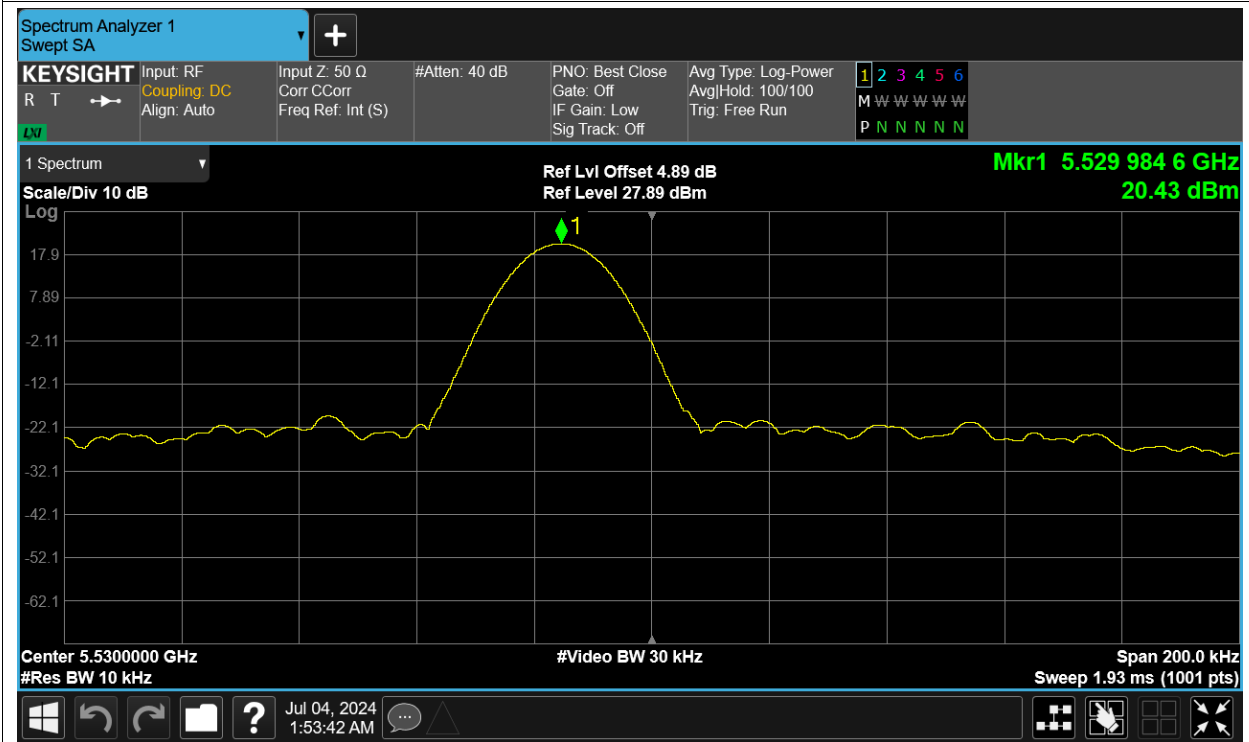
Freq. Stability NVHT ac80 5530MHz ANT13



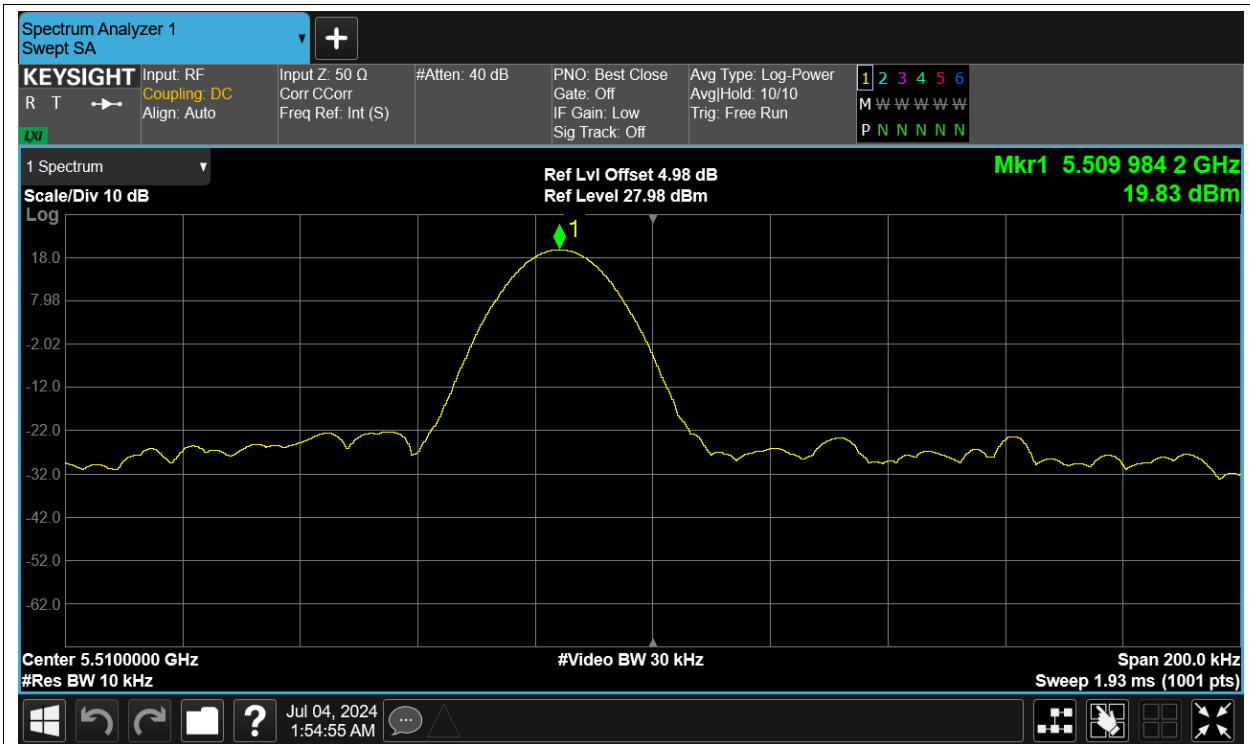
Freq. Stability NVLT ac80 5530MHz ANT13



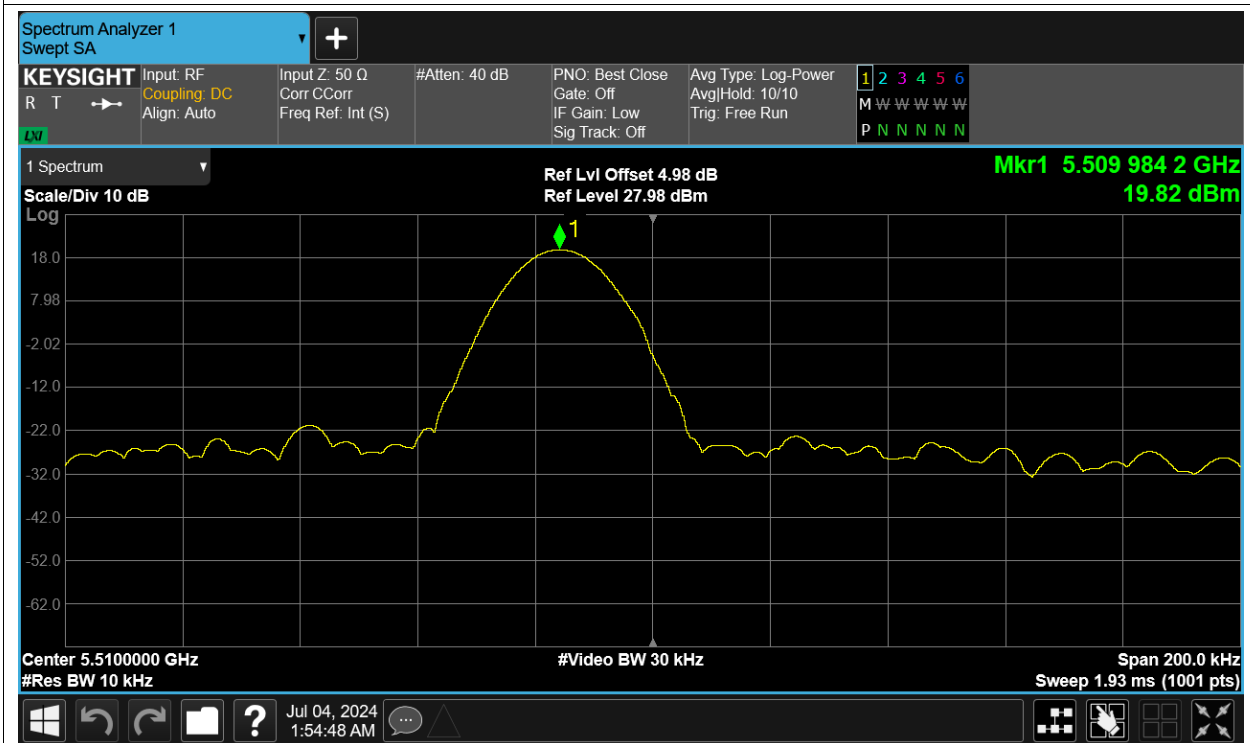
Freq. Stability NVNT ac80 5530MHz ANT13



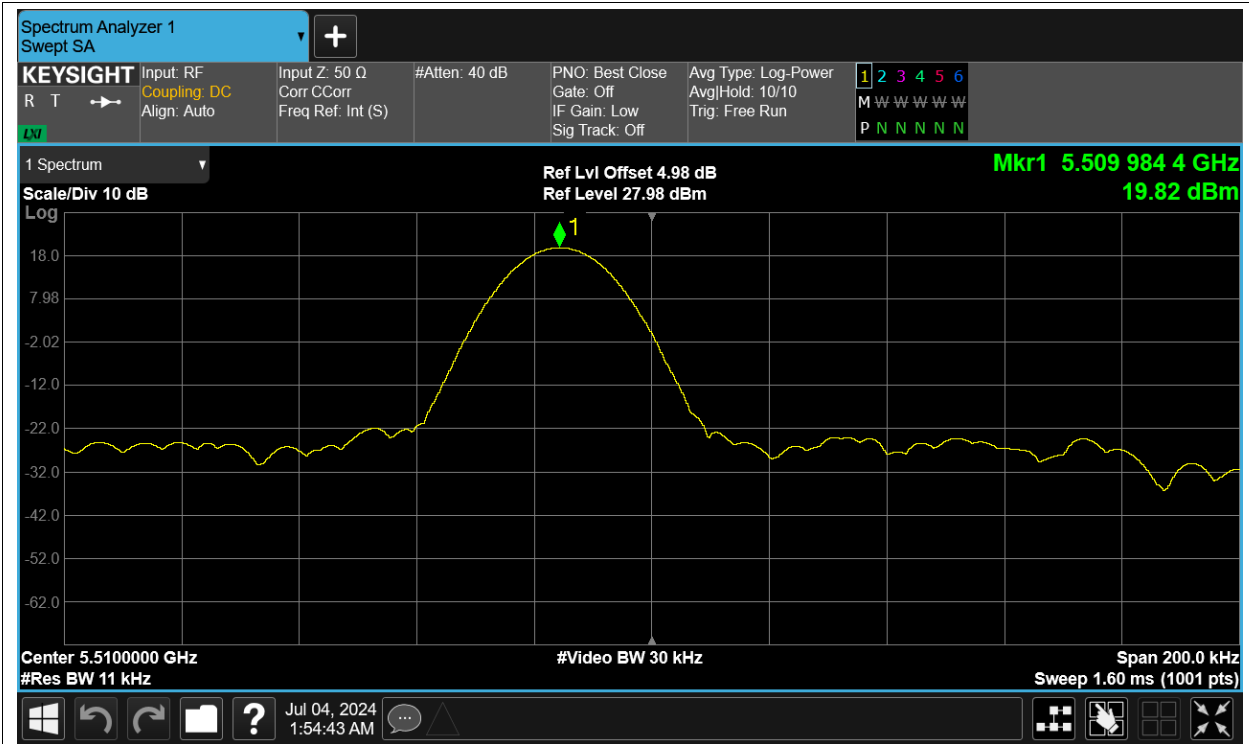
Freq. Stability HVNT n40 5510MHz ANT13



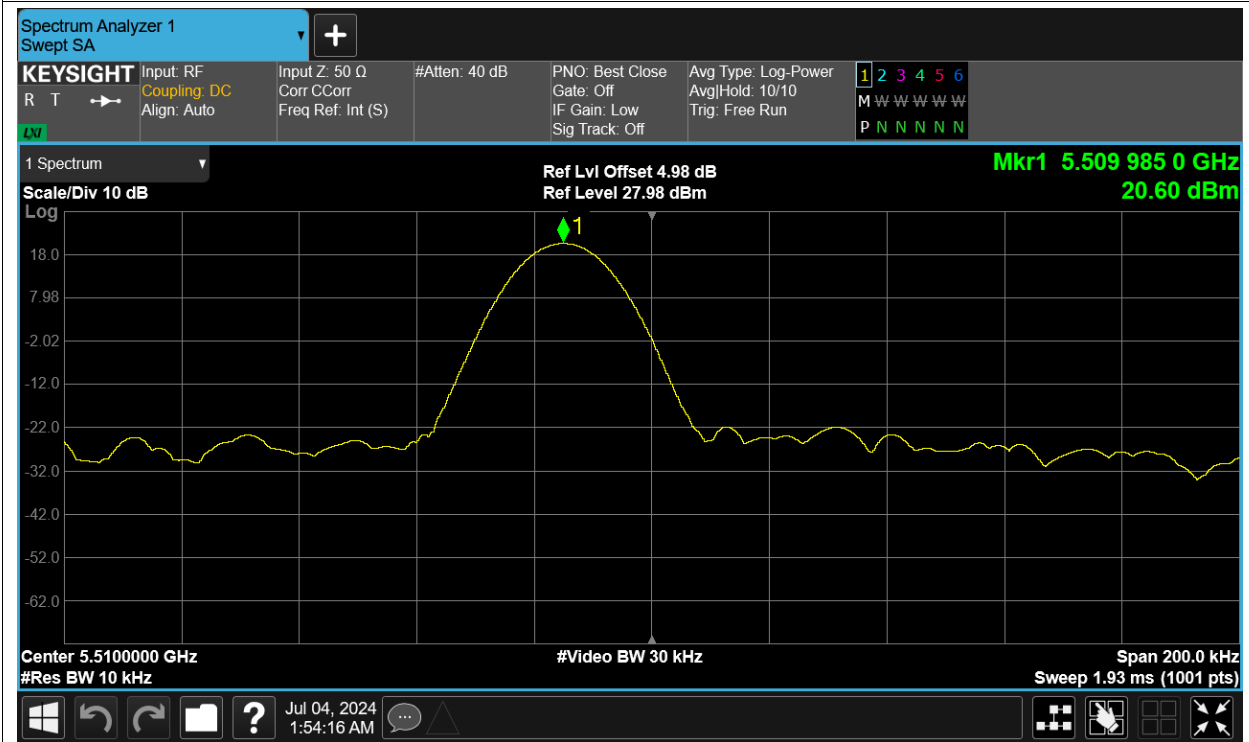
Freq. Stability LVNT n40 5510MHz ANT13



Freq. Stability NVHT n40 5510MHz ANT13

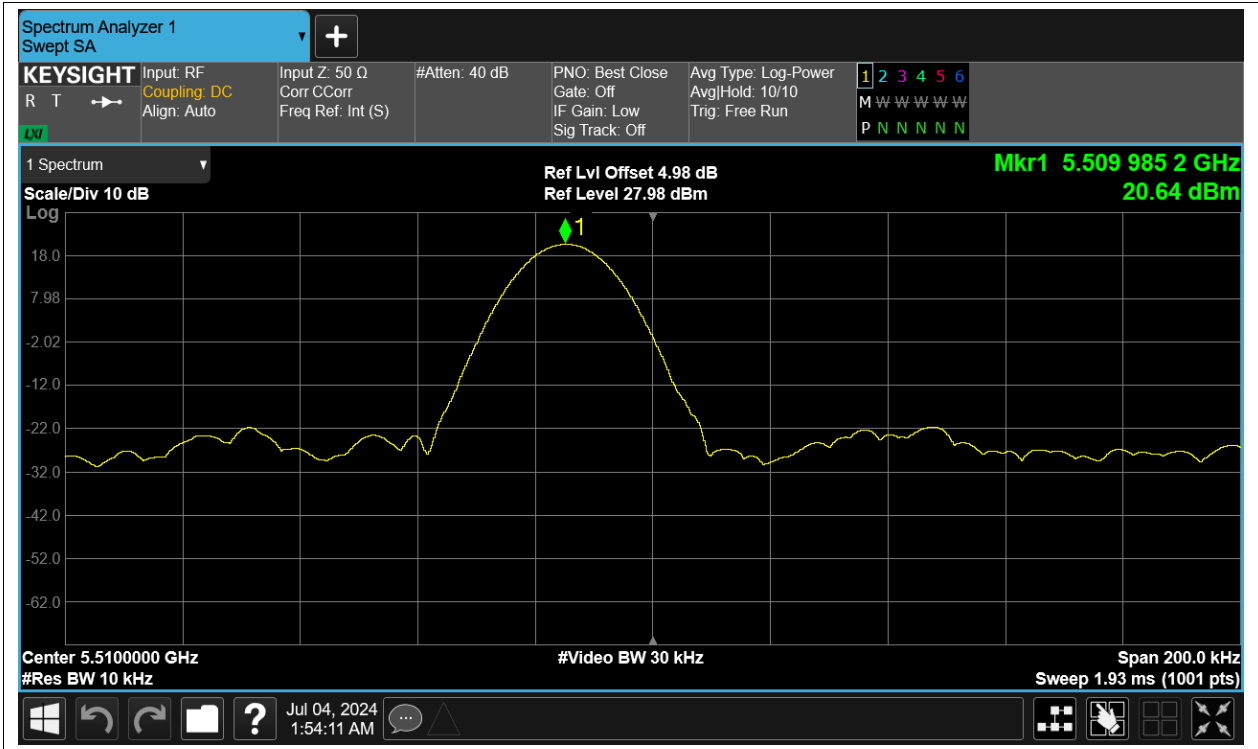


Freq. Stability NVLT n40 5510MHz ANT13



Freq. Stability NVNT n40 5510MHz ANT13



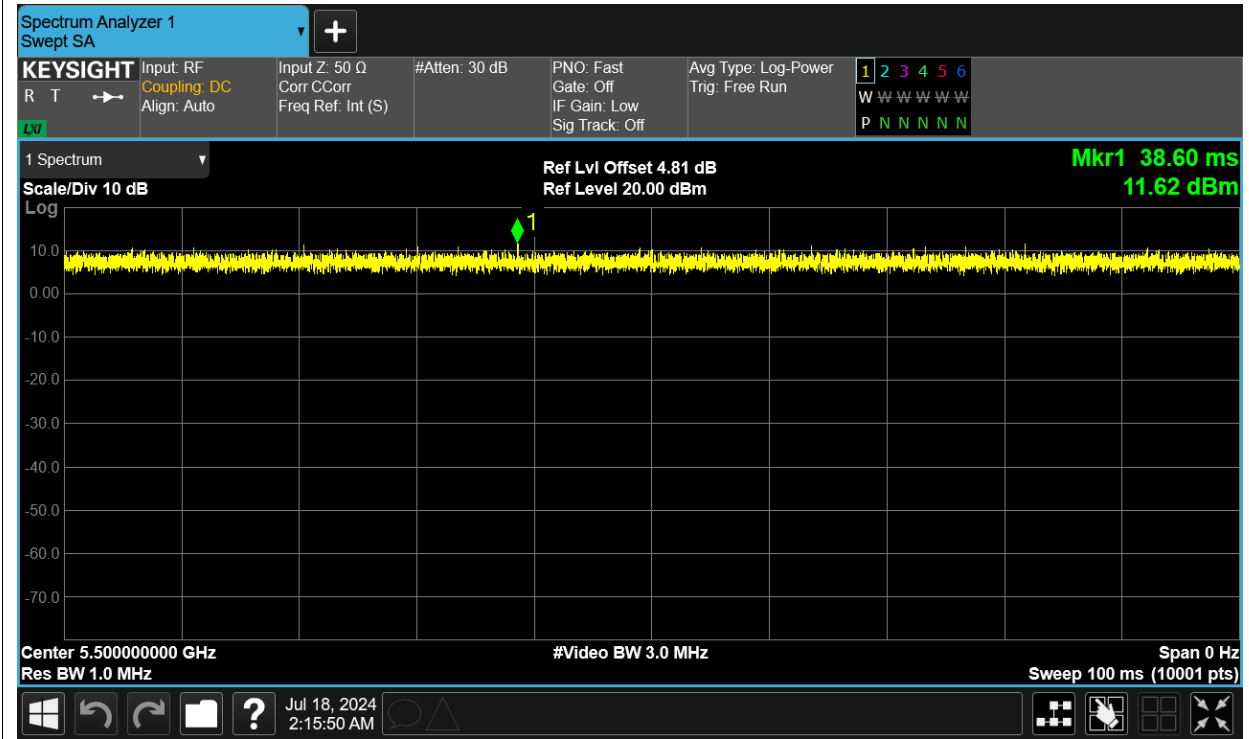


**Duty Cycle**

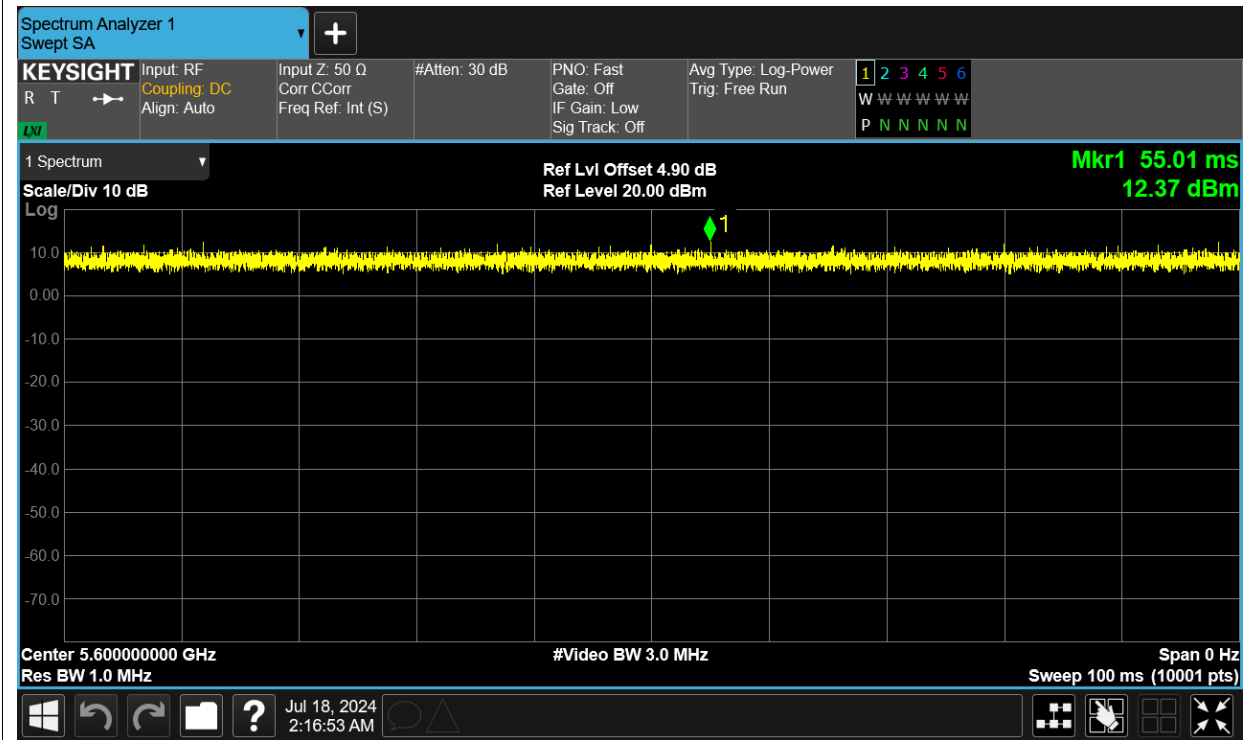
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	ANT13	100	0
NVNT	a	5600	ANT13	100	0
NVNT	a	5700	ANT13	100	0
NVNT	ac20	5500	ANT13	100	0
NVNT	ac20	5600	ANT13	100	0
NVNT	ac20	5700	ANT13	100	0
NVNT	ac40	5510	ANT13	100	0
NVNT	ac40	5590	ANT13	100	0
NVNT	ac40	5670	ANT13	100	0
NVNT	ac80	5530	ANT13	100	0
NVNT	ac80	5610	ANT13	100	0
NVNT	n20	5500	ANT13	100	0
NVNT	n20	5600	ANT13	100	0
NVNT	n20	5700	ANT13	100	0
NVNT	n40	5510	ANT13	100	0
NVNT	n40	5590	ANT13	100	0
NVNT	n40	5670	ANT13	100	0

Test Graphs

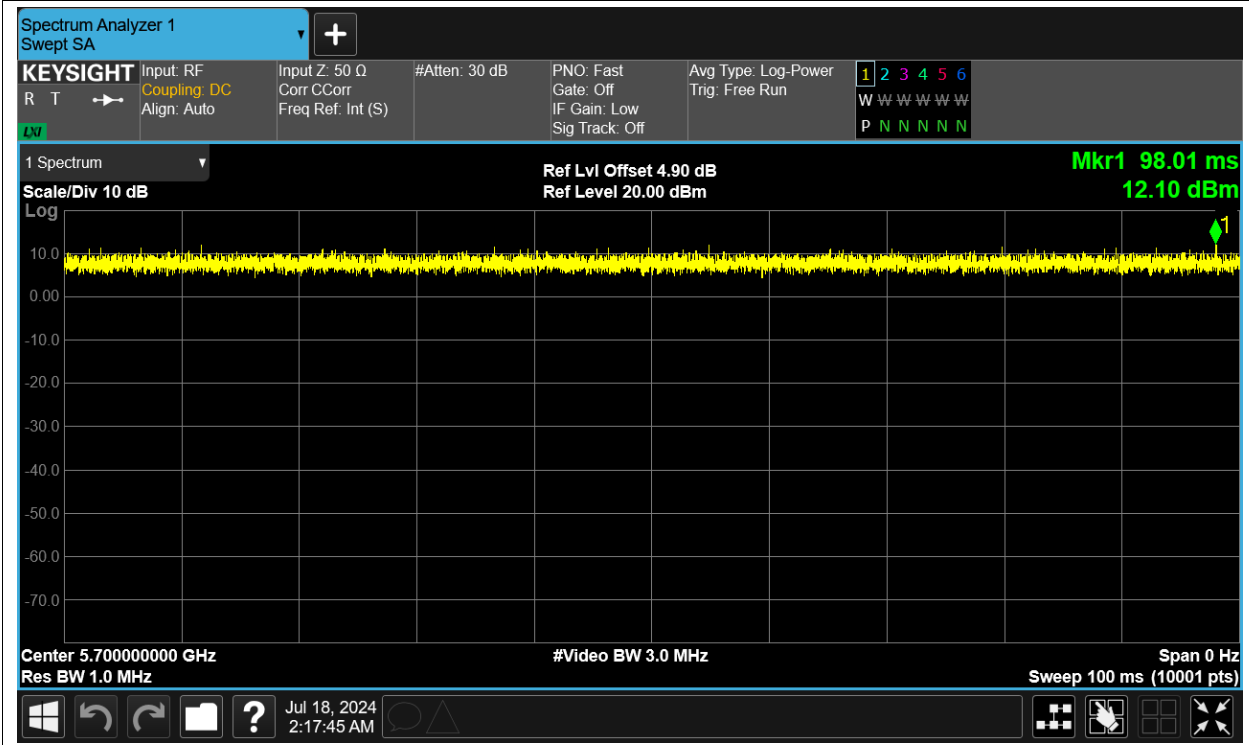
Duty Cycle NVNT a 5500MHz ANT13



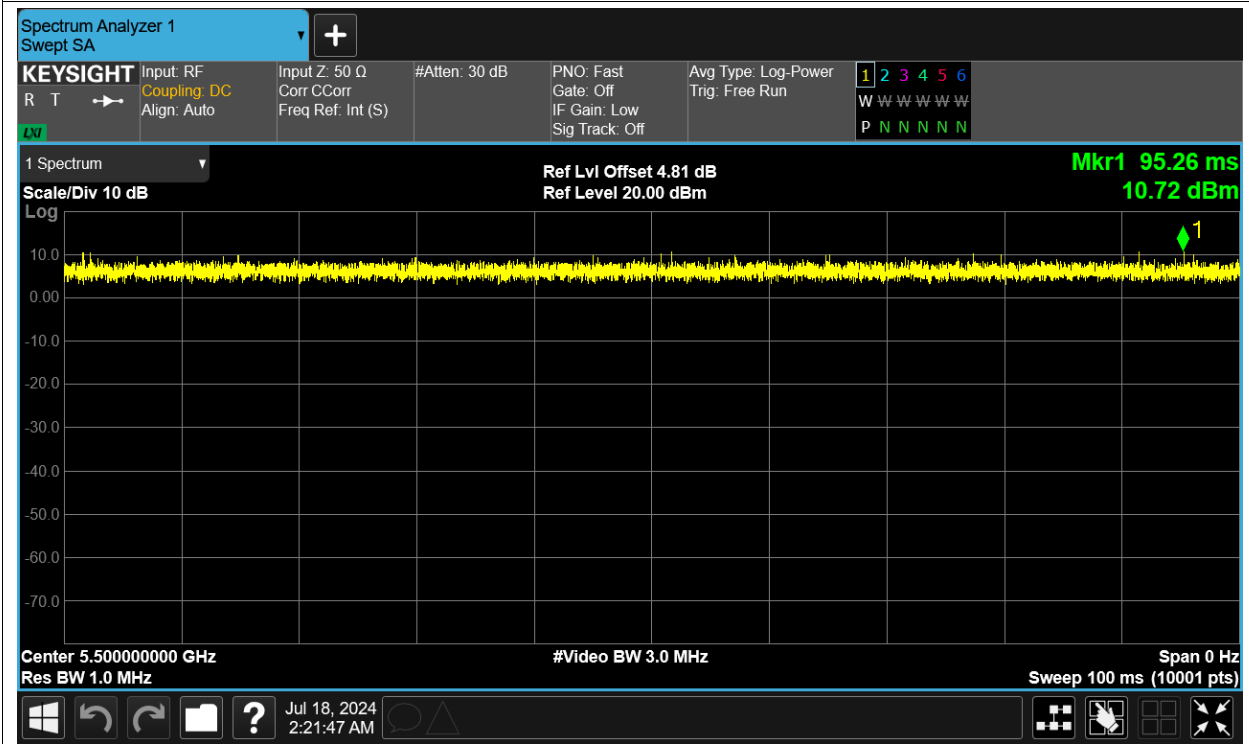
Duty Cycle NVNT a 5600MHz ANT13



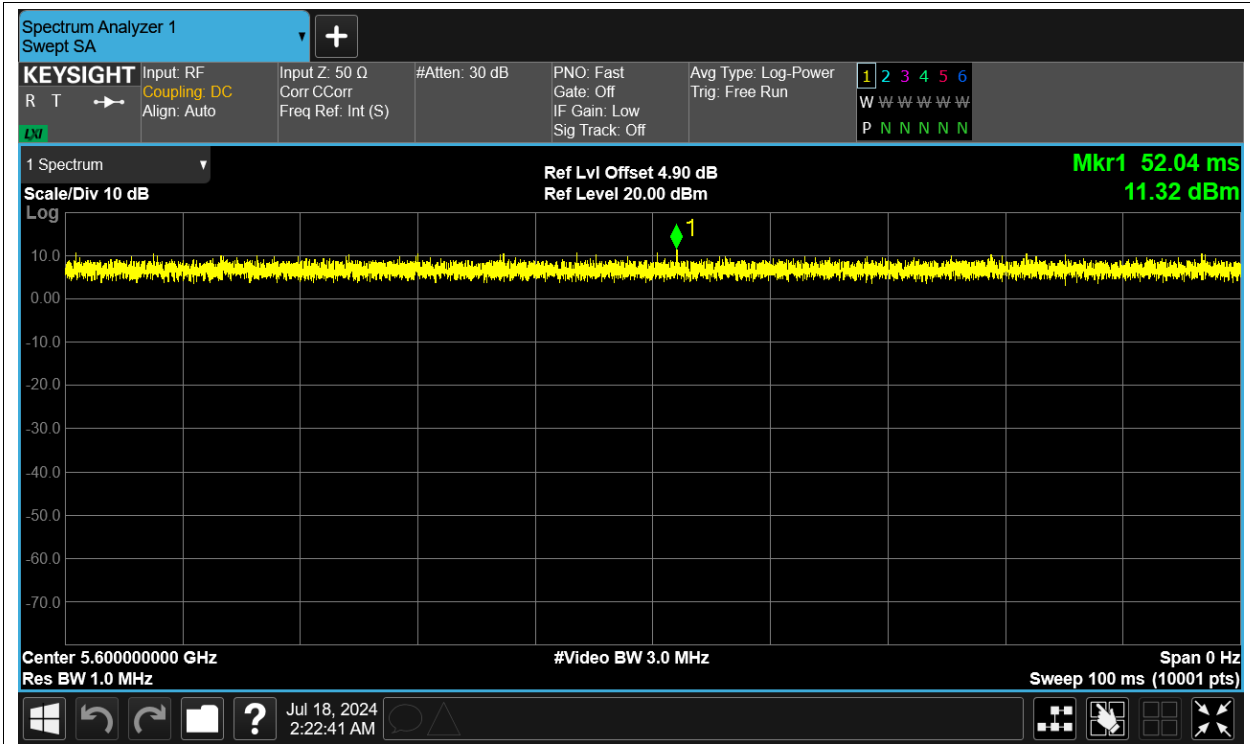
Duty Cycle NVNT a 5700MHz ANT13



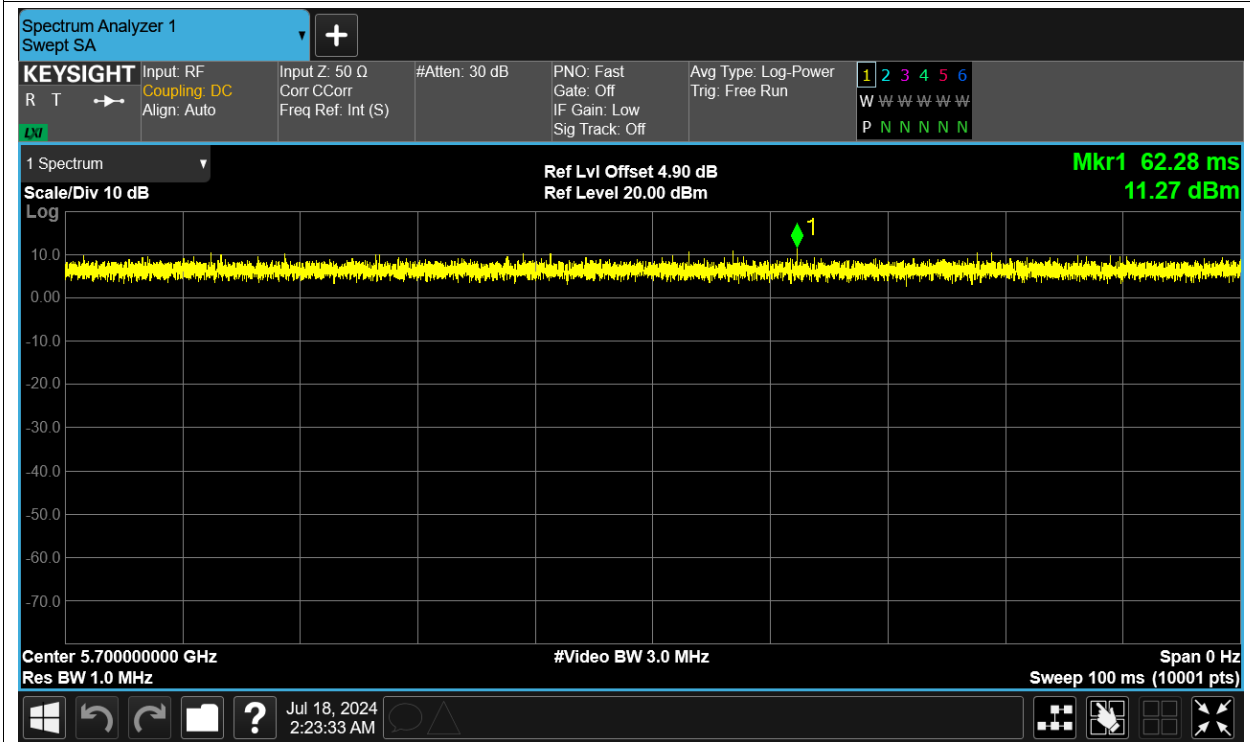
Duty Cycle NVNT ac20 5500MHz ANT13



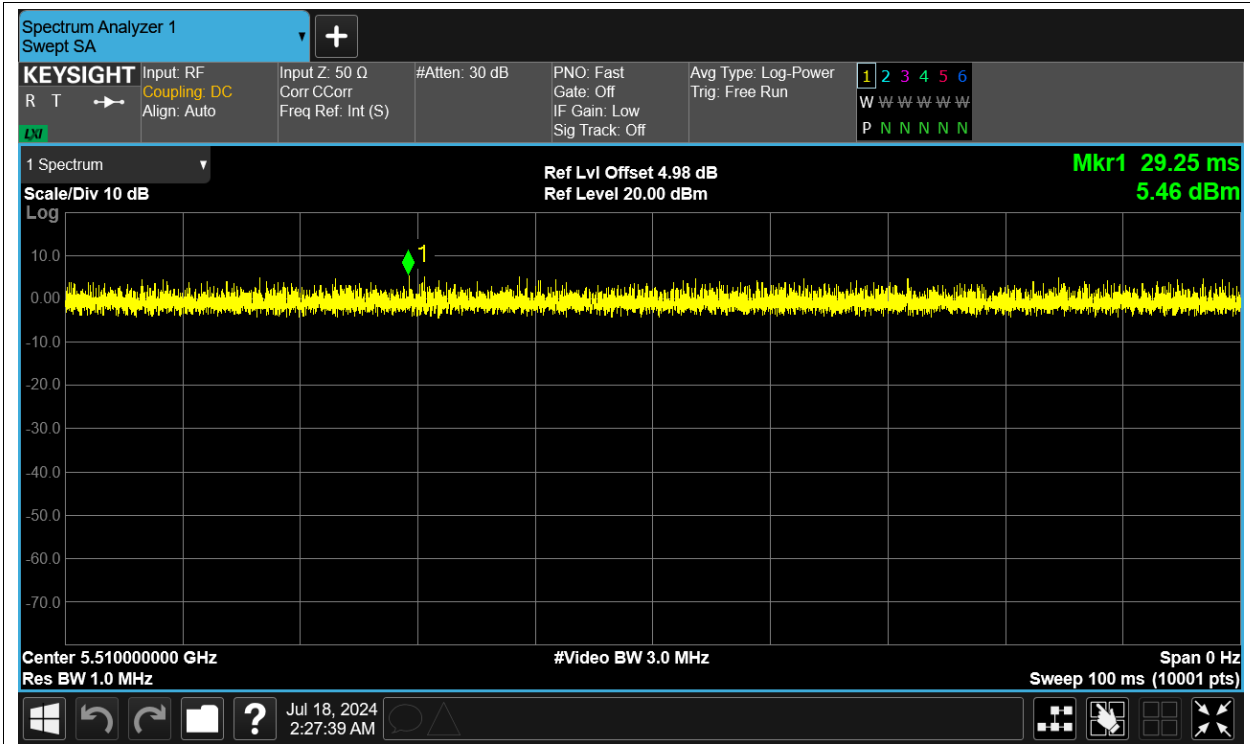
Duty Cycle NVNT ac20 5600MHz ANT13



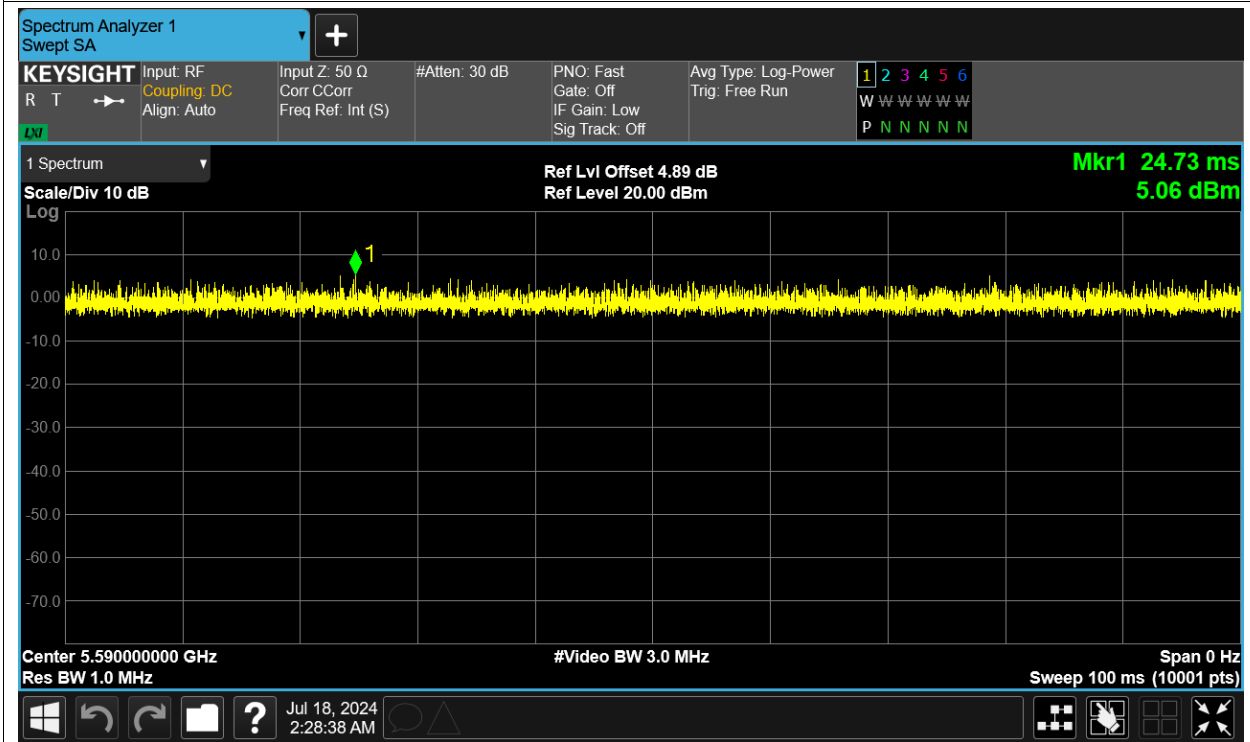
Duty Cycle NVNT ac20 5700MHz ANT13



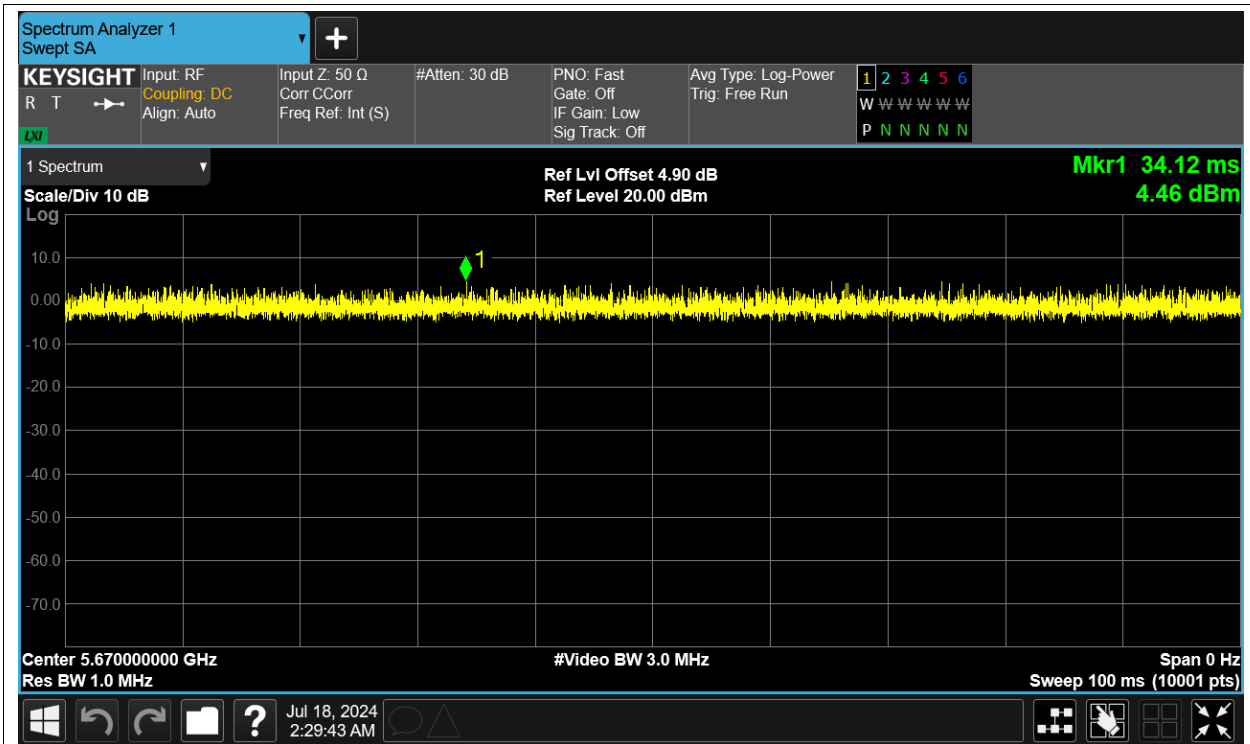
Duty Cycle NVNT ac40 5510MHz ANT13



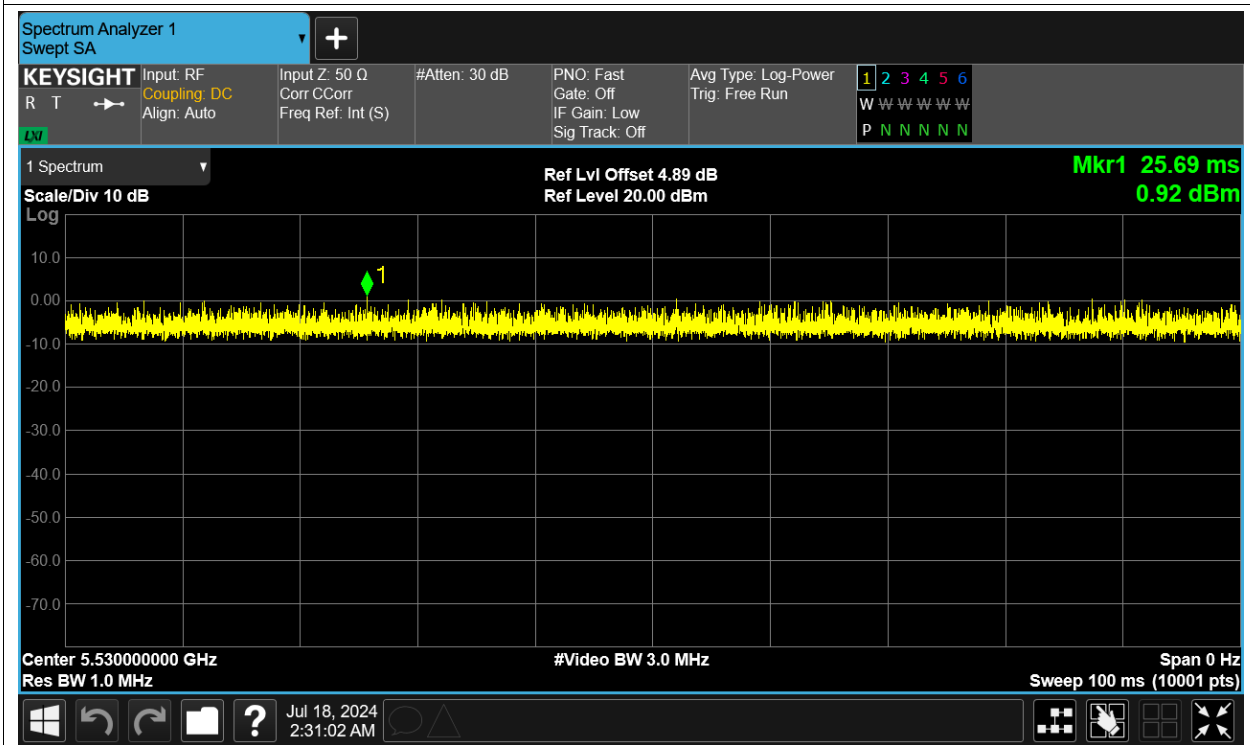
Duty Cycle NVNT ac40 5590MHz ANT13



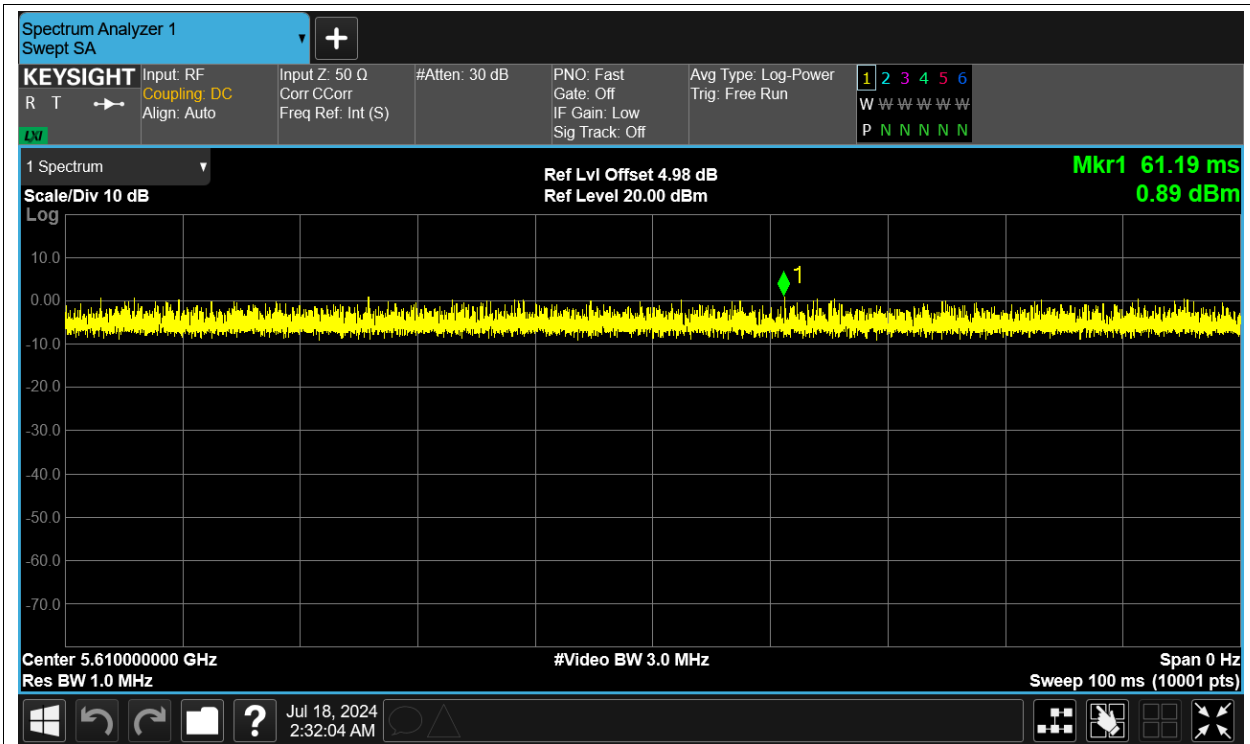
Duty Cycle NVNT ac40 5670MHz ANT13



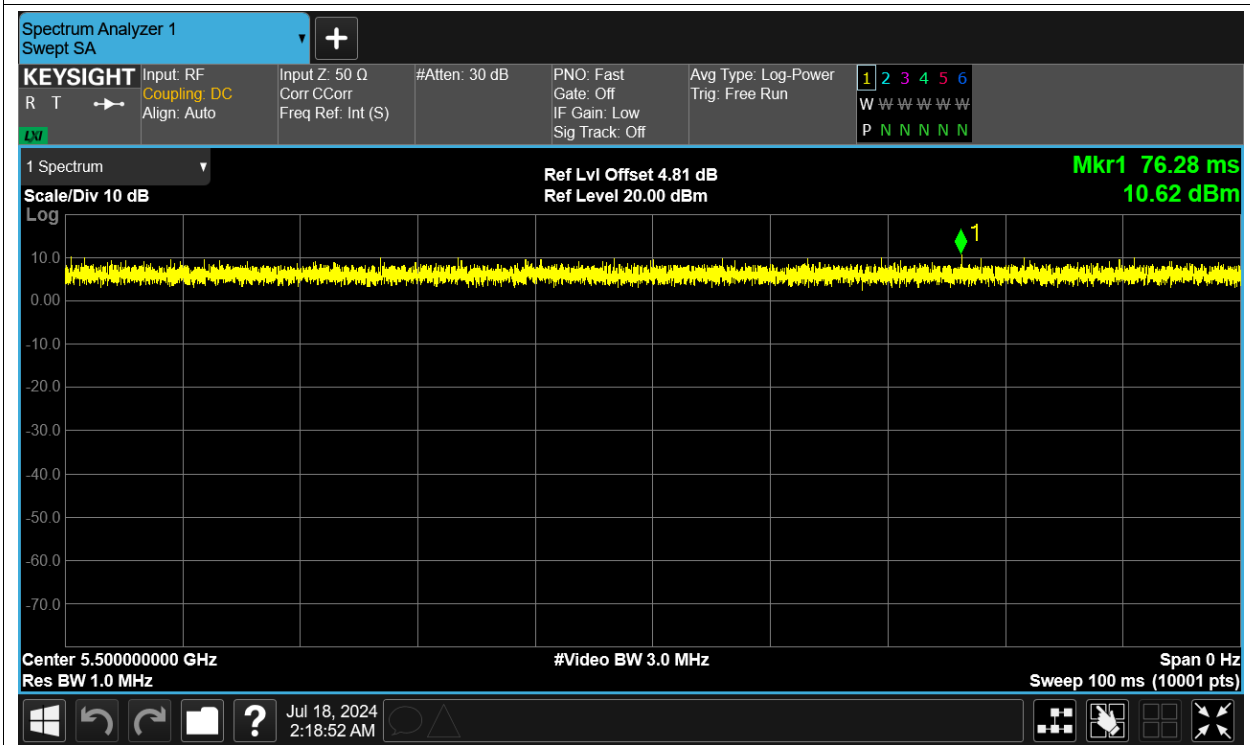
Duty Cycle NVNT ac80 5530MHz ANT13



Duty Cycle NVNT ac80 5610MHz ANT13

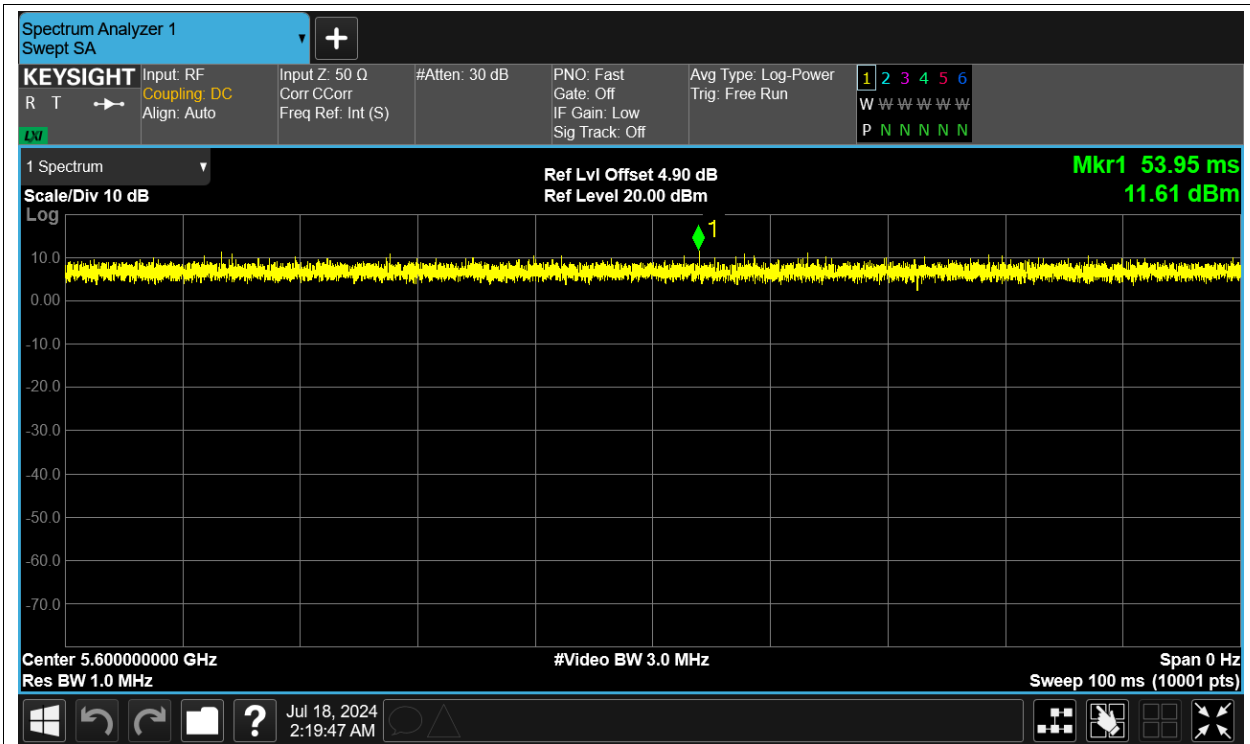


Duty Cycle NVNT n20 5500MHz ANT13

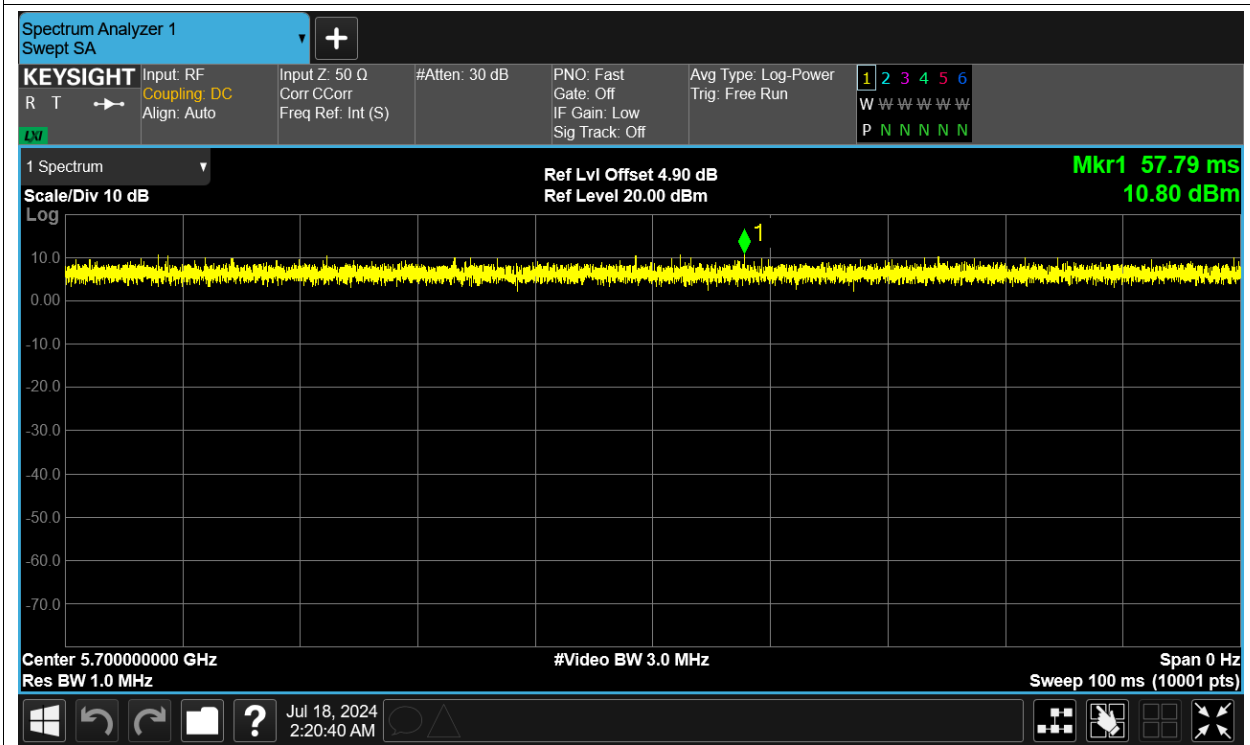


Duty Cycle NVNT n20 5600MHz ANT13

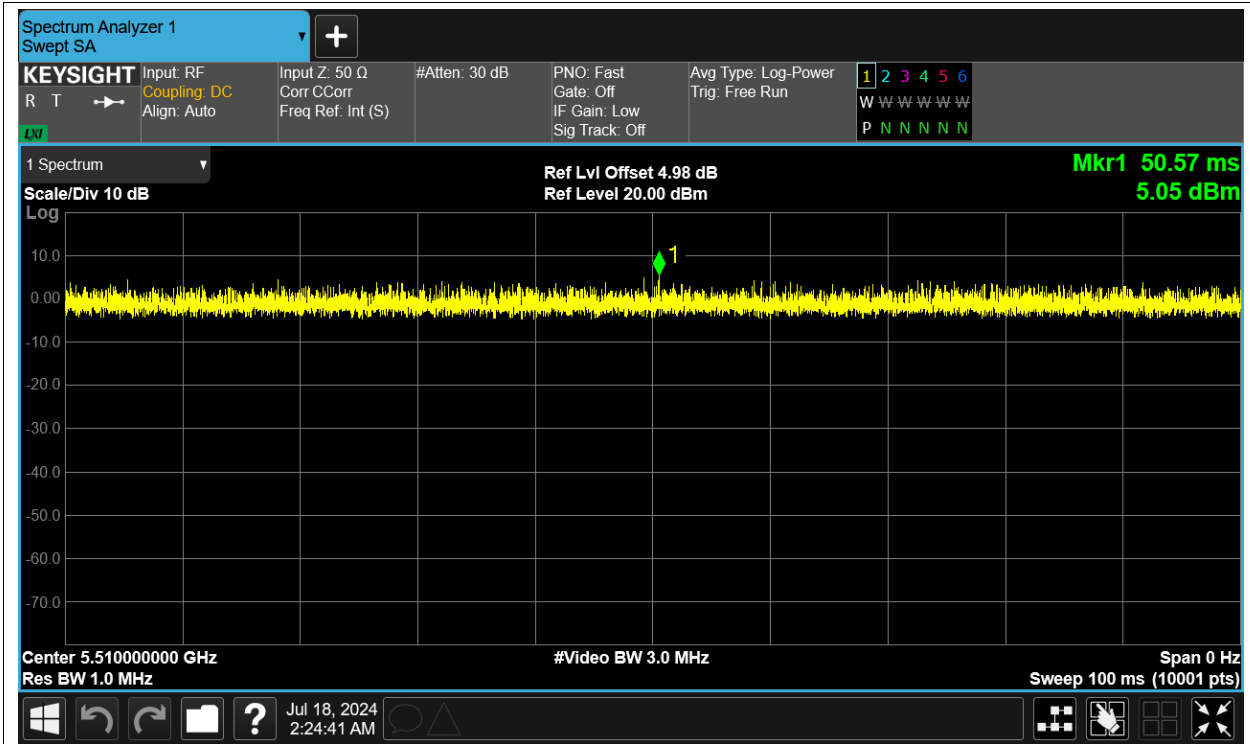




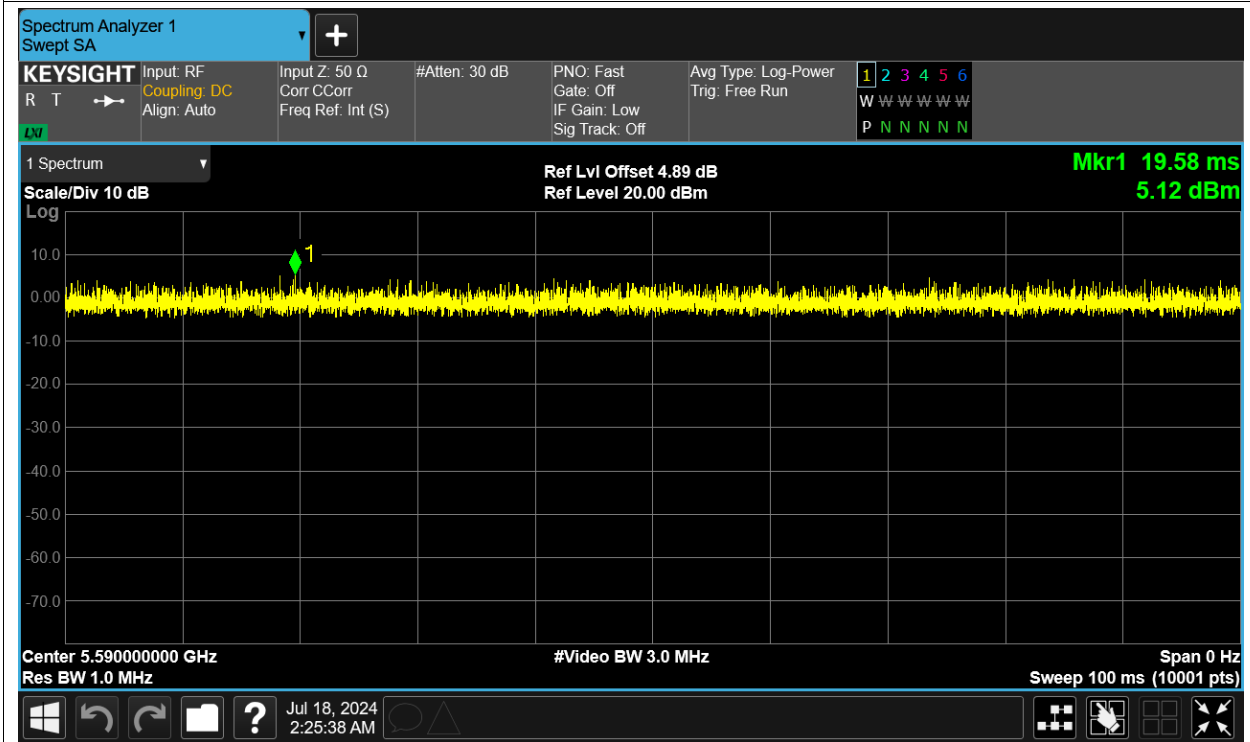
Duty Cycle NVNT n20 5700MHz ANT13



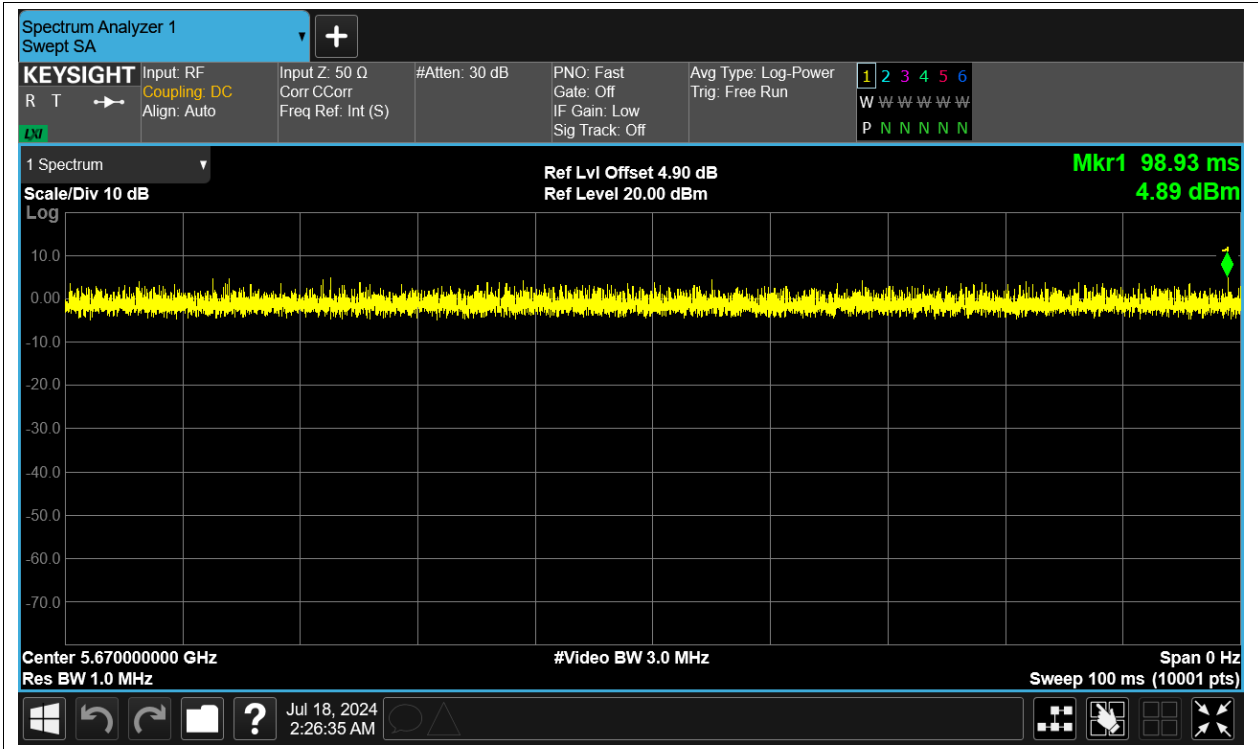
Duty Cycle NVNT n40 5510MHz ANT13



Duty Cycle NVNT n40 5590MHz ANT13



Duty Cycle NVNT n40 5670MHz ANT13



## Maximum Conducted Output Power

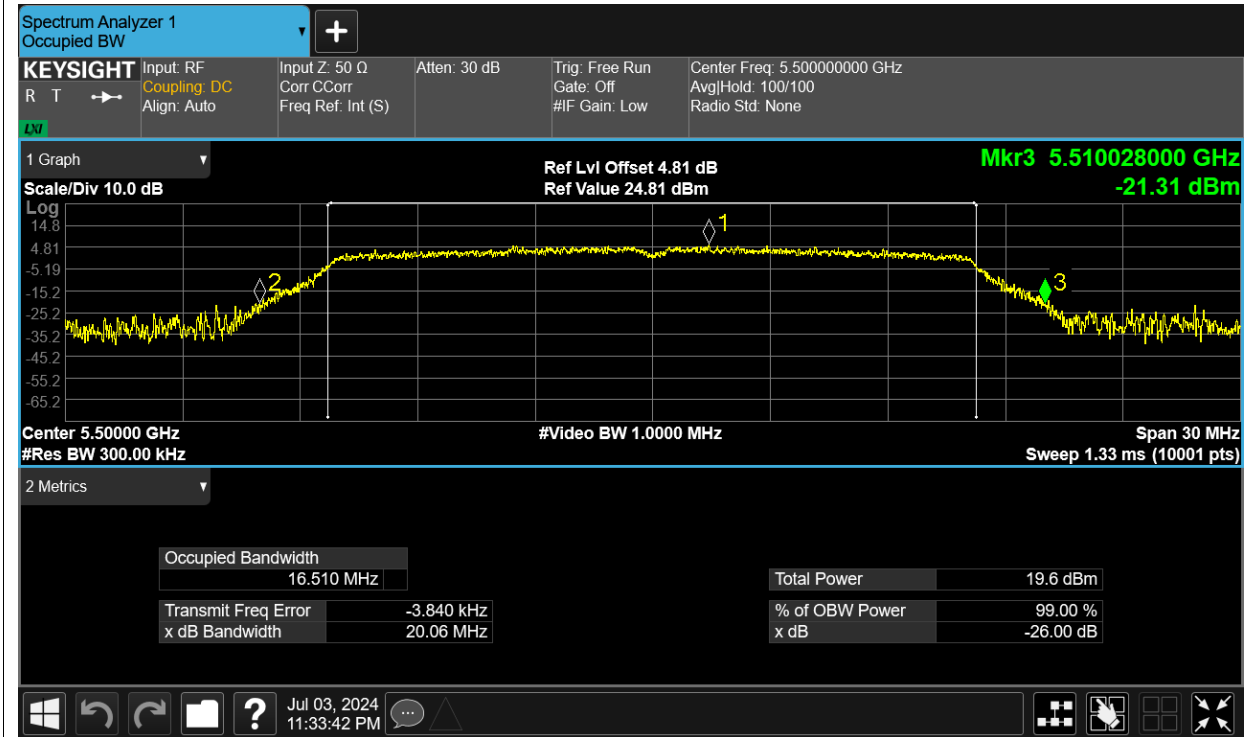
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	ANT13	14.27	0	14.27	24	Pass
NVNT	a	5600	ANT13	14.87	0	14.87	24	Pass
NVNT	a	5700	ANT13	14.64	0	14.64	24	Pass
NVNT	ac20	5500	ANT13	13.39	0	13.39	24	Pass
NVNT	ac20	5600	ANT13	13.74	0	13.74	24	Pass
NVNT	ac20	5700	ANT13	13.41	0	13.41	24	Pass
NVNT	ac40	5510	ANT13	12.68	0	12.68	24	Pass
NVNT	ac40	5590	ANT13	12.41	0	12.41	24	Pass
NVNT	ac40	5670	ANT13	11.98	0	11.98	24	Pass
NVNT	ac80	5530	ANT13	11.33	0	11.33	24	Pass
NVNT	ac80	5610	ANT13	11.36	0	11.36	24	Pass
NVNT	n20	5500	ANT13	13.29	0	13.29	24	Pass
NVNT	n20	5600	ANT13	13.75	0	13.75	24	Pass
NVNT	n20	5700	ANT13	13.41	0	13.41	24	Pass
NVNT	n40	5510	ANT13	12.38	0	12.38	24	Pass
NVNT	n40	5590	ANT13	12.5	0	12.5	24	Pass
NVNT	n40	5670	ANT13	12.16	0	12.16	24	Pass

## -26dB Bandwidth

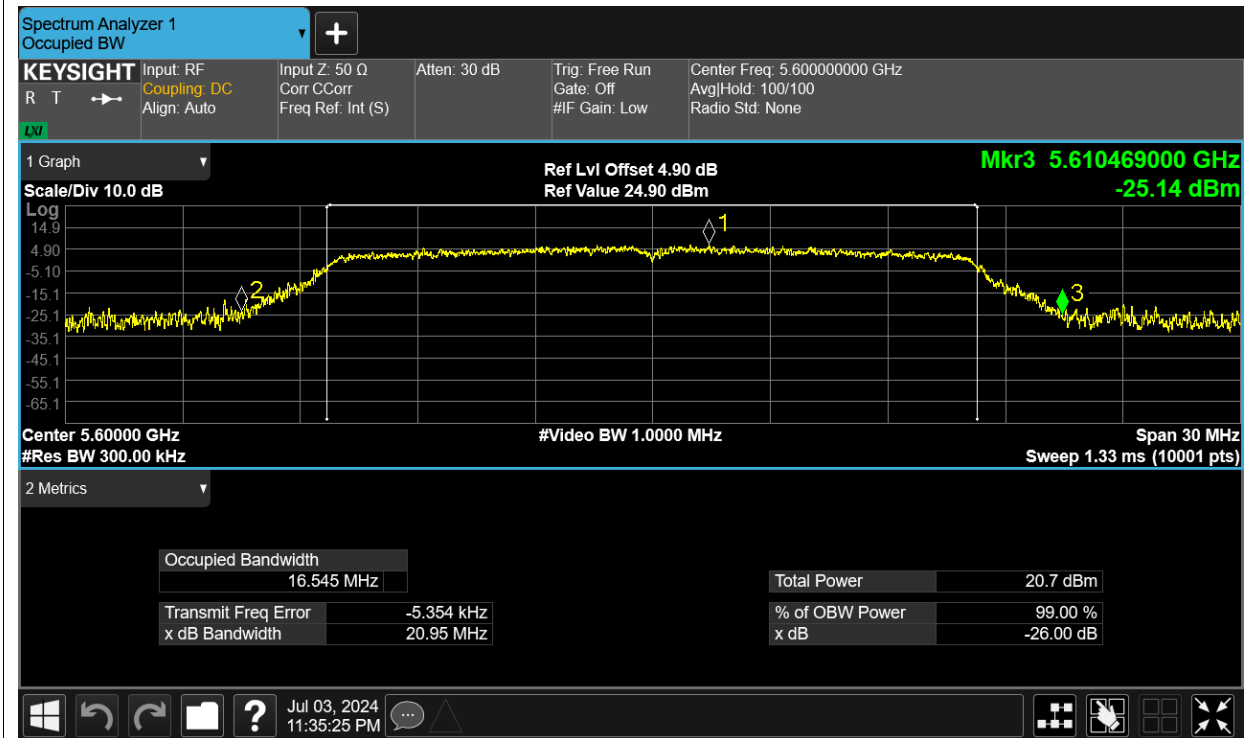
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	ANT13	20.063
NVNT	a	5600	ANT13	20.948
NVNT	a	5700	ANT13	20.269
NVNT	ac20	5500	ANT13	24.223
NVNT	ac20	5600	ANT13	25.635
NVNT	ac20	5700	ANT13	24.435
NVNT	ac40	5510	ANT13	39.718
NVNT	ac40	5590	ANT13	39.967
NVNT	ac40	5670	ANT13	45.295
NVNT	ac80	5530	ANT13	79.007
NVNT	ac80	5610	ANT13	79.579
NVNT	n20	5500	ANT13	26.627
NVNT	n20	5600	ANT13	27.605
NVNT	n20	5700	ANT13	27.152
NVNT	n40	5510	ANT13	40.046
NVNT	n40	5590	ANT13	48.638
NVNT	n40	5670	ANT13	46.112

Test Graphs

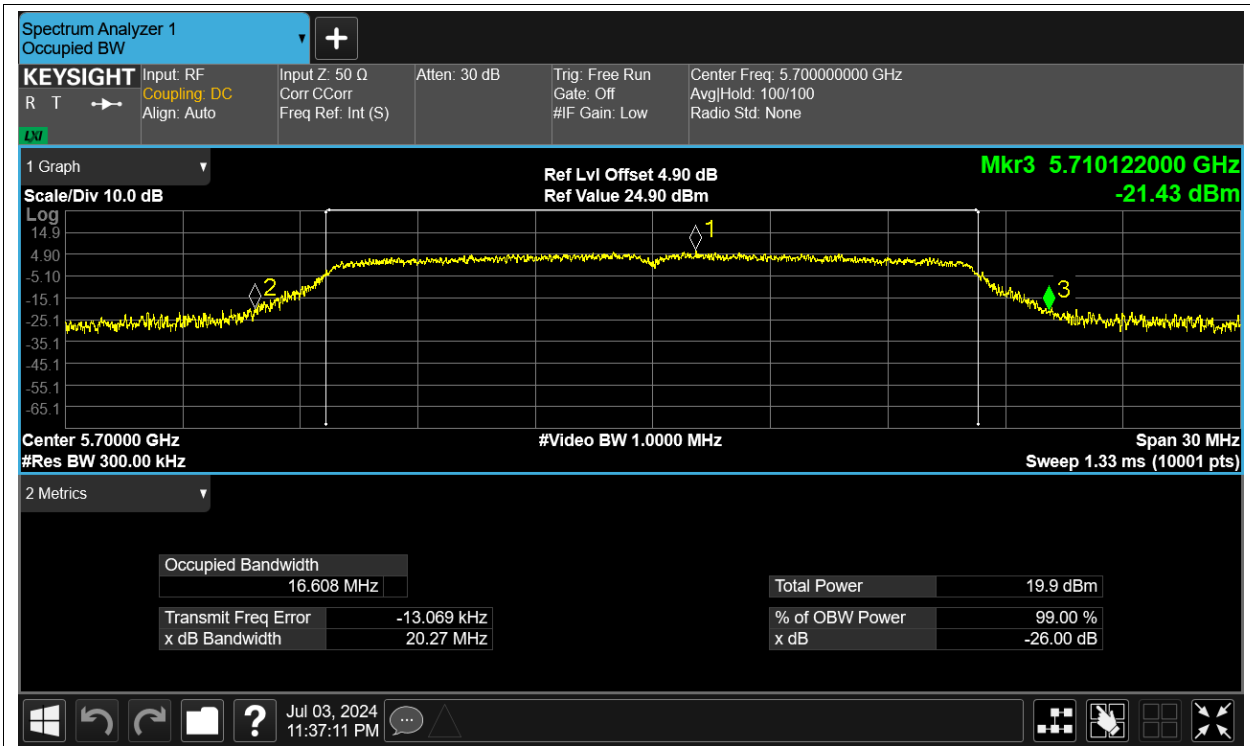
-26dB Bandwidth NVNT a 5500MHz ANT13



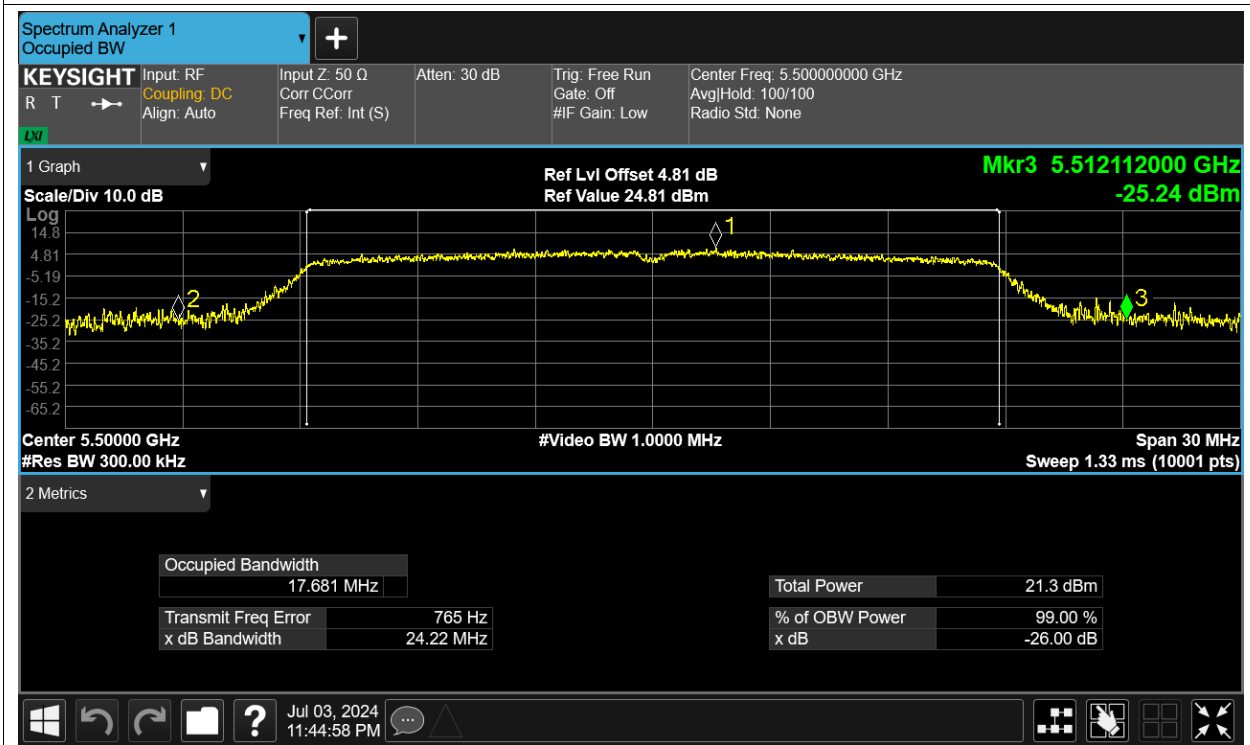
-26dB Bandwidth NVNT a 5600MHz ANT13



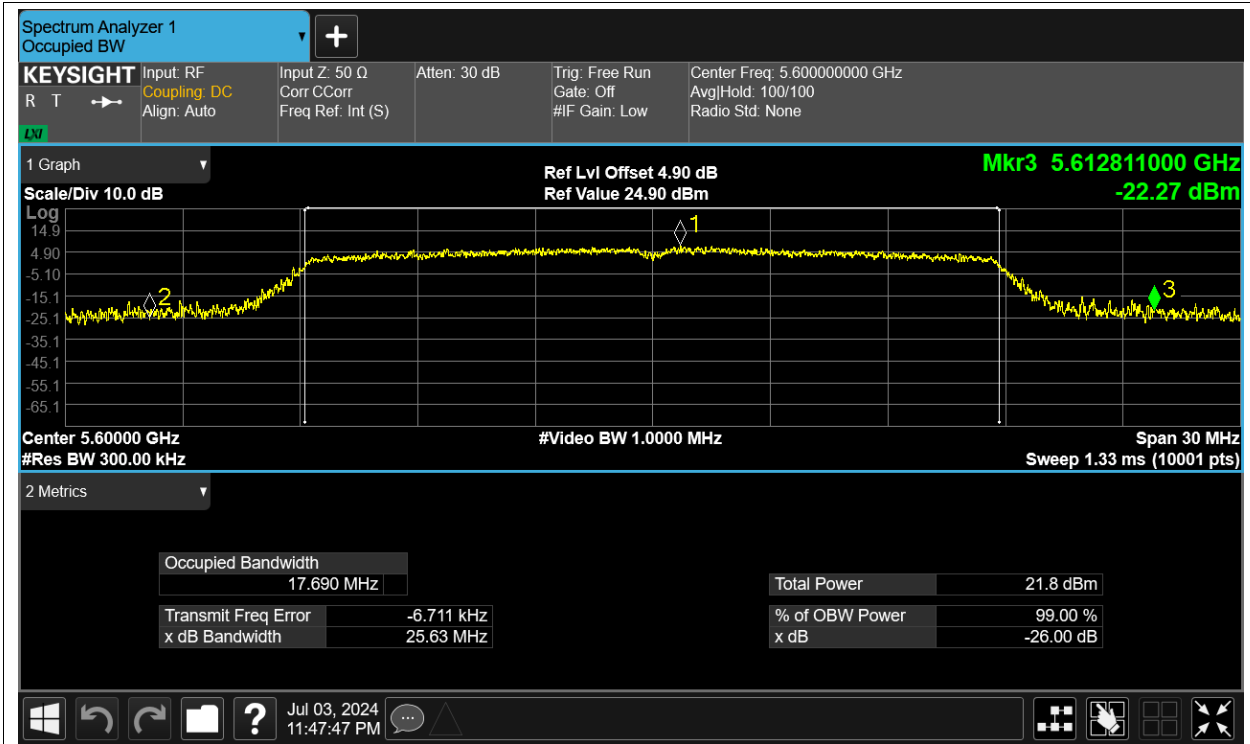
-26dB Bandwidth NVNT a 5700MHz ANT13



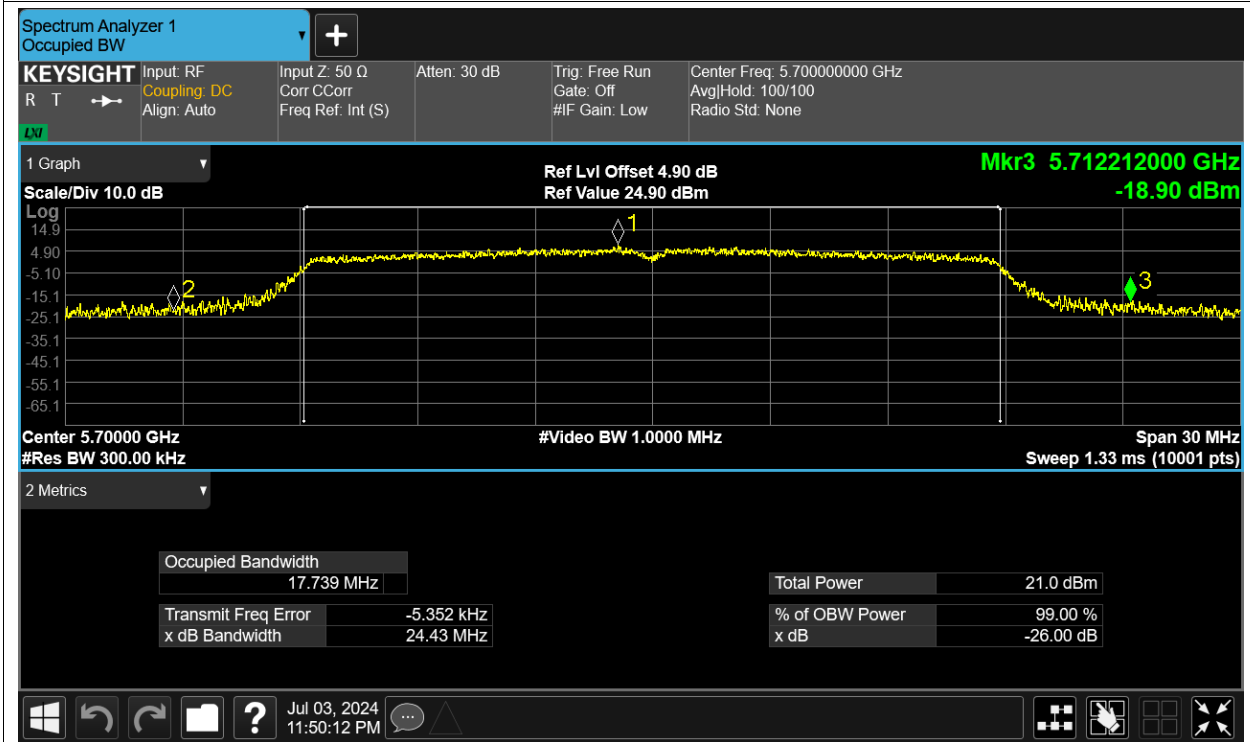
-26dB Bandwidth NVNT ac20 5500MHz ANT13



-26dB Bandwidth NVNT ac20 5600MHz ANT13

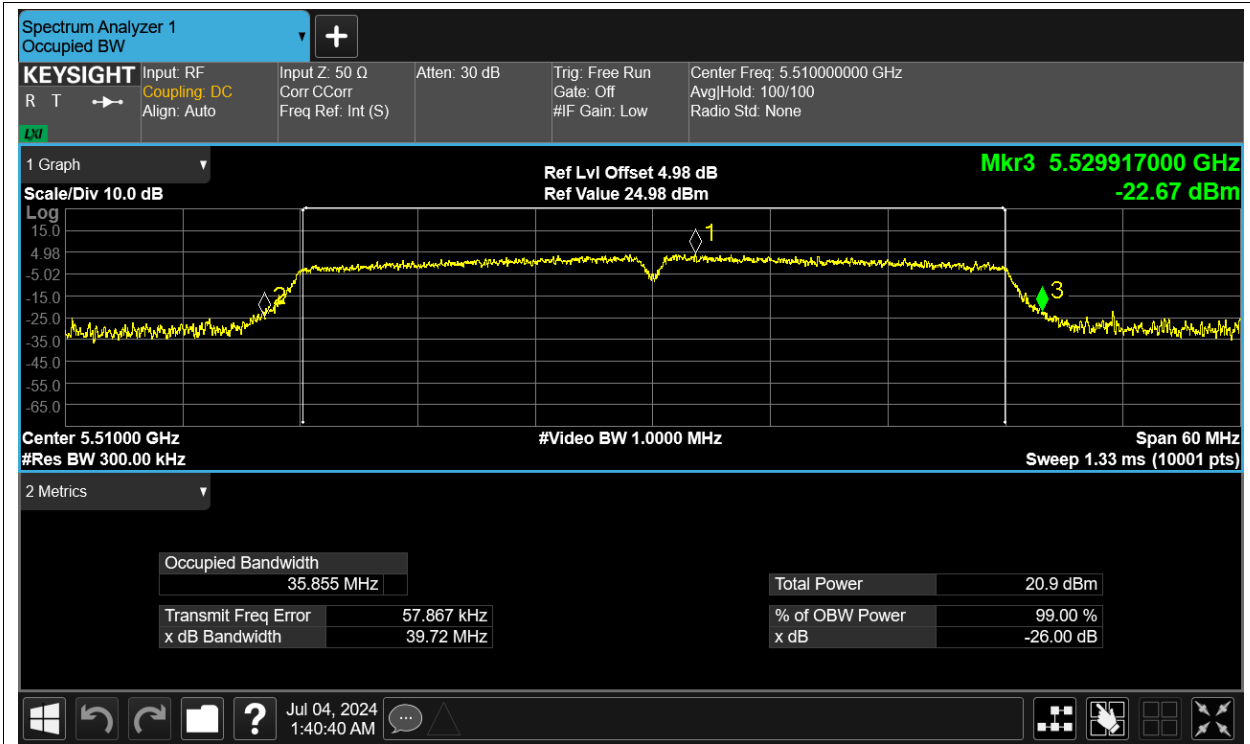


-26dB Bandwidth NVNT ac20 5700MHz ANT13

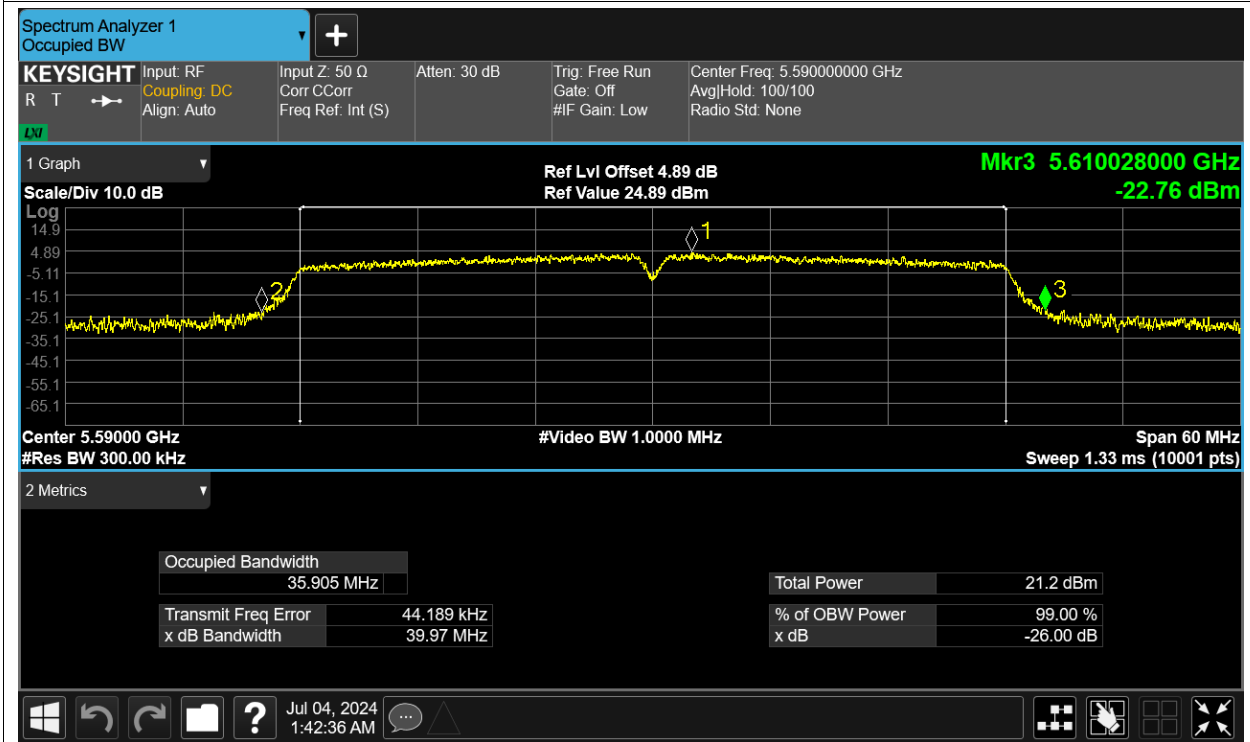


-26dB Bandwidth NVNT ac40 5510MHz ANT13

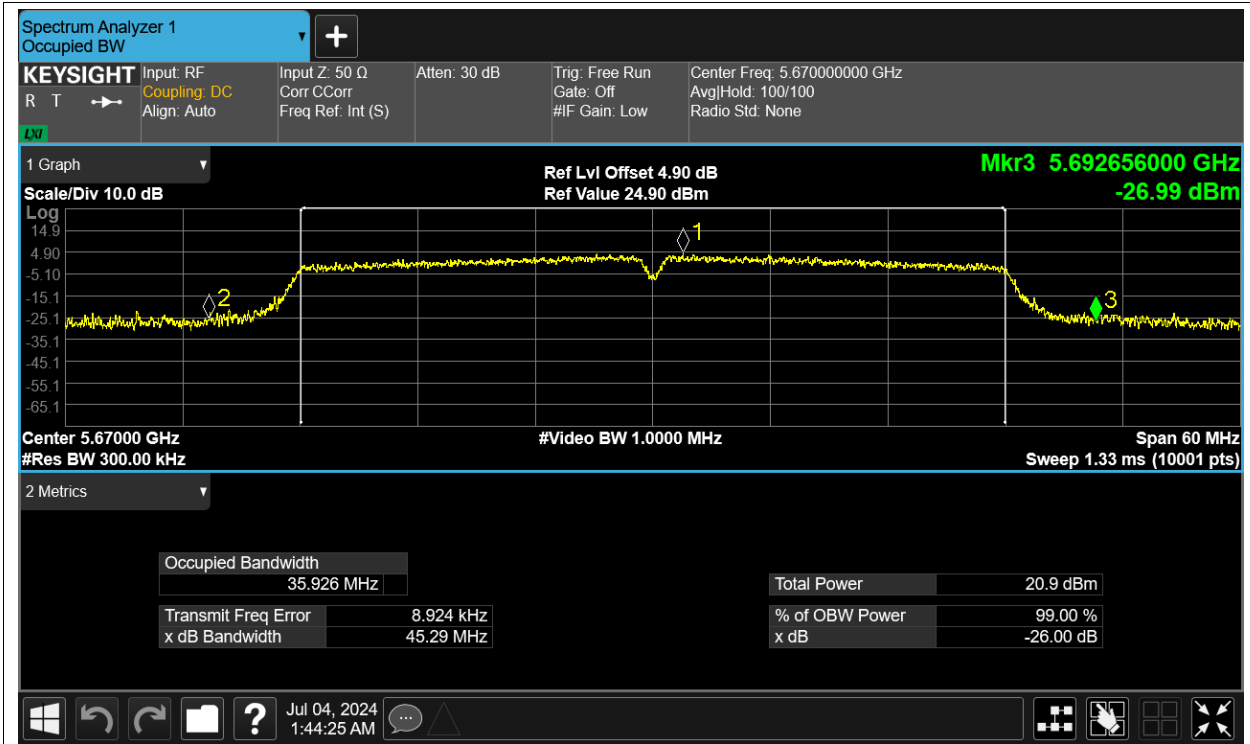




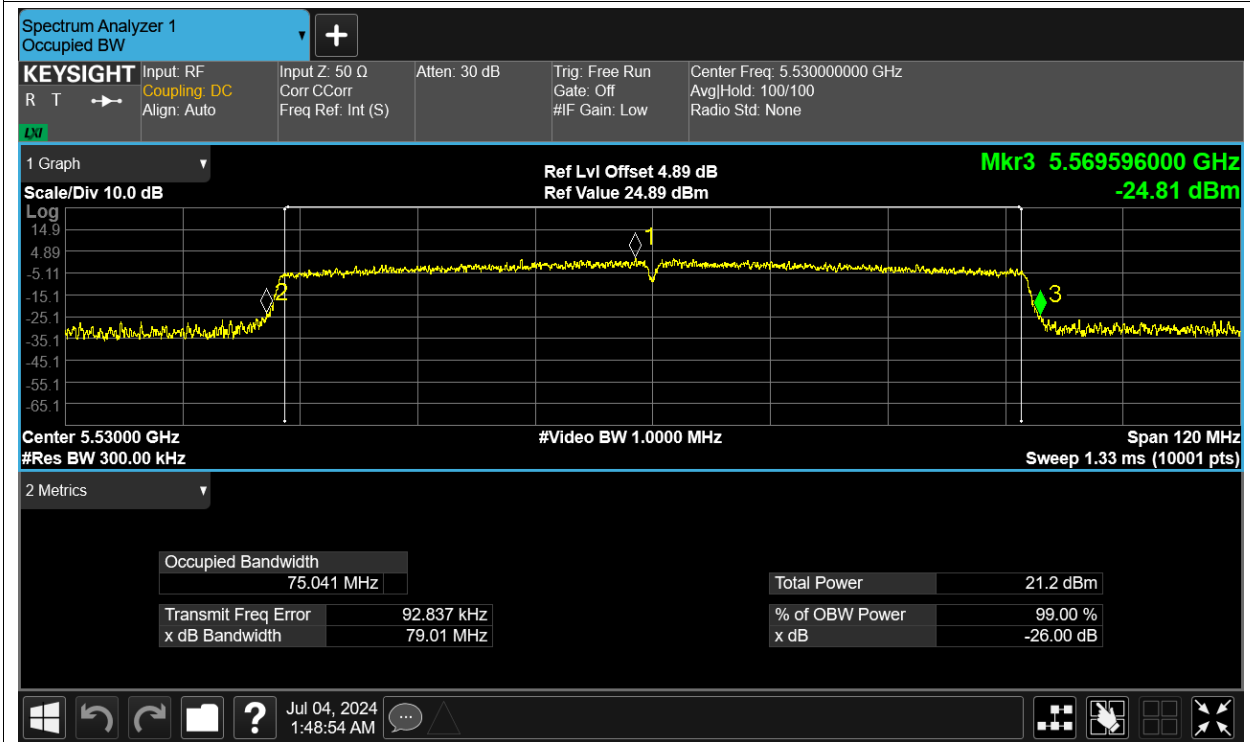
-26dB Bandwidth NVNT ac40 5590MHz ANT13



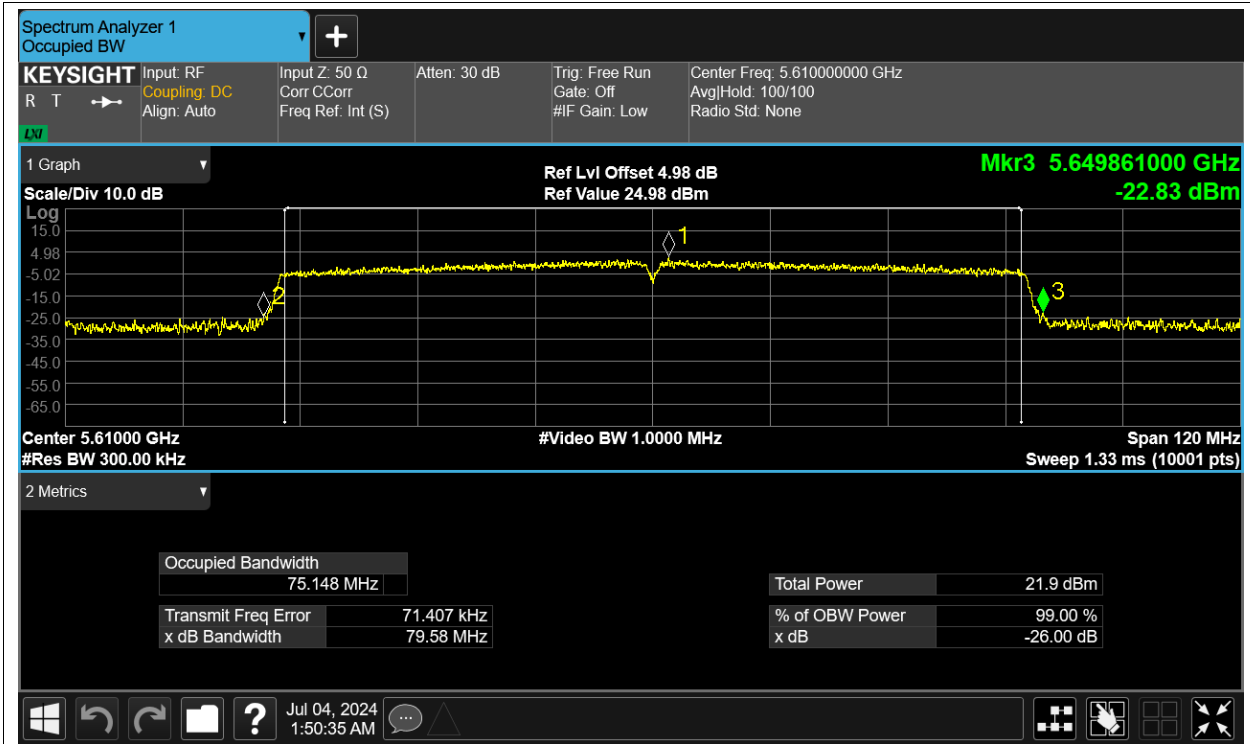
-26dB Bandwidth NVNT ac40 5670MHz ANT13



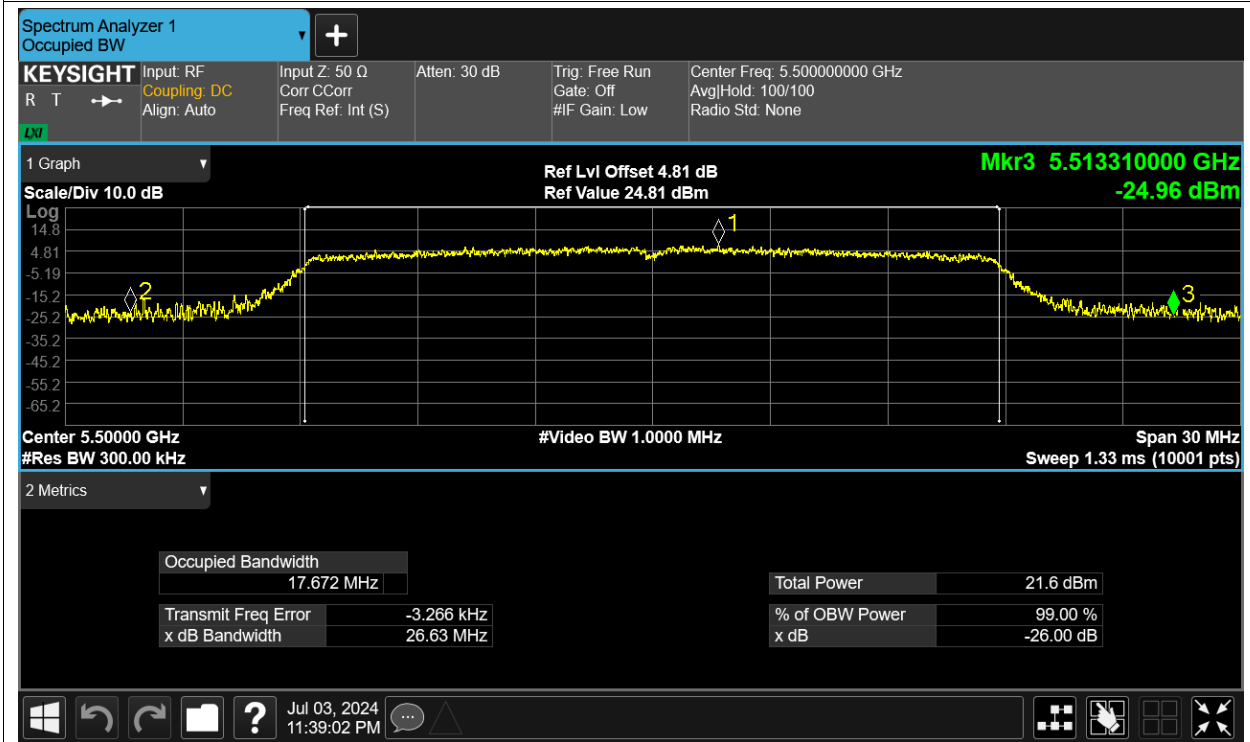
-26dB Bandwidth NVNT ac80 5530MHz ANT13



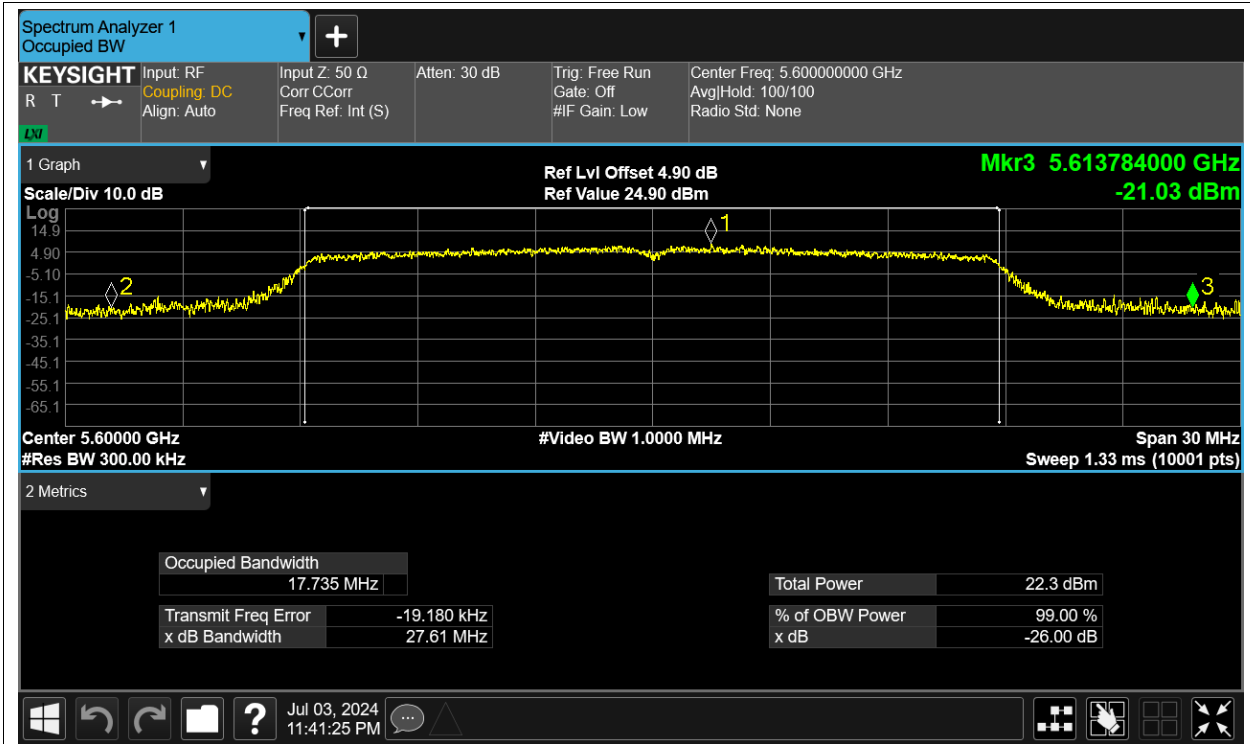
-26dB Bandwidth NVNT ac80 5610MHz ANT13



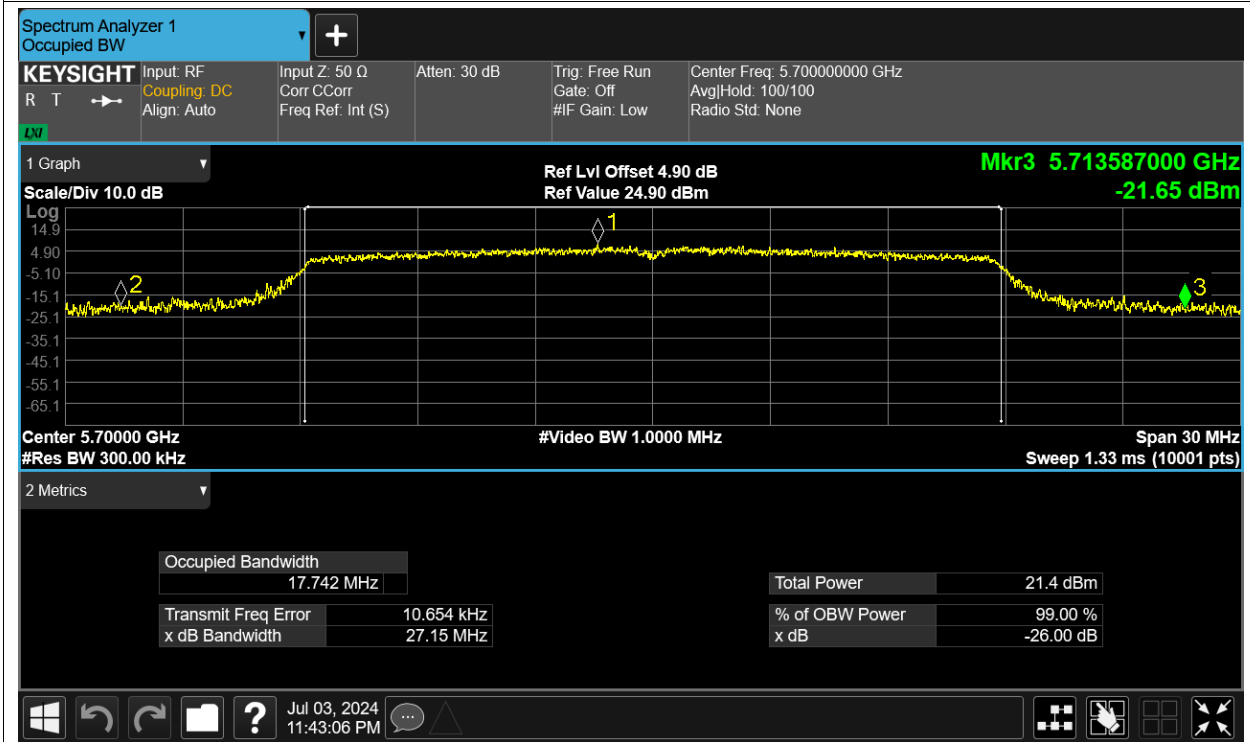
-26dB Bandwidth NVNT n20 5500MHz ANT13



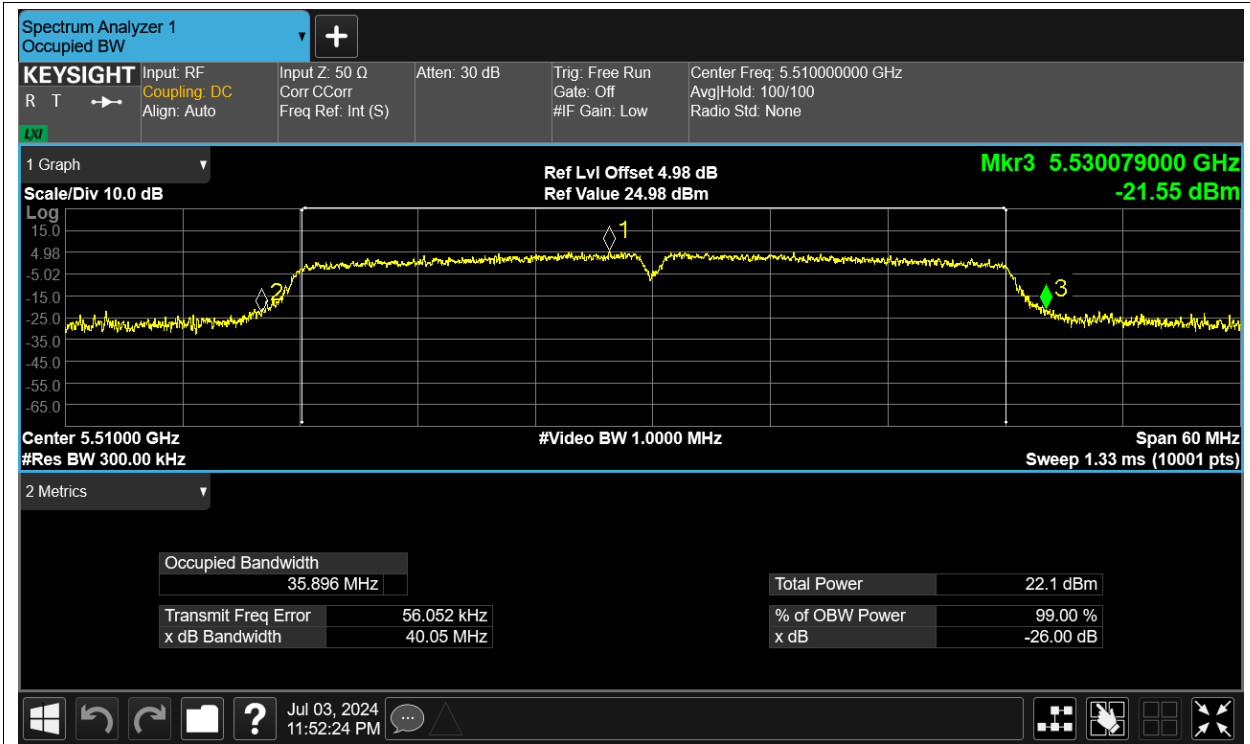
-26dB Bandwidth NVNT n20 5600MHz ANT13



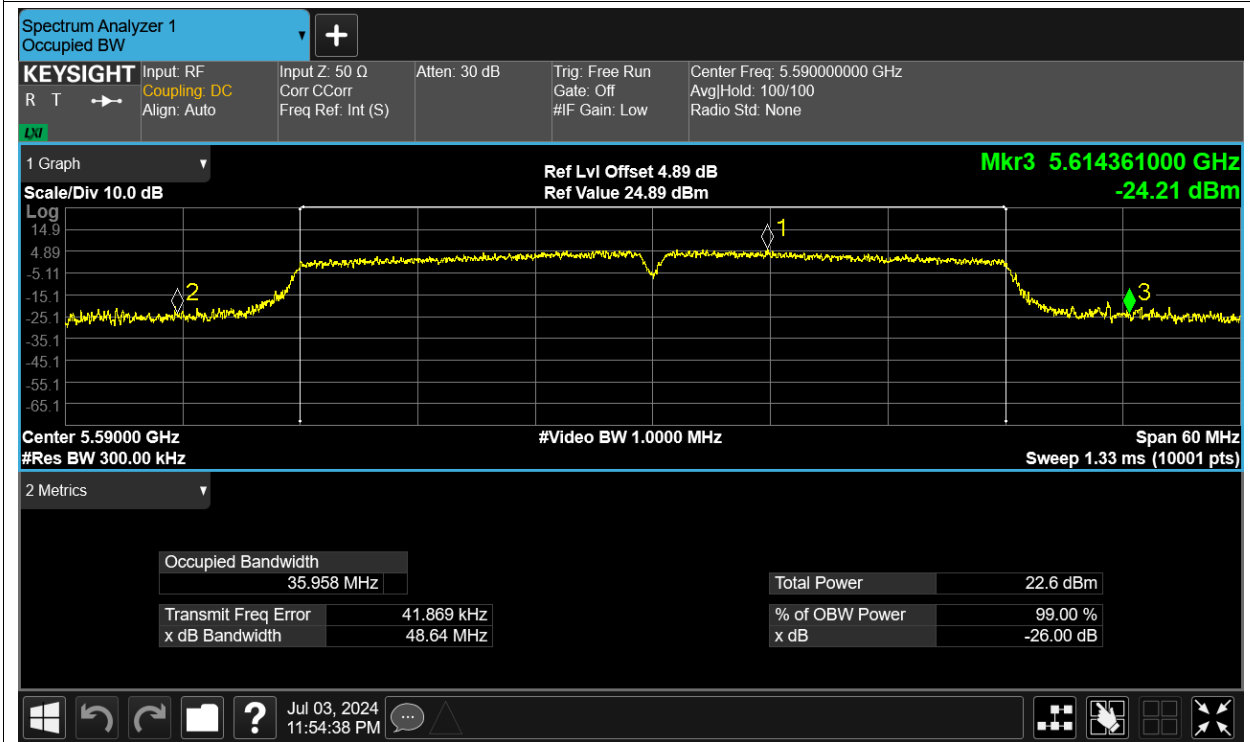
-26dB Bandwidth NVNT n20 5700MHz ANT13



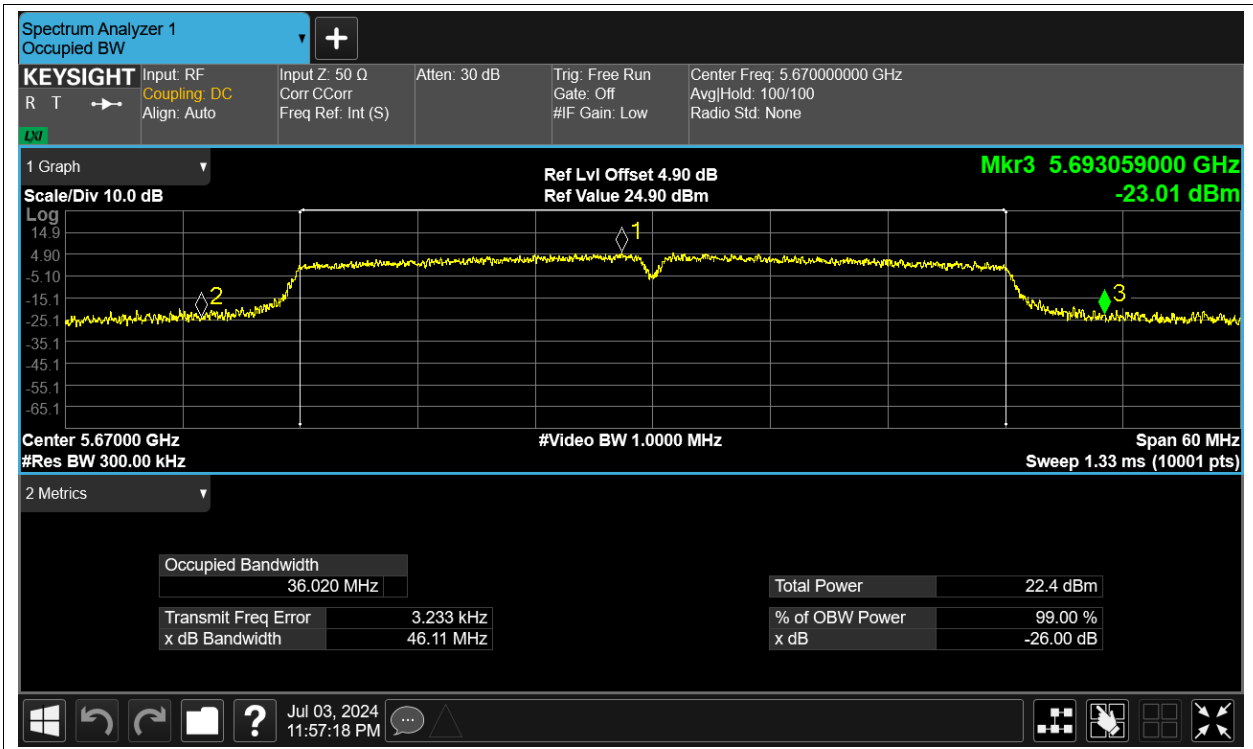
-26dB Bandwidth NVNT n40 5510MHz ANT13



-26dB Bandwidth NVNT n40 5590MHz ANT13



-26dB Bandwidth NVNT n40 5670MHz ANT13

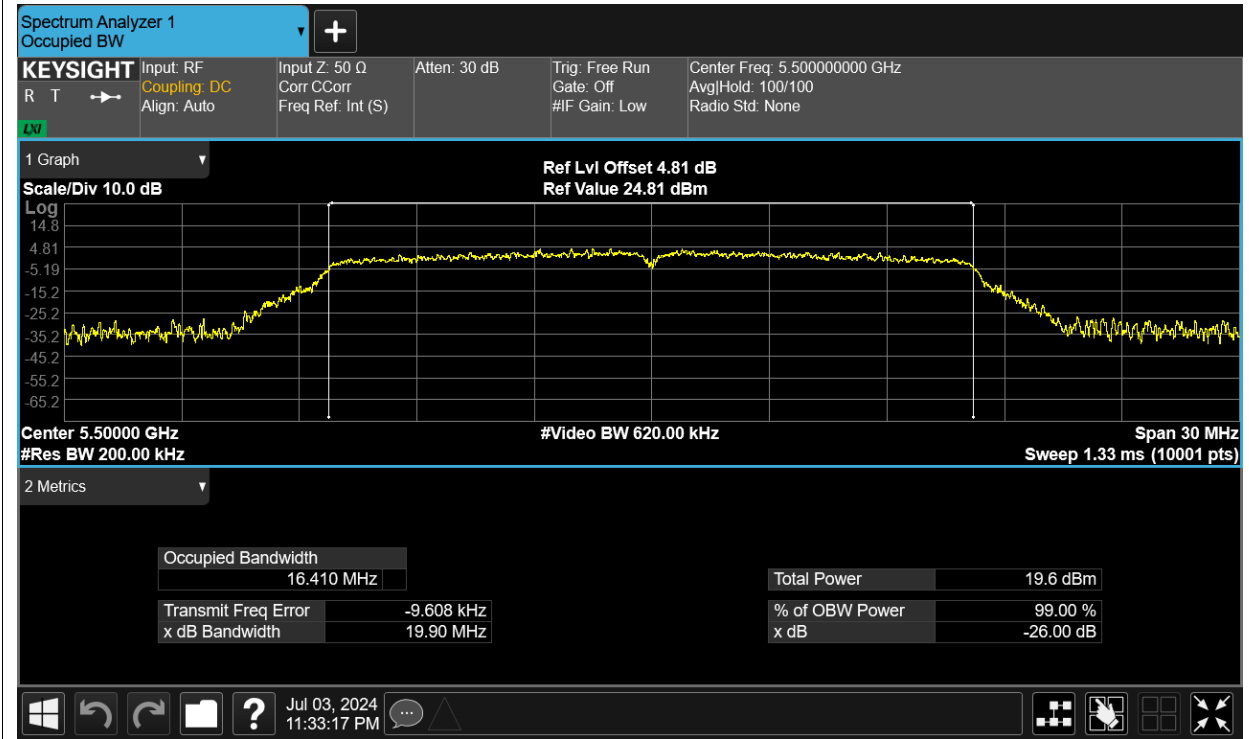


## Occupied Channel Bandwidth

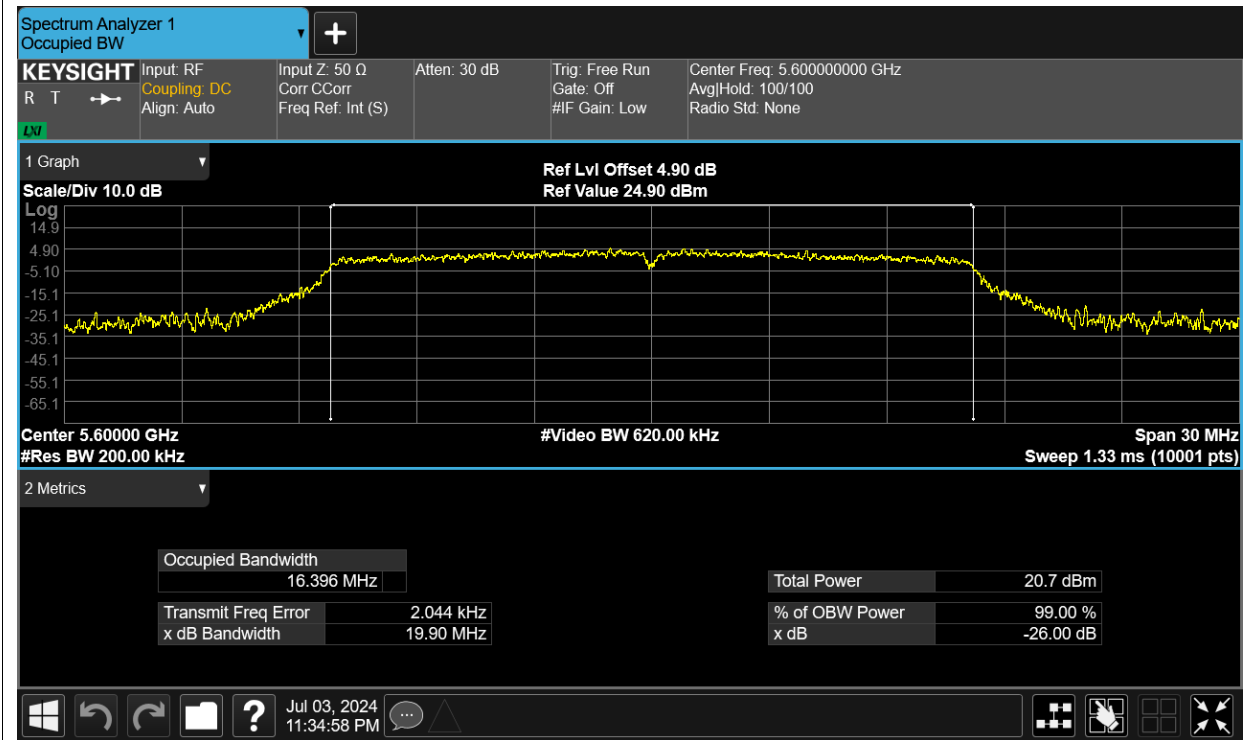
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	ANT13	16.41
NVNT	a	5600	ANT13	16.396
NVNT	a	5700	ANT13	16.488
NVNT	ac20	5500	ANT13	17.608
NVNT	ac20	5600	ANT13	17.6
NVNT	ac20	5700	ANT13	17.683
NVNT	ac40	5510	ANT13	36.001
NVNT	ac40	5590	ANT13	35.987
NVNT	ac40	5670	ANT13	36.016
NVNT	ac80	5530	ANT13	75.118
NVNT	ac80	5610	ANT13	75.237
NVNT	n20	5500	ANT13	17.601
NVNT	n20	5600	ANT13	17.644
NVNT	n20	5700	ANT13	17.688
NVNT	n40	5510	ANT13	35.948
NVNT	n40	5590	ANT13	35.981
NVNT	n40	5670	ANT13	36.062

Test Graphs

OBW NVNT a 5500MHz ANT13

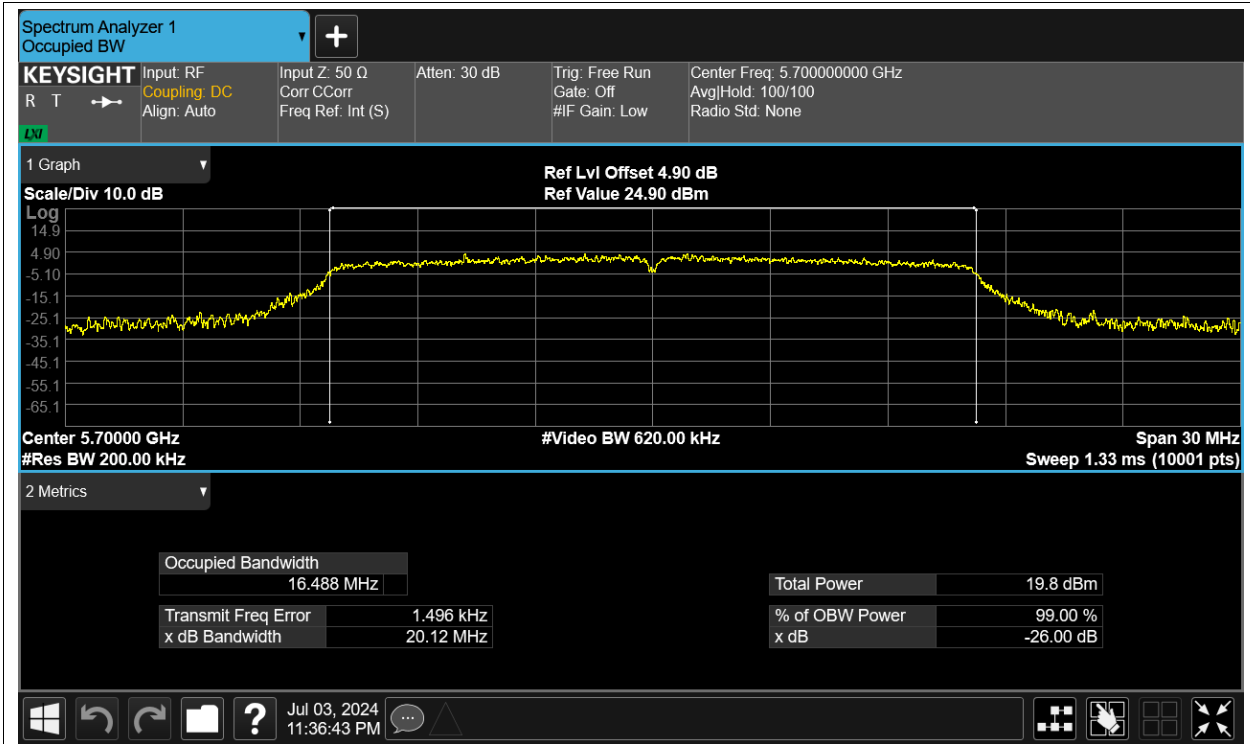


OBW NVNT a 5600MHz ANT13

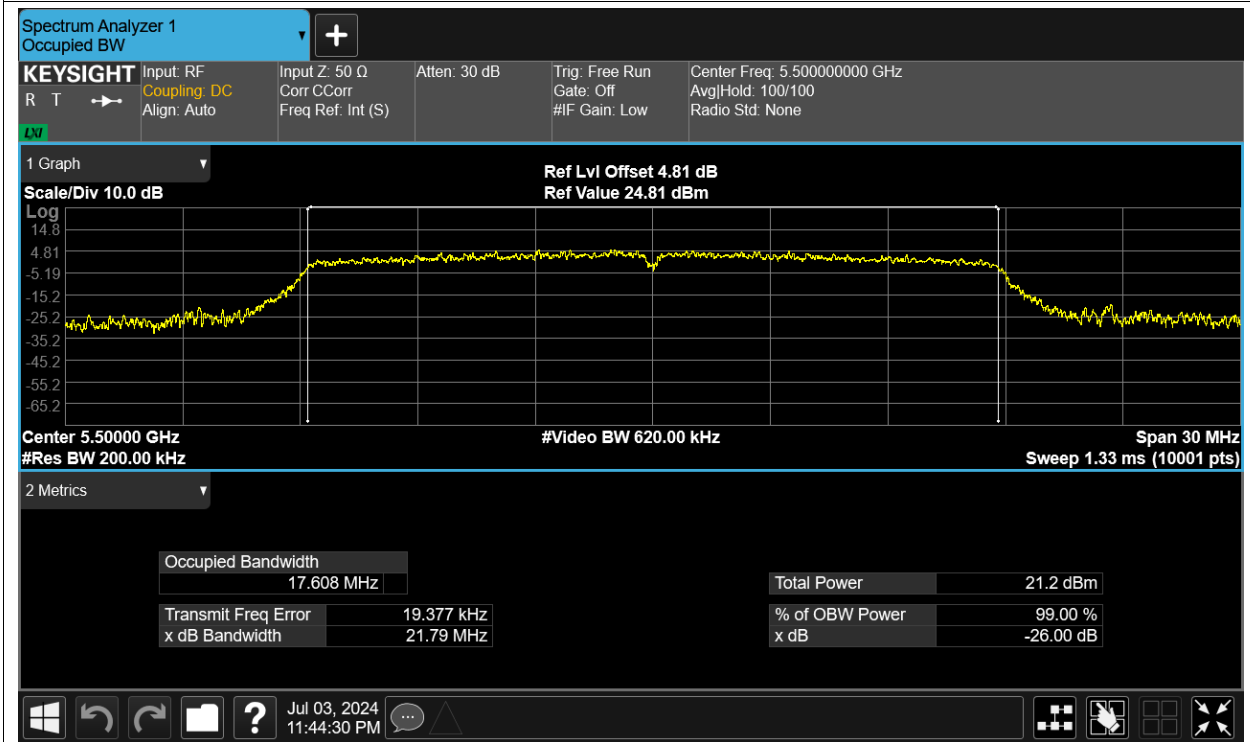


OBW NVNT a 5700MHz ANT13

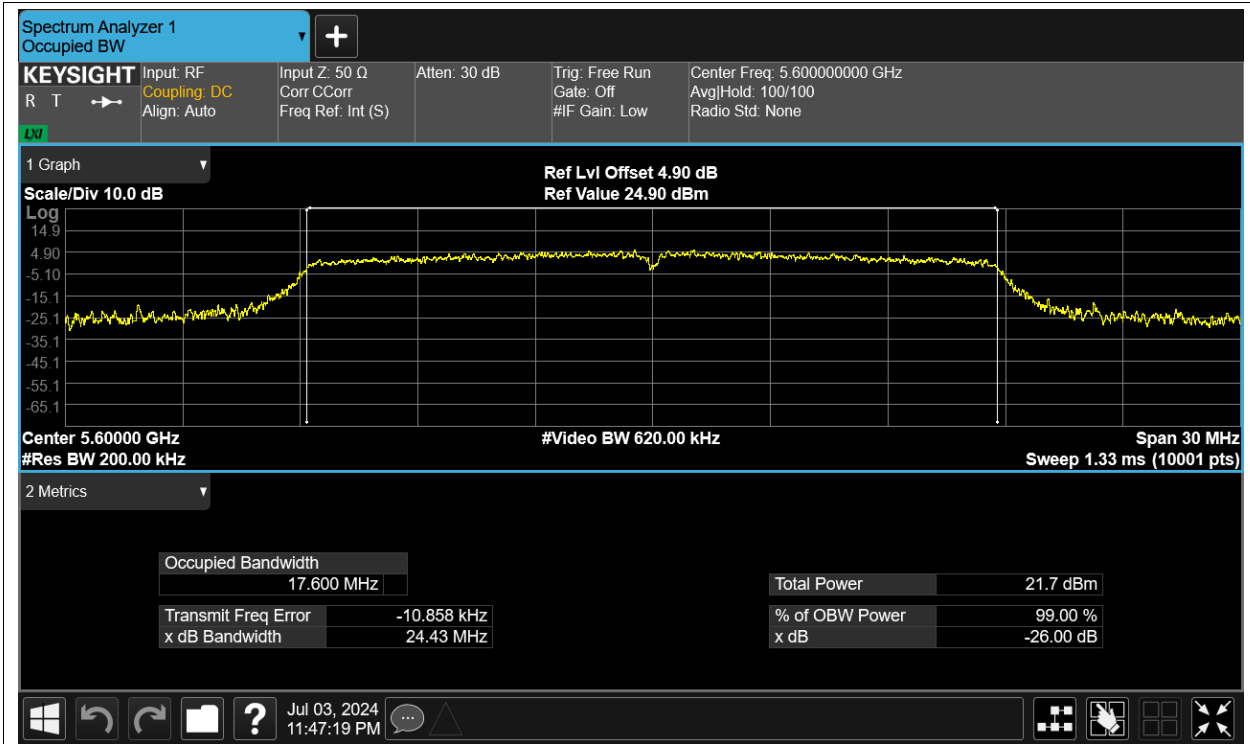




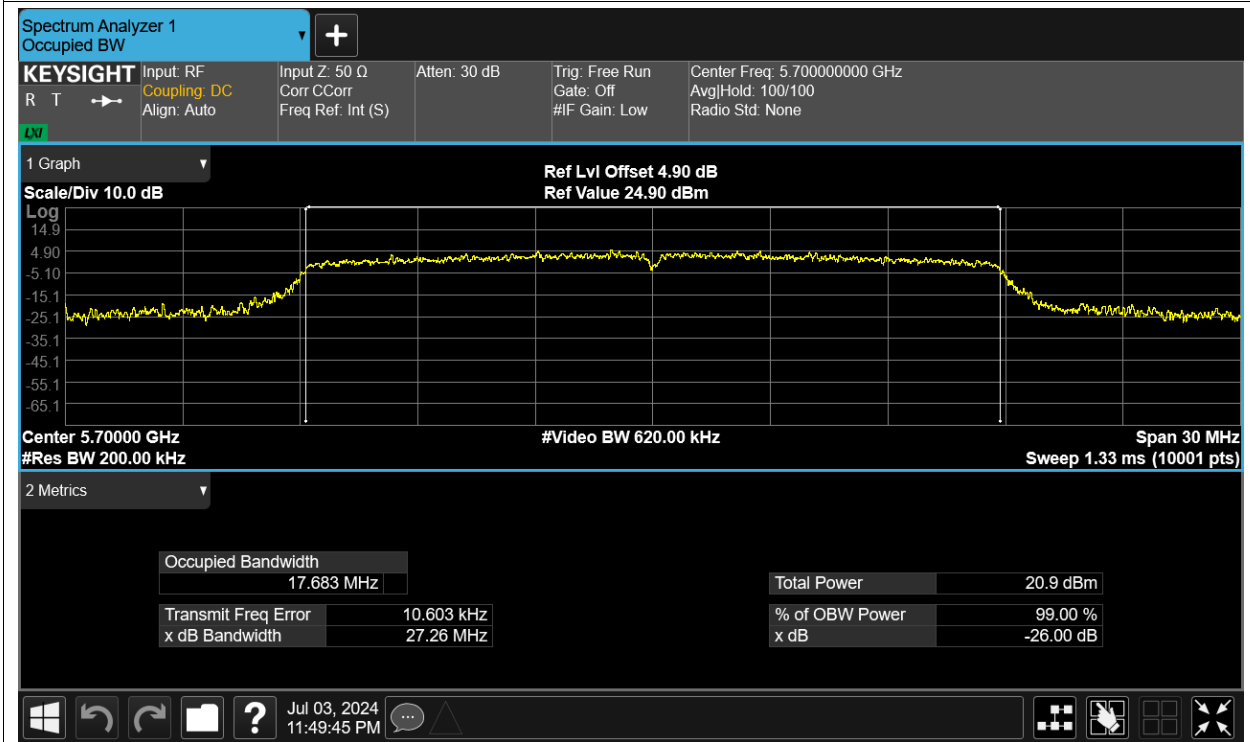
OBW NVNT ac20 5500MHz ANT13



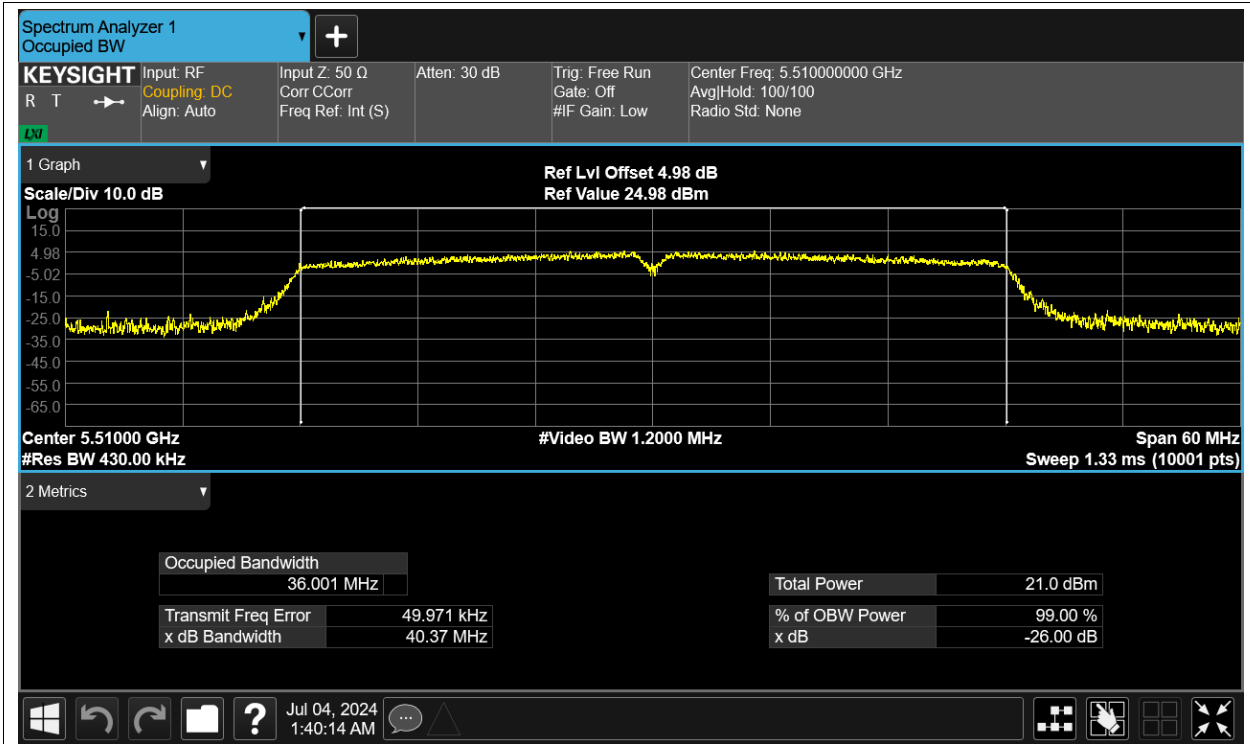
OBW NVNT ac20 5600MHz ANT13



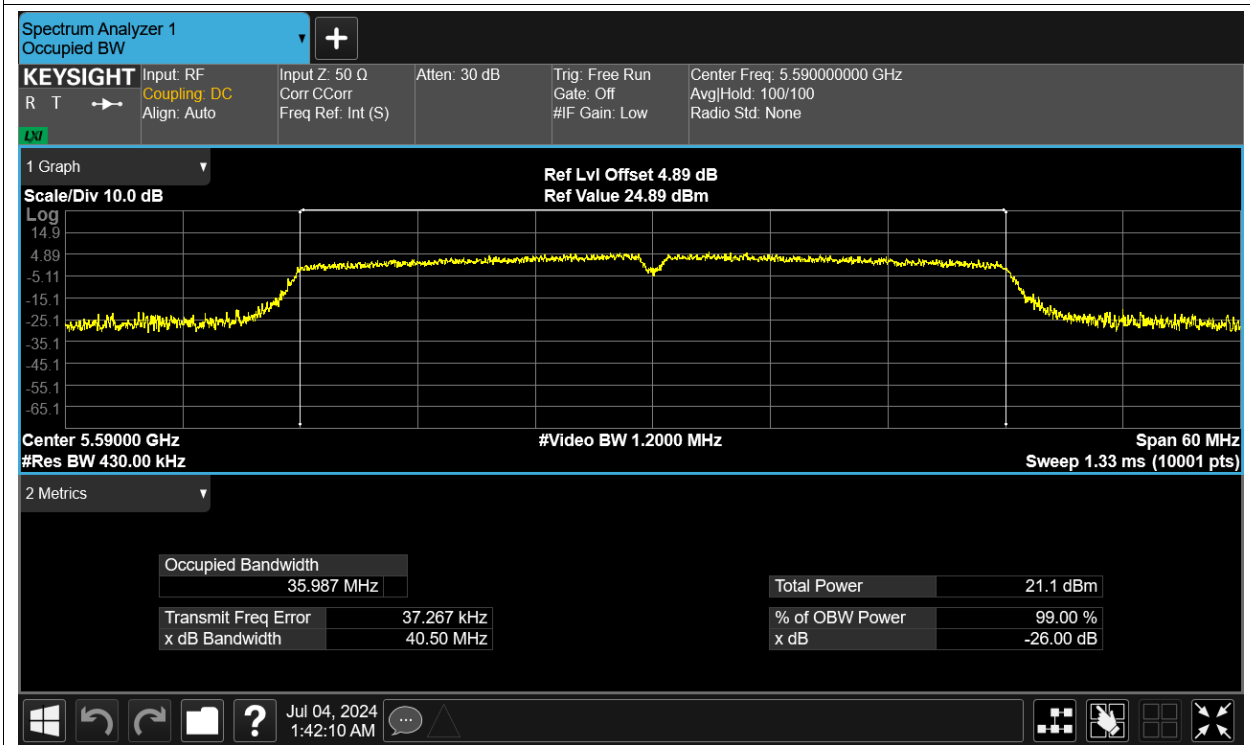
OBW NVNT ac20 5700MHz ANT13



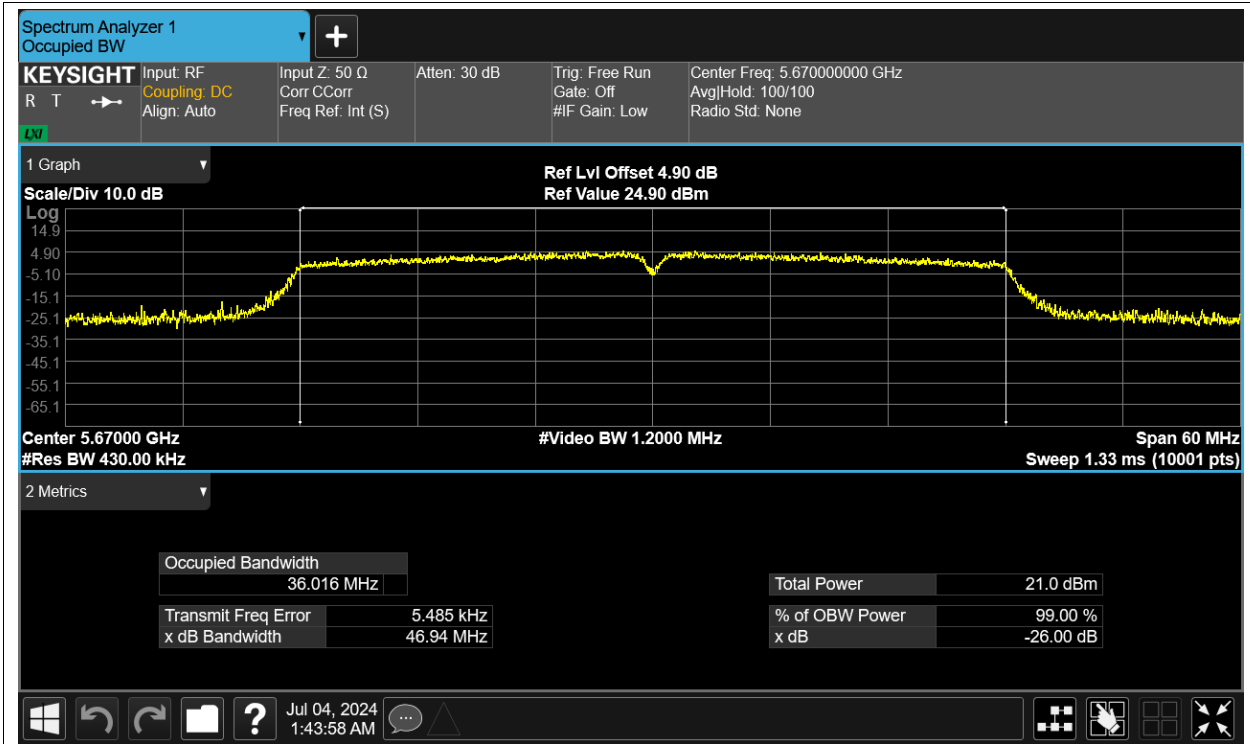
OBW NVNT ac40 5510MHz ANT13



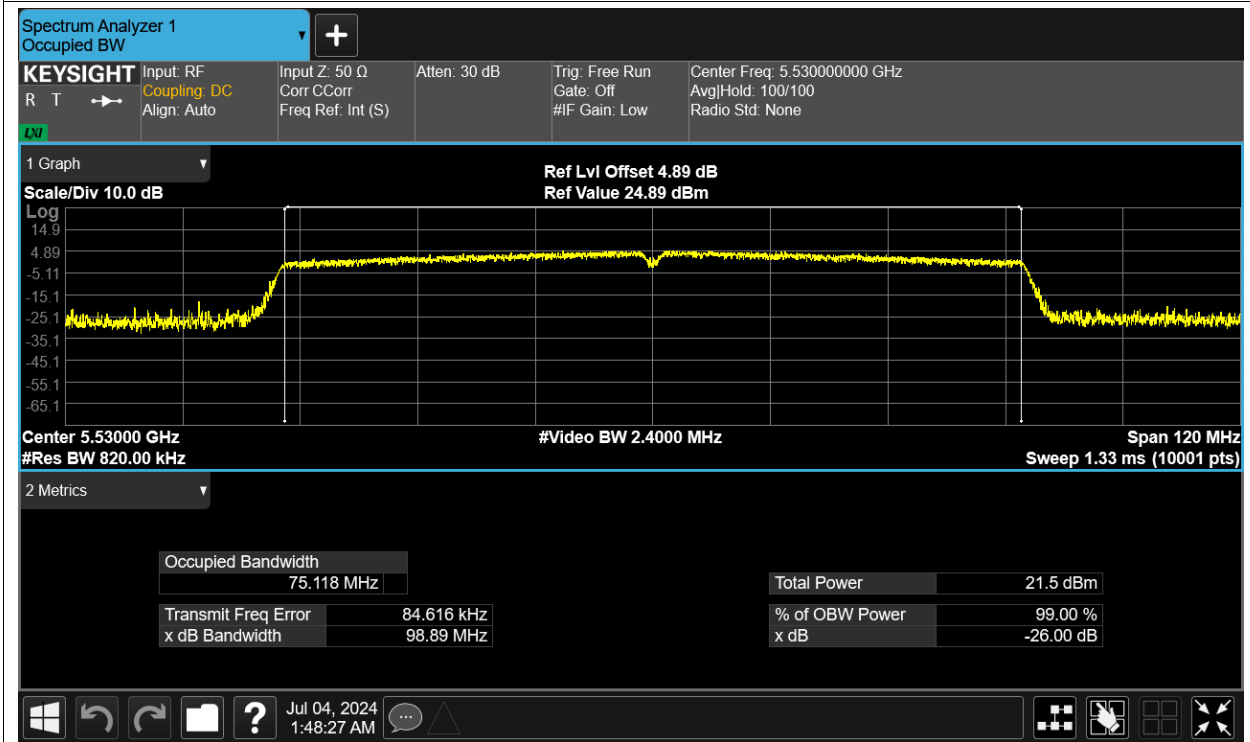
OBW NVNT ac40 5590MHz ANT13



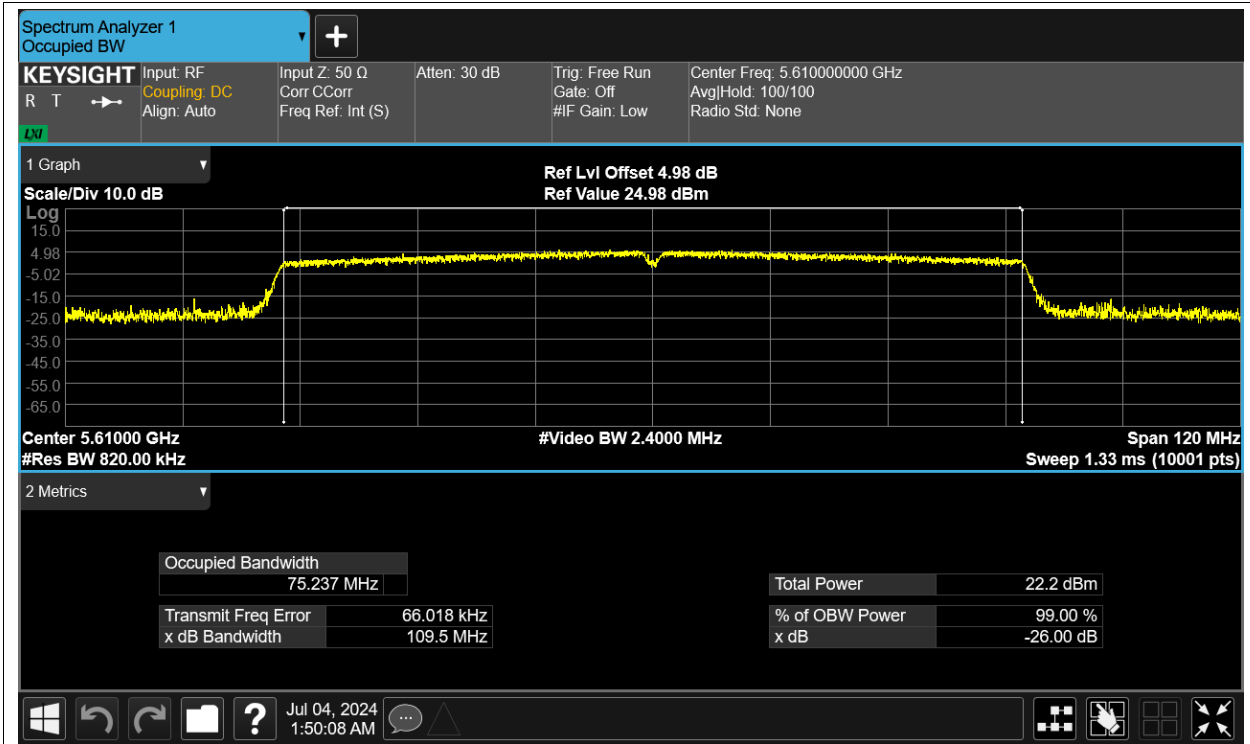
OBW NVNT ac40 5670MHz ANT13



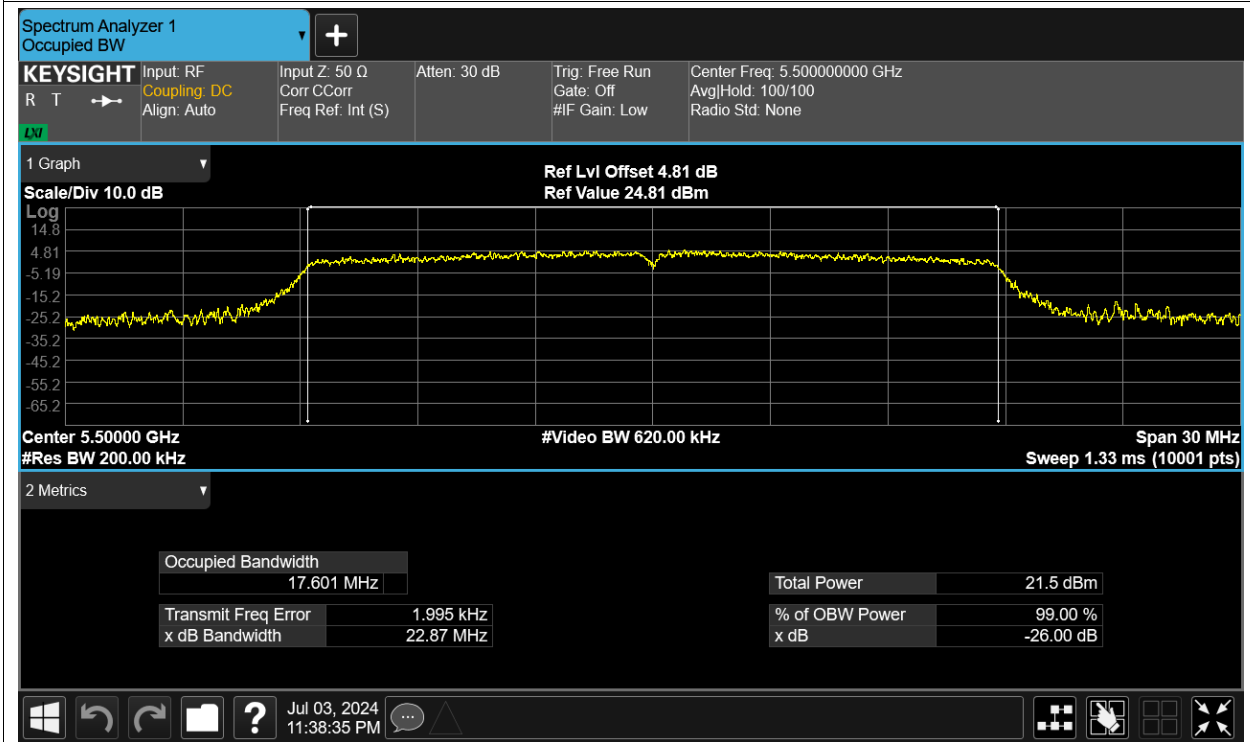
OBW NVNT ac80 5530MHz ANT13



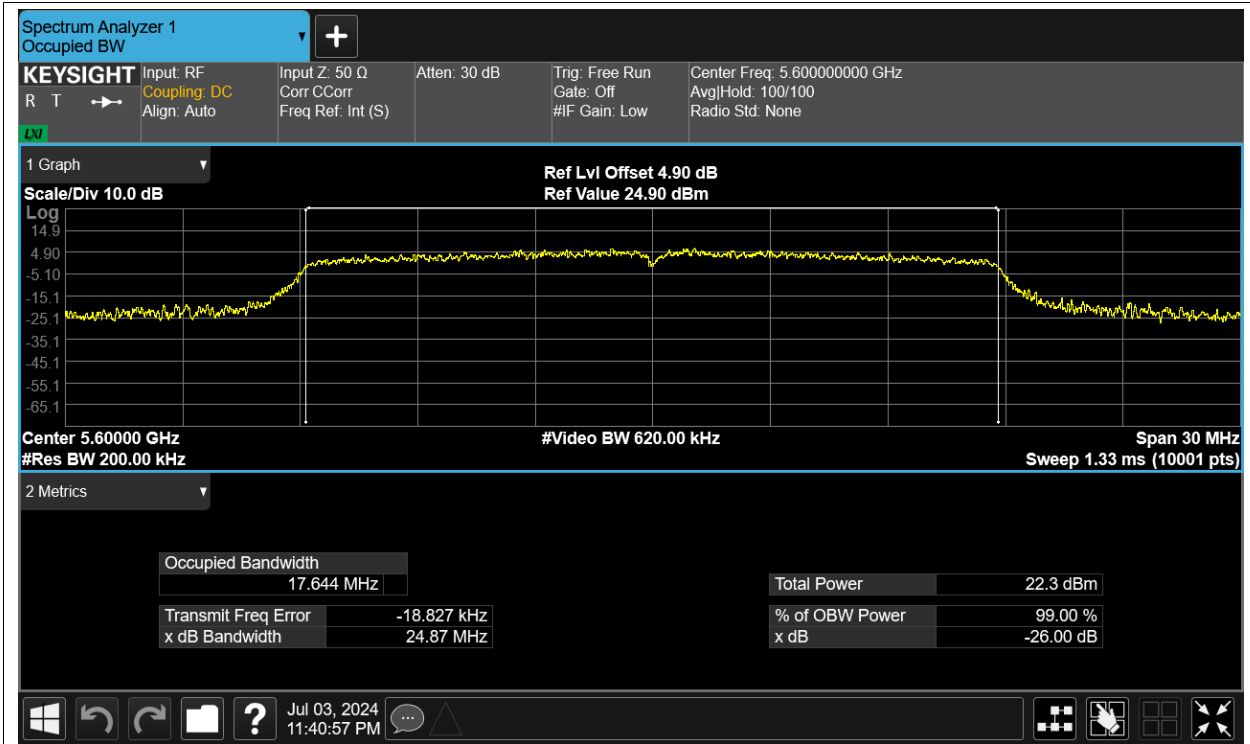
OBW NVNT ac80 5610MHz ANT13



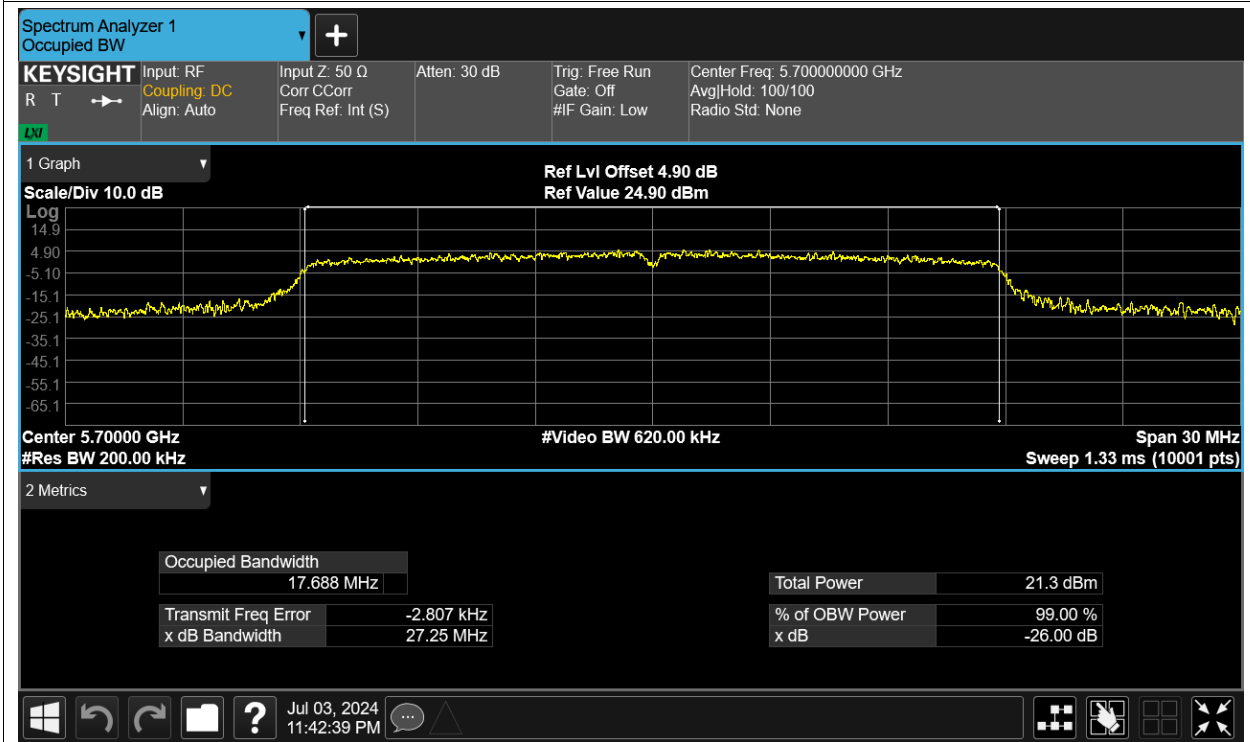
OBW NVNT n20 5500MHz ANT13



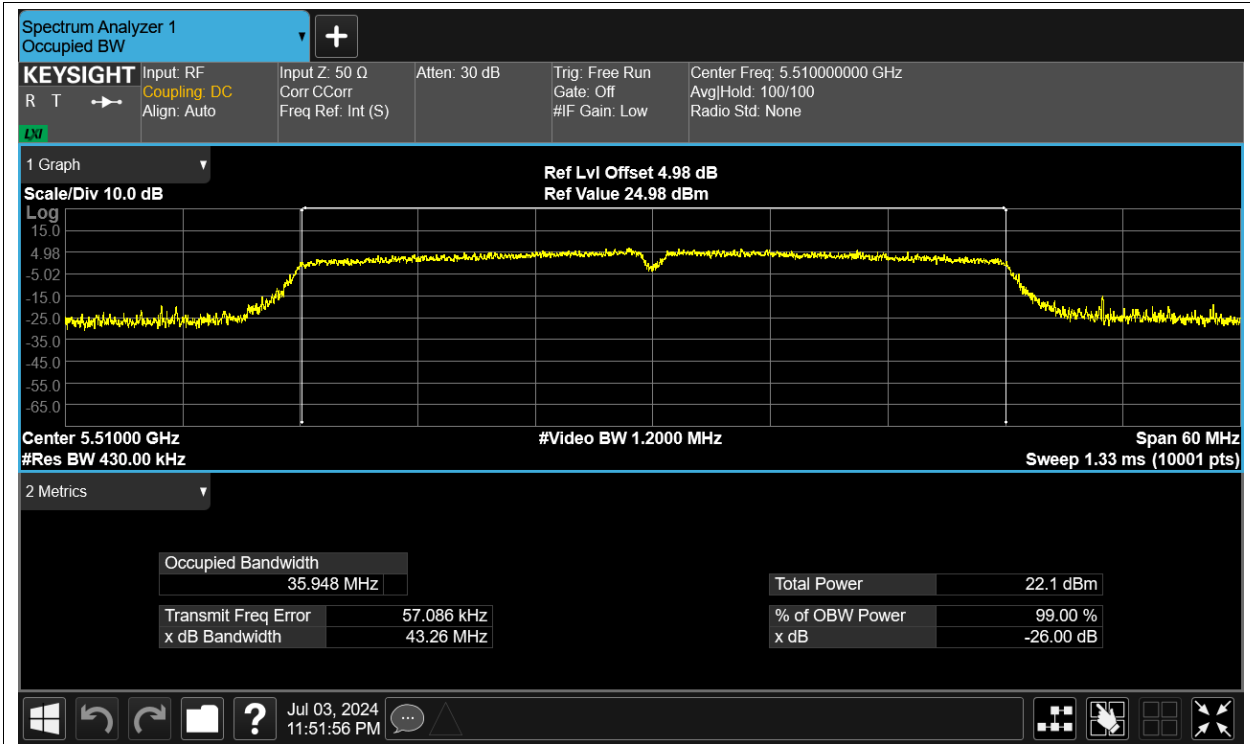
OBW NVNT n20 5600MHz ANT13



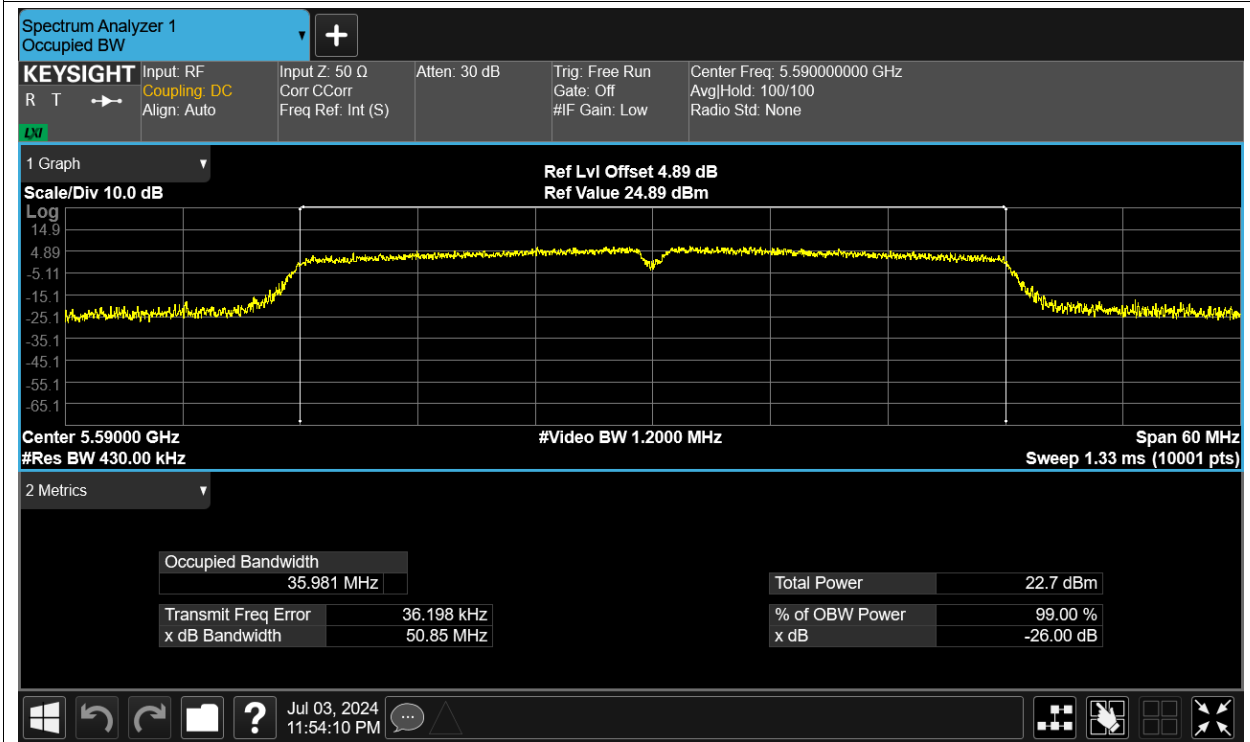
OBW NVNT n20 5700MHz ANT13



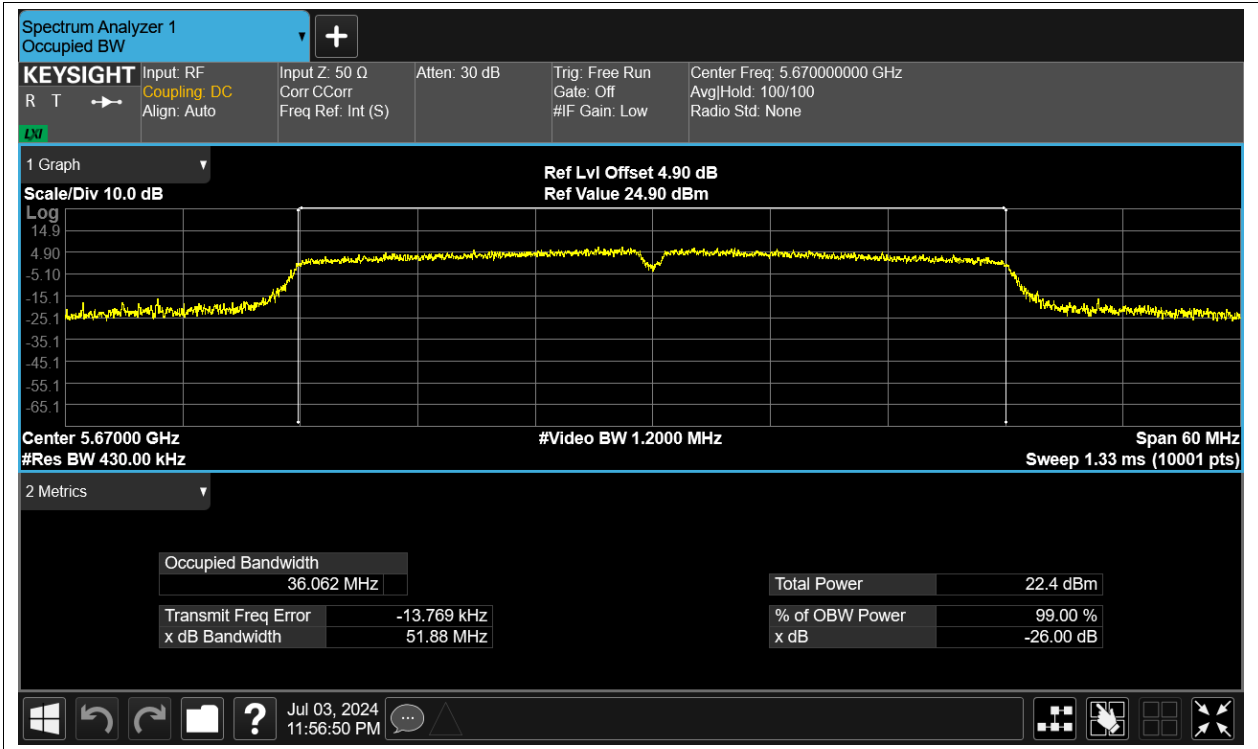
OBW NVNT n40 5510MHz ANT13



OBW NVNT n40 5590MHz ANT13



OBW NVNT n40 5670MHz ANT13



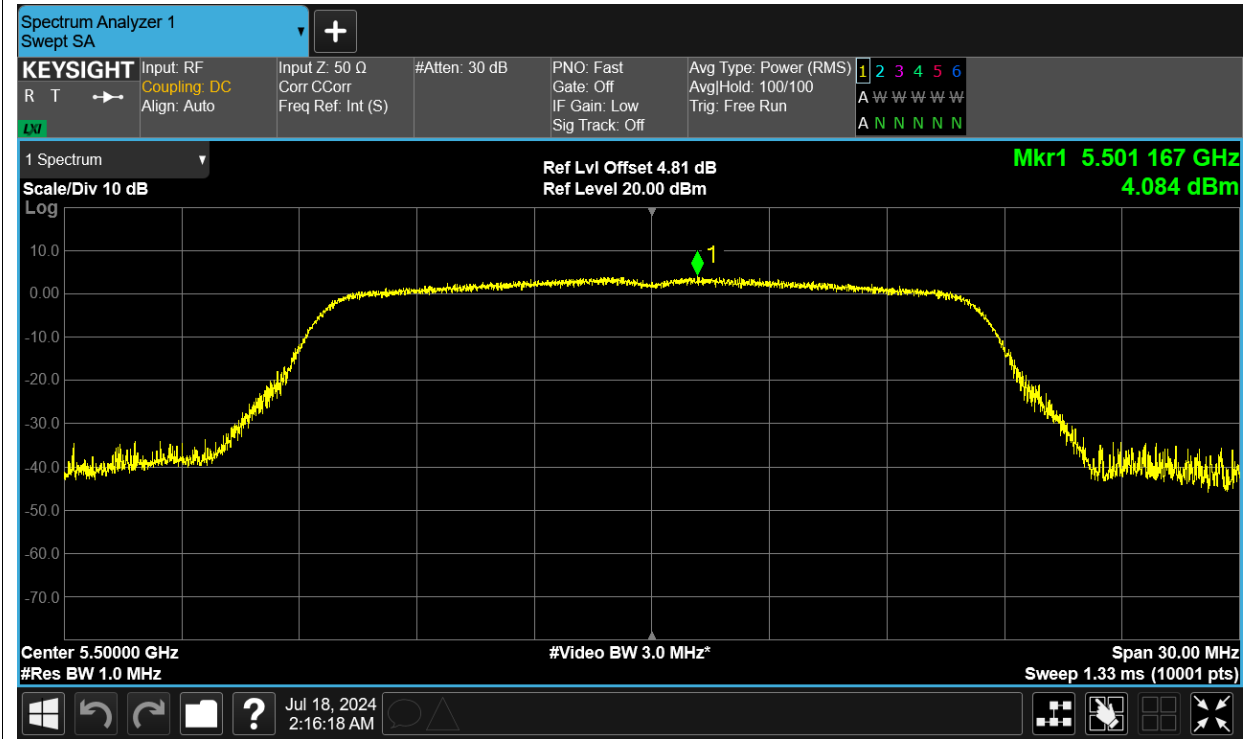


## Maximum Power Spectral Density Level

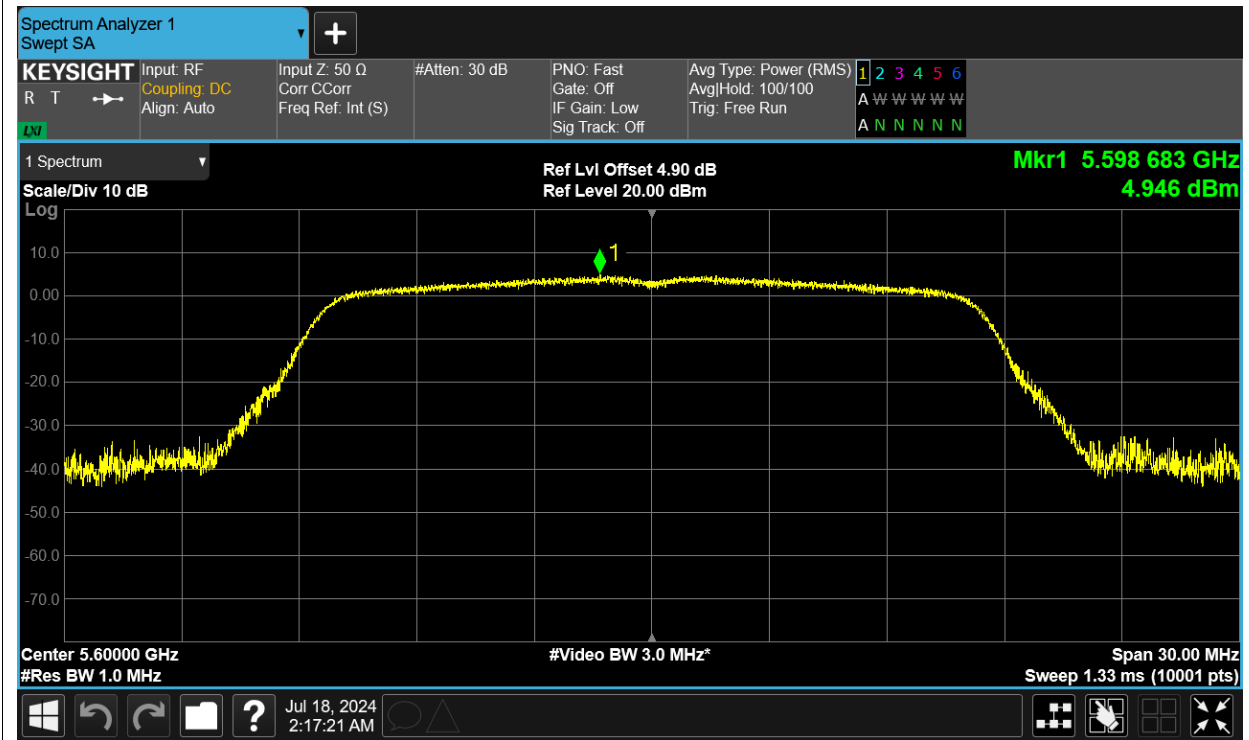
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	ANT13	4.084	11	Pass
NVNT	a	5600	ANT13	4.946	11	Pass
NVNT	a	5700	ANT13	4.318	11	Pass
NVNT	ac20	5500	ANT13	2.788	11	Pass
NVNT	ac20	5600	ANT13	3.633	11	Pass
NVNT	ac20	5700	ANT13	2.731	11	Pass
NVNT	ac40	5510	ANT13	-0.305	11	Pass
NVNT	ac40	5590	ANT13	-0.459	11	Pass
NVNT	ac40	5670	ANT13	-0.793	11	Pass
NVNT	ac80	5530	ANT13	-5.01	11	Pass
NVNT	ac80	5610	ANT13	-4.636	11	Pass
NVNT	n20	5500	ANT13	3.277	11	Pass
NVNT	n20	5600	ANT13	3.487	11	Pass
NVNT	n20	5700	ANT13	2.803	11	Pass
NVNT	n40	5510	ANT13	-0.452	11	Pass
NVNT	n40	5590	ANT13	-0.363	11	Pass
NVNT	n40	5670	ANT13	-0.394	11	Pass

Test Graphs

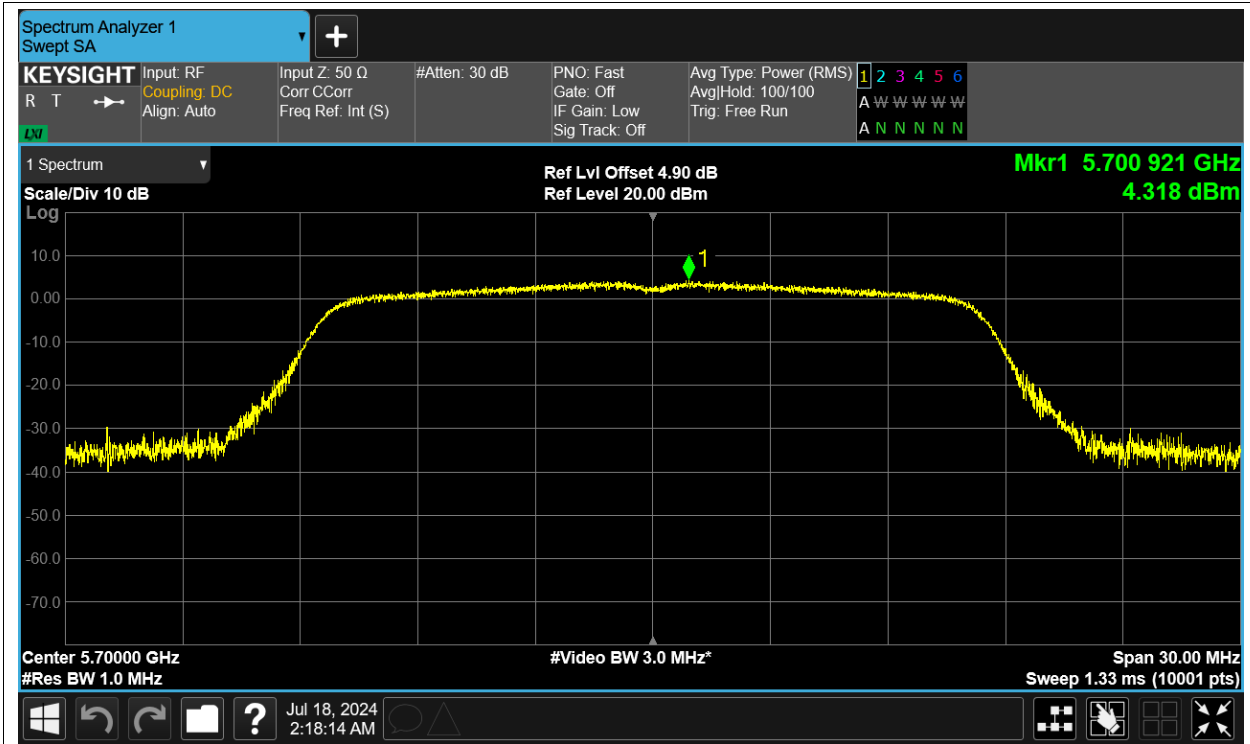
PSD NVNT a 5500MHz ANT13



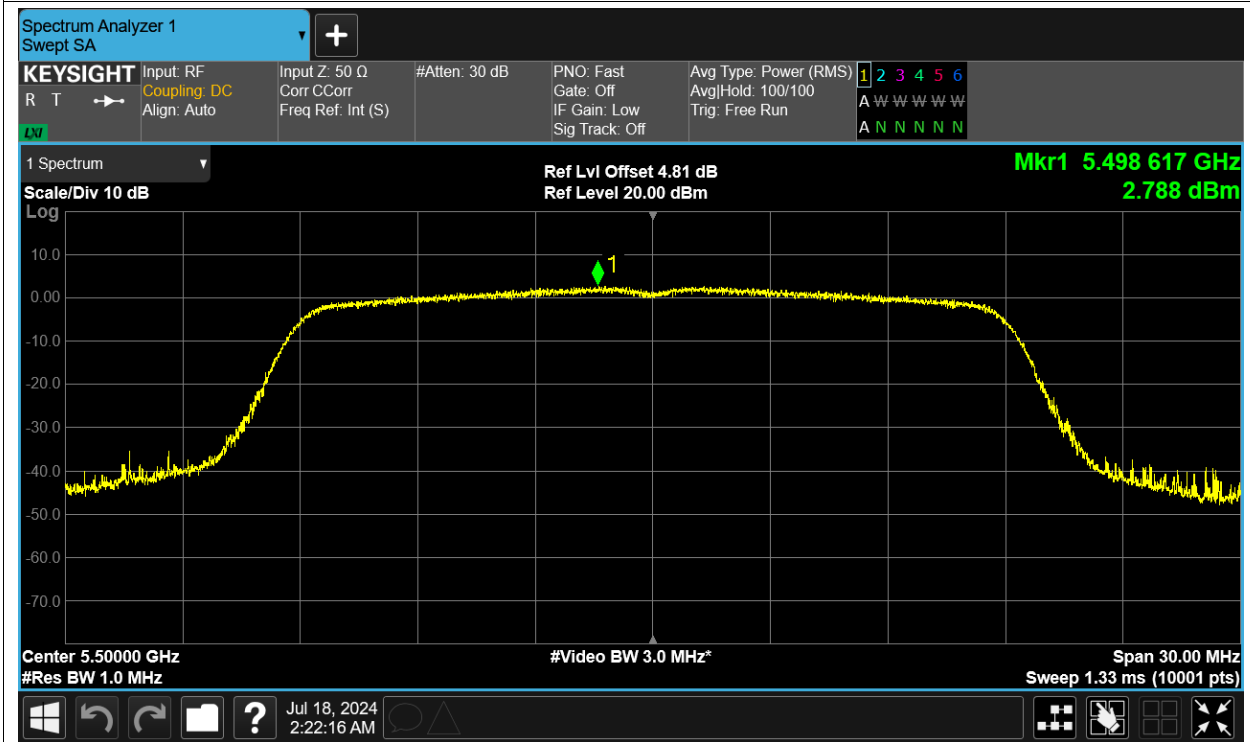
PSD NVNT a 5600MHz ANT13



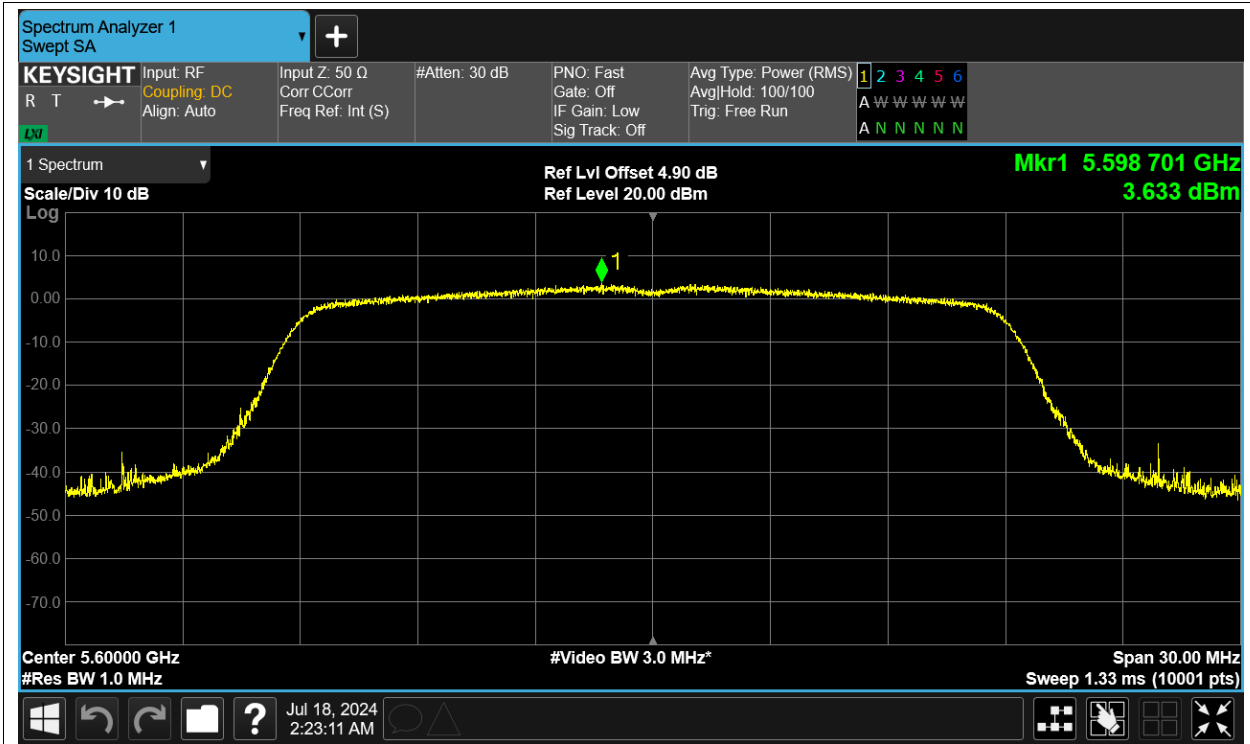
PSD NVNT a 5700MHz ANT13



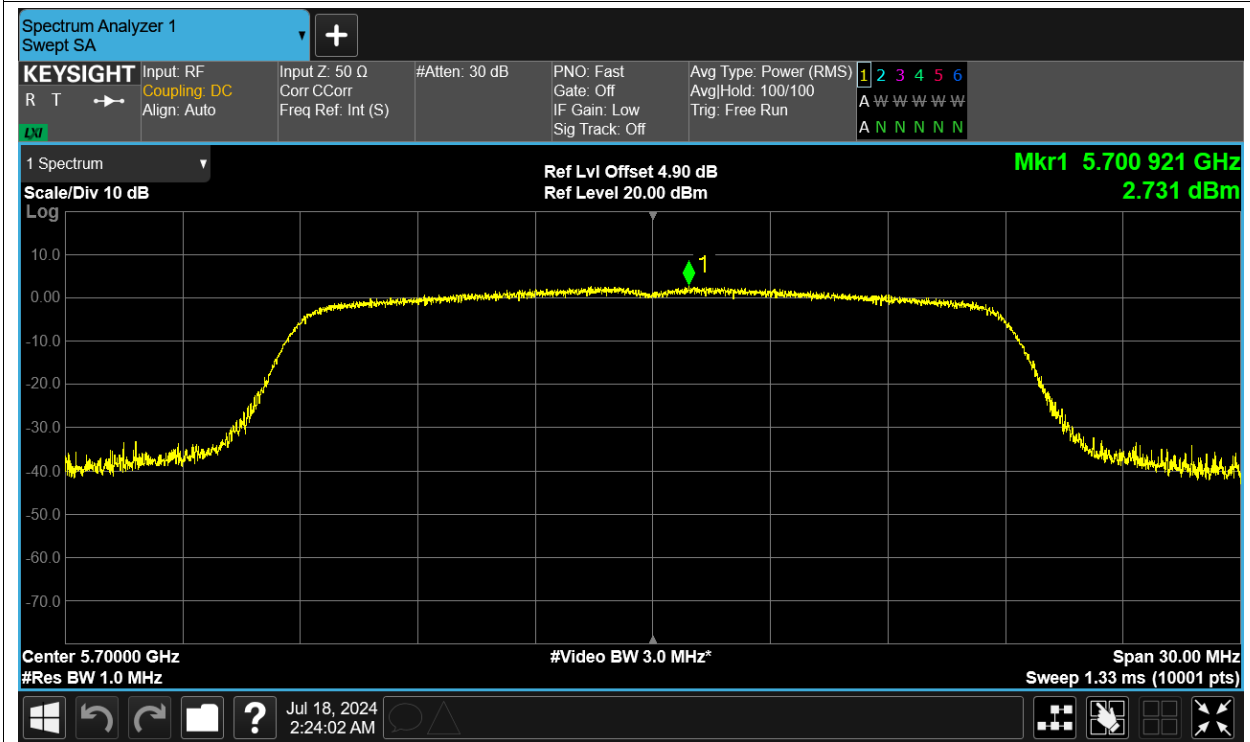
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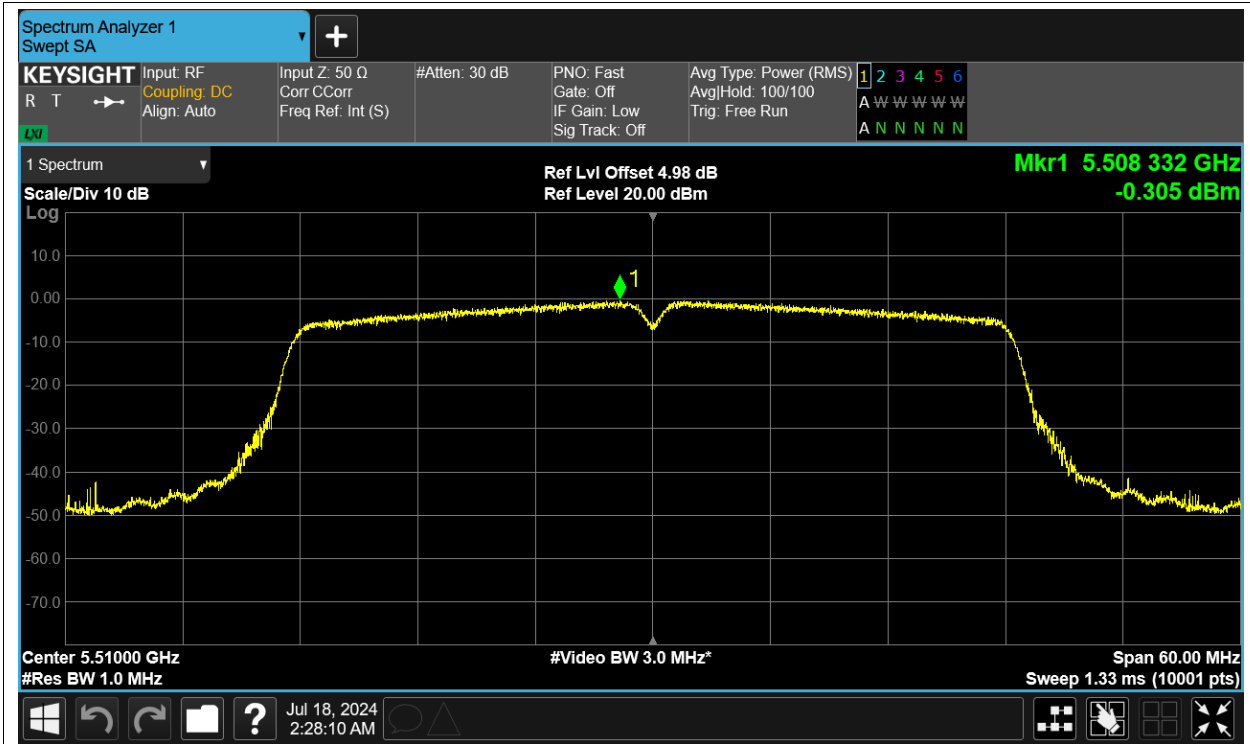
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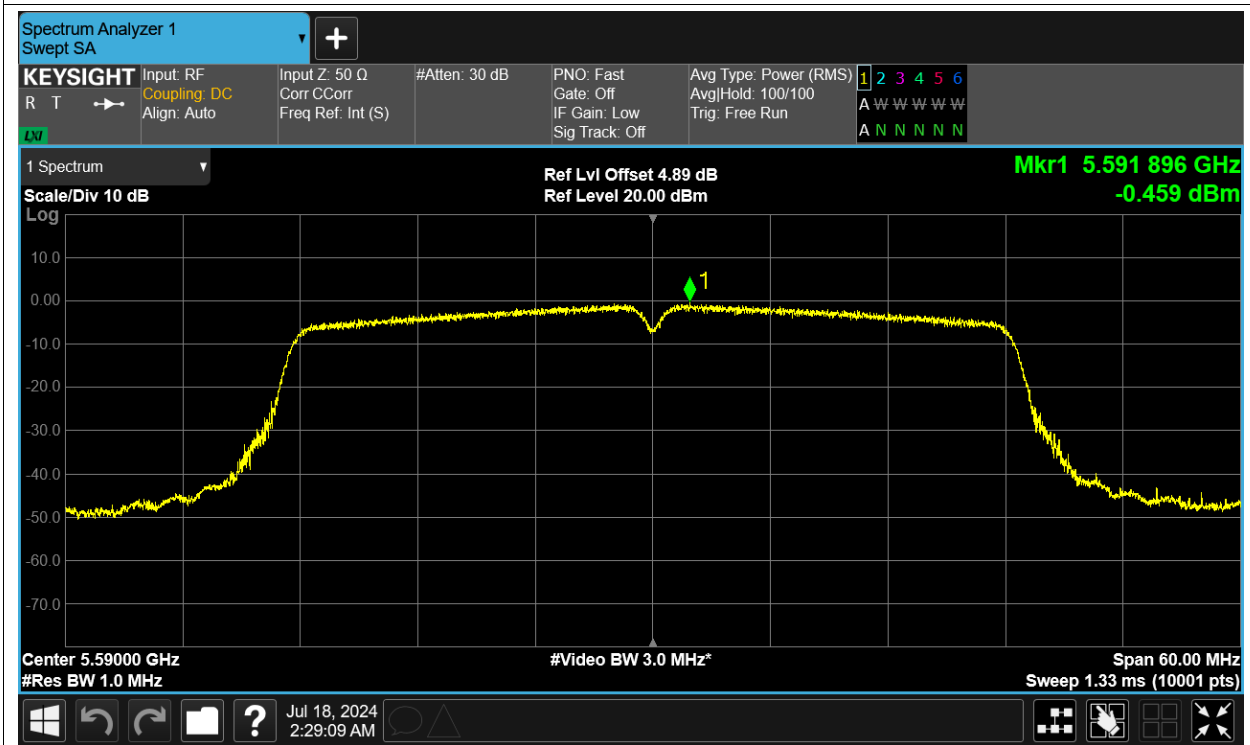
PSD NVNT ac20 5700MHz ANT13



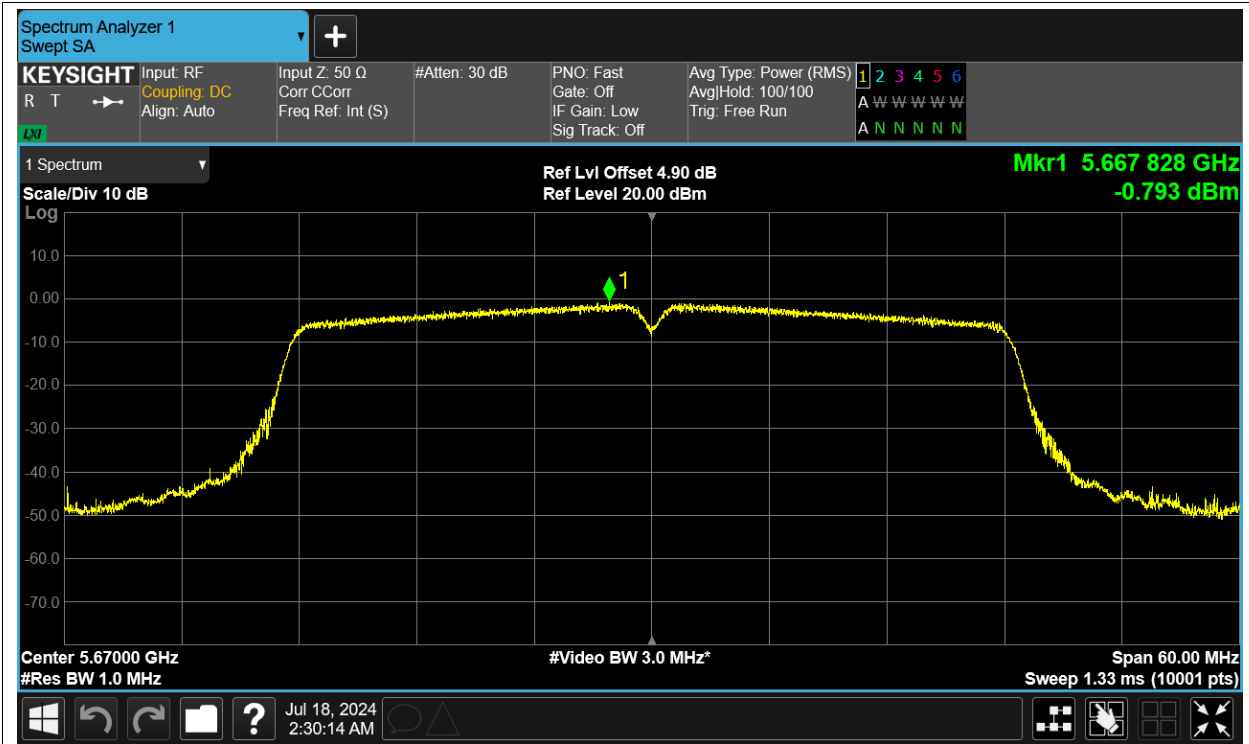
PSD NVNT ac40 5510MHz ANT13



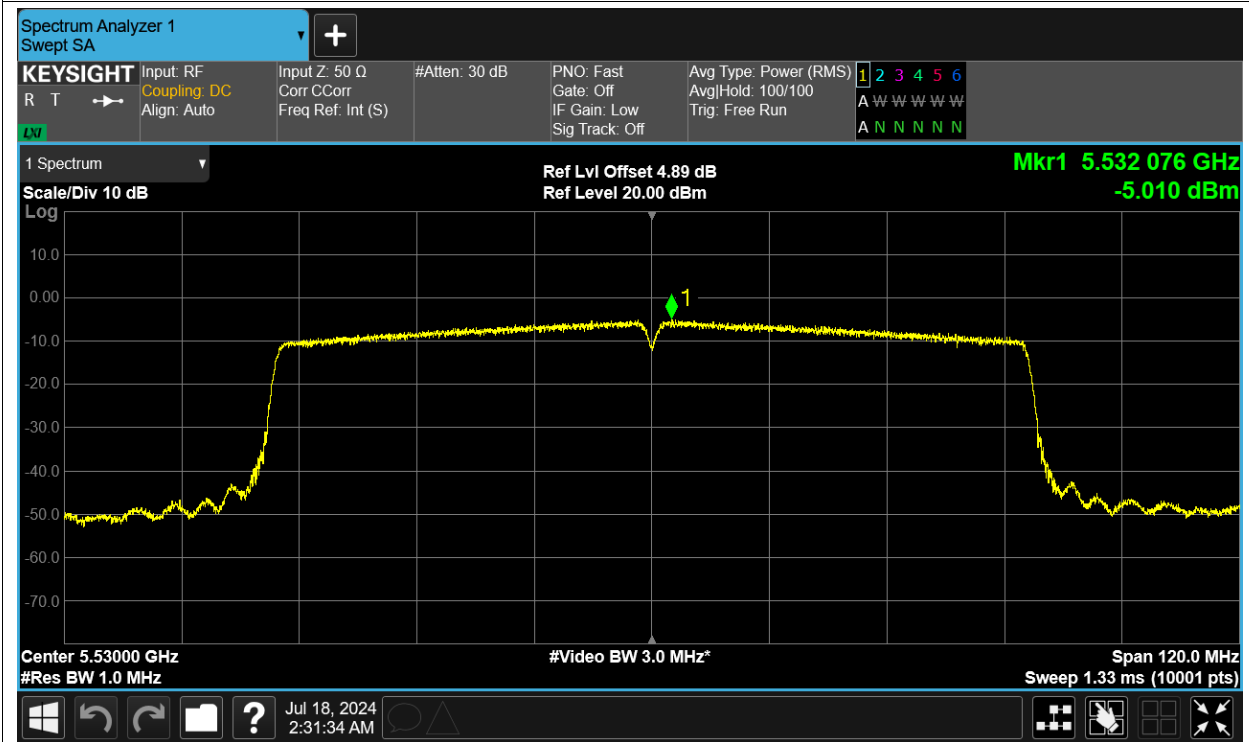
PSD NVNT ac40 5590MHz ANT13



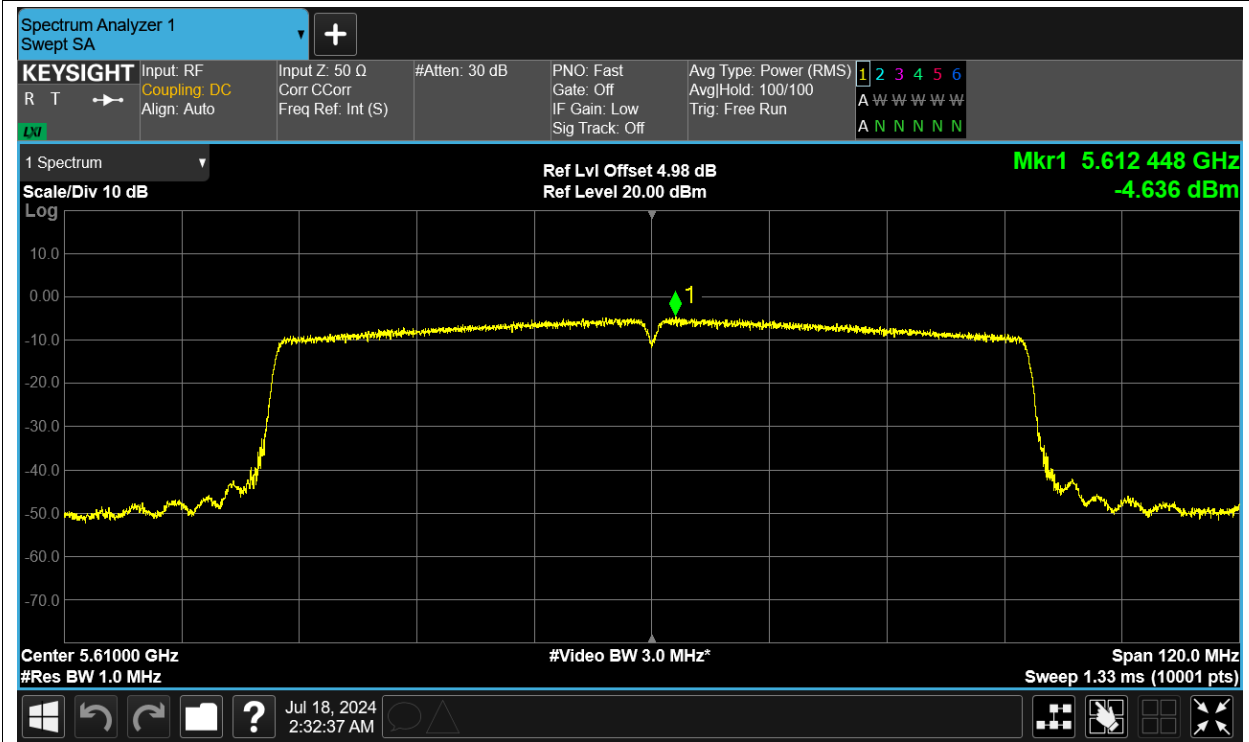
PSD NVNT ac40 5670MHz ANT13



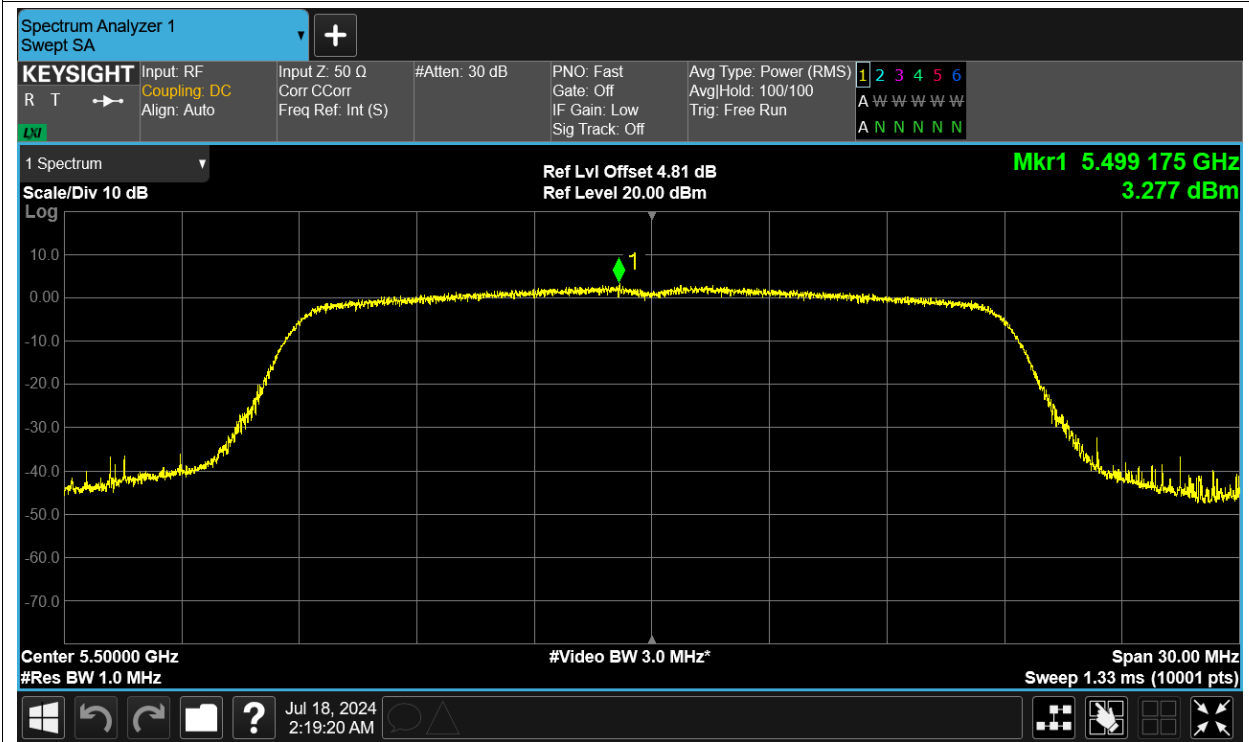
PSD NVNT ac80 5530MHz ANT13



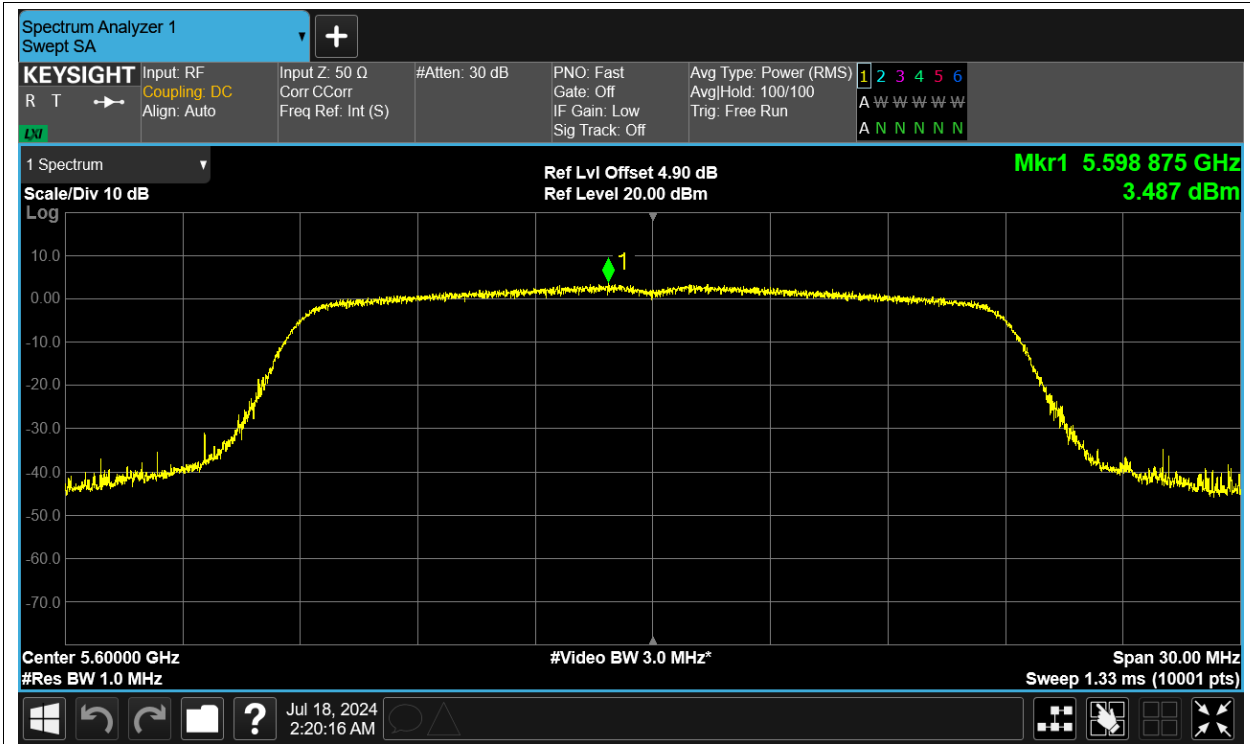
PSD NVNT ac80 5610MHz ANT13



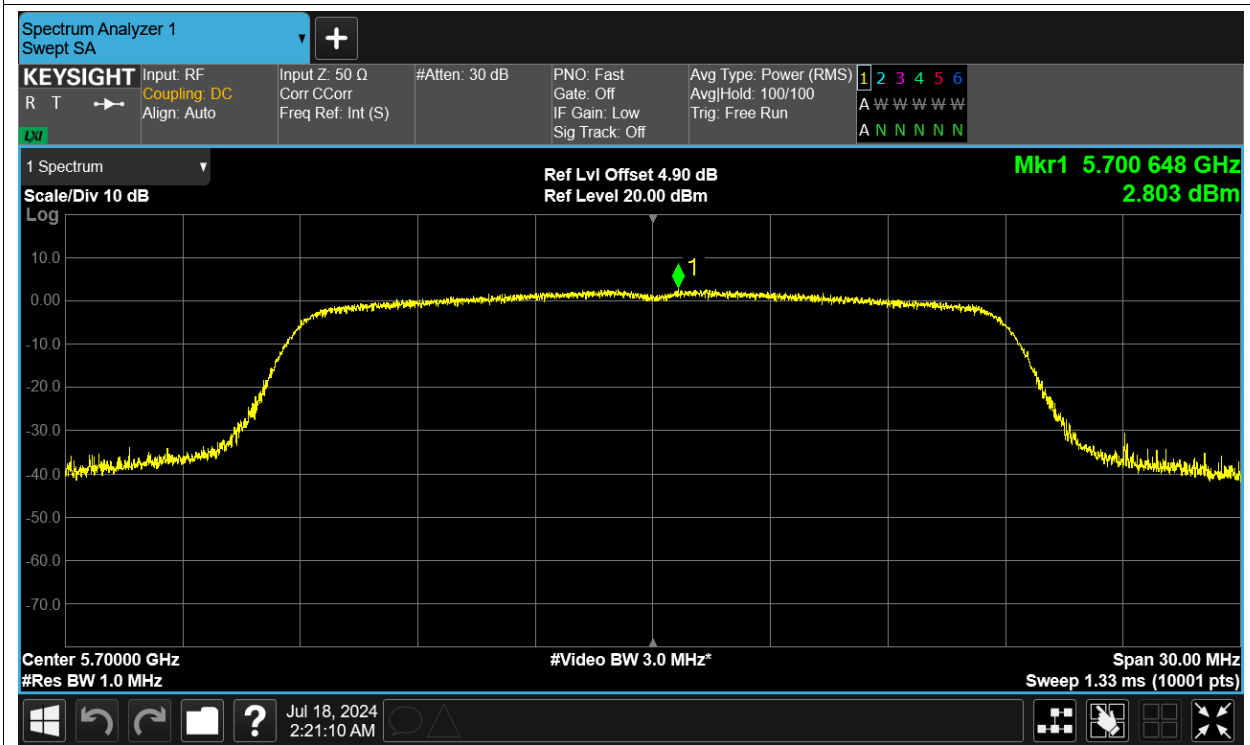
PSD NVNT n20 5500MHz ANT13



PSD NVNT n20 5600MHz ANT13

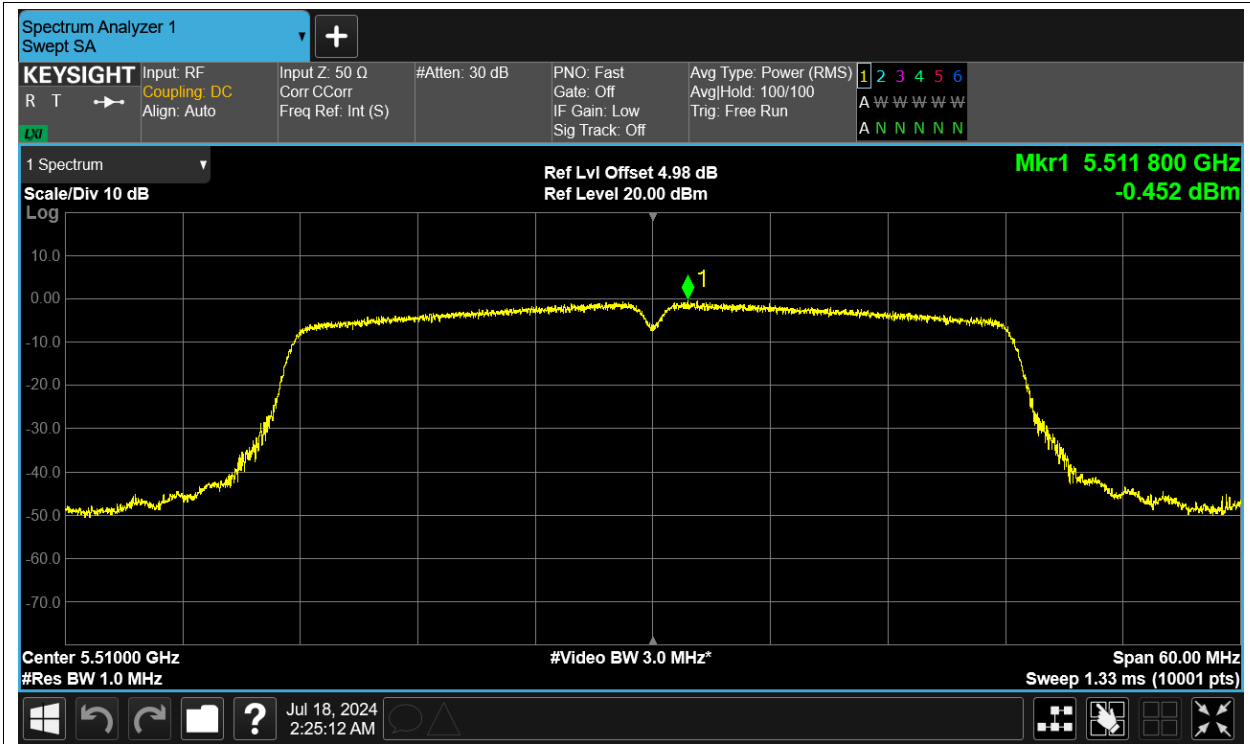


PSD NVNT n20 5700MHz ANT13

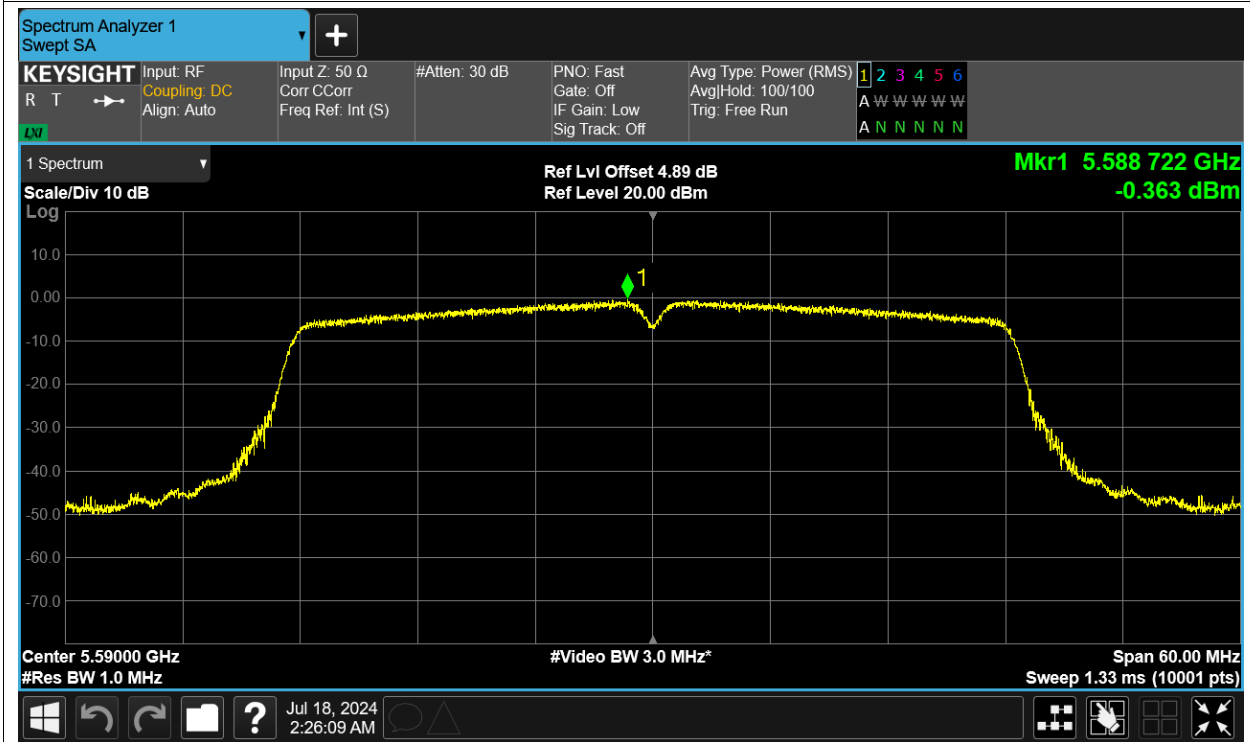


PSD NVNT n40 5510MHz ANT13





PSD NVNT n40 5590MHz ANT13



PSD NVNT n40 5670MHz ANT13

