

Test Data

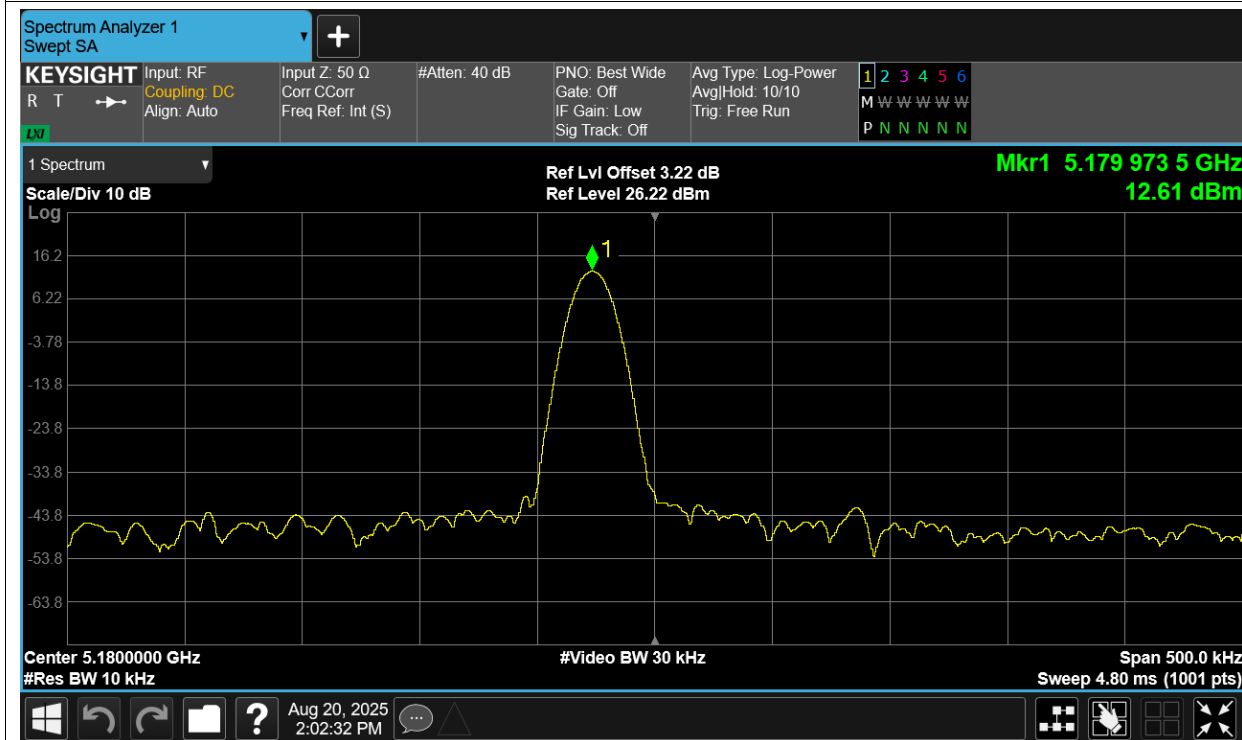
Frequency Stability

Condition	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	5180	Ant1	5179.9735	-5.12	Within authorized band	Pass
HVNT	5200	Ant1	5199.973	-5.19		Pass
HVNT	5240	Ant1	5239.9725	-5.25		Pass
LVNT	5180	Ant1	5179.9735	-5.12		Pass
LVNT	5200	Ant1	5199.973	-5.19		Pass
LVNT	5240	Ant1	5239.9725	-5.25		Pass
NVHT	5180	Ant1	5179.9735	-5.12		Pass
NVHT	5200	Ant1	5199.973	-5.19		Pass
NVHT	5240	Ant1	5239.9725	-5.25		Pass
NVLT	5180	Ant1	5179.9735	-5.12		Pass
NVLT	5200	Ant1	5199.973	-5.19		Pass
NVLT	5240	Ant1	5239.9725	-5.25		Pass
NVNT	5180	Ant1	5179.9735	-5.12		Pass
NVNT	5200	Ant1	5199.973	-5.19		Pass
NVNT	5240	Ant1	5239.9725	-5.25		Pass
HVNT	5210	Ant1	5209.9725	-5.28		Pass
LVNT	5210	Ant1	5209.9725	-5.28		Pass
NVHT	5210	Ant1	5209.9725	-5.28		Pass
NVLT	5210	Ant1	5209.9725	-5.28		Pass
NVNT	5210	Ant1	5209.972333001	-5.31		Pass
HVNT	5190	Ant1	5189.9725	-5.3		Pass
HVNT	5230	Ant1	5229.9725	-5.26		Pass
LVNT	5190	Ant1	5189.9725	-5.3		Pass
LVNT	5230	Ant1	5229.9725	-5.26		Pass
NVHT	5190	Ant1	5189.9725	-5.3		Pass
NVHT	5230	Ant1	5229.9725	-5.26		Pass
NVLT	5190	Ant1	5189.9725	-5.3		Pass
NVLT	5230	Ant1	5229.9725	-5.26		Pass
NVNT	5190	Ant1	5189.9725	-5.3		Pass
NVNT	5230	Ant1	5229.9725	-5.26		Pass

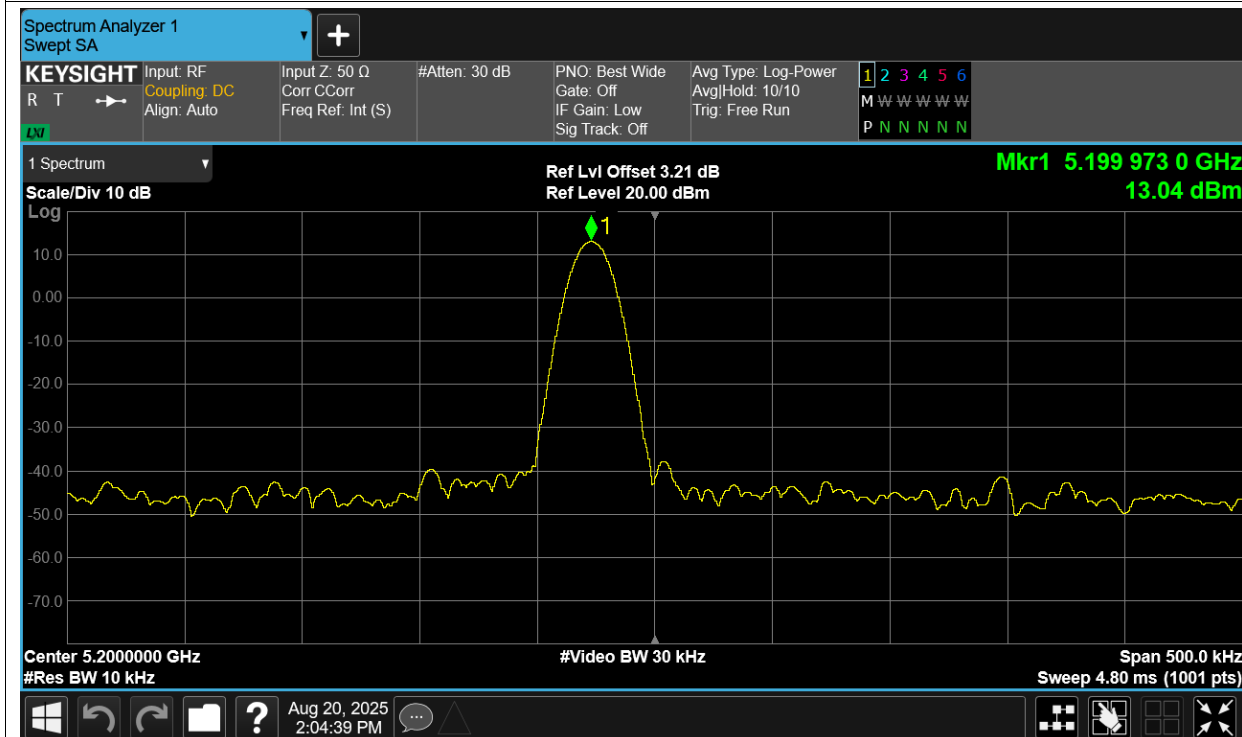
Remark: "NTNV" means Normal Temperature Normal Voltage, "NVHT" means Normal Voltage High Temperature, "NVLT" means Normal Voltage Low Temperature, "LVNT" means Low Voltage Normal Temperature, "HVNT" means High Voltage Normal Temperature.

Test Graphs

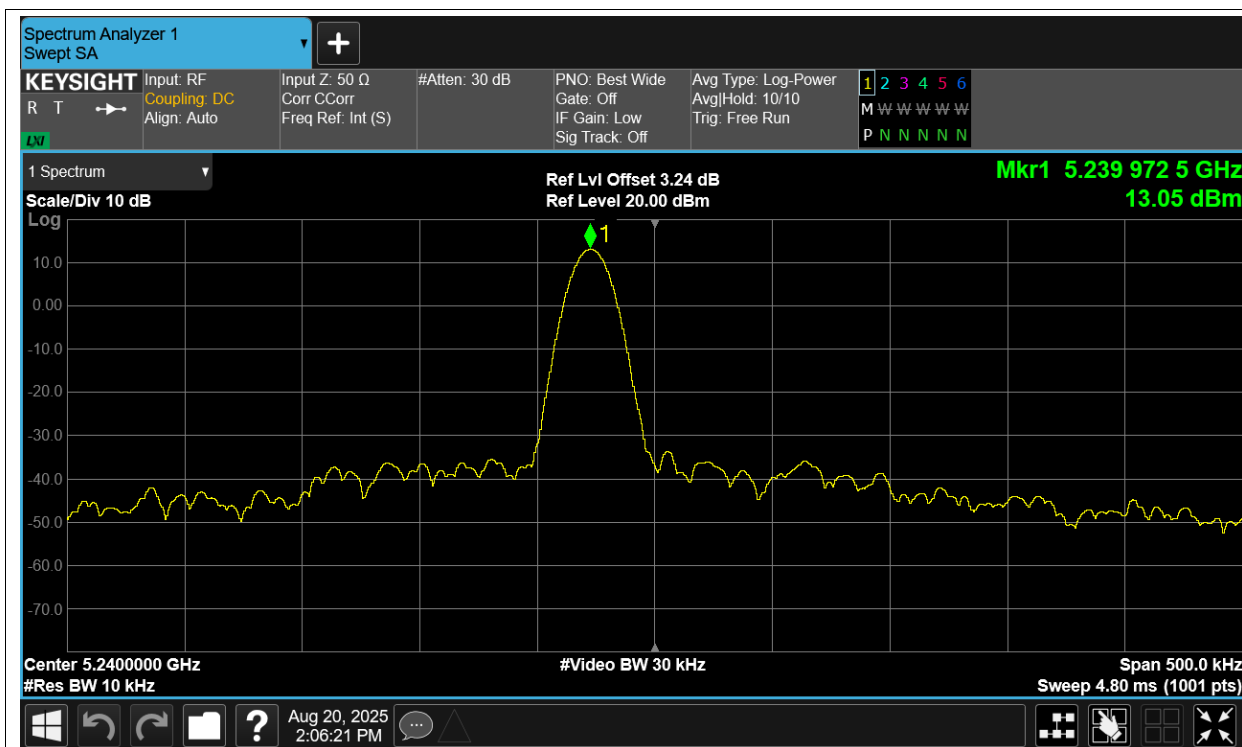
Freq. Stability HVNT 5180MHz Ant1



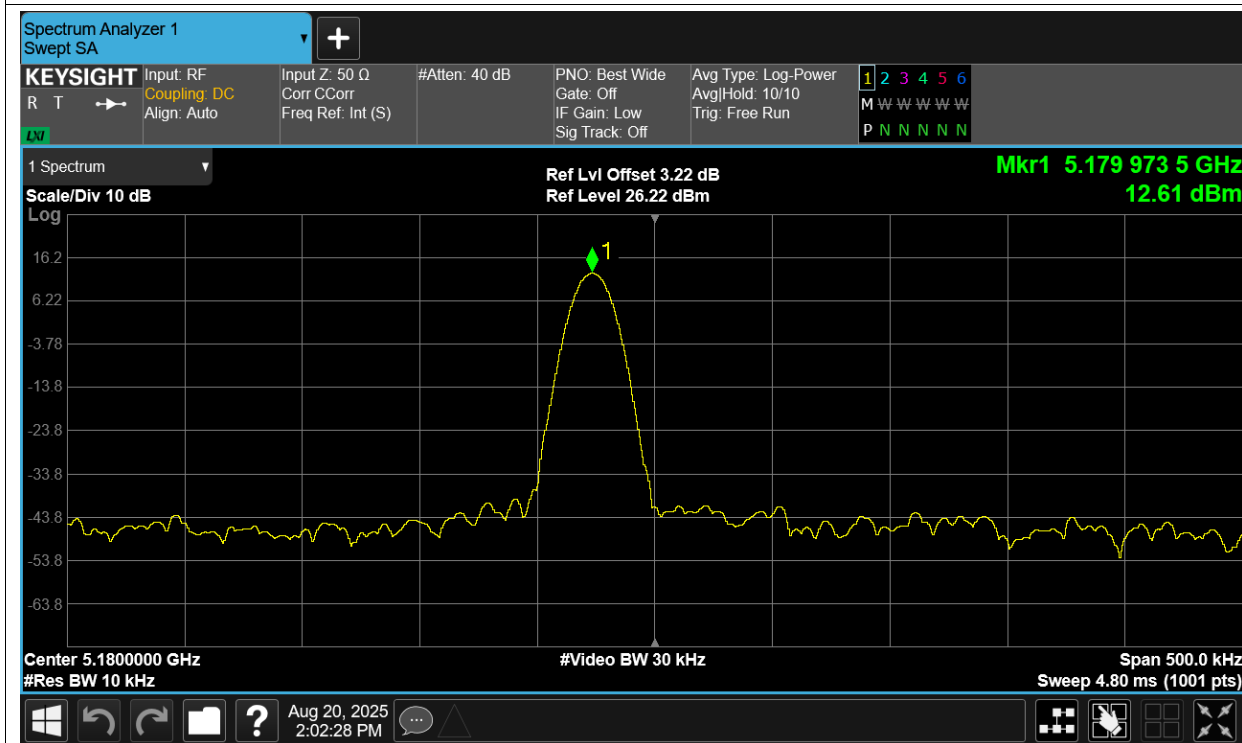
Freq. Stability HVNT 5200MHz Ant1



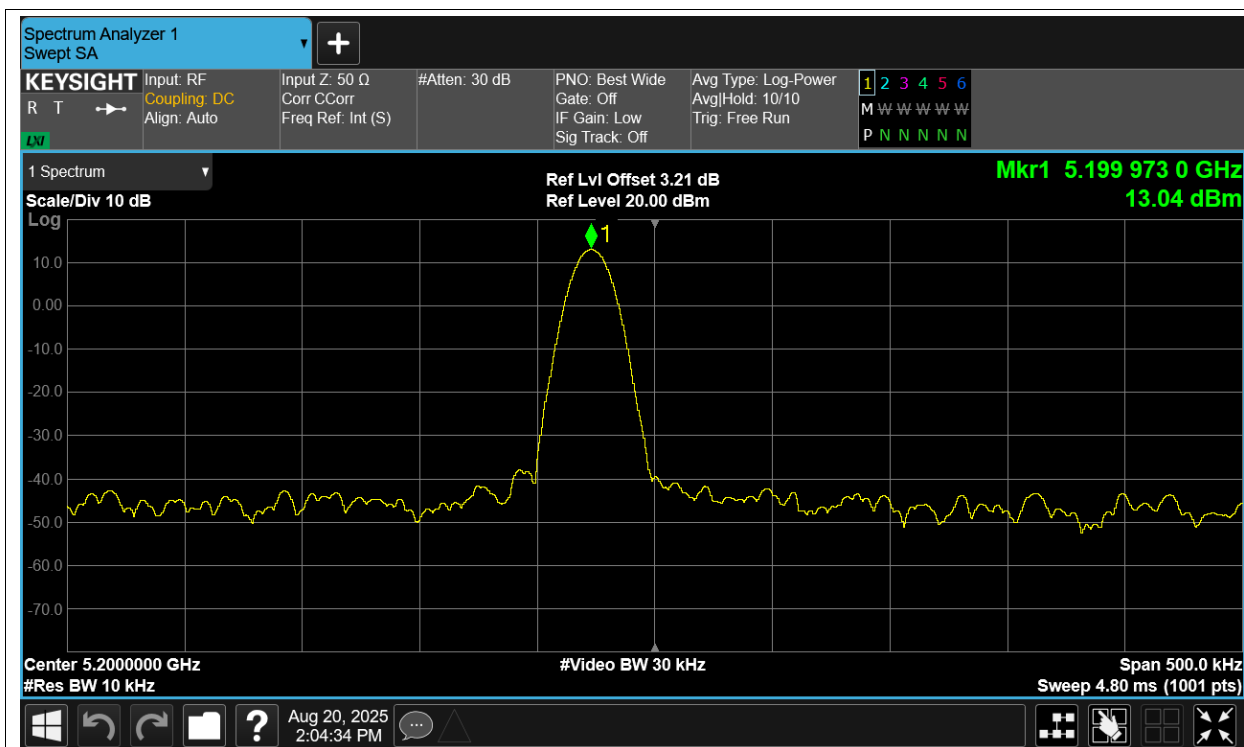
Freq. Stability HVNT 5240MHz Ant1



Freq. Stability LVNT 5180MHz Ant1



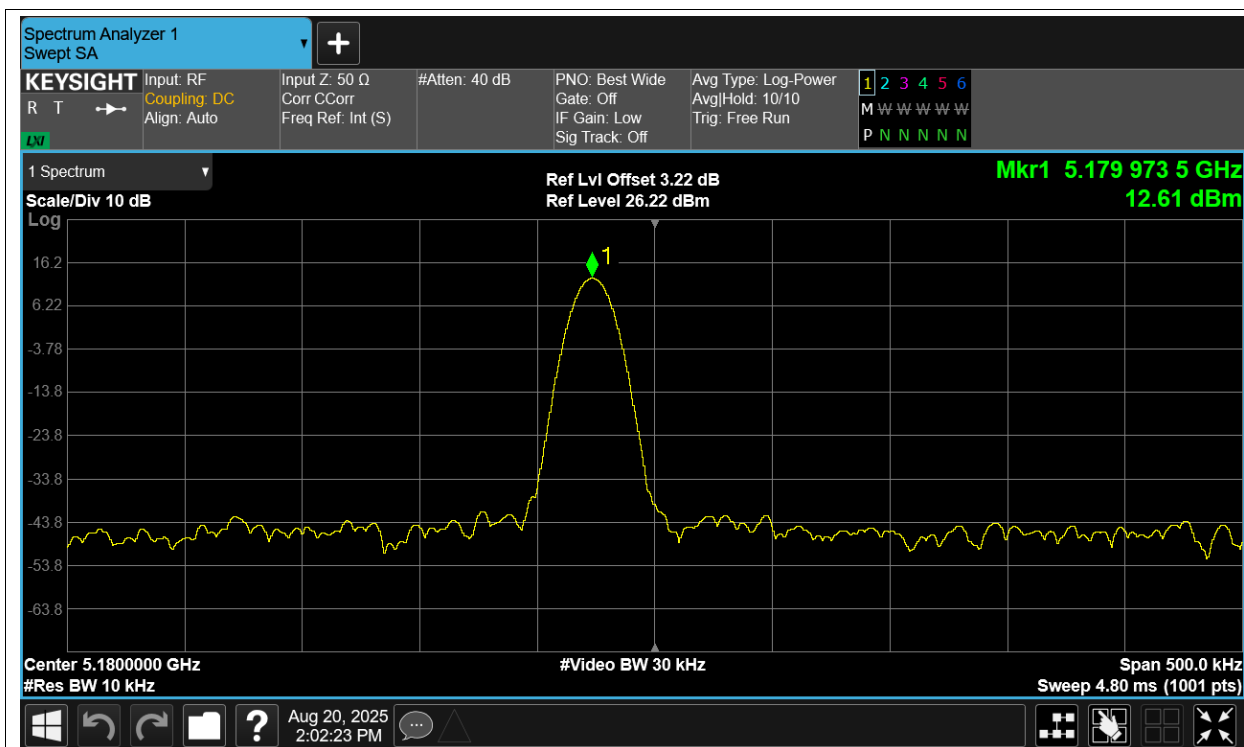
Freq. Stability LVNT 5200MHz Ant1



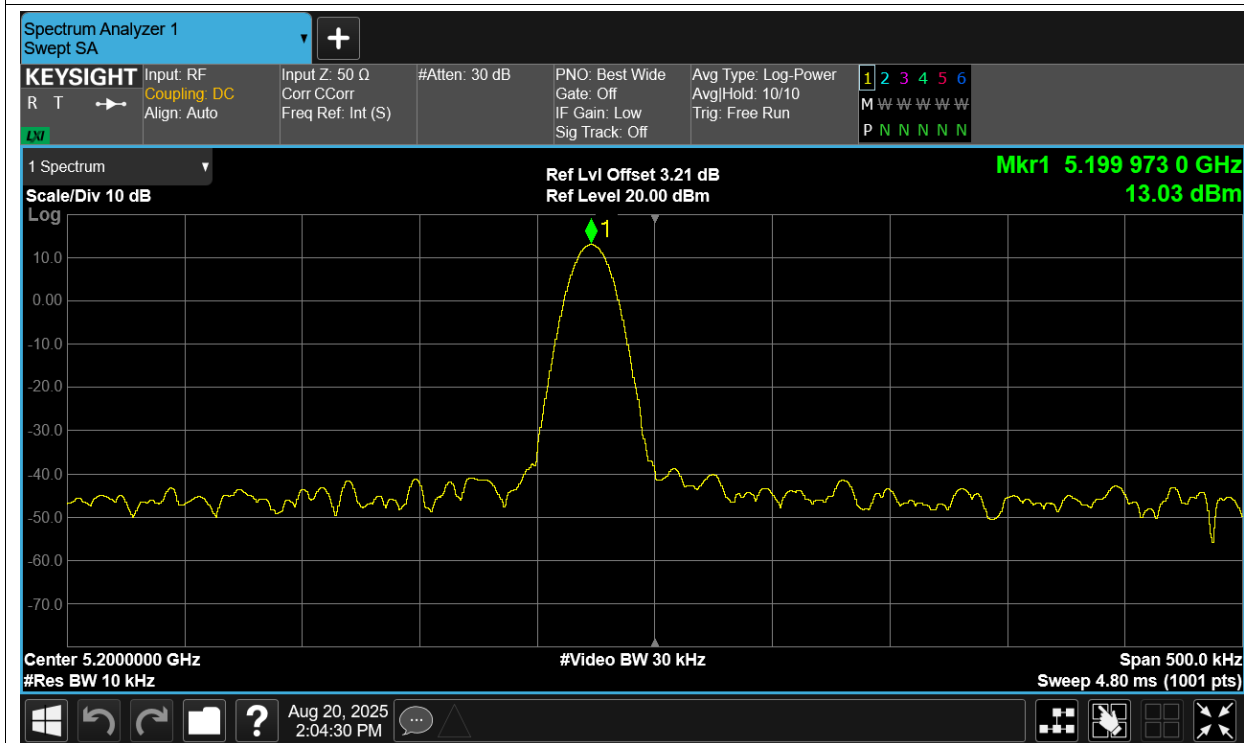
Freq. Stability LVNT 5240MHz Ant1



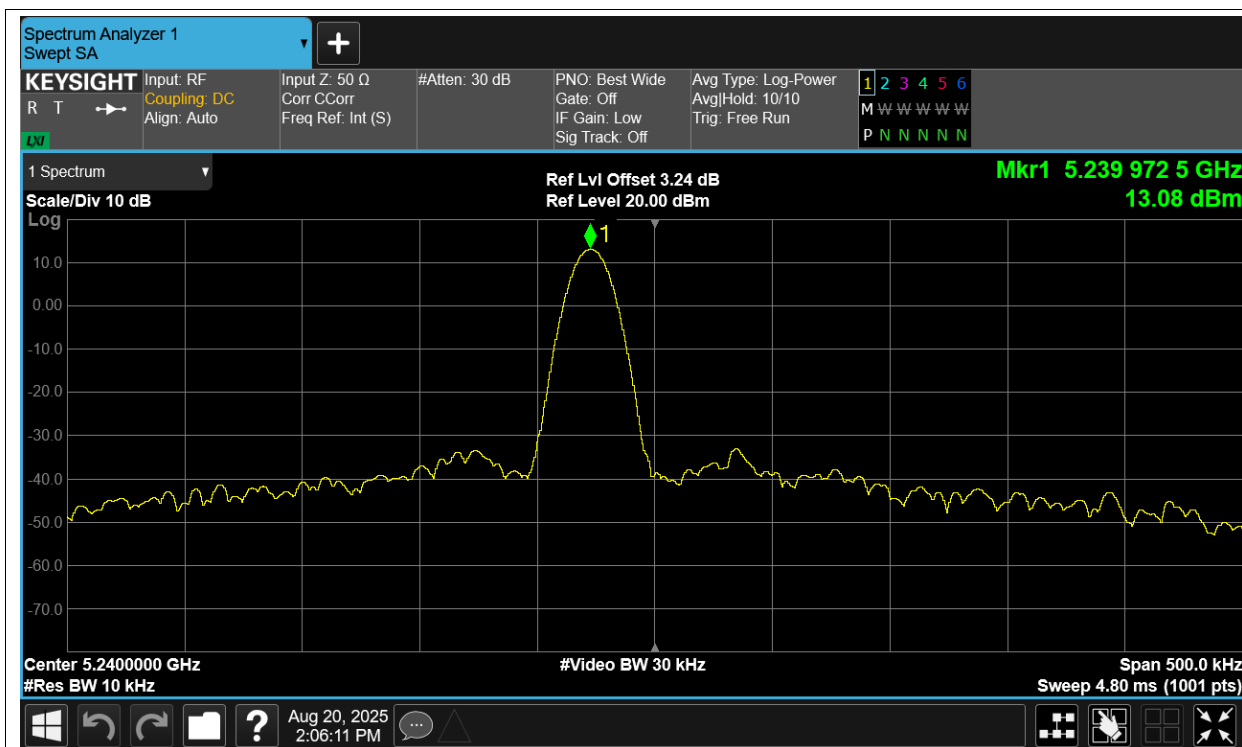
Freq. Stability NVHT 5180MHz Ant1



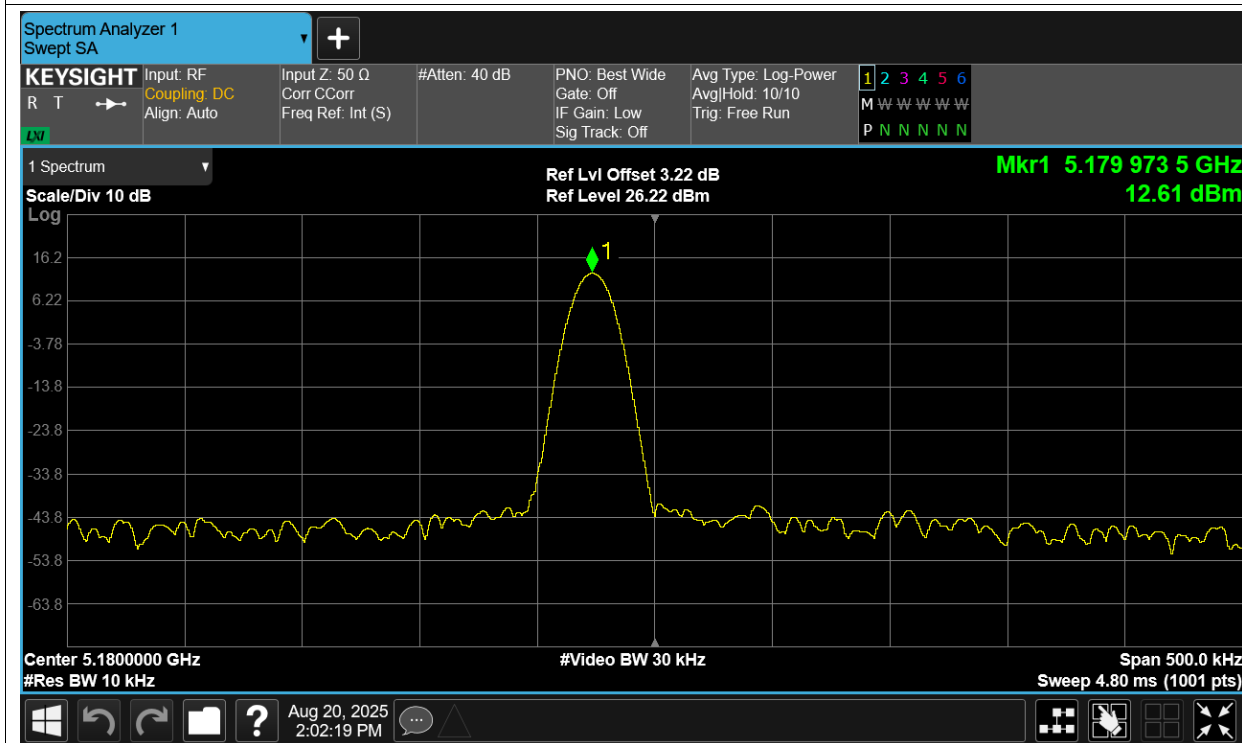
Freq. Stability NVHT 5200MHz Ant1



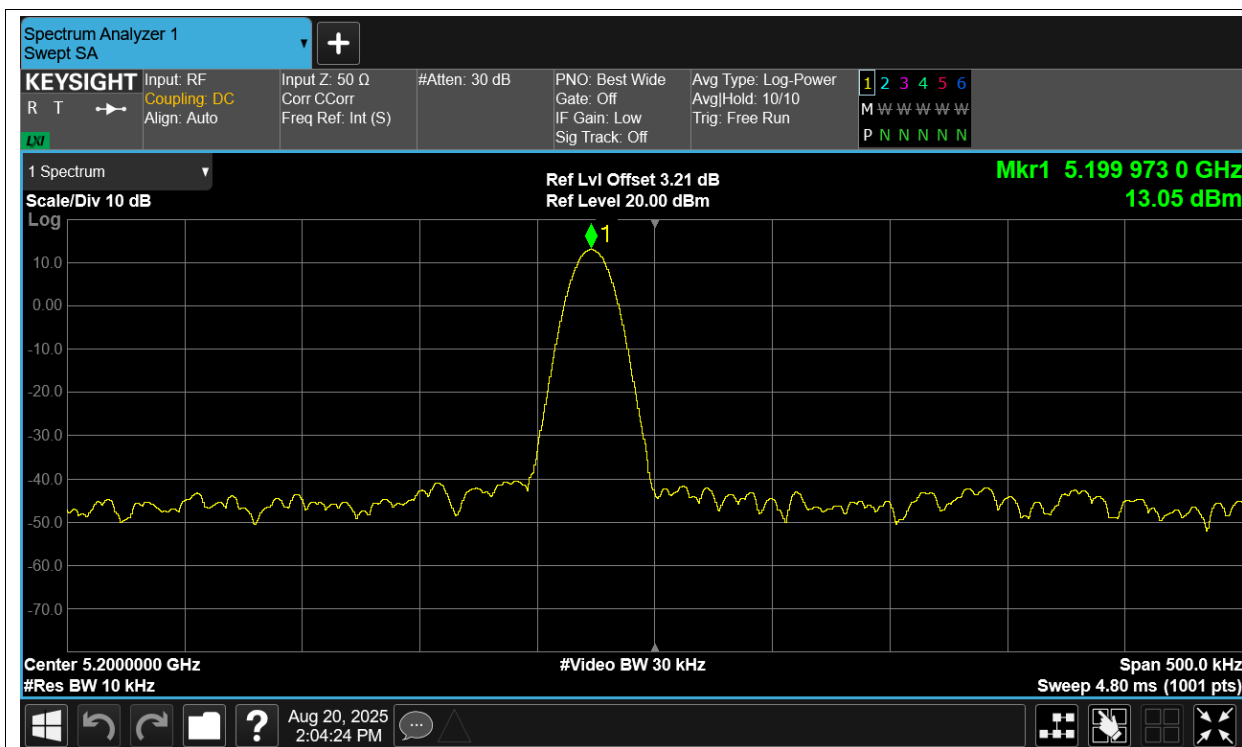
Freq. Stability NVHT 5240MHz Ant1



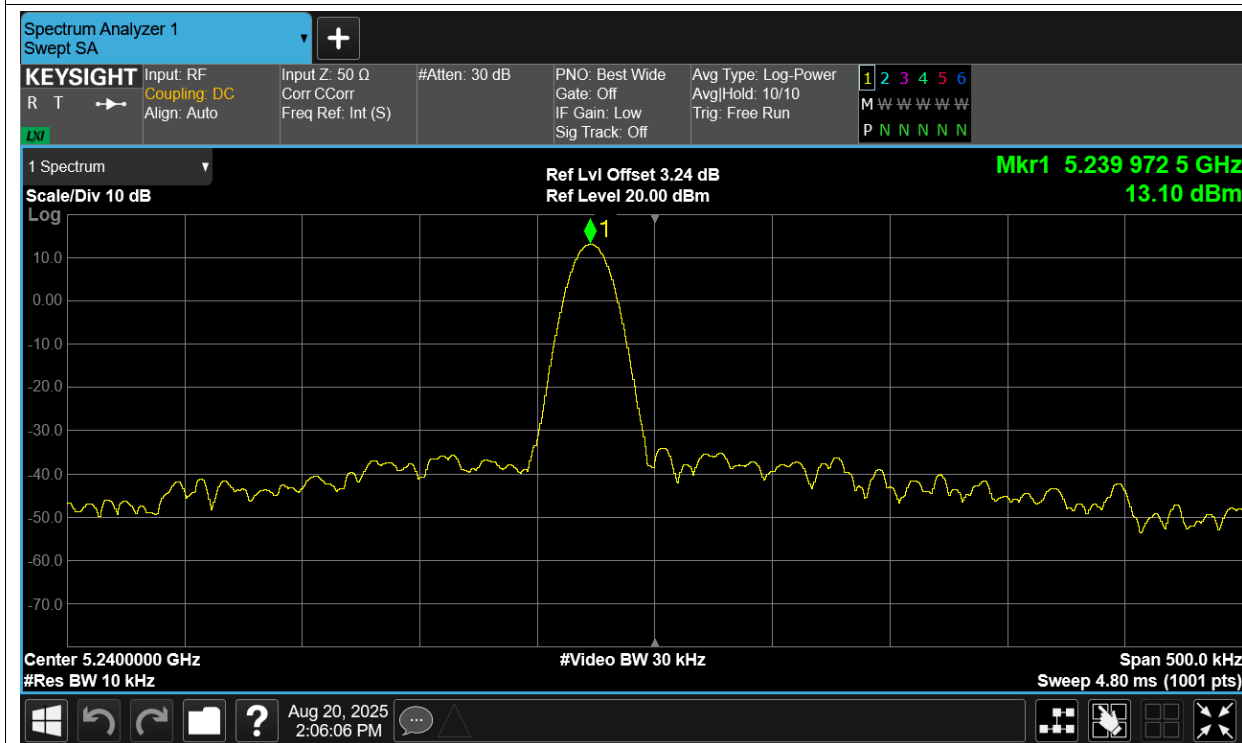
Freq. Stability NVLT 5180MHz Ant1



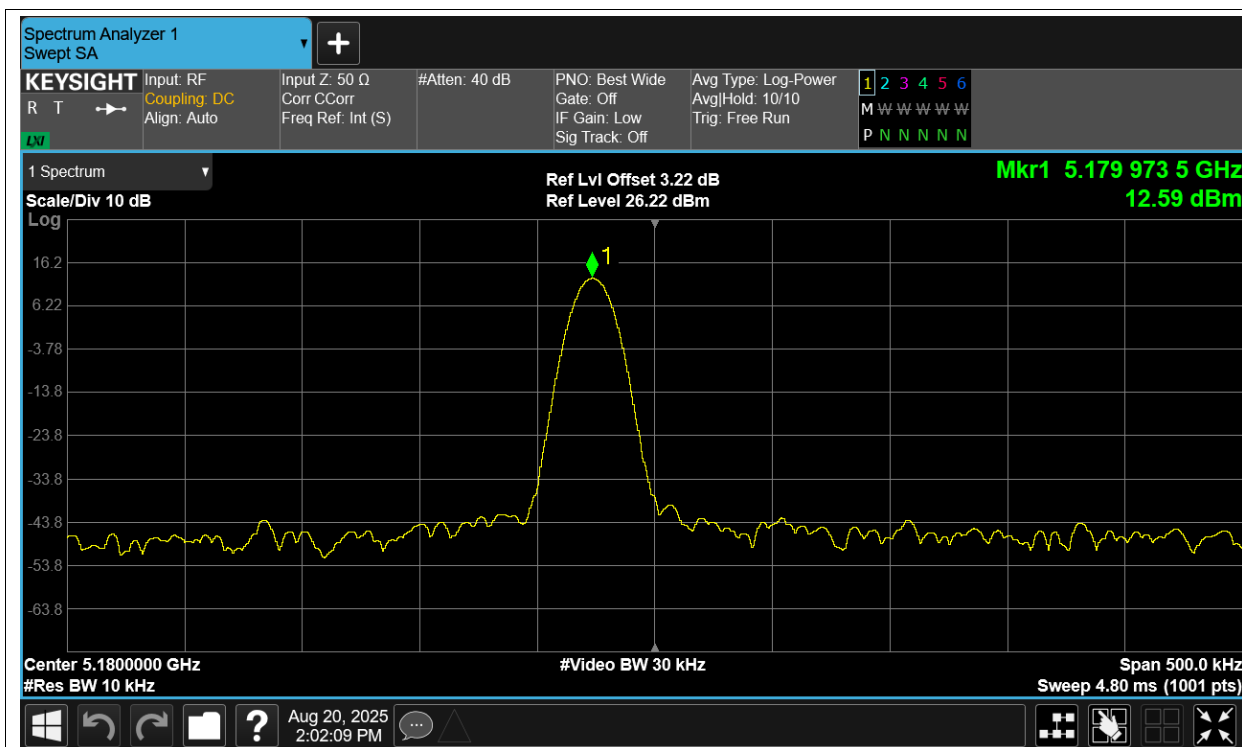
Freq. Stability NVLT 5200MHz Ant1



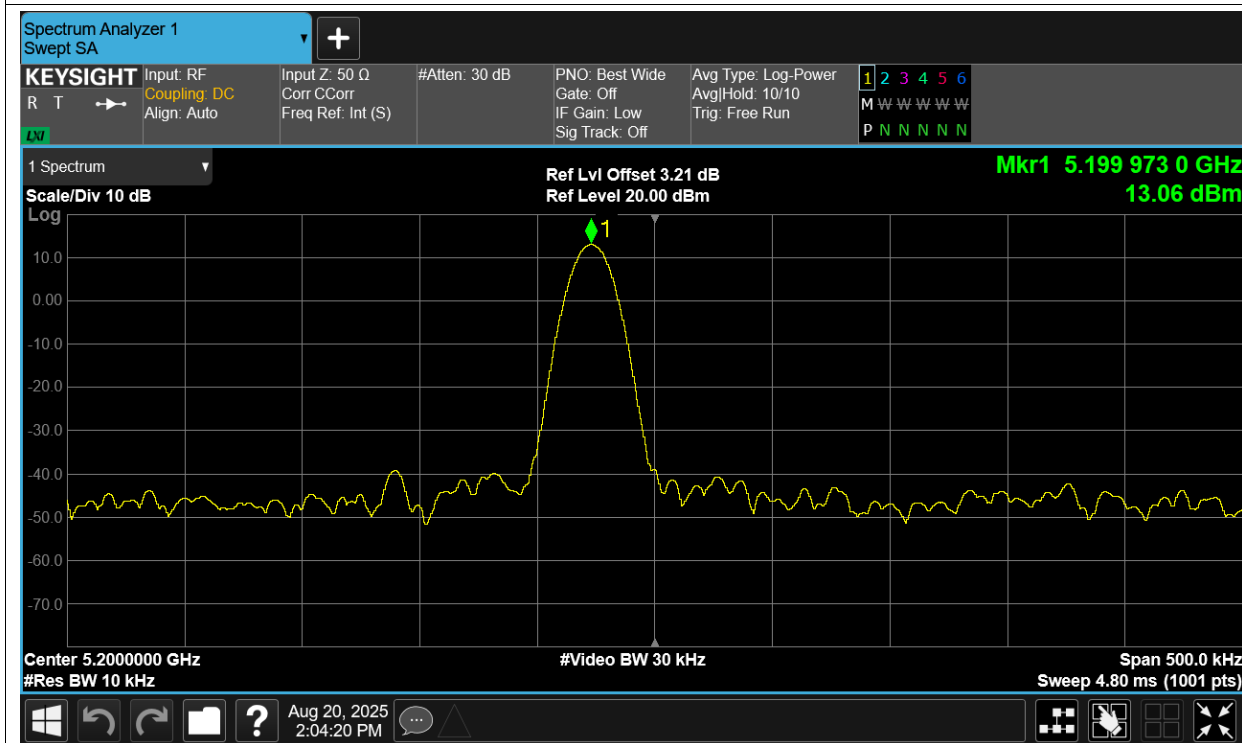
Freq. Stability NVLT 5240MHz Ant1



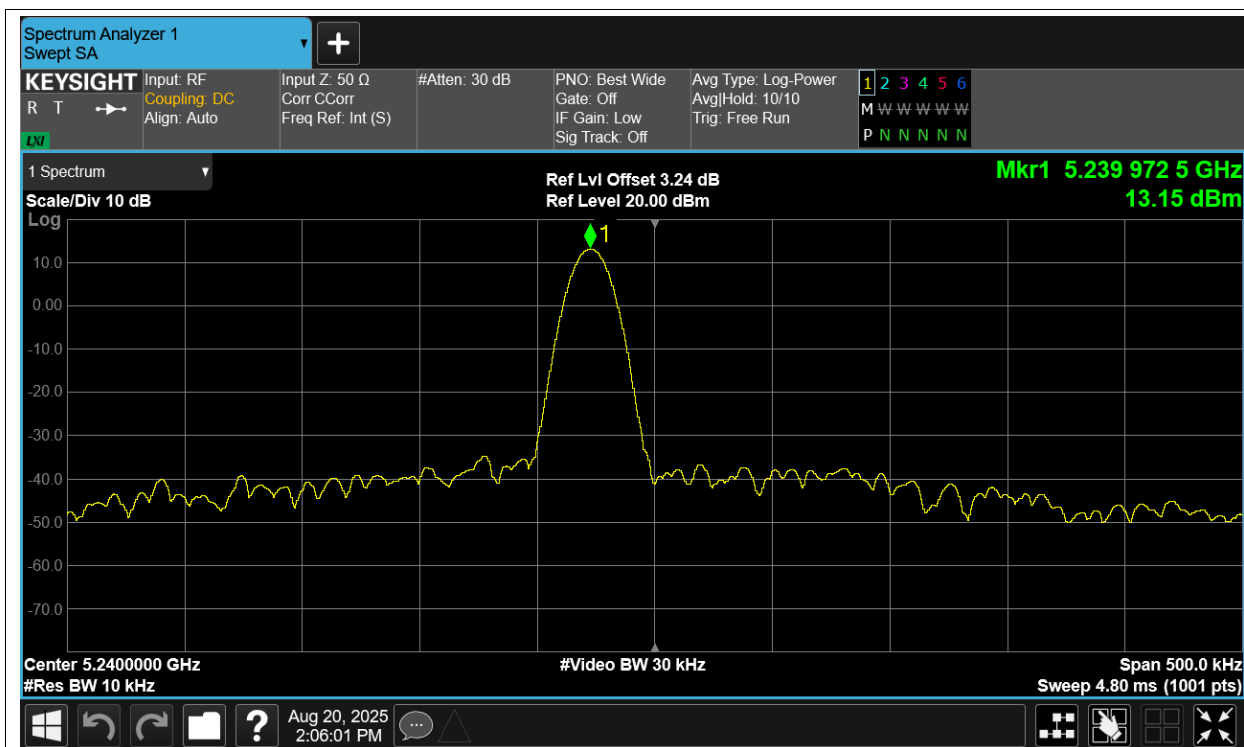
Freq. Stability NVNT 5180MHz Ant1



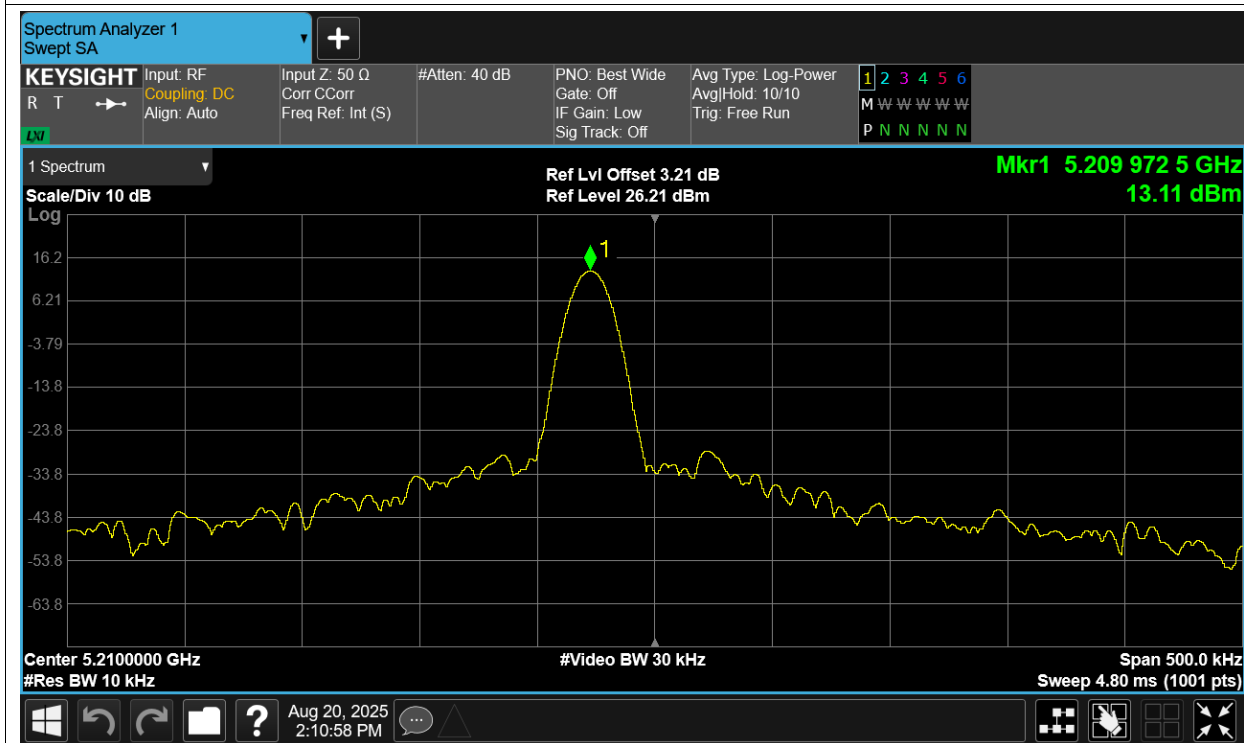
Freq. Stability NVNT 5200MHz Ant1



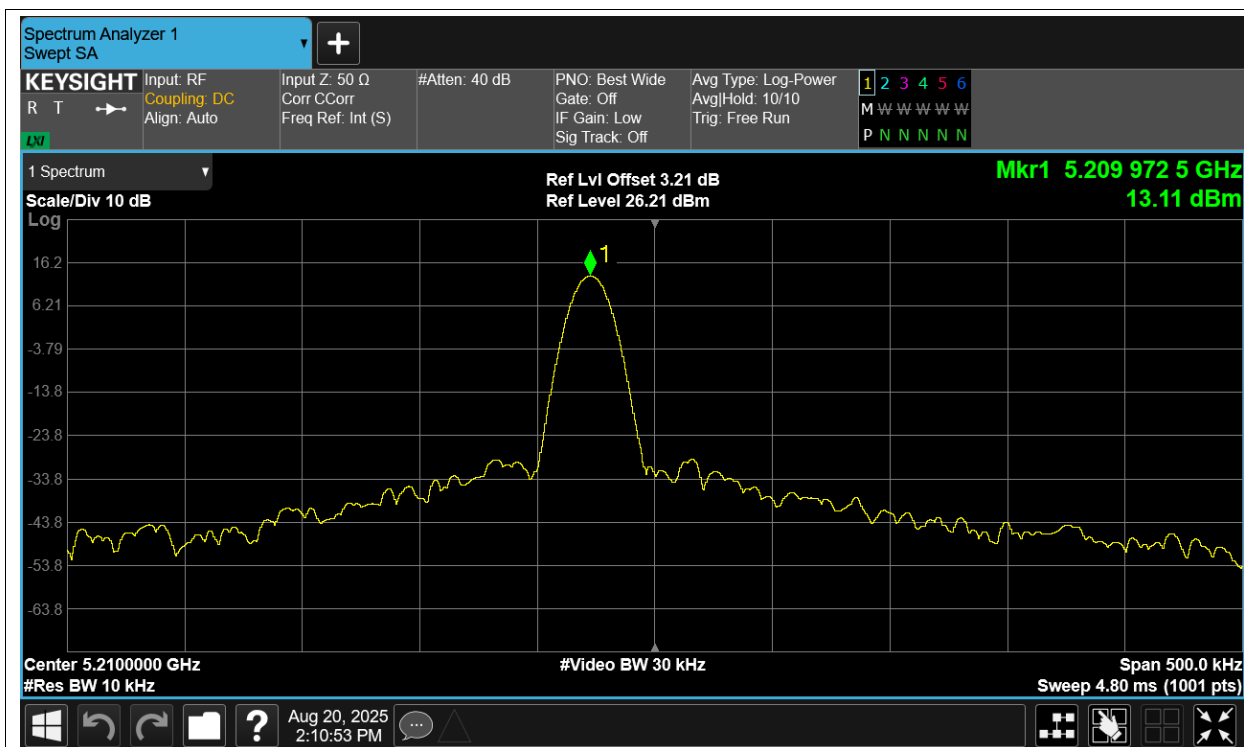
Freq. Stability NVNT 5240MHz Ant1



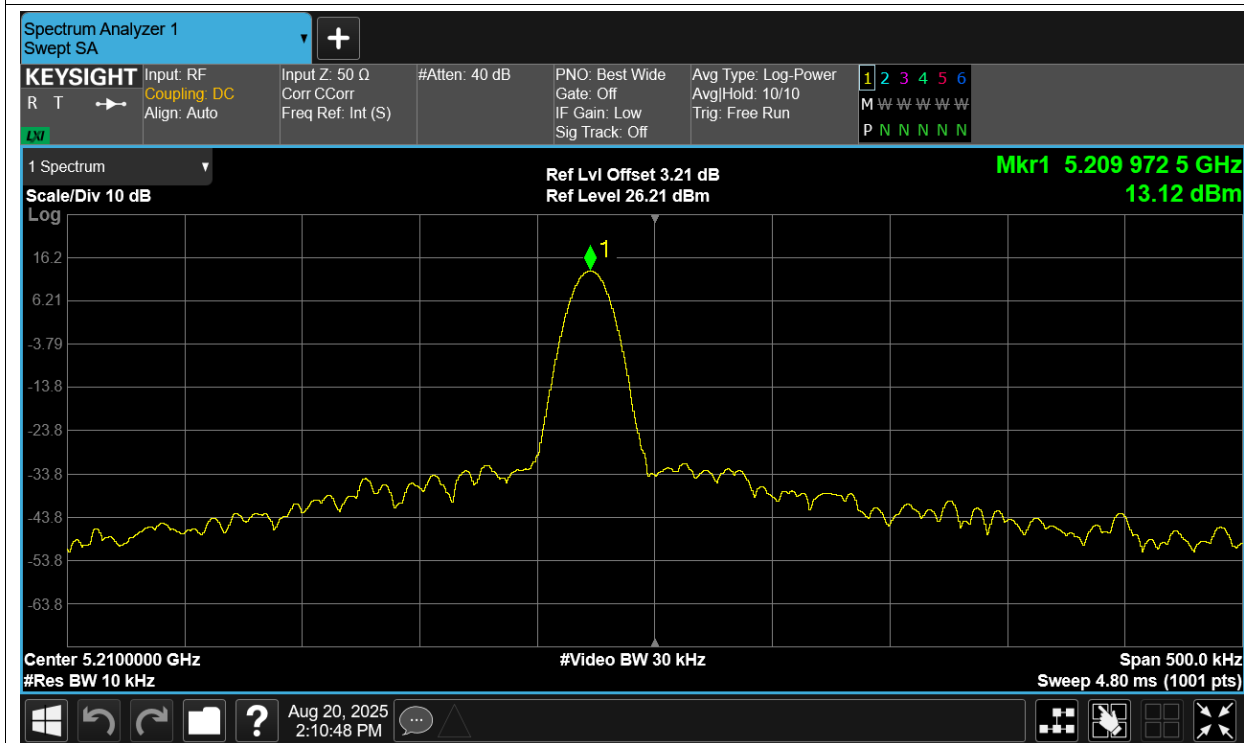
Freq. Stability HVNT ac80 5210MHz Ant1



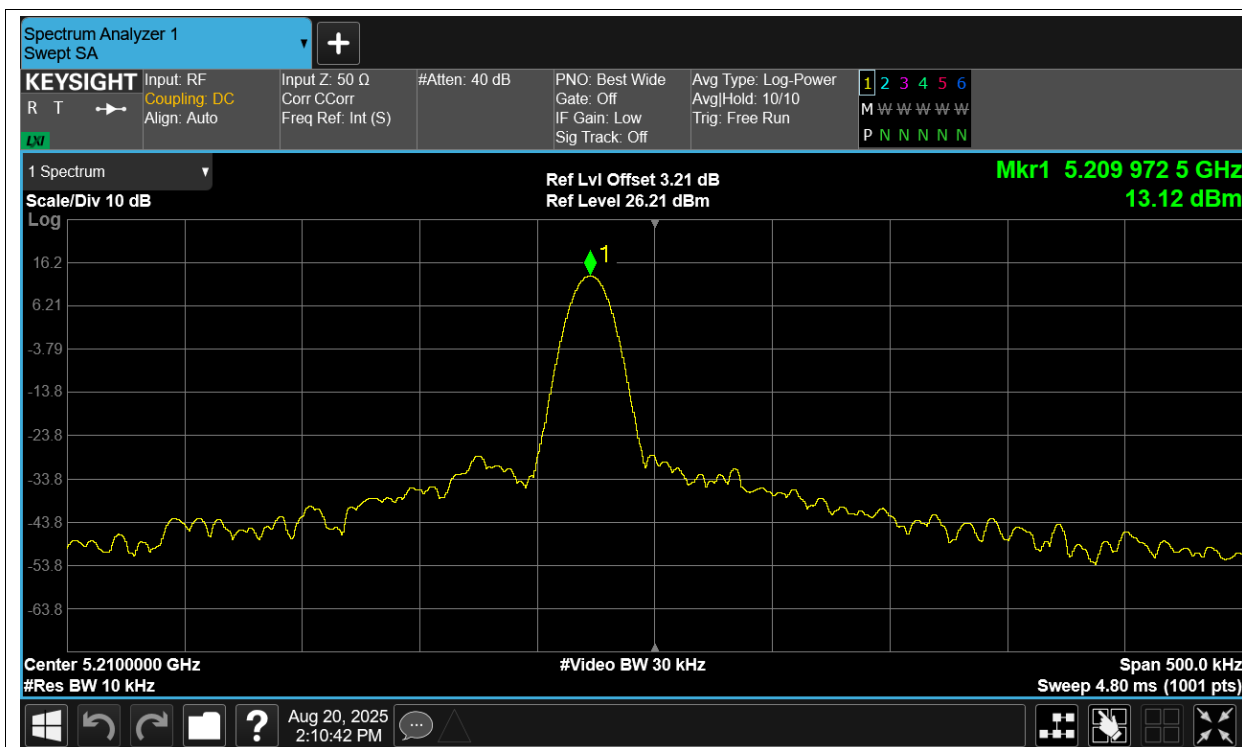
Freq. Stability LVNT 5210MHz Ant1



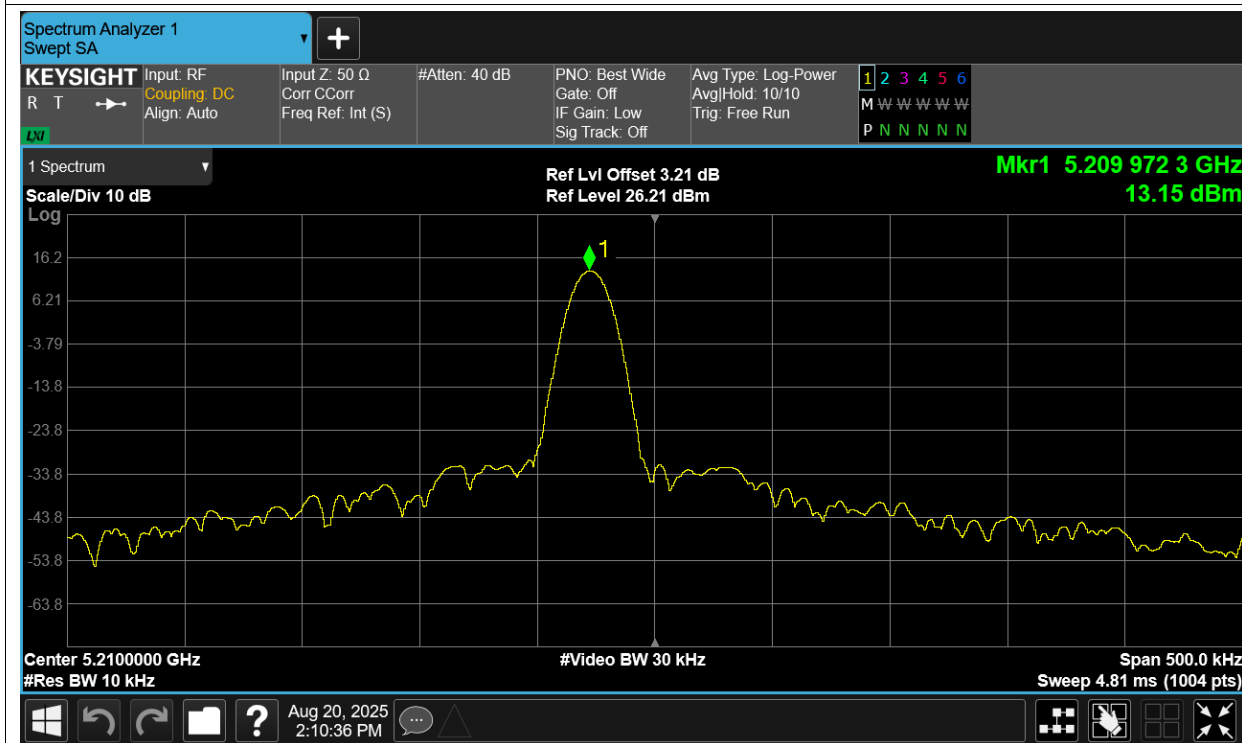
Freq. Stability NVHT 5210MHz Ant1



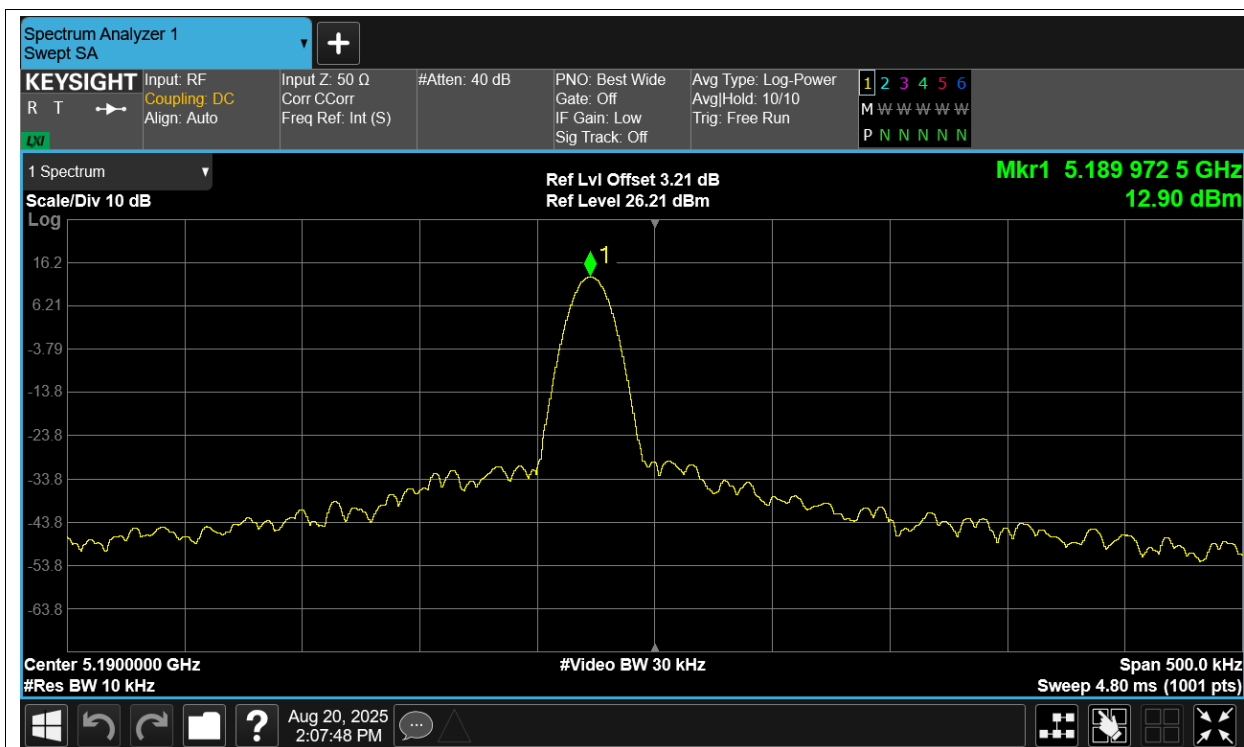
Freq. Stability NVLT 5210MHz Ant1



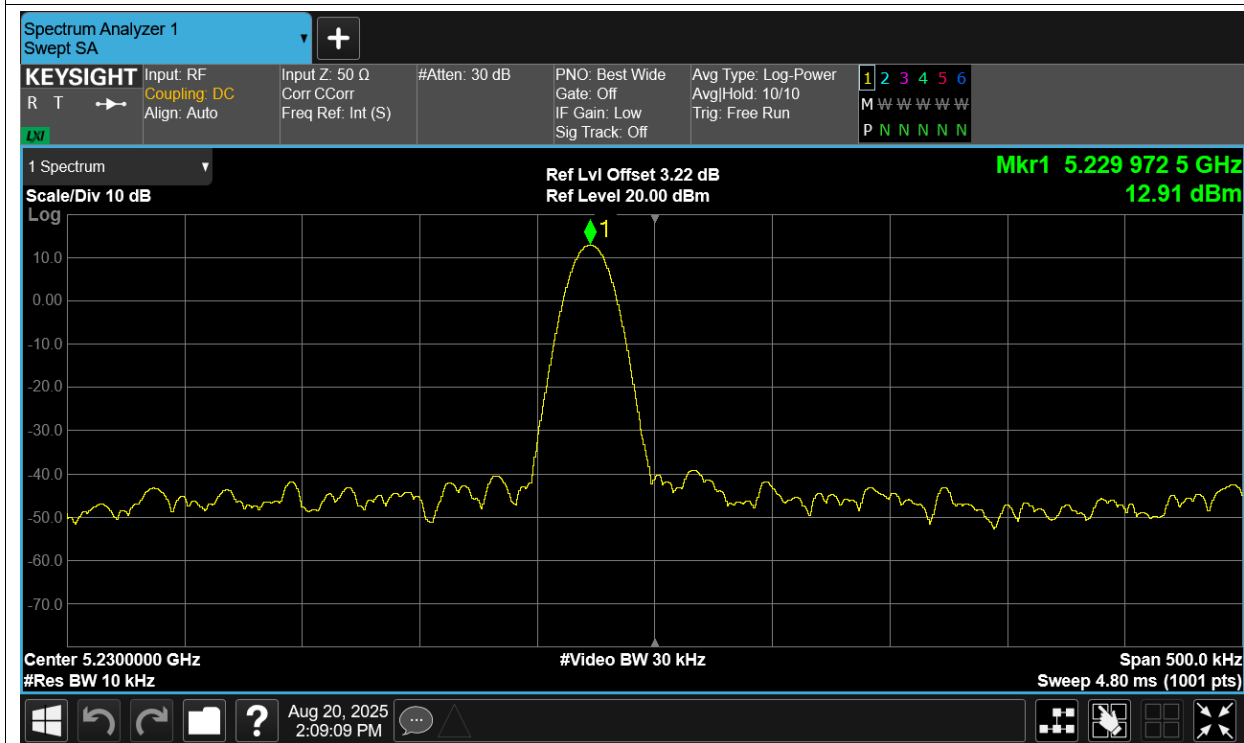
Freq. Stability NVNT 5210MHz Ant1



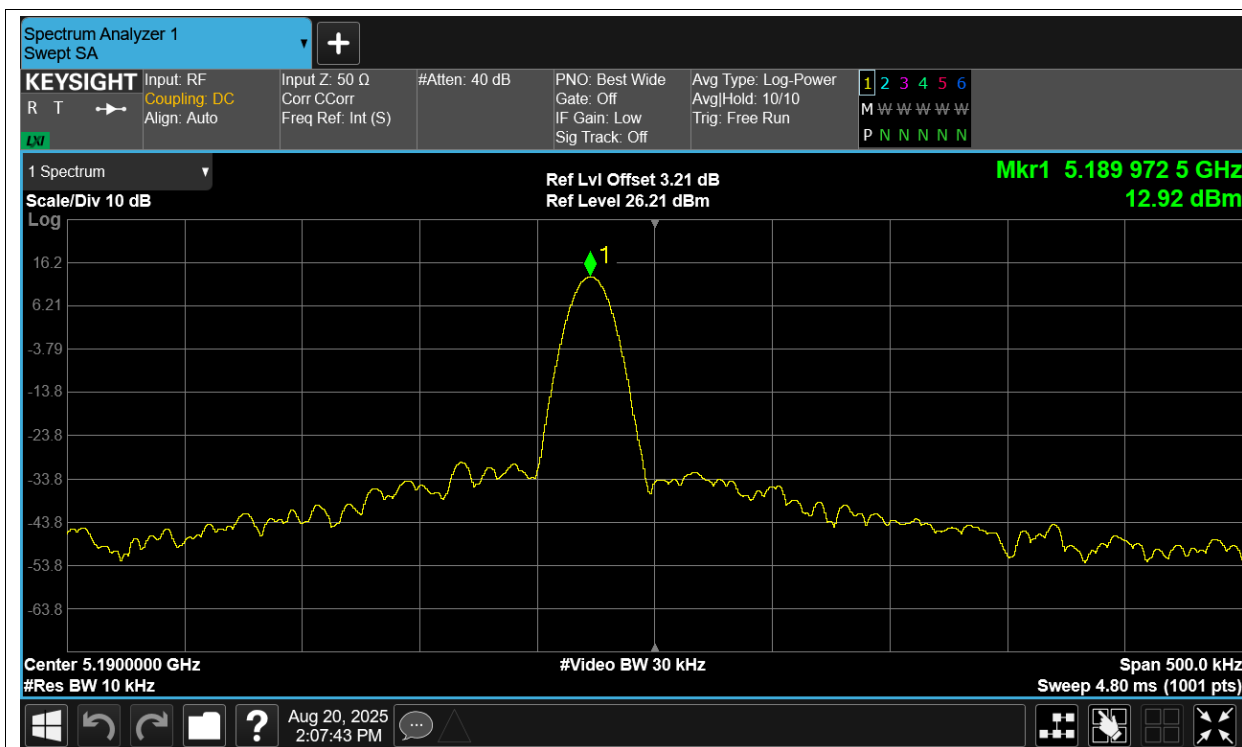
Freq. Stability HVNT 5190MHz Ant1



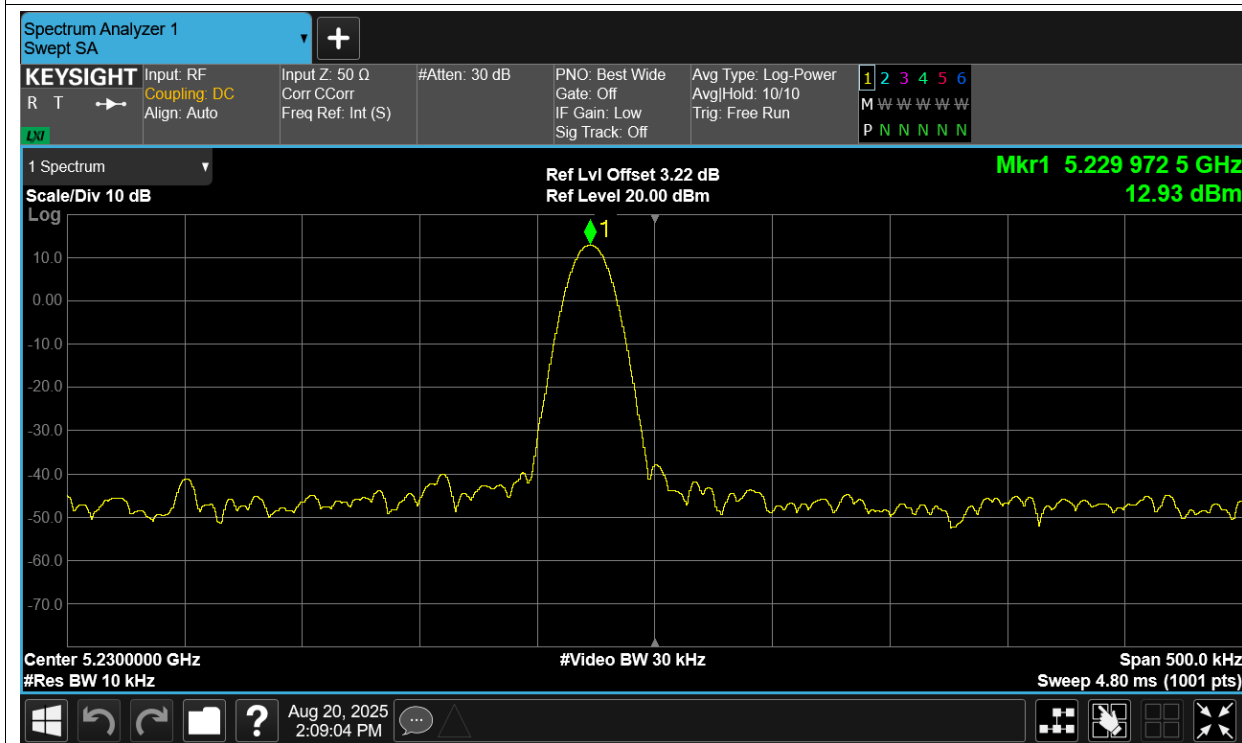
Freq. Stability HVNT 5230MHz Ant1



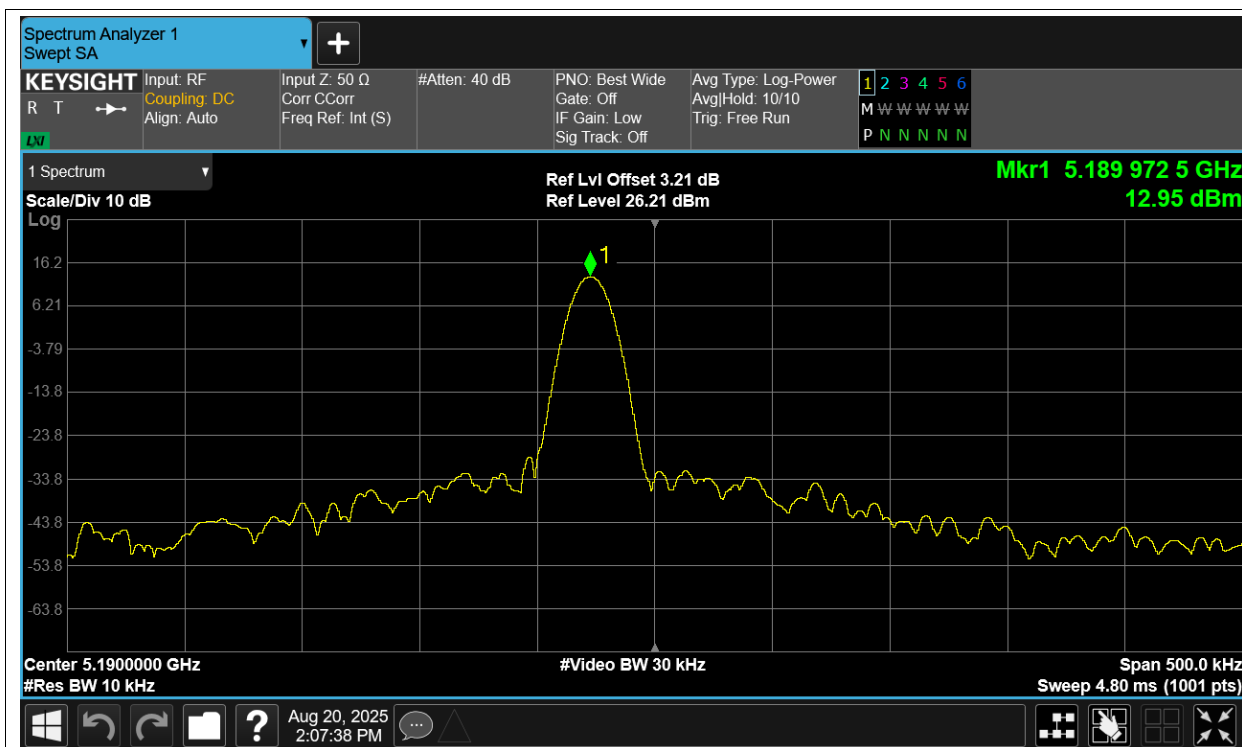
Freq. Stability LVNT 5190MHz Ant1



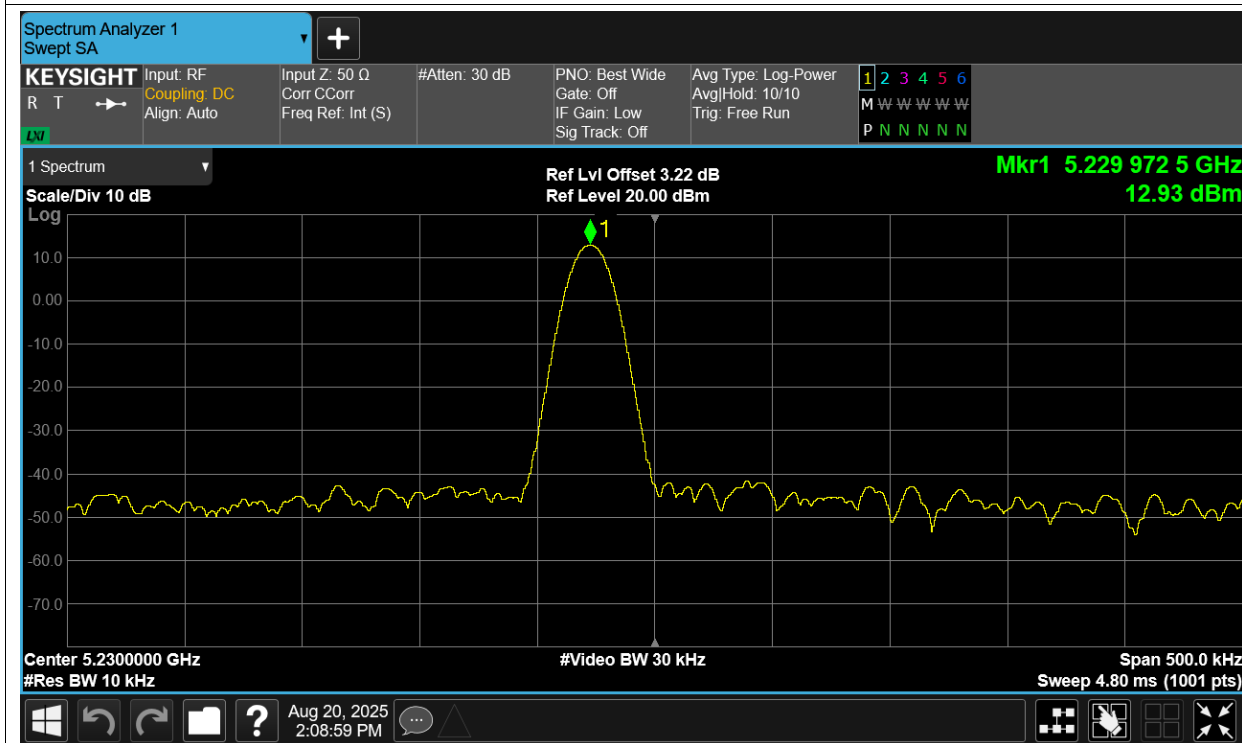
Freq. Stability LVNT 5230MHz Ant1



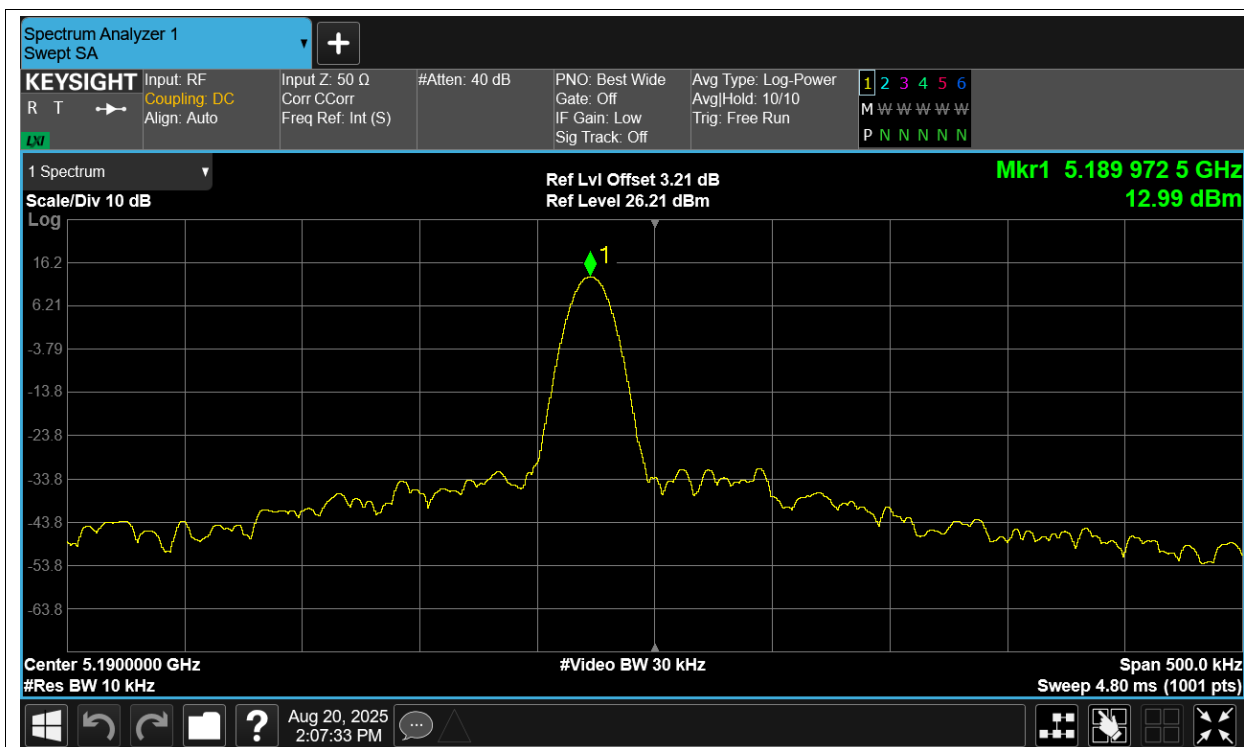
Freq. Stability NVHT 5190MHz Ant1



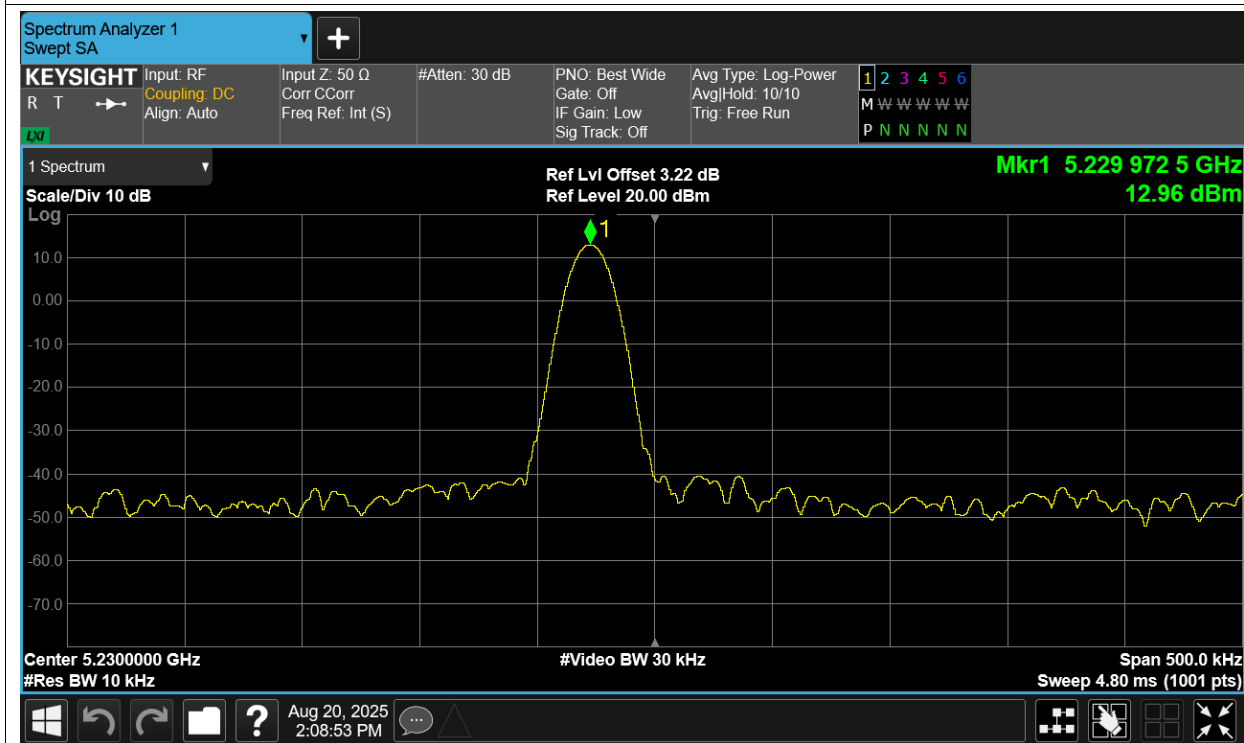
Freq. Stability NVHT 5230MHz Ant1



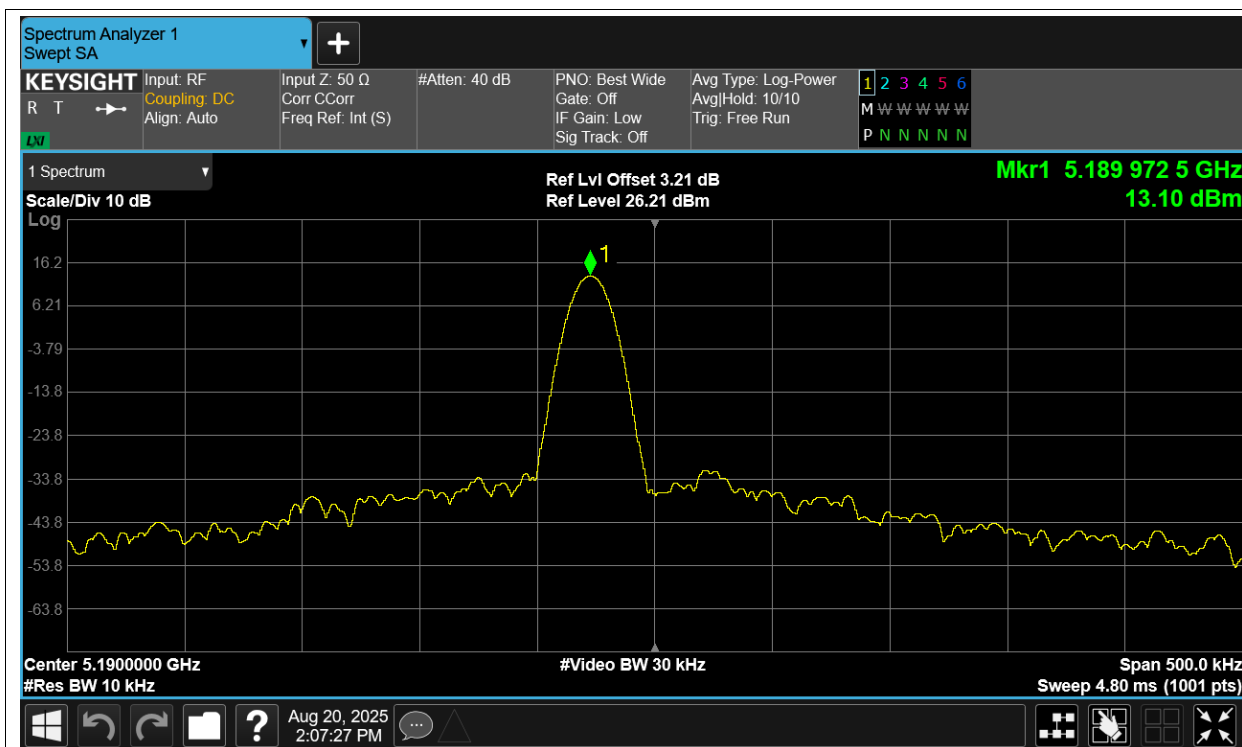
Freq. Stability NVLT 5190MHz Ant1



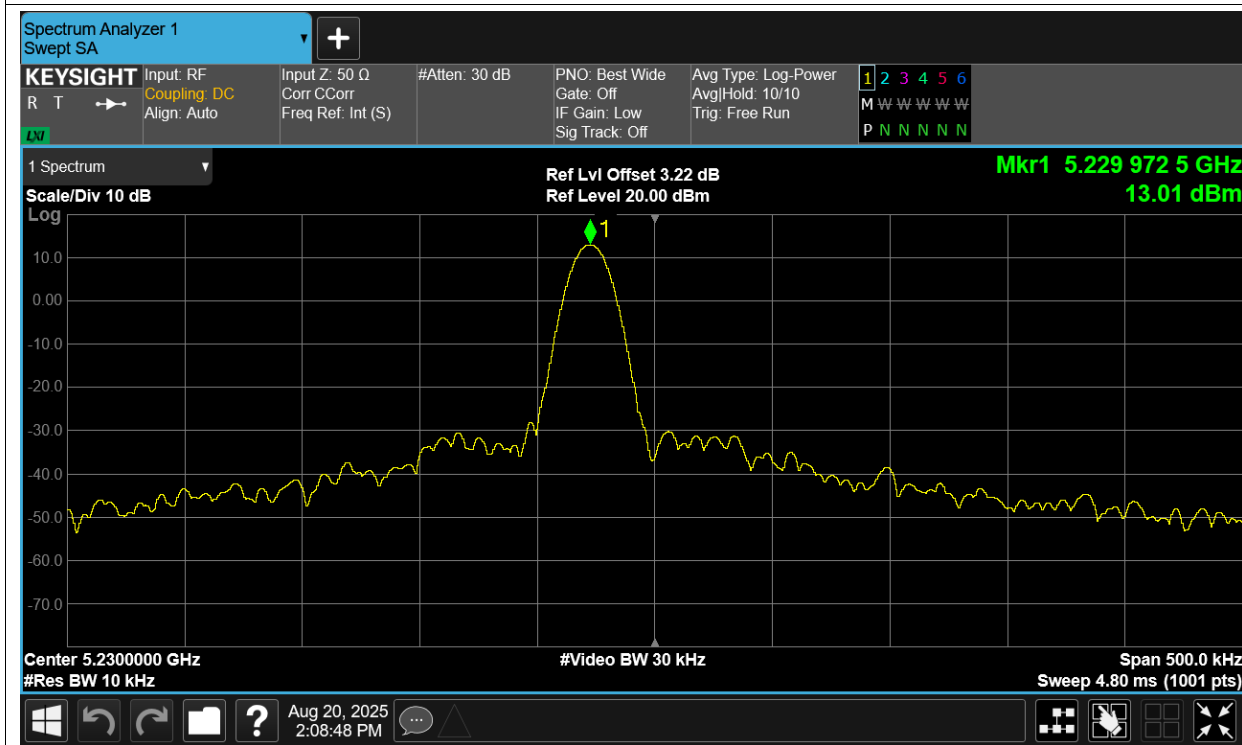
Freq. Stability NVLT 5230MHz Ant1



Freq. Stability NVNT 5190MHz Ant1



Freq. Stability NVNT 5230MHz Ant1

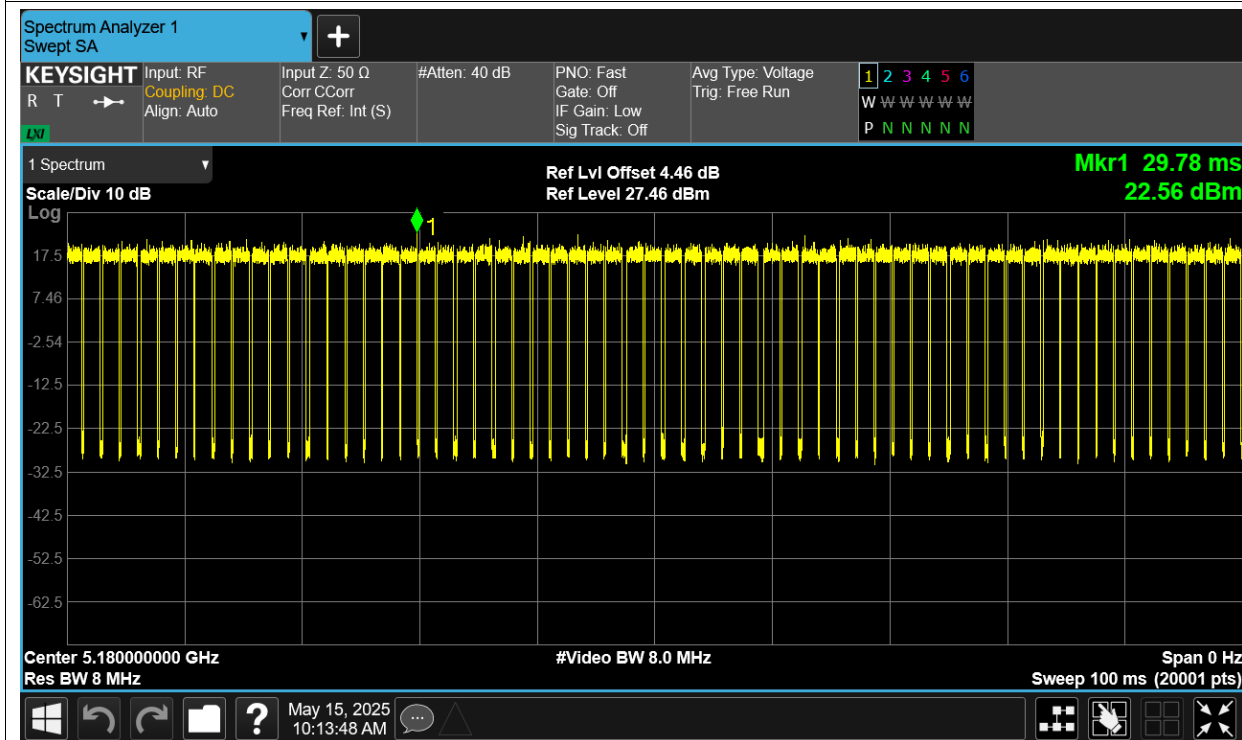


Duty Cycle

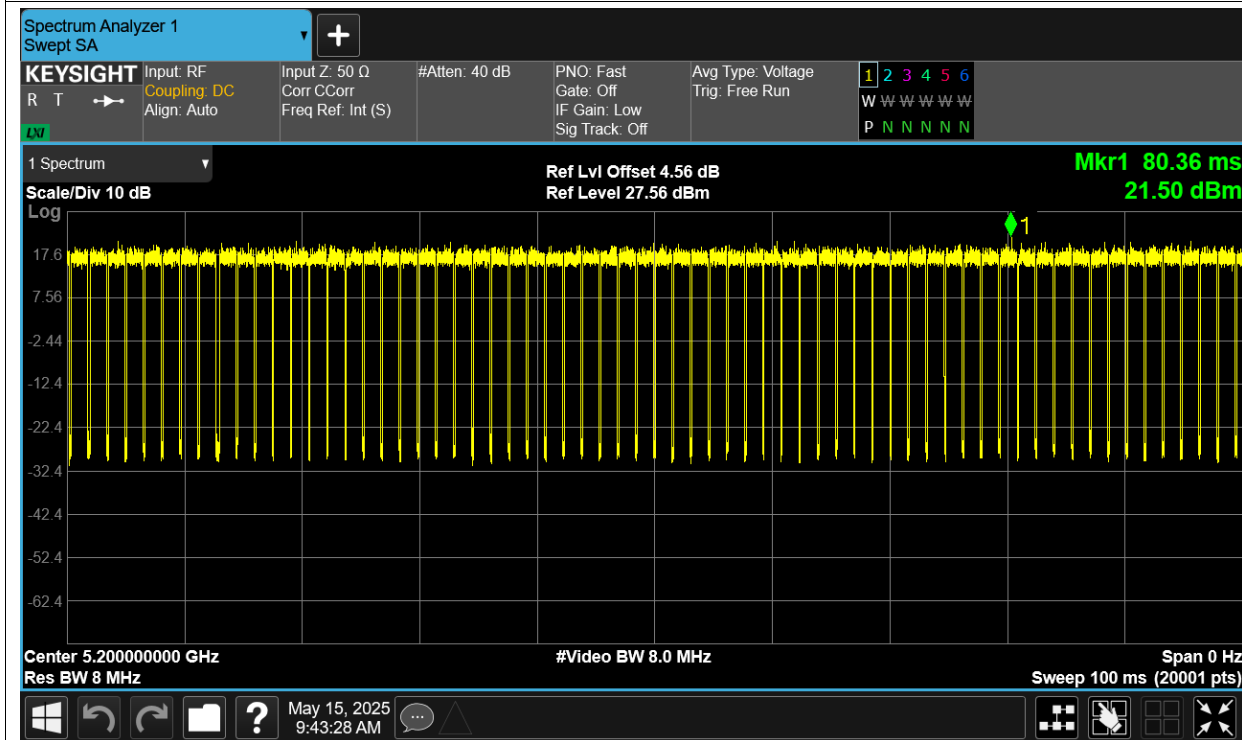
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	87.87	0.56
NVNT	a	5200	Ant1	90.13	0.45
NVNT	a	5240	Ant1	89.3	0.49
NVNT	ac20	5180	Ant1	88.42	0.53
NVNT	ac20	5200	Ant1	88.56	0.53
NVNT	ac20	5240	Ant1	88.44	0.53
NVNT	ac40	5190	Ant1	77.46	1.11
NVNT	ac40	5230	Ant1	79.27	1.01
NVNT	ac80	5210	Ant1	66.55	1.77
NVNT	n20	5180	Ant1	88.53	0.53
NVNT	n20	5200	Ant1	88.56	0.53
NVNT	n20	5240	Ant1	88.41	0.54
NVNT	n40	5190	Ant1	79.3	1.01
NVNT	n40	5230	Ant1	80.13	0.96

Test Graphs

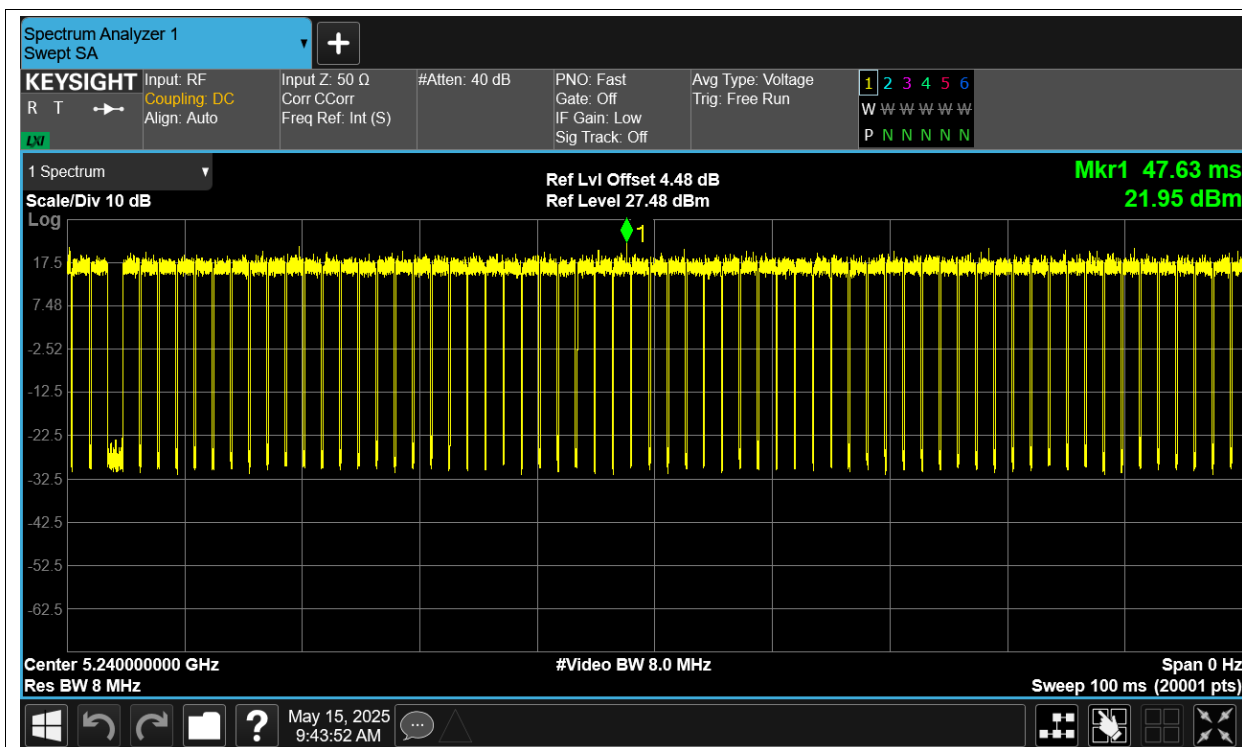
Duty Cycle NVNT a 5180MHz Ant1



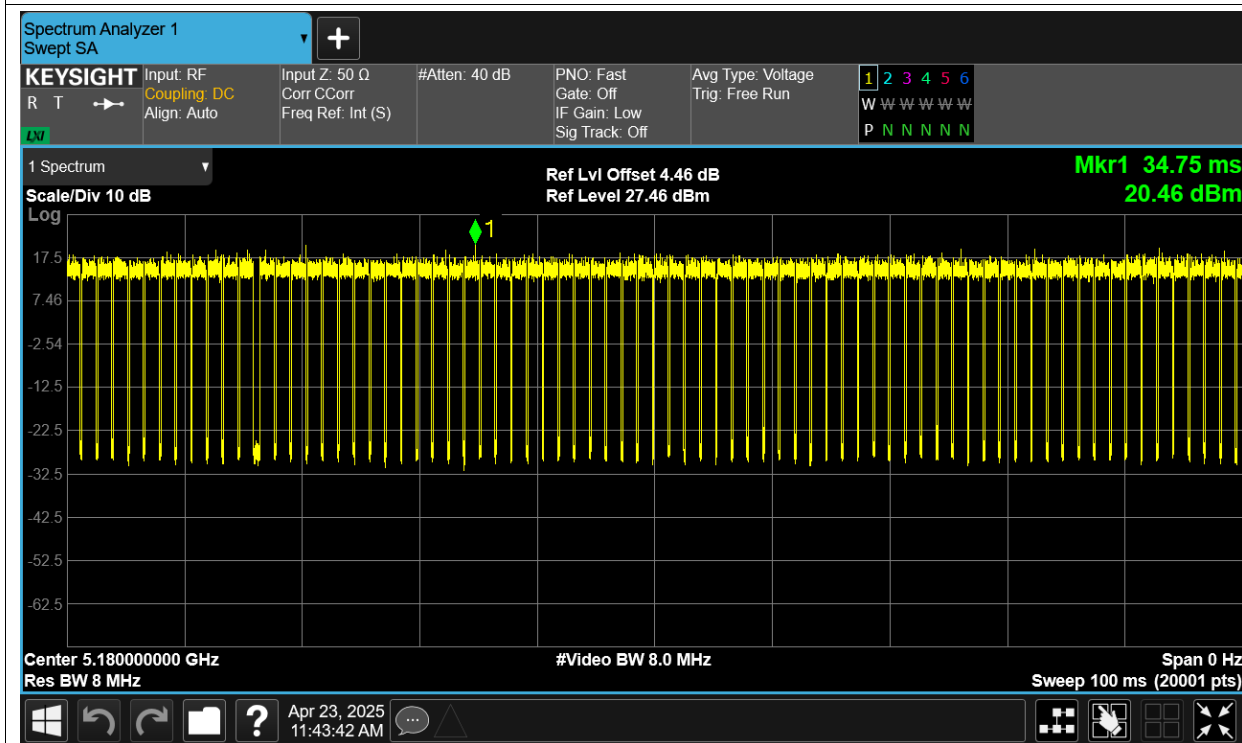
Duty Cycle NVNT a 5200MHz Ant1



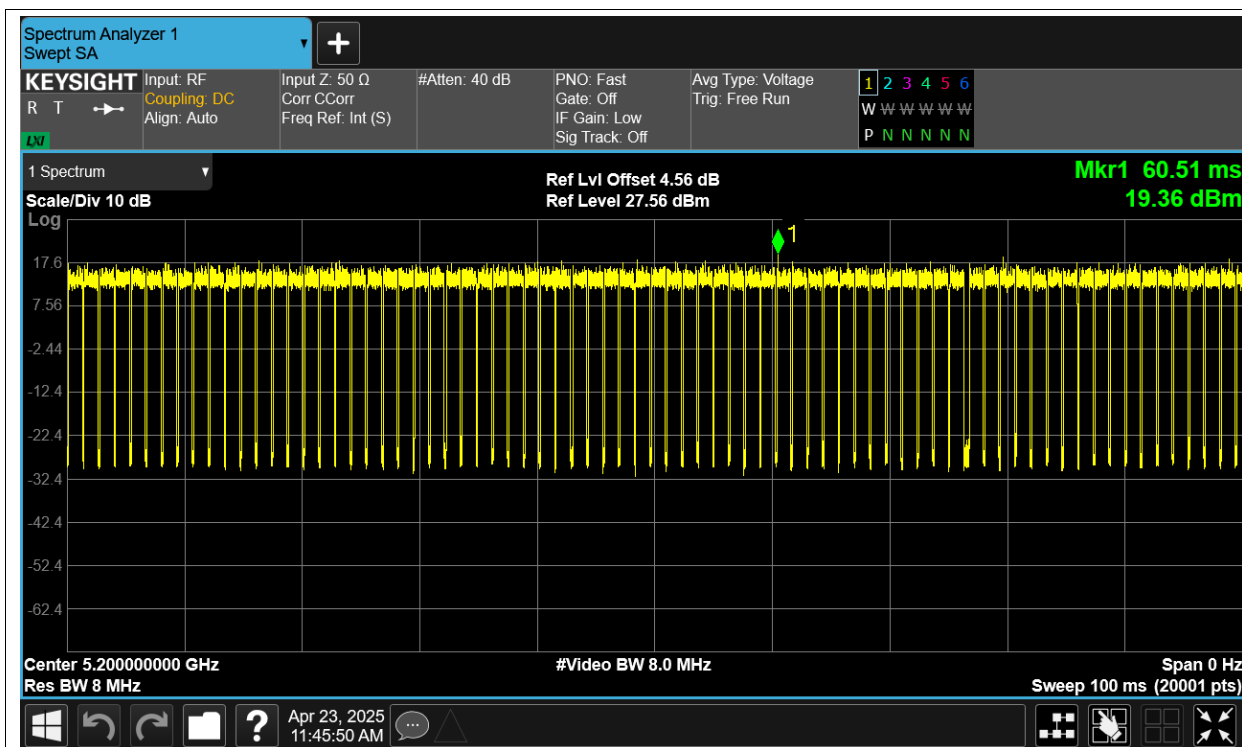
Duty Cycle NVNT a 5240MHz Ant1



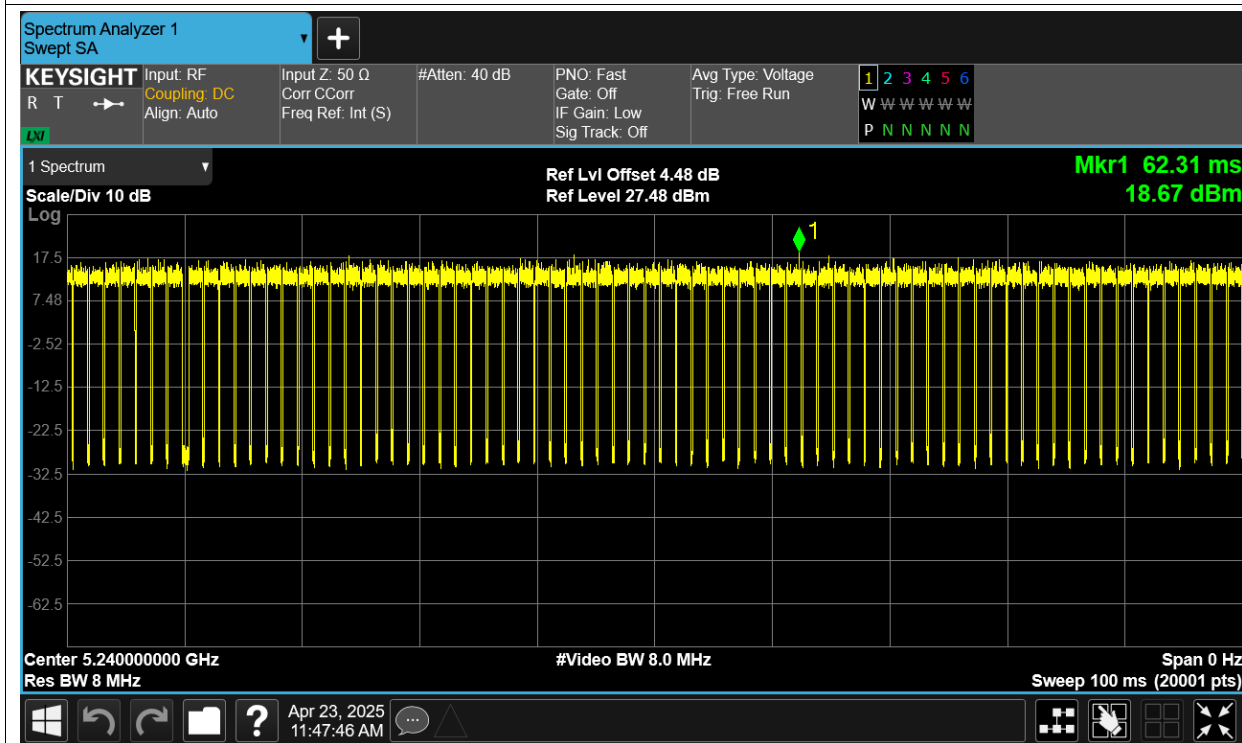
Duty Cycle NVNT ac20 5180MHz Ant1



Duty Cycle NVNT ac20 5200MHz Ant1



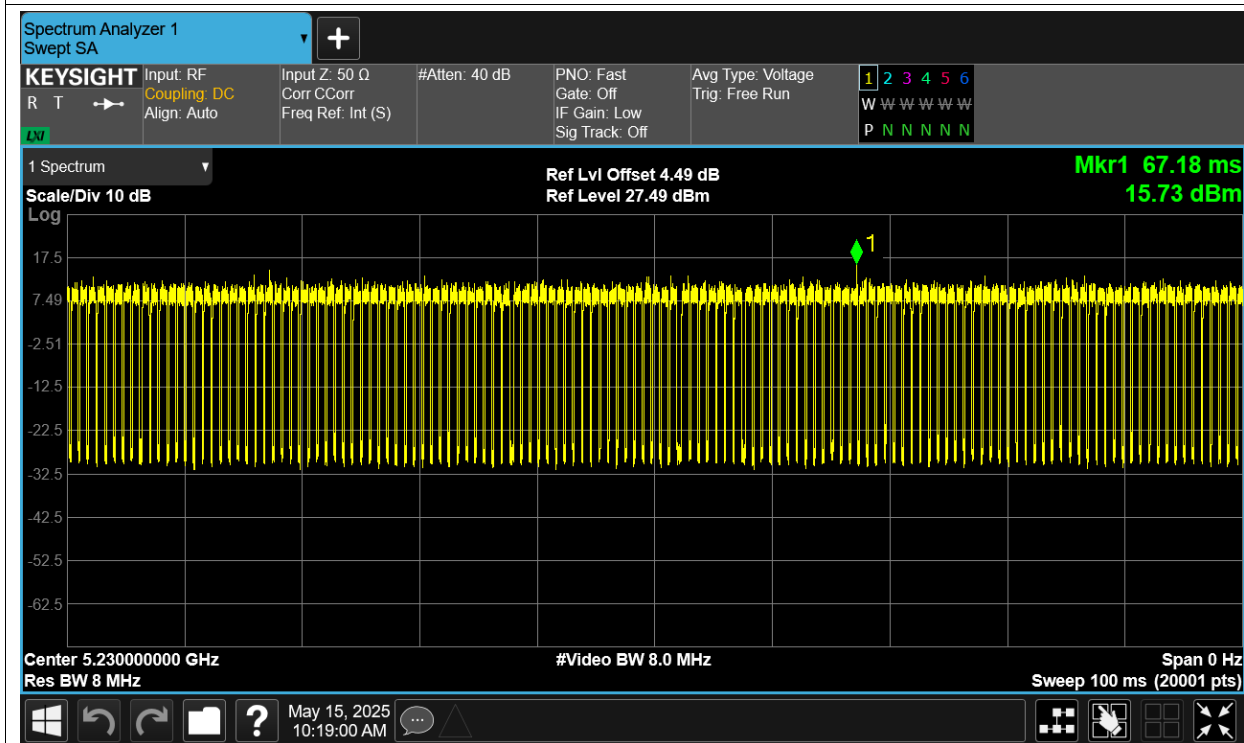
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



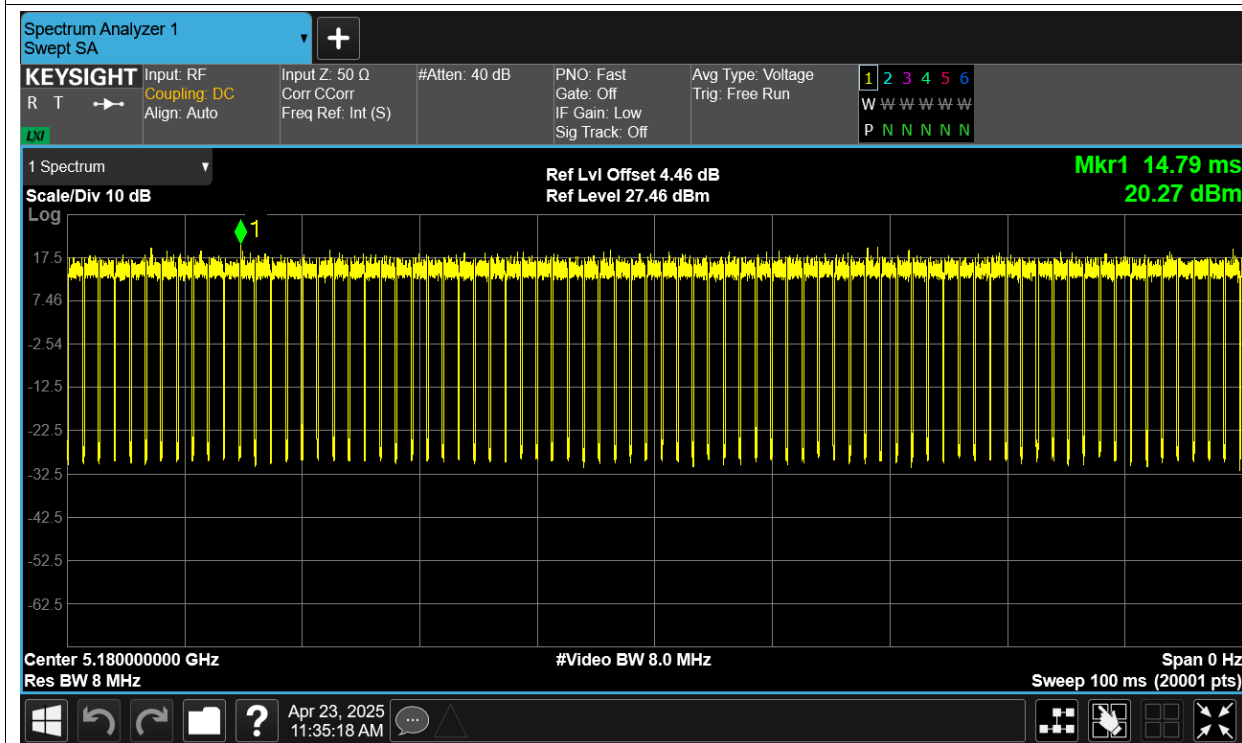
Duty Cycle NVNT ac40 5230MHz Ant1



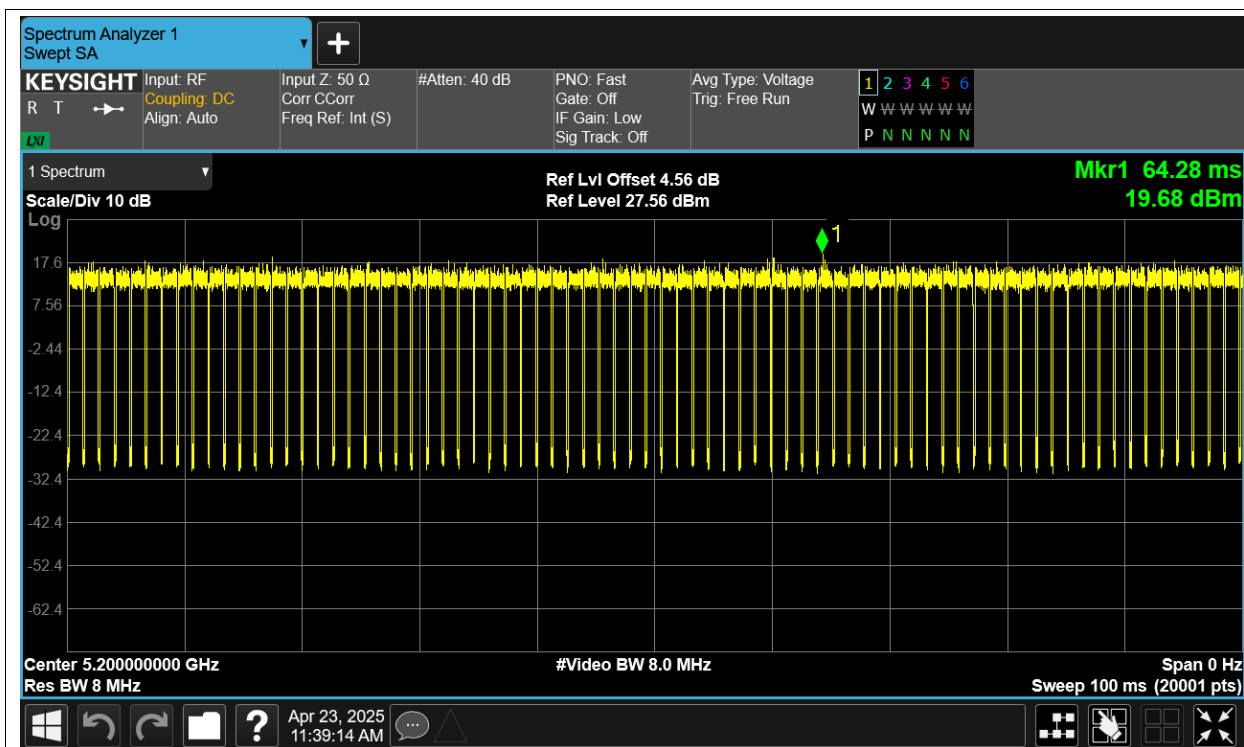
Duty Cycle NVNT ac80 5210MHz Ant1



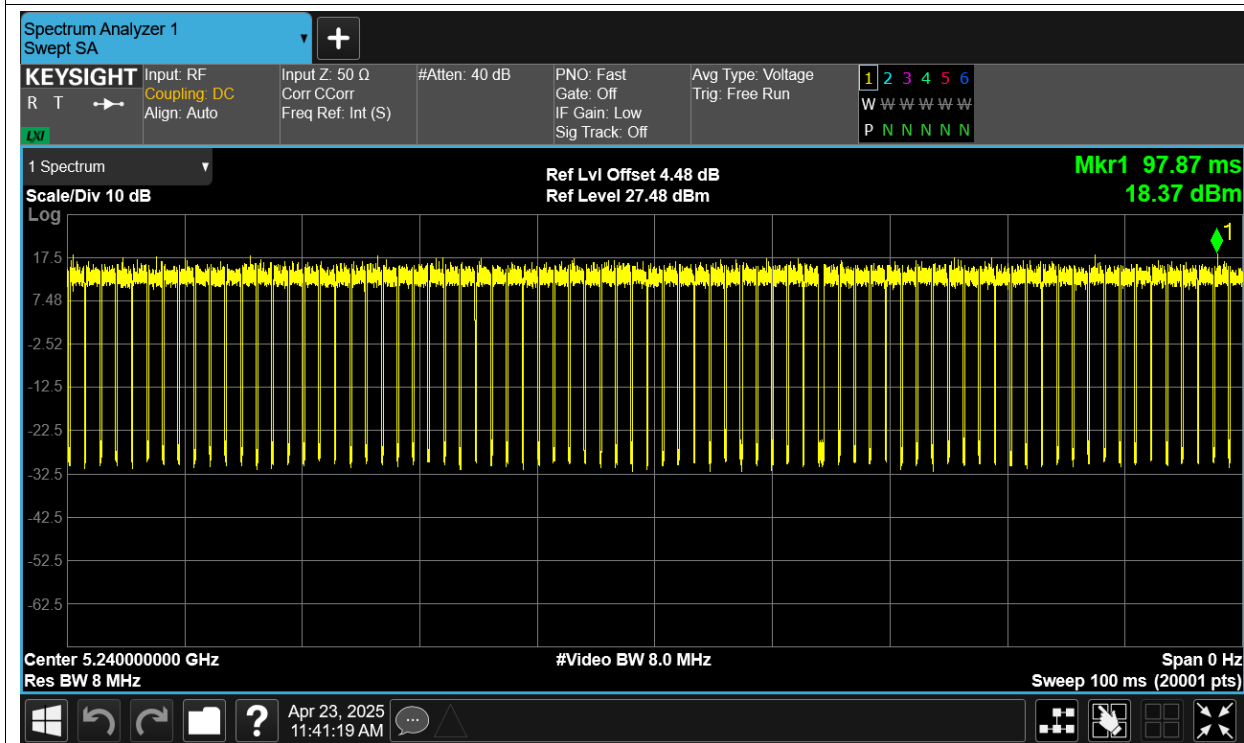
Duty Cycle NVNT n20 5180MHz Ant1



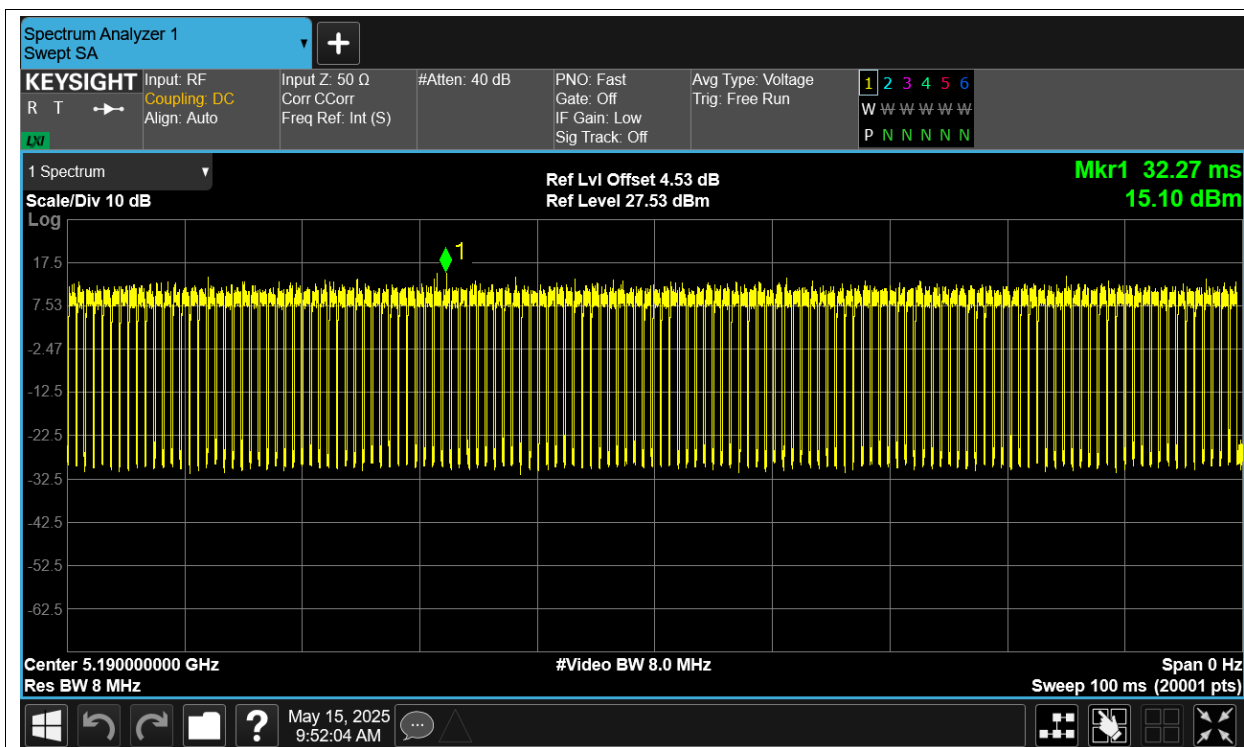
Duty Cycle NVNT n20 5200MHz Ant1



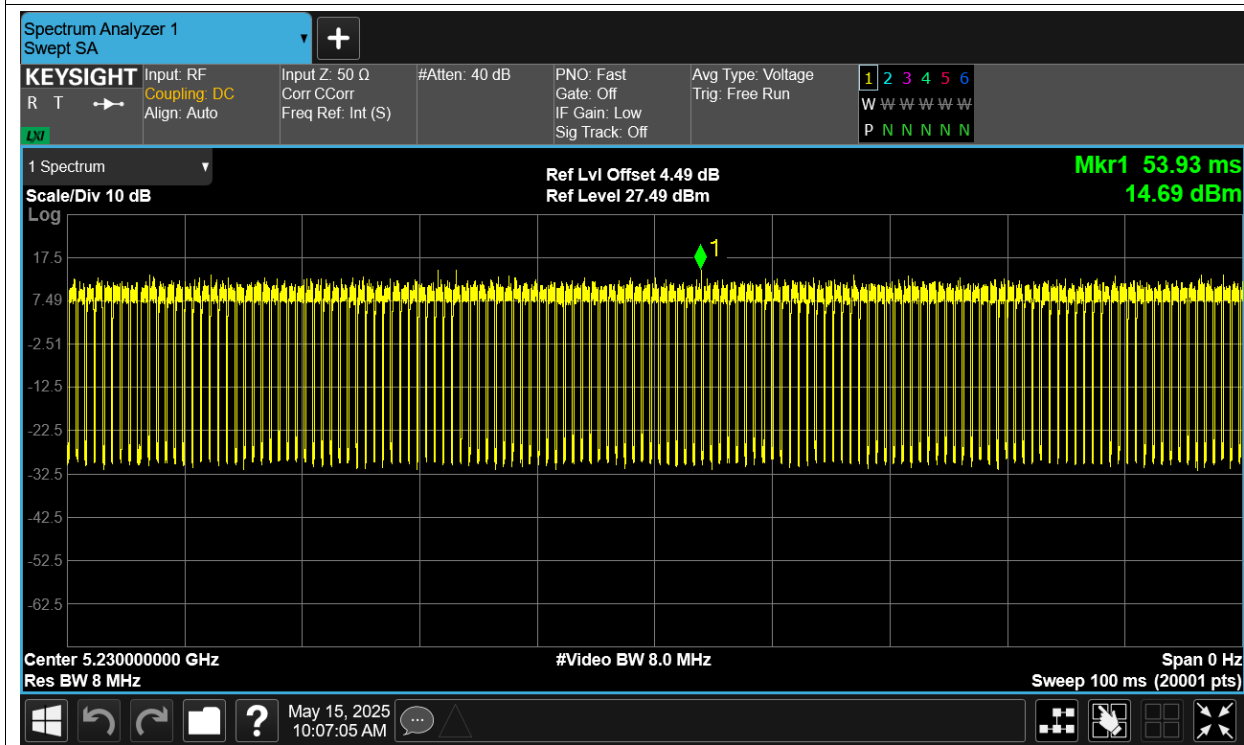
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1

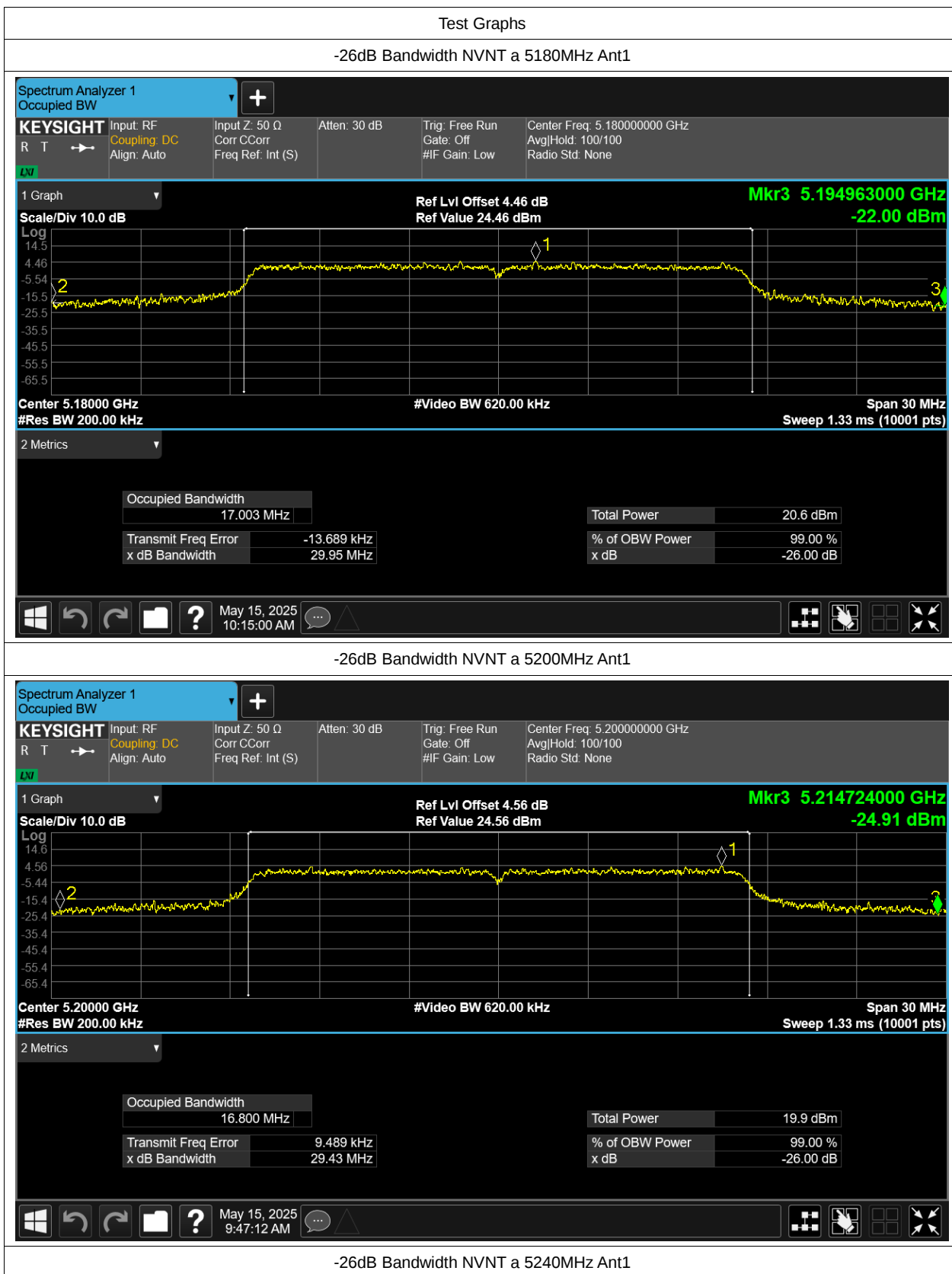


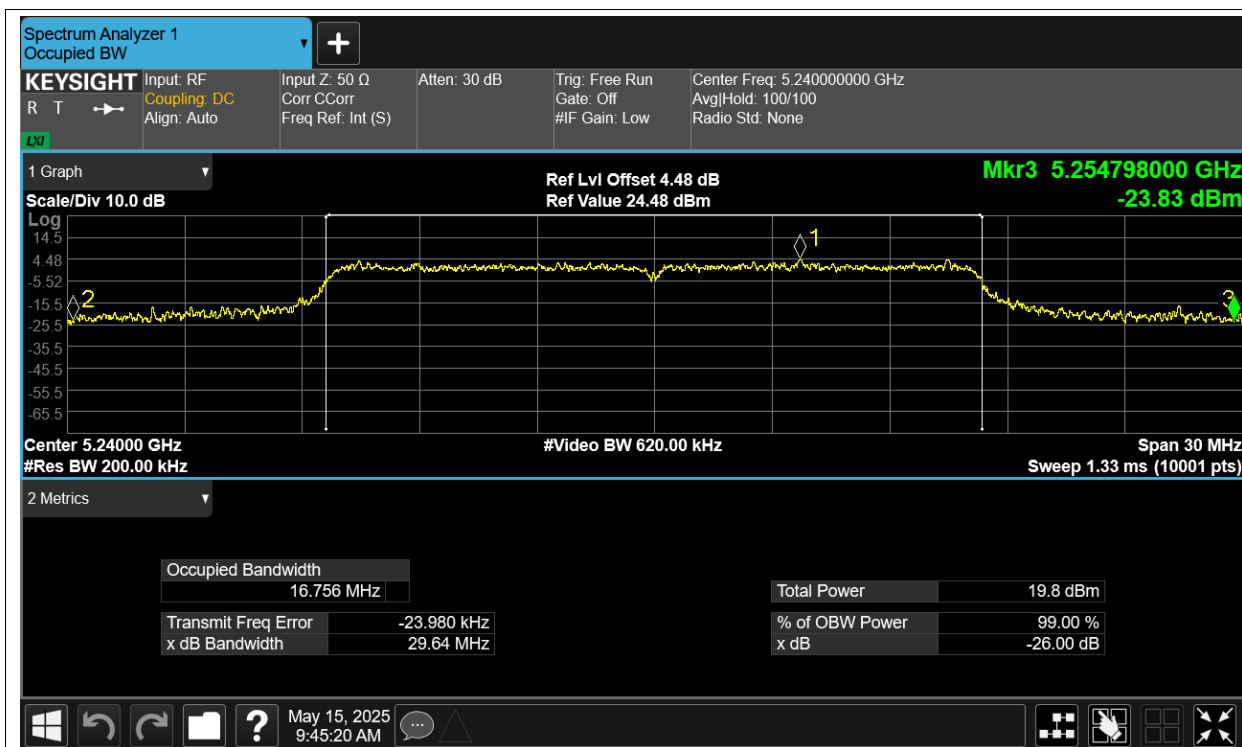
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	14.87	0.56	15.43	24	Pass
NVNT	a	5200	Ant1	13.8	0.45	14.25	24	Pass
NVNT	a	5240	Ant1	14.84	0.49	15.33	24	Pass
NVNT	ac20	5180	Ant1	11.94	0.53	12.47	24	Pass
NVNT	ac20	5200	Ant1	10.6	0.53	11.13	24	Pass
NVNT	ac20	5240	Ant1	11.15	0.53	11.68	24	Pass
NVNT	ac40	5190	Ant1	10.15	1.11	11.26	23	Pass
NVNT	ac40	5230	Ant1	10.23	1.01	11.24	24	Pass
NVNT	ac80	5210	Ant1	11.21	1.77	12.98	24	Pass
NVNT	n20	5180	Ant1	11.96	0.53	12.49	24	Pass
NVNT	n20	5200	Ant1	10.62	0.53	11.15	24	Pass
NVNT	n20	5240	Ant1	11.13	0.54	11.67	24	Pass
NVNT	n40	5190	Ant1	10.03	1.01	11.04	24	Pass
NVNT	n40	5230	Ant1	10.43	0.96	11.39	24	Pass

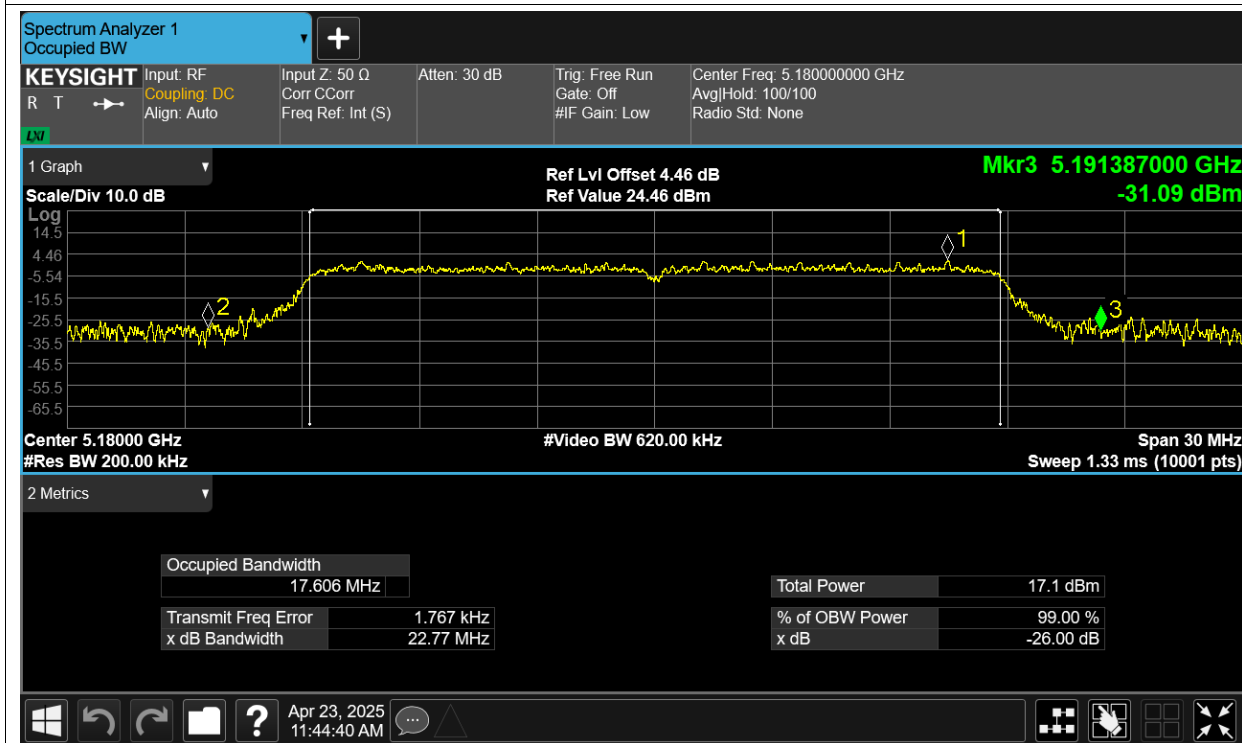
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	29.953
NVNT	a	5200	Ant1	29.428
NVNT	a	5240	Ant1	29.643
NVNT	ac20	5180	Ant1	22.771
NVNT	ac20	5200	Ant1	25.406
NVNT	ac20	5240	Ant1	22.823
NVNT	ac40	5190	Ant1	55.169
NVNT	ac40	5230	Ant1	55.315
NVNT	ac80	5210	Ant1	85.103
NVNT	n20	5180	Ant1	27.767
NVNT	n20	5200	Ant1	25.899
NVNT	n20	5240	Ant1	28.127
NVNT	n40	5190	Ant1	59.245
NVNT	n40	5230	Ant1	59.169

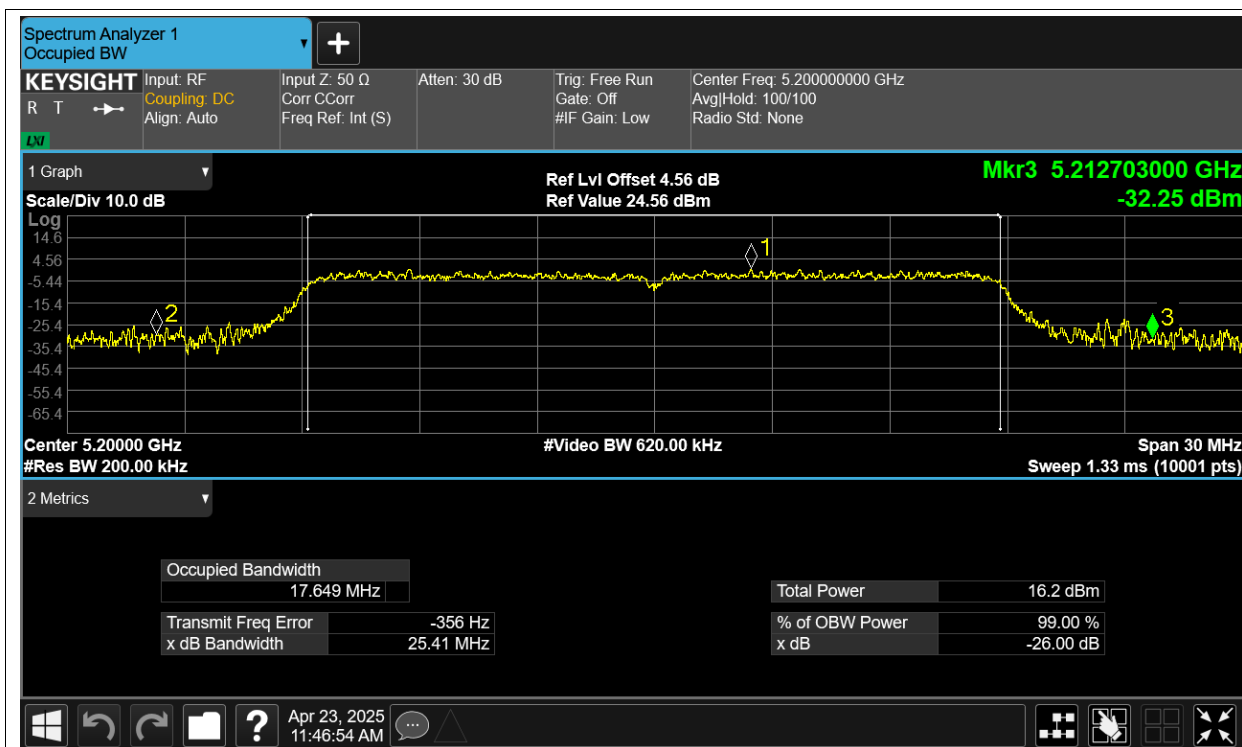




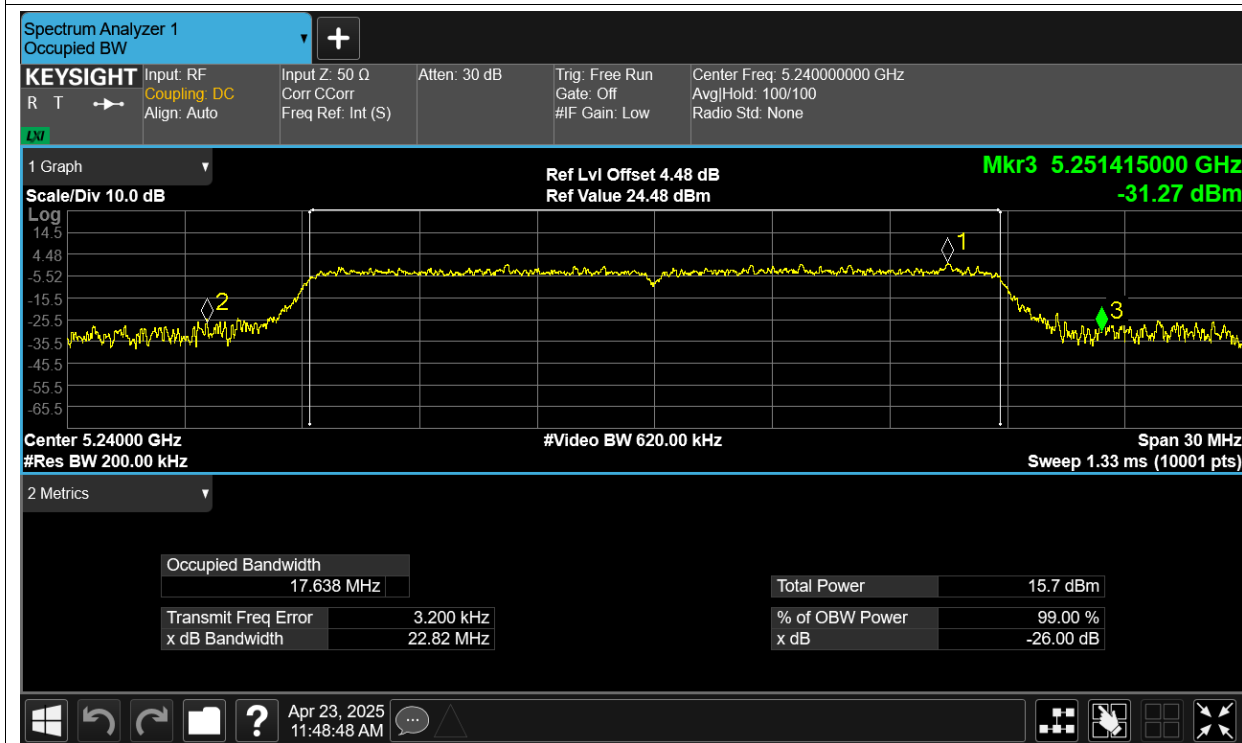
-26dB Bandwidth NVNT ac20 5180MHz Ant1



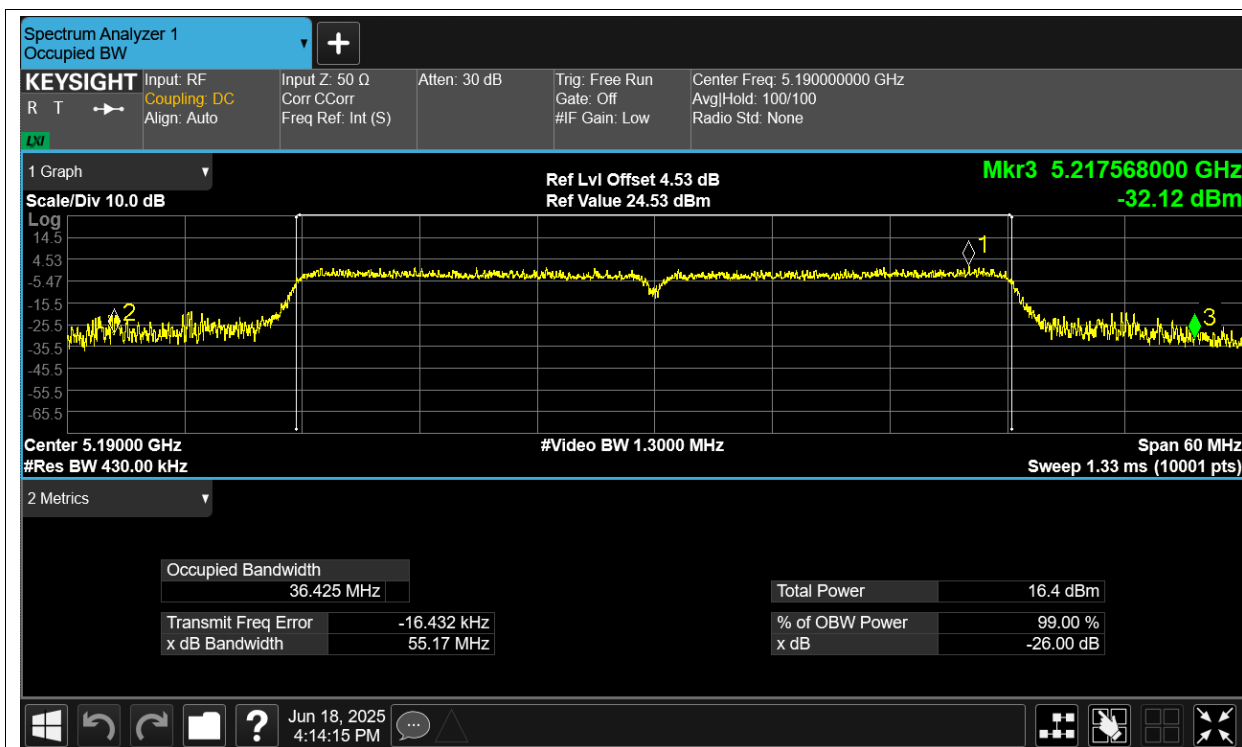
-26dB Bandwidth NVNT ac20 5200MHz Ant1



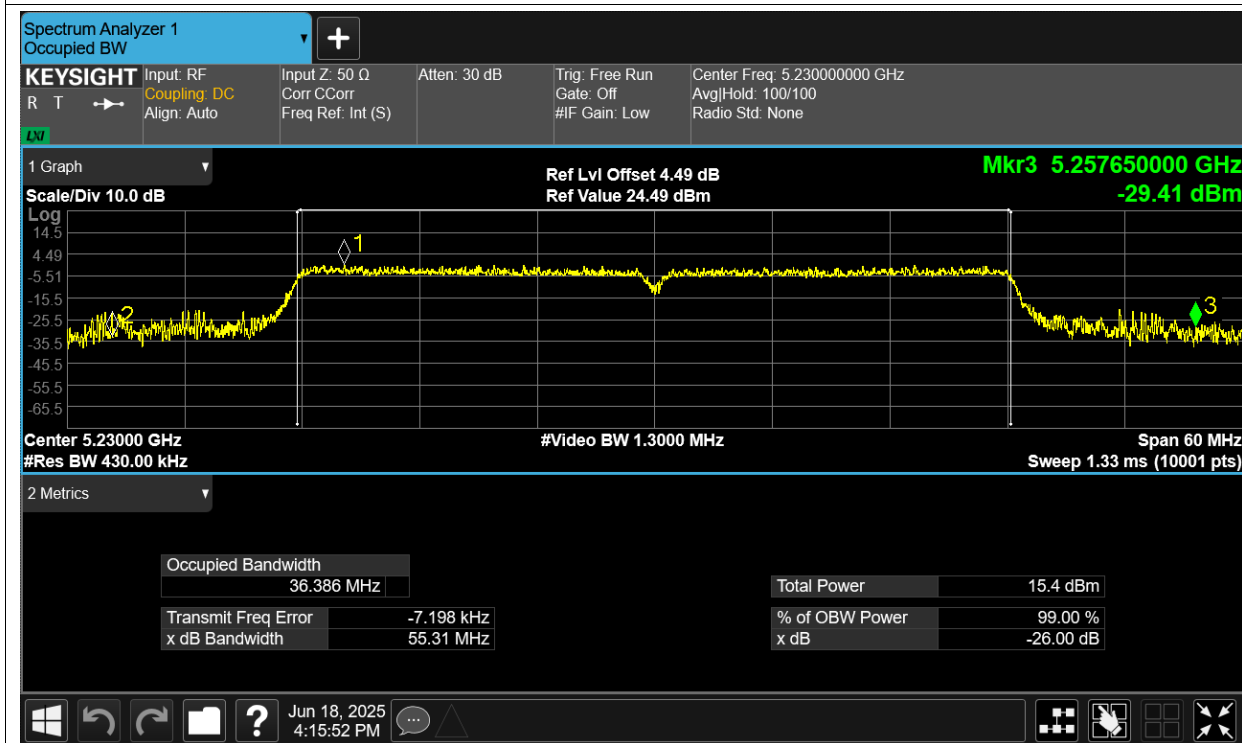
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



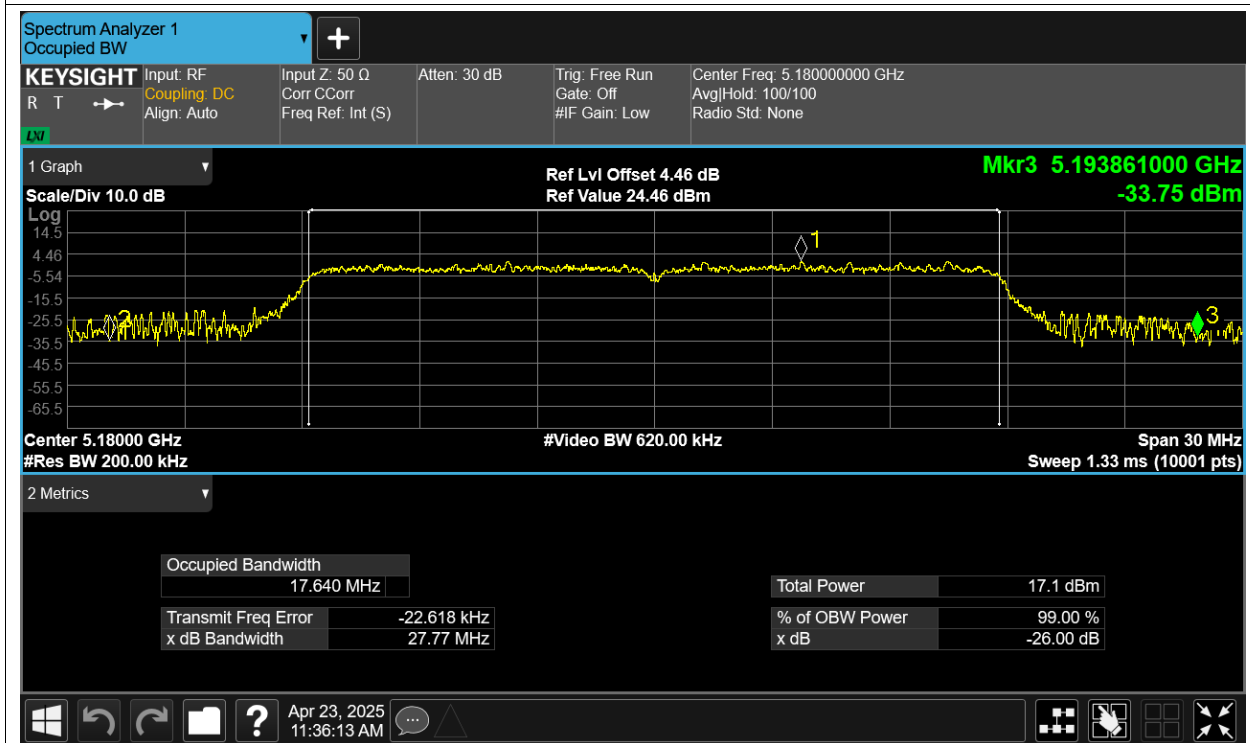
-26dB Bandwidth NVNT ac40 5230MHz Ant1



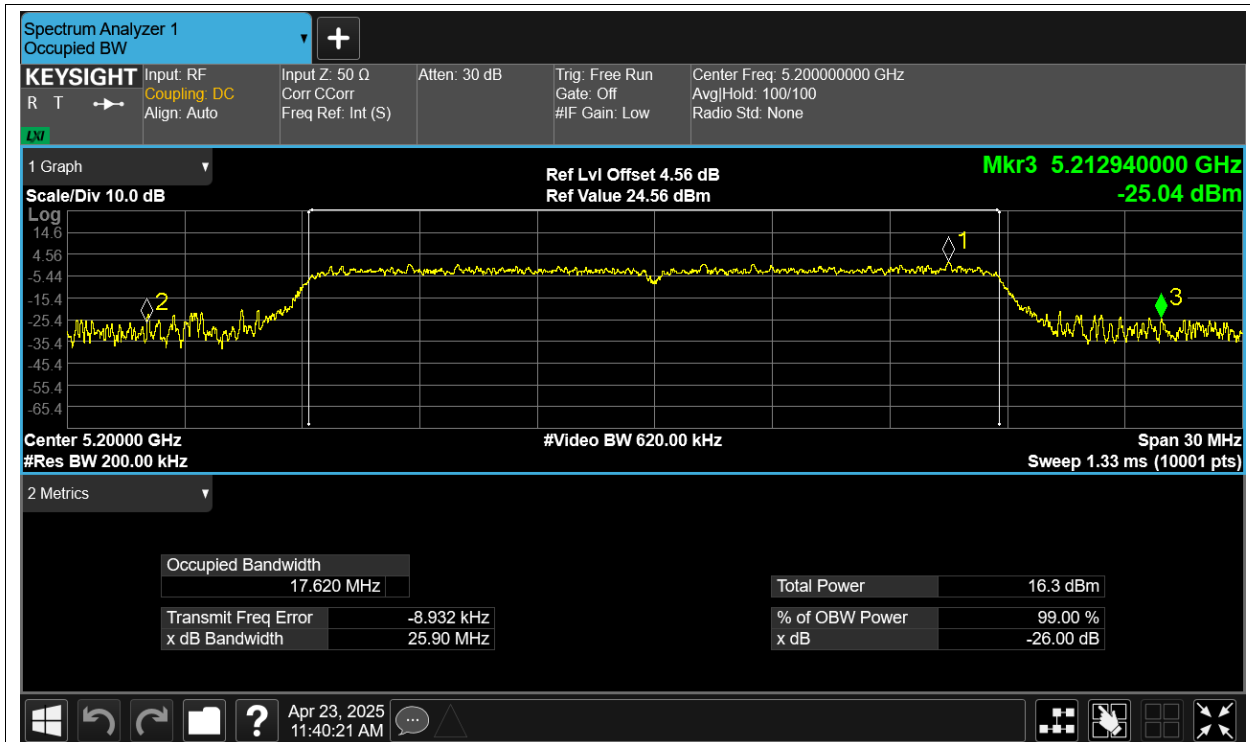
-26dB Bandwidth NVNT ac80 5210MHz Ant1



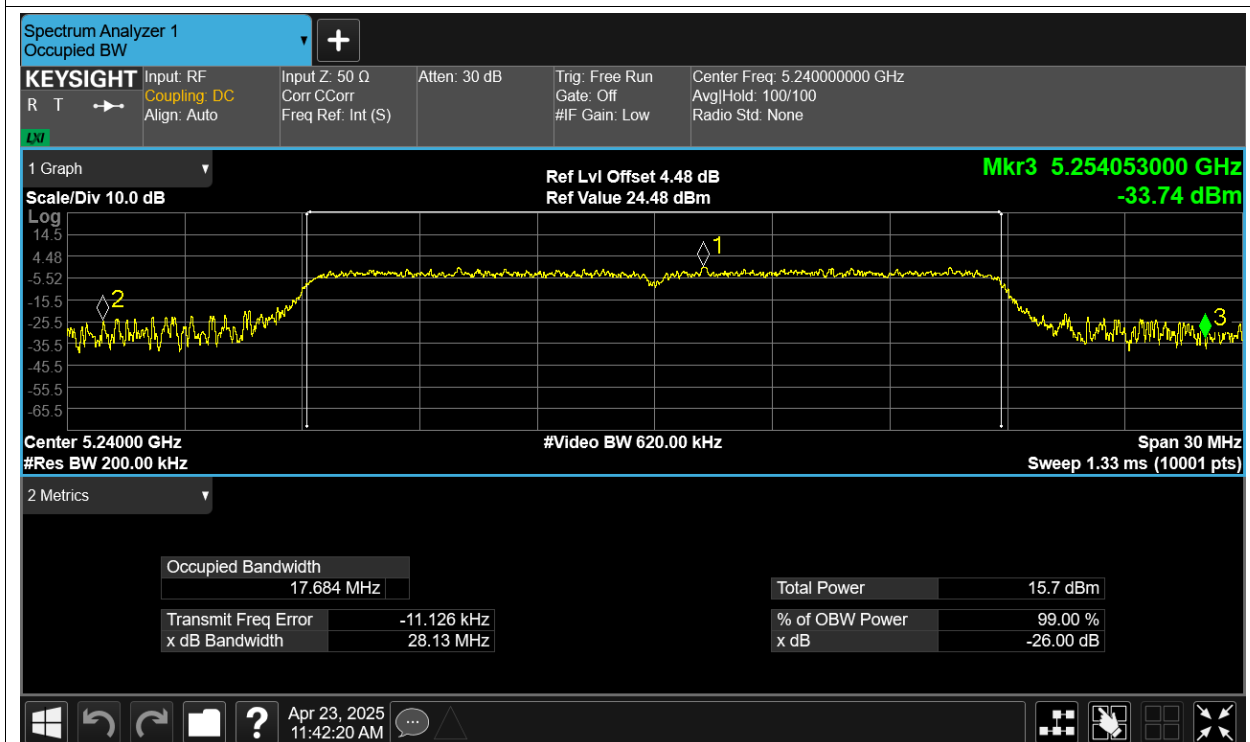
-26dB Bandwidth NVNT n20 5180MHz Ant1



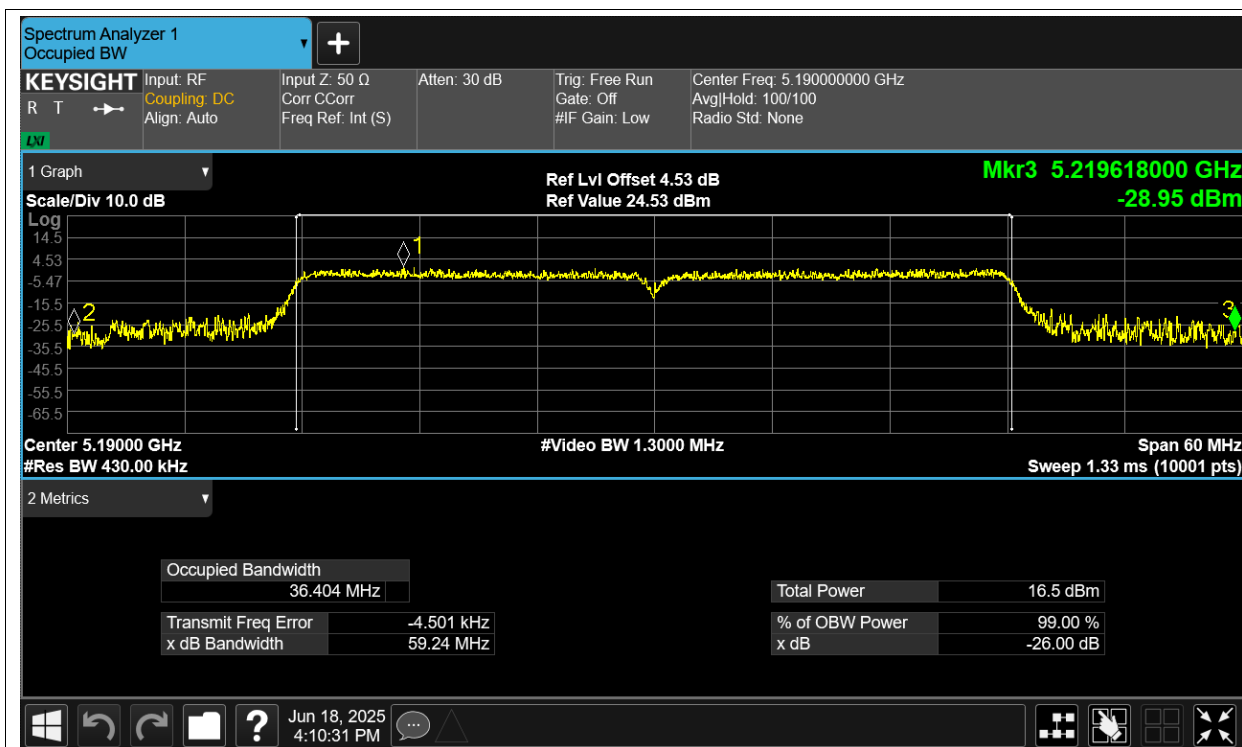
-26dB Bandwidth NVNT n20 5200MHz Ant1



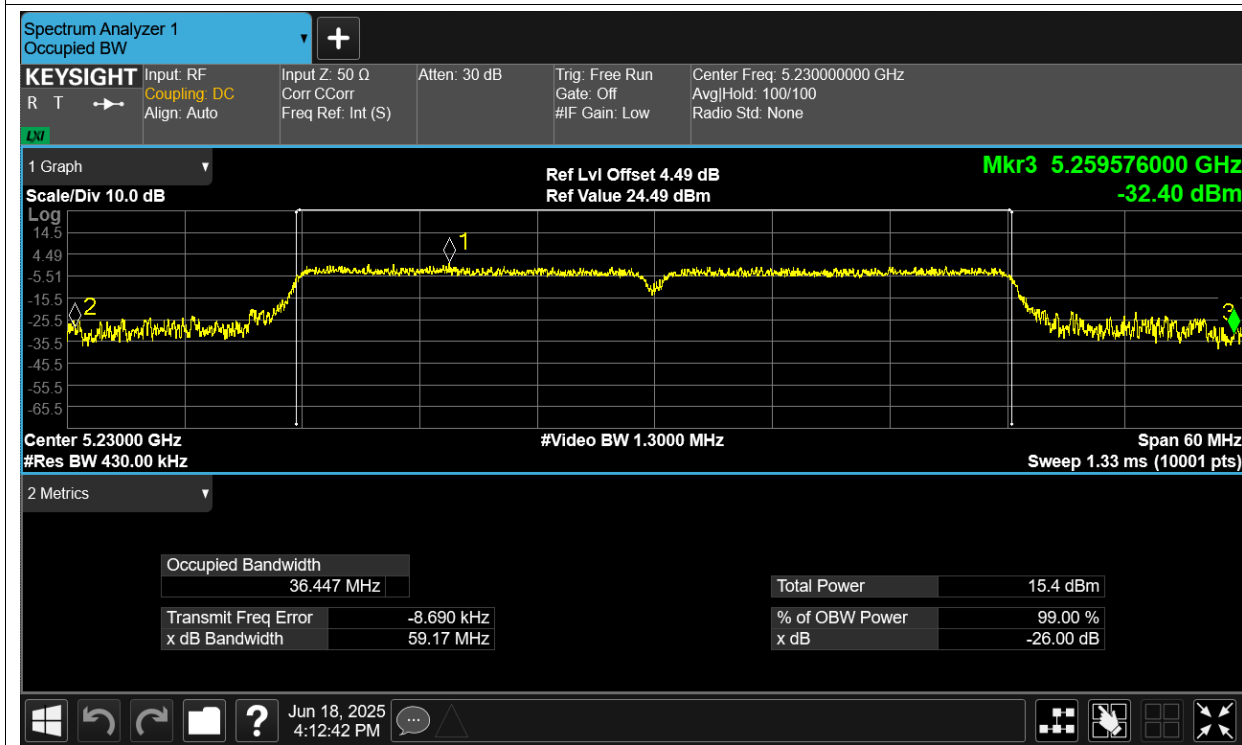
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

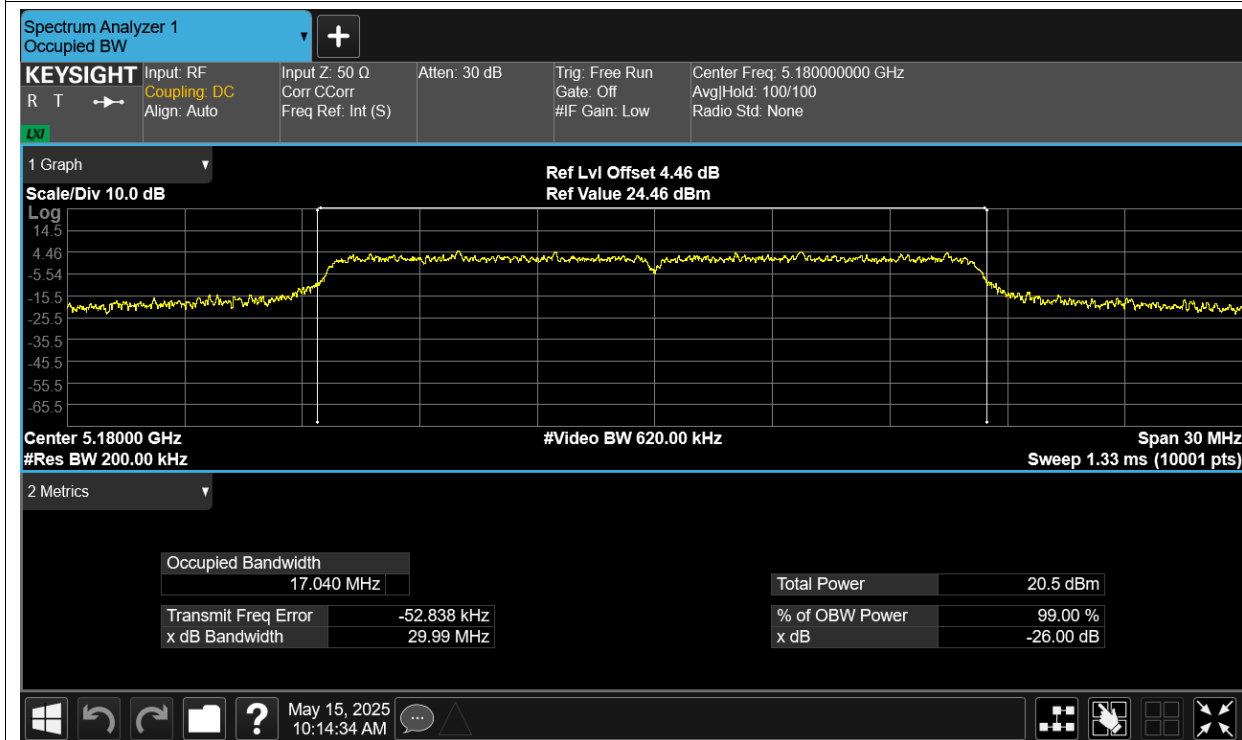


Occupied Channel Bandwidth

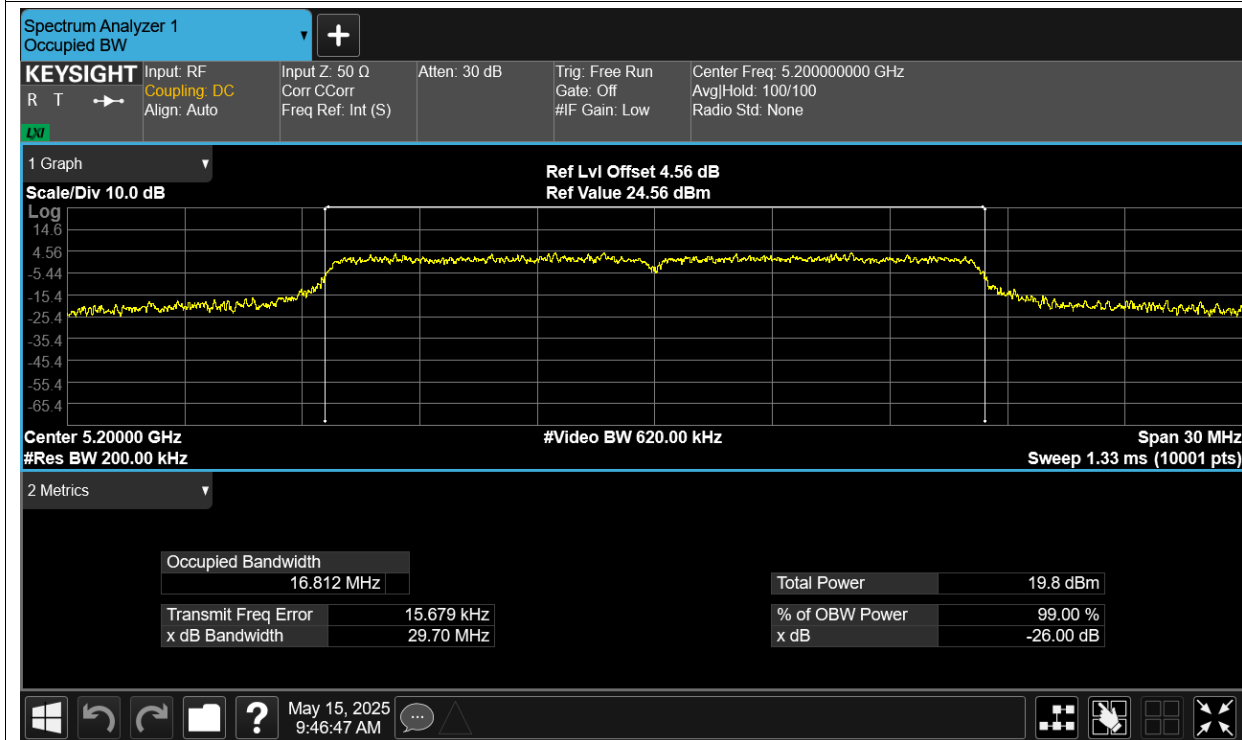
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	17.04
NVNT	a	5200	Ant1	16.812
NVNT	a	5240	Ant1	16.773
NVNT	ac20	5180	Ant1	17.623
NVNT	ac20	5200	Ant1	17.626
NVNT	ac20	5240	Ant1	17.656
NVNT	ac40	5190	Ant1	36.439
NVNT	ac40	5230	Ant1	36.389
NVNT	ac80	5210	Ant1	75.483
NVNT	n20	5180	Ant1	17.64
NVNT	n20	5200	Ant1	17.646
NVNT	n20	5240	Ant1	17.667
NVNT	n40	5190	Ant1	36.393
NVNT	n40	5230	Ant1	36.362

Test Graphs

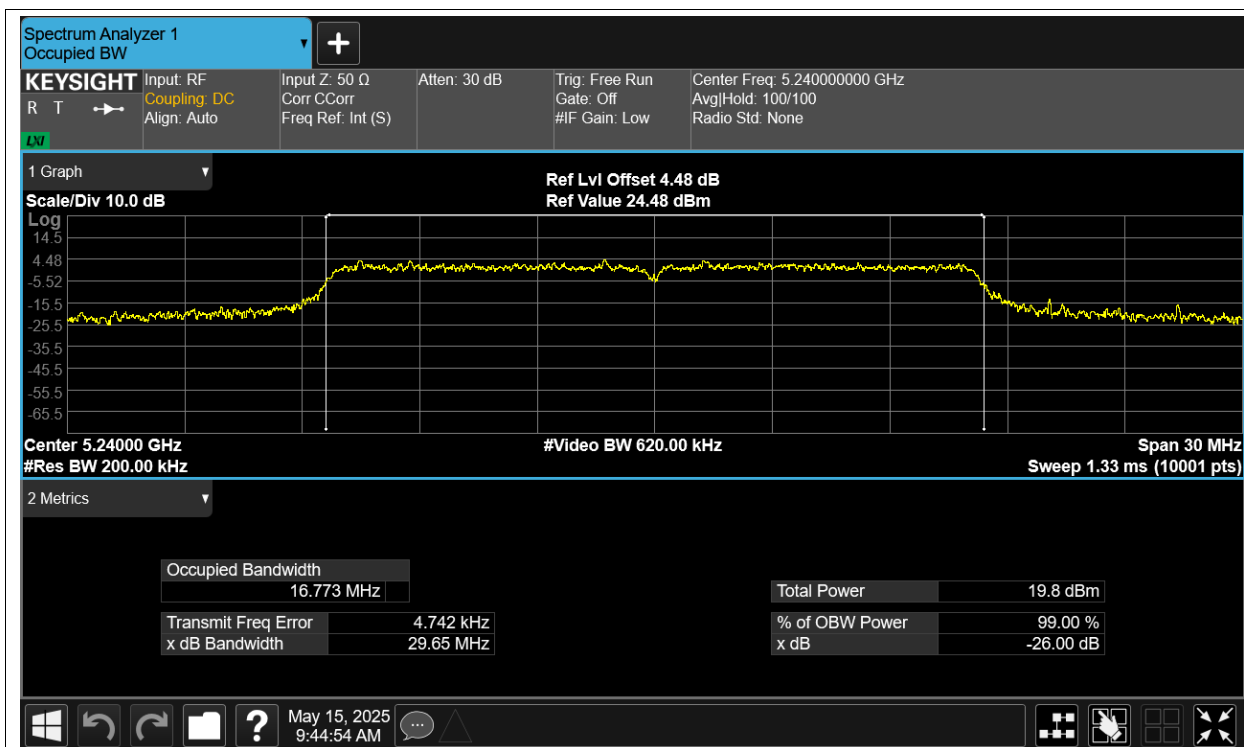
OBW NVNT a 5180MHz Ant1



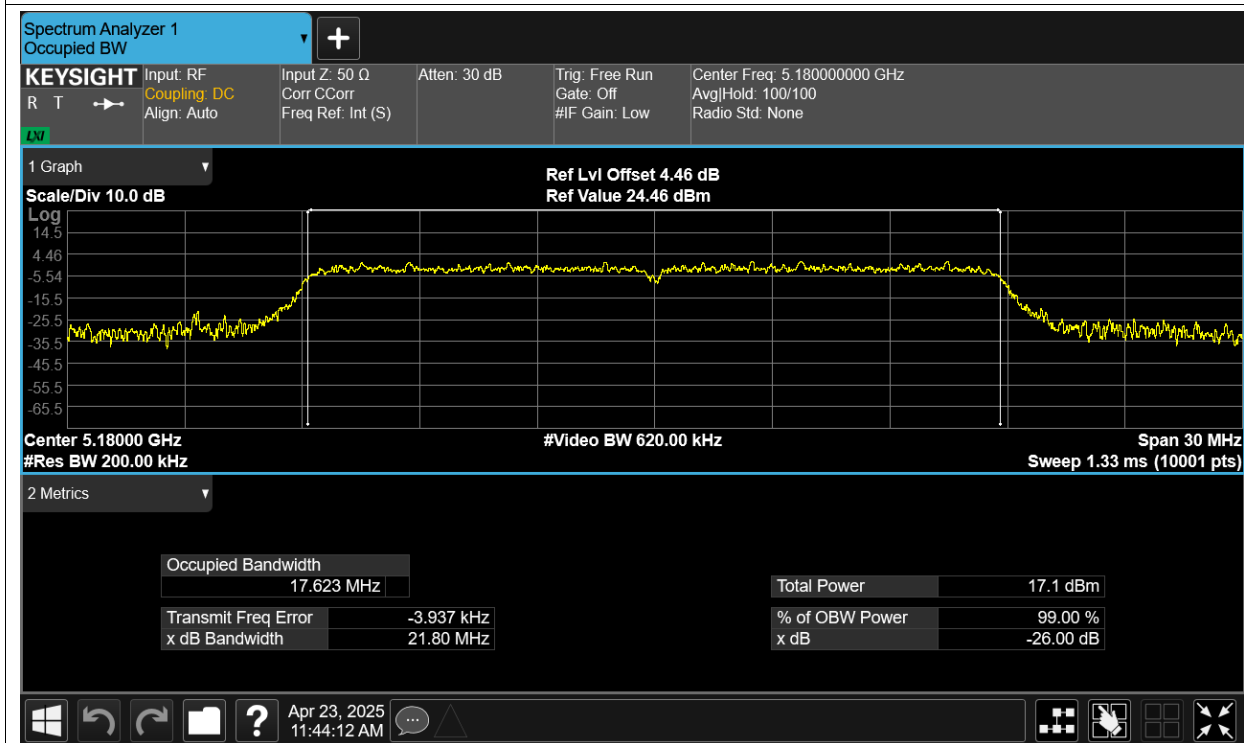
OBW NVNT a 5200MHz Ant1



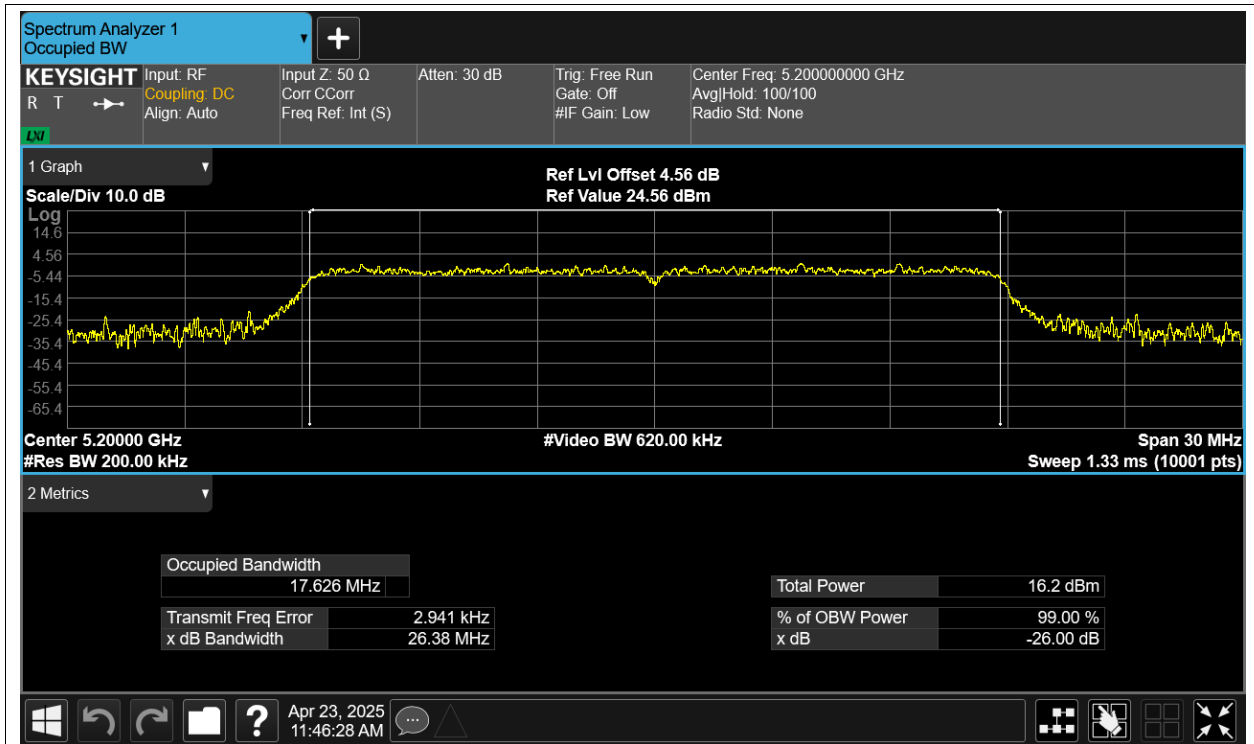
OBW NVNT a 5240MHz Ant1



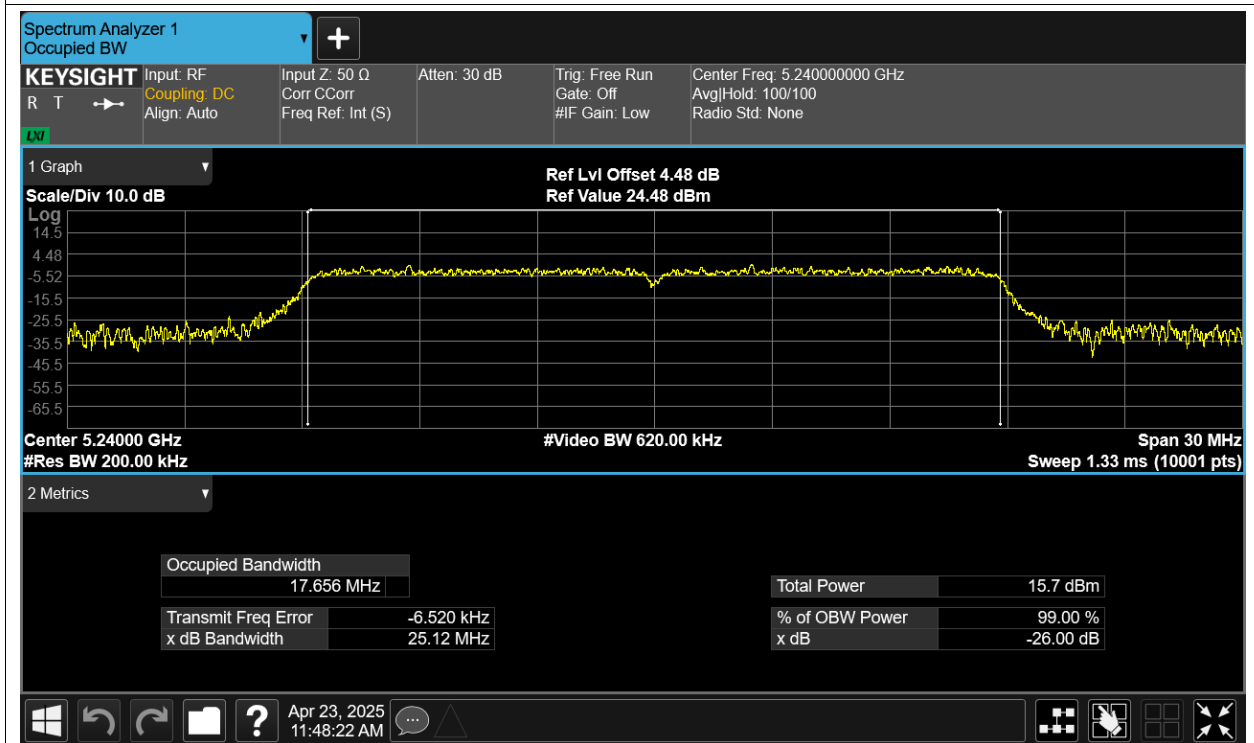
OBW NVNT ac20 5180MHz Ant1



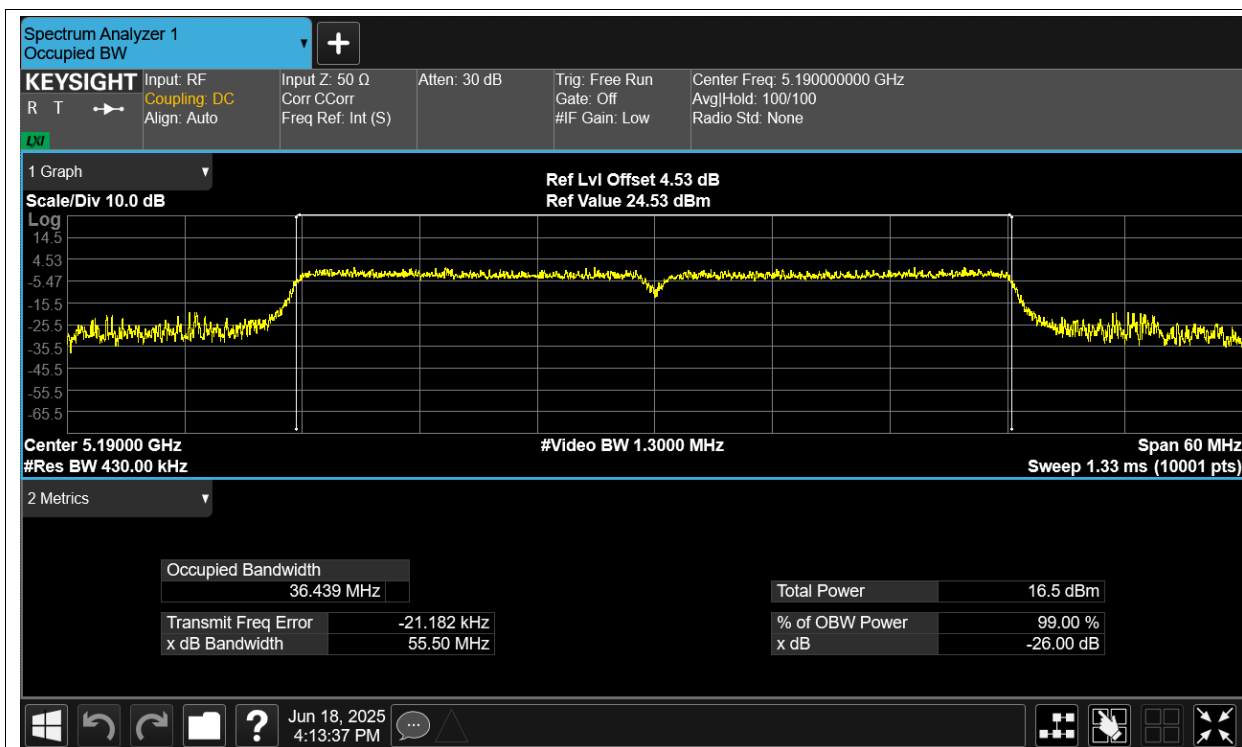
OBW NVNT ac20 5200MHz Ant1



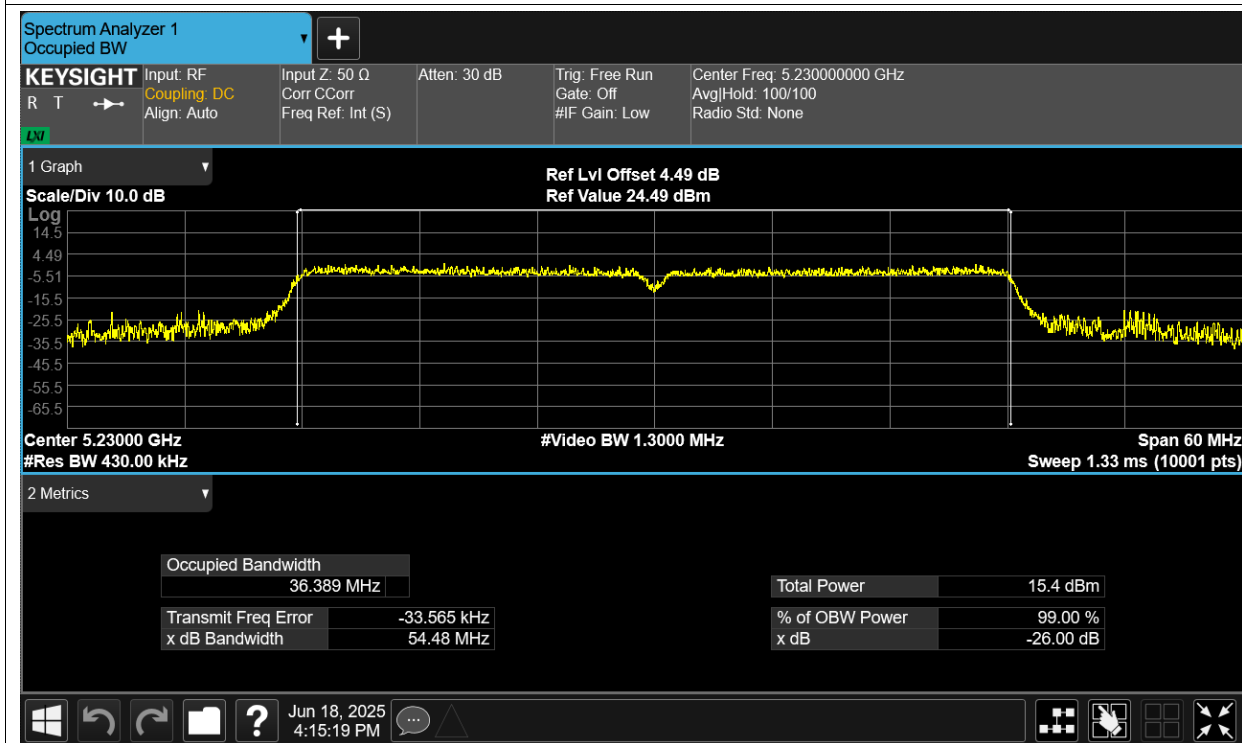
OBW NVNT ac20 5240MHz Ant1



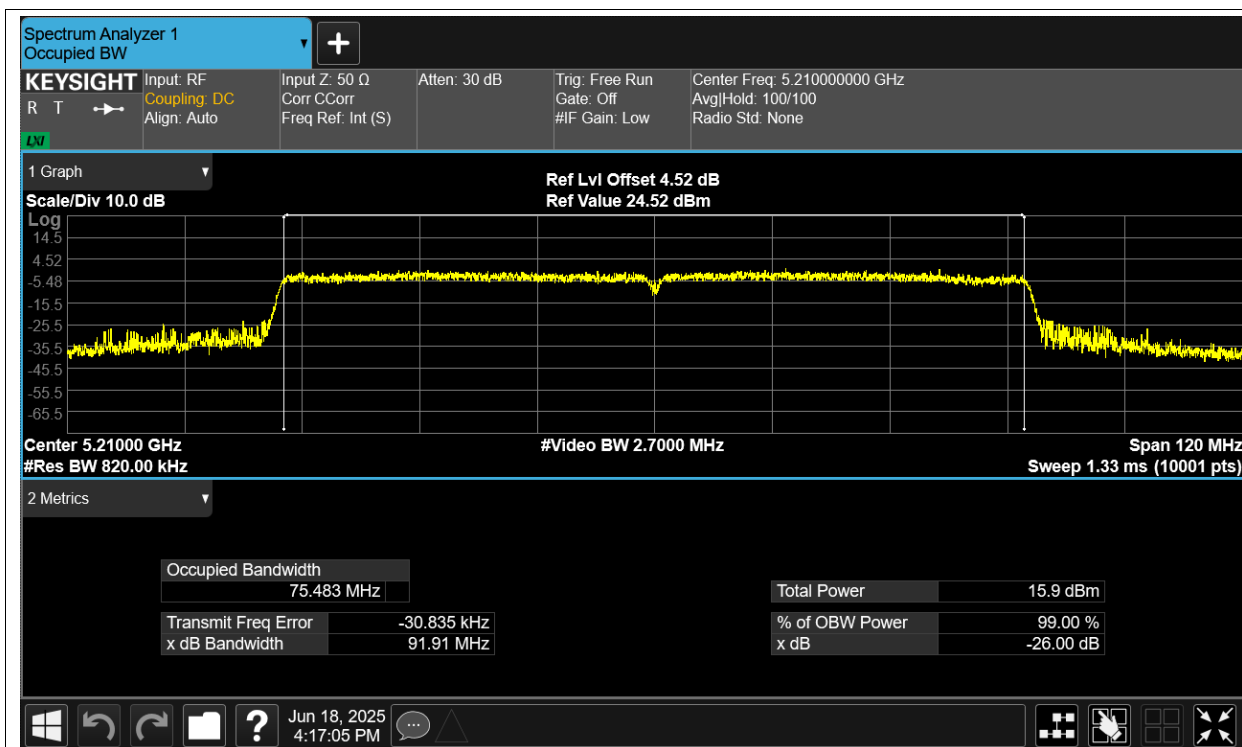
OBW NVNT ac40 5190MHz Ant1



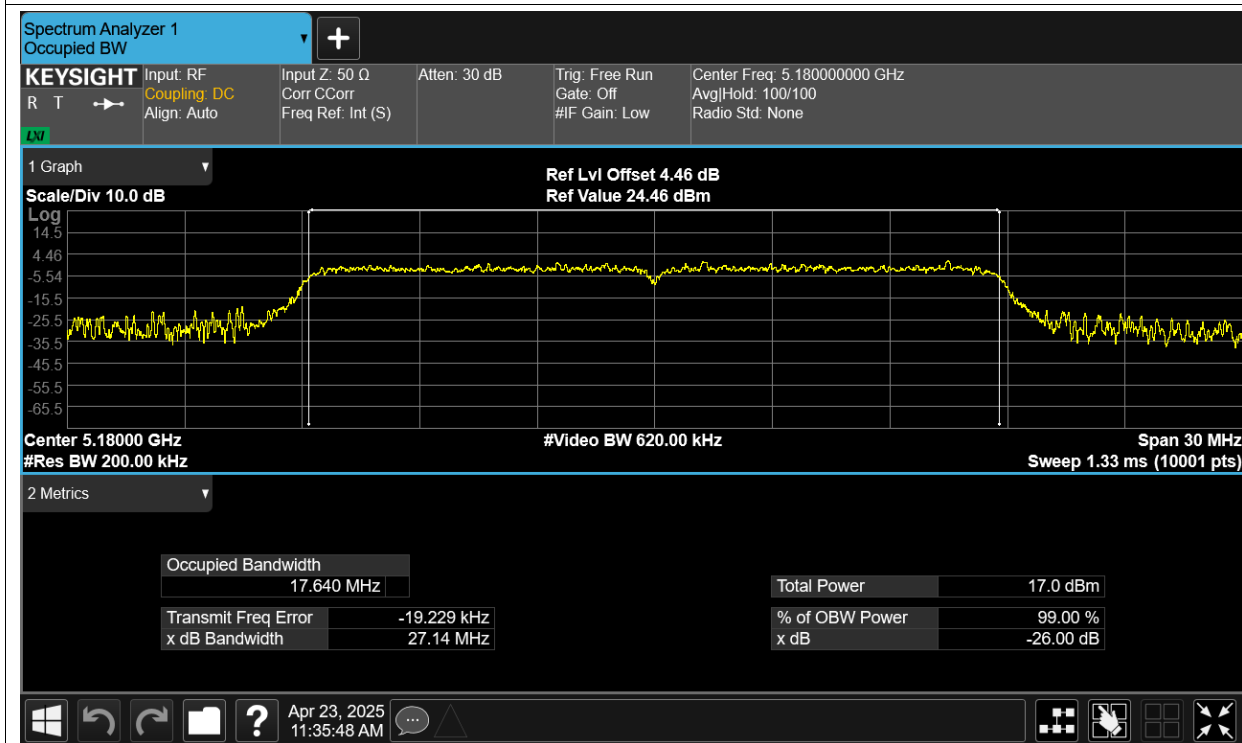
OBW NVNT ac40 5230MHz Ant1



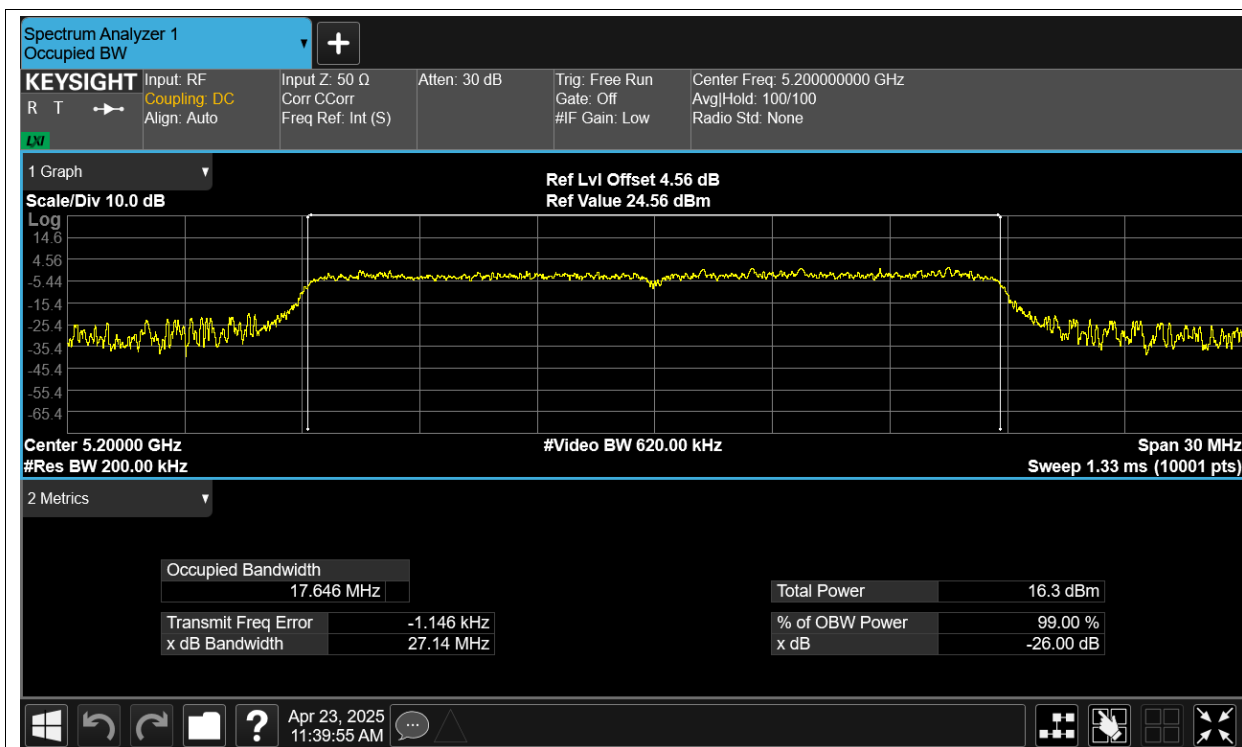
OBW NVNT ac80 5210MHz Ant1



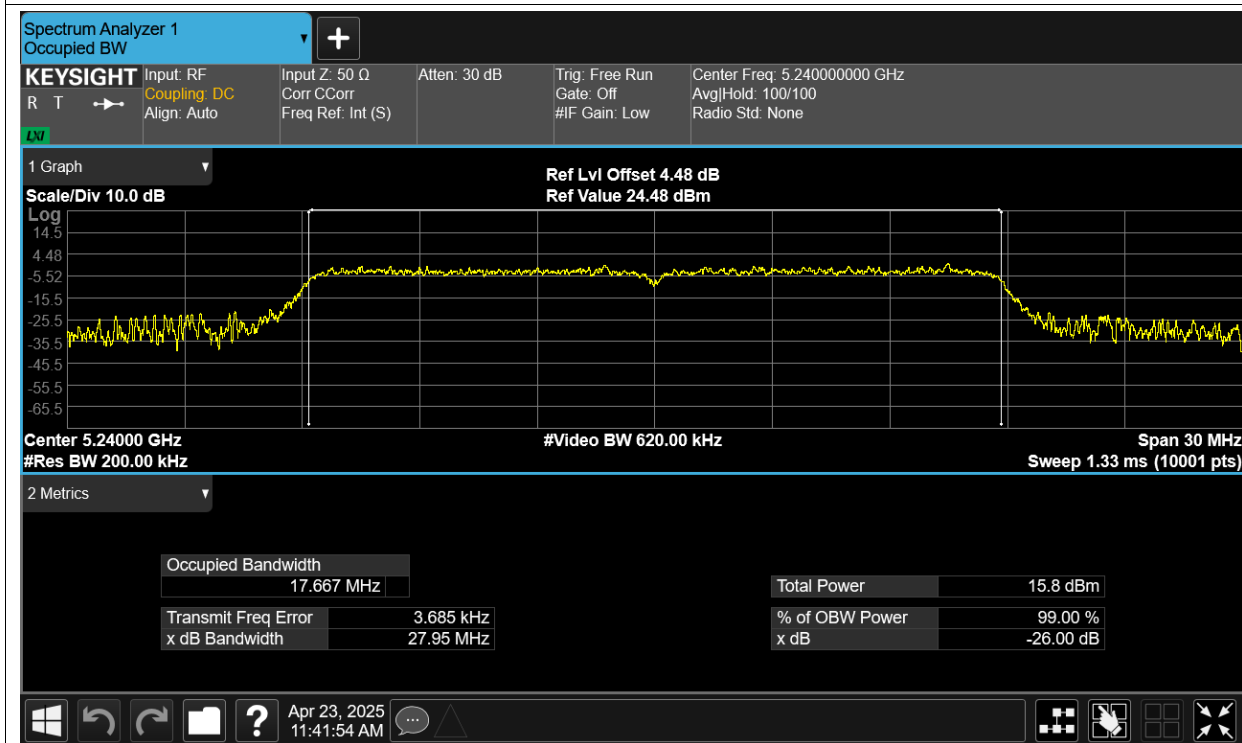
OBW NVNT n20 5180MHz Ant1



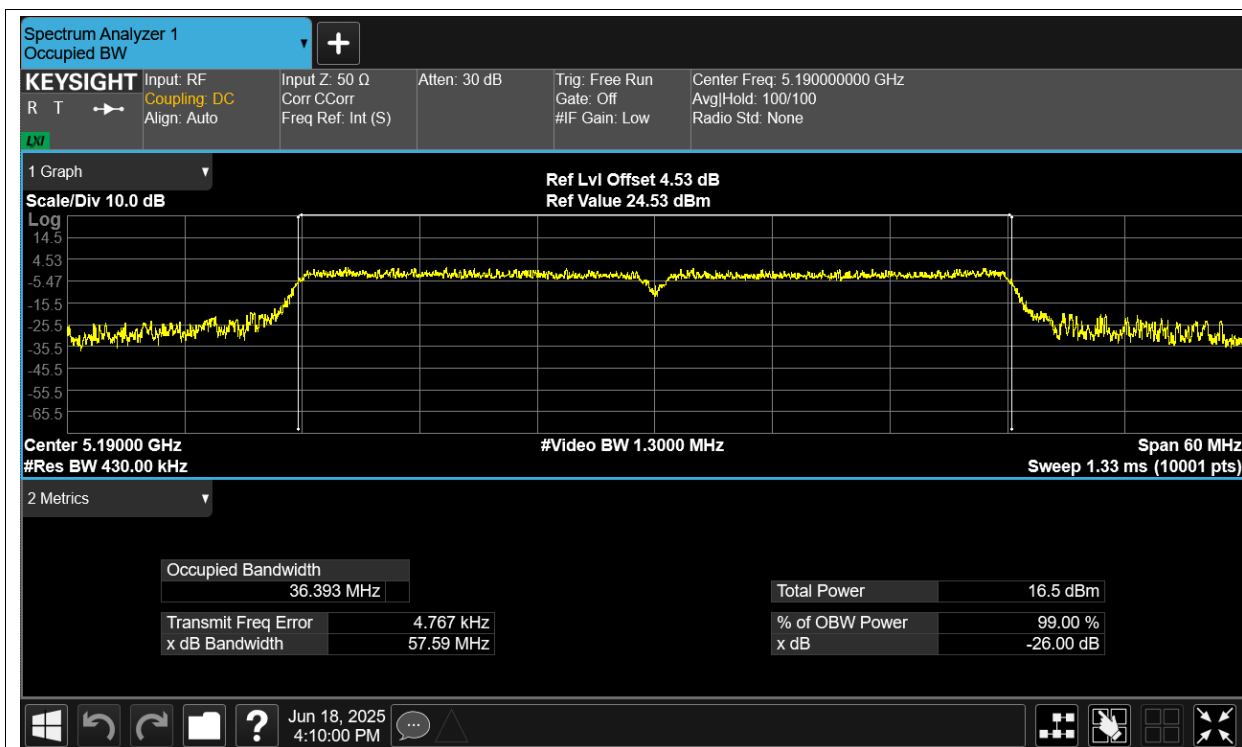
OBW NVNT n20 5200MHz Ant1



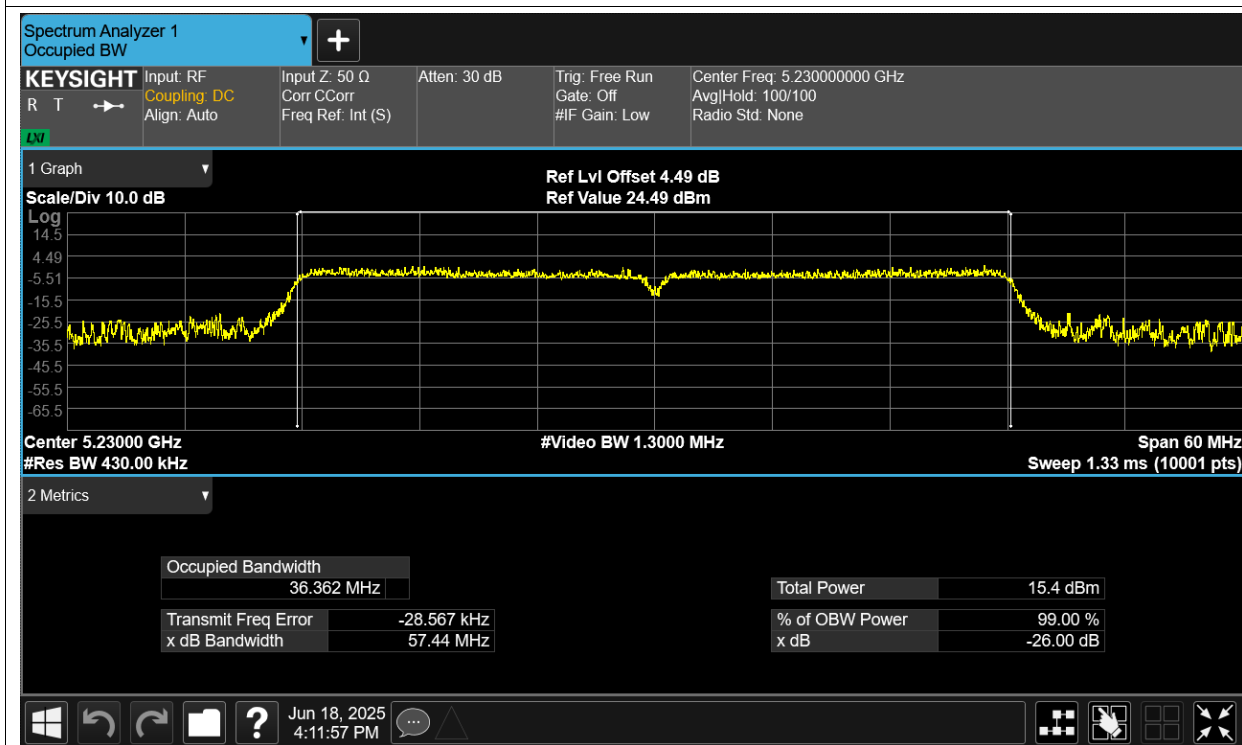
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

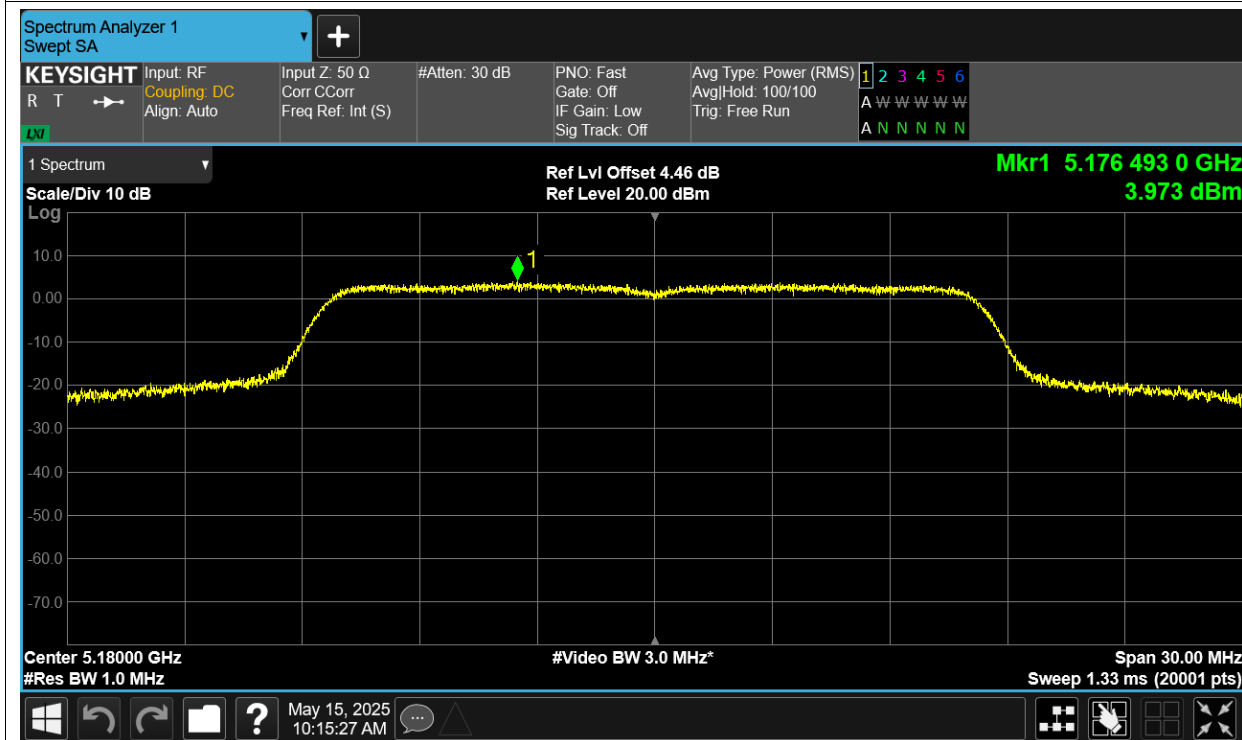


Maximum Power Spectral Density Level

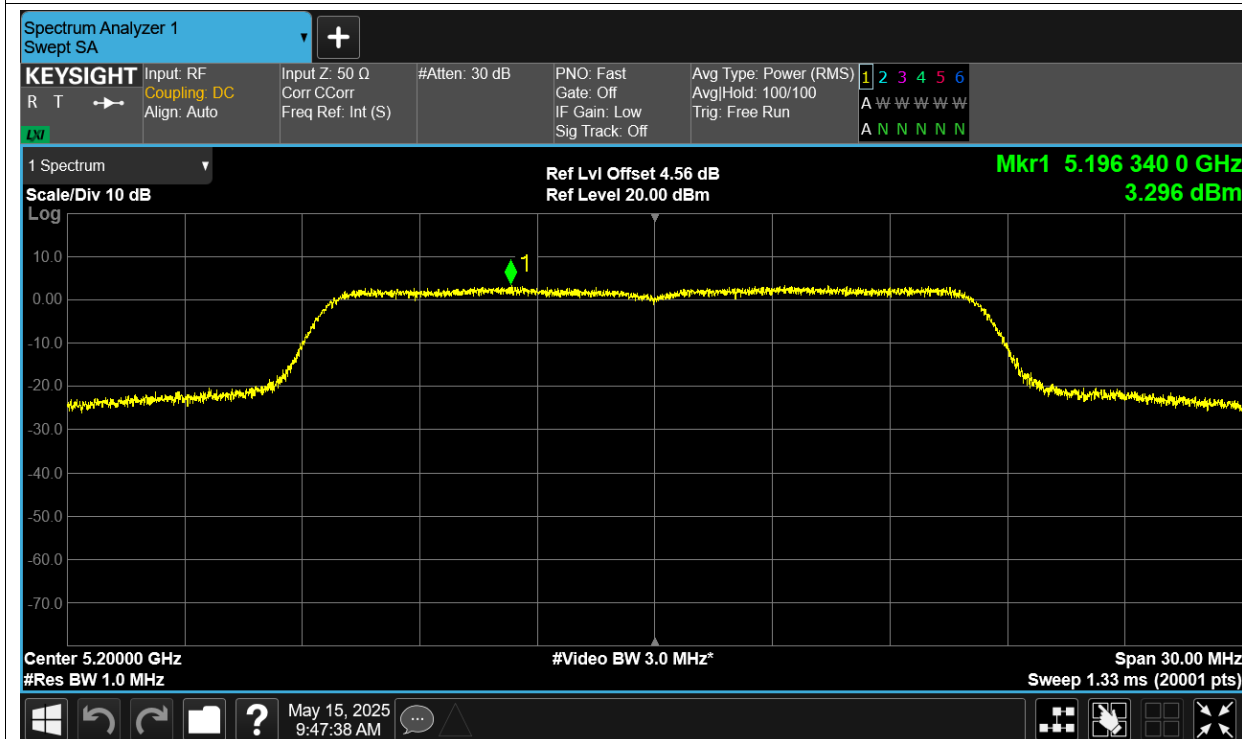
Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	0.56	3.973	4.533	11	Pass
NVNT	a	5200	Ant1	0.45	3.296	3.746	11	Pass
NVNT	a	5240	Ant1	0.49	3.395	3.885	11	Pass
NVNT	ac20	5180	Ant1	0.53	0.597	1.127	11	Pass
NVNT	ac20	5200	Ant1	0.53	-0.119	0.411	11	Pass
NVNT	ac20	5240	Ant1	0.53	-0.779	-0.249	11	Pass
NVNT	ac40	5190	Ant1	1.11	-2.451	-1.341	11	Pass
NVNT	ac40	5230	Ant1	1.01	-3.668	-2.658	11	Pass
NVNT	ac80	5210	Ant1	1.77	-6.684	-4.914	11	Pass
NVNT	n20	5180	Ant1	0.53	0.213	0.743	11	Pass
NVNT	n20	5200	Ant1	0.53	-0.492	0.038	11	Pass
NVNT	n20	5240	Ant1	0.54	-0.915	-0.375	11	Pass
NVNT	n40	5190	Ant1	1.01	-3.093	-2.083	11	Pass
NVNT	n40	5230	Ant1	0.96	-3.537	-2.577	11	Pass

Test Graphs

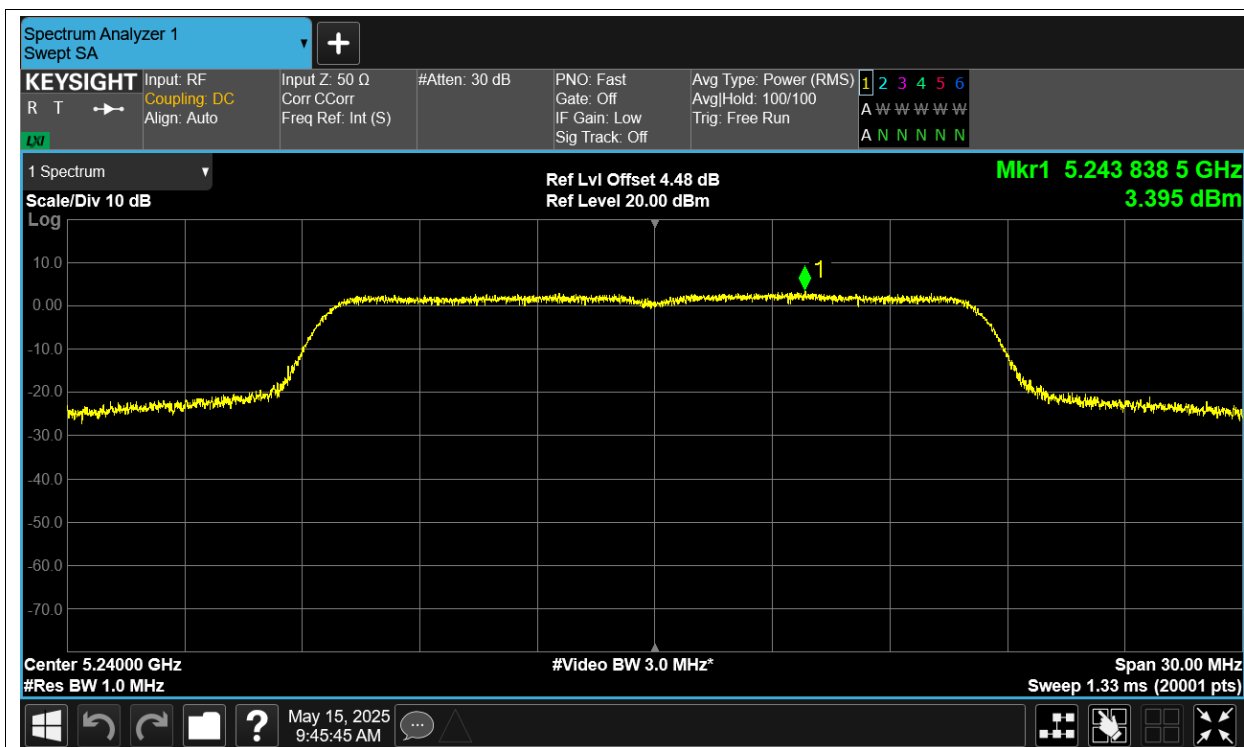
PSD NVNT a 5180MHz Ant1



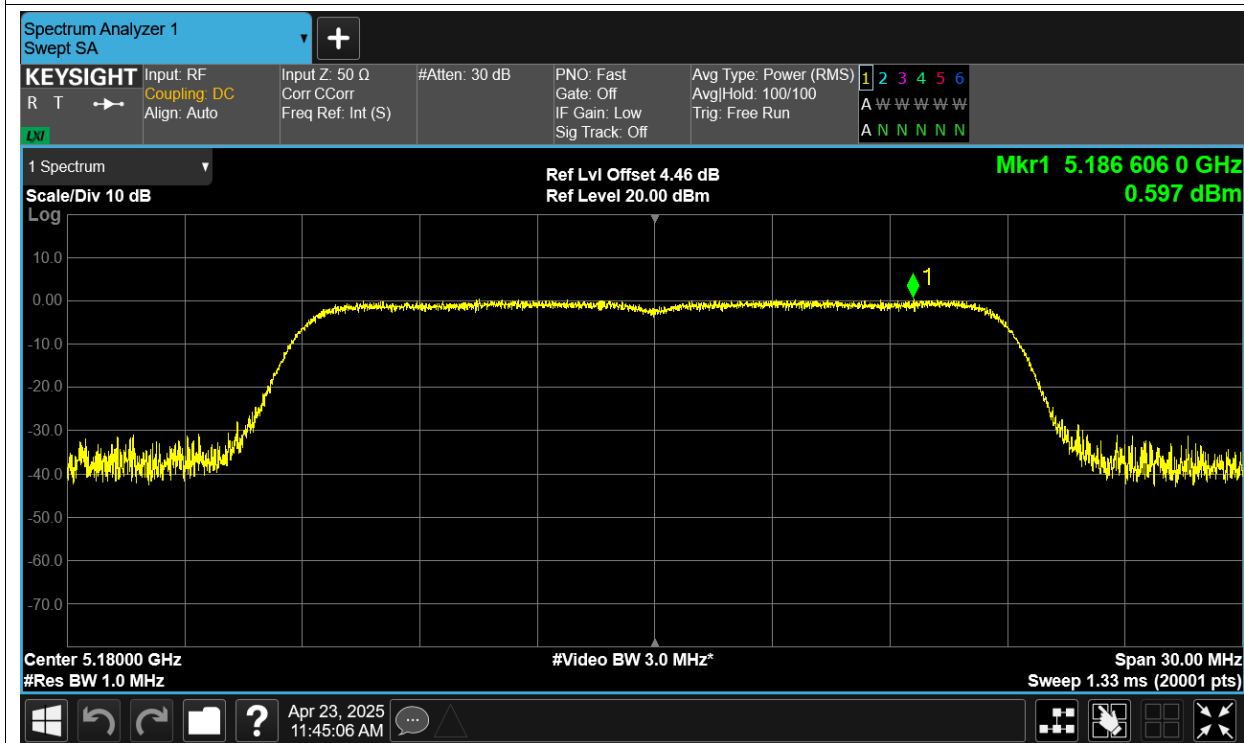
PSD NVNT a 5200MHz Ant1



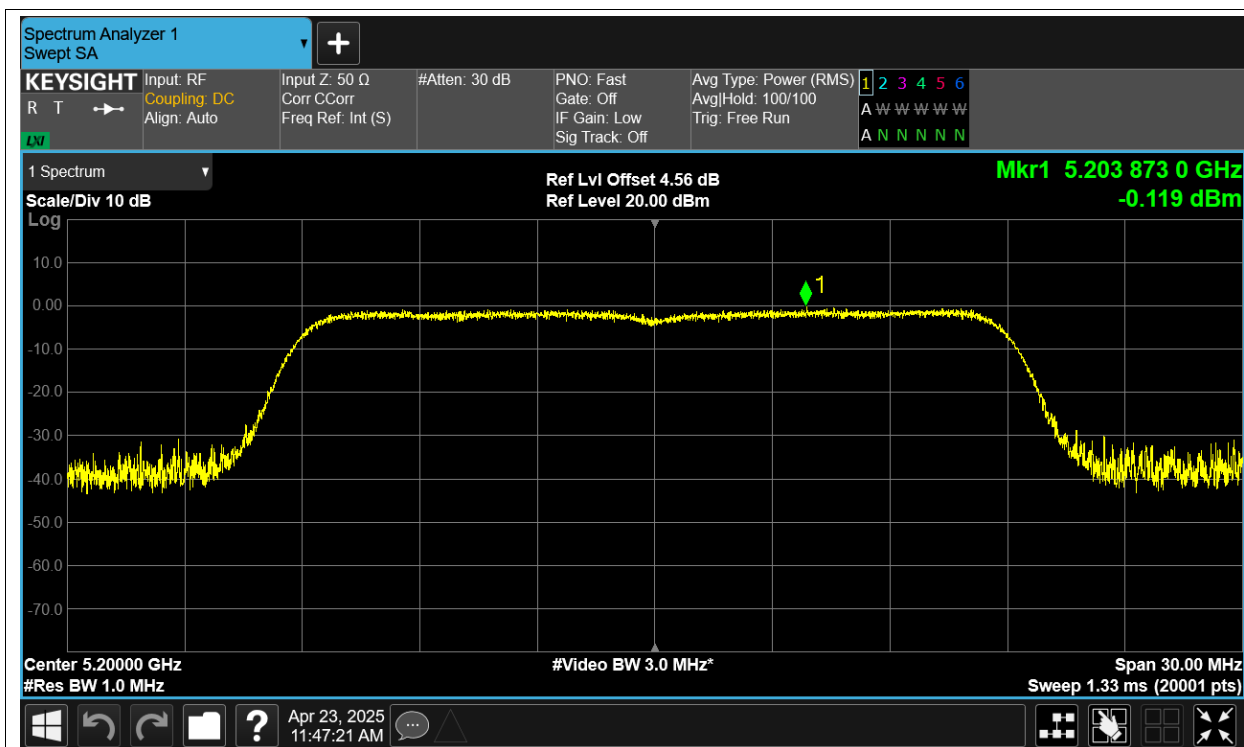
PSD NVNT a 5240MHz Ant1



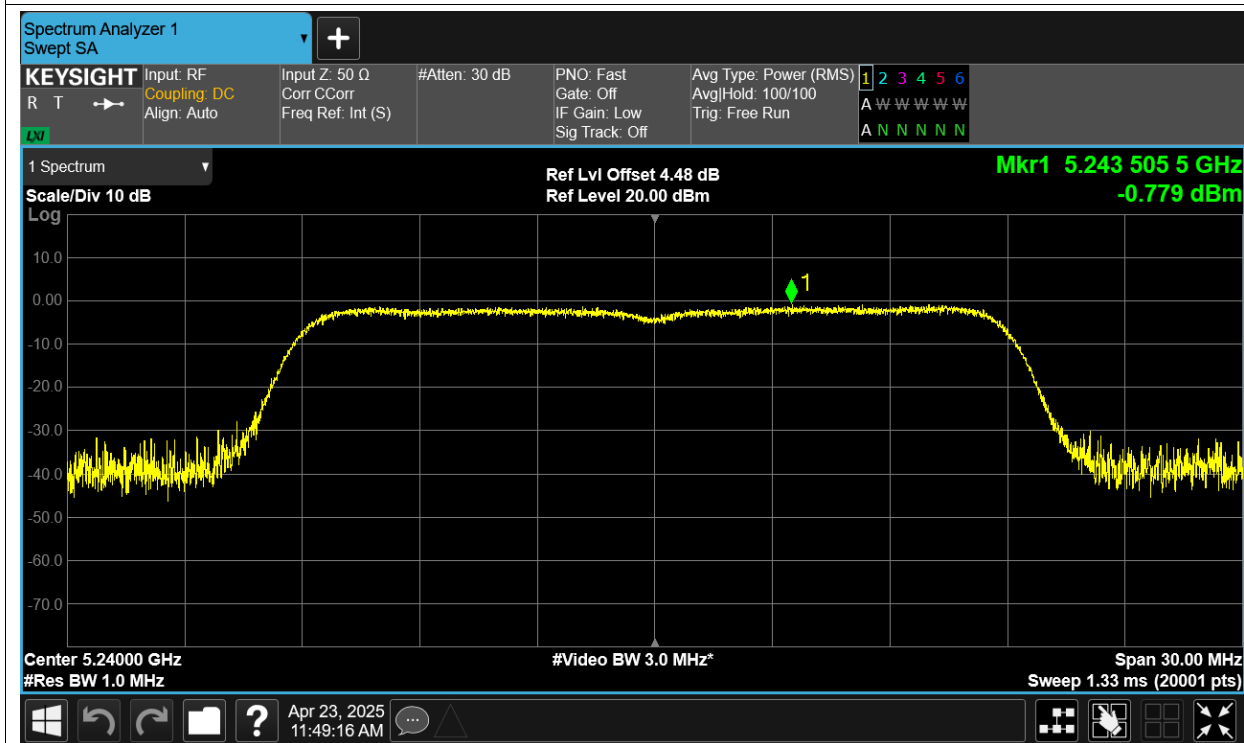
PSD NVNT ac20 5180MHz Ant1



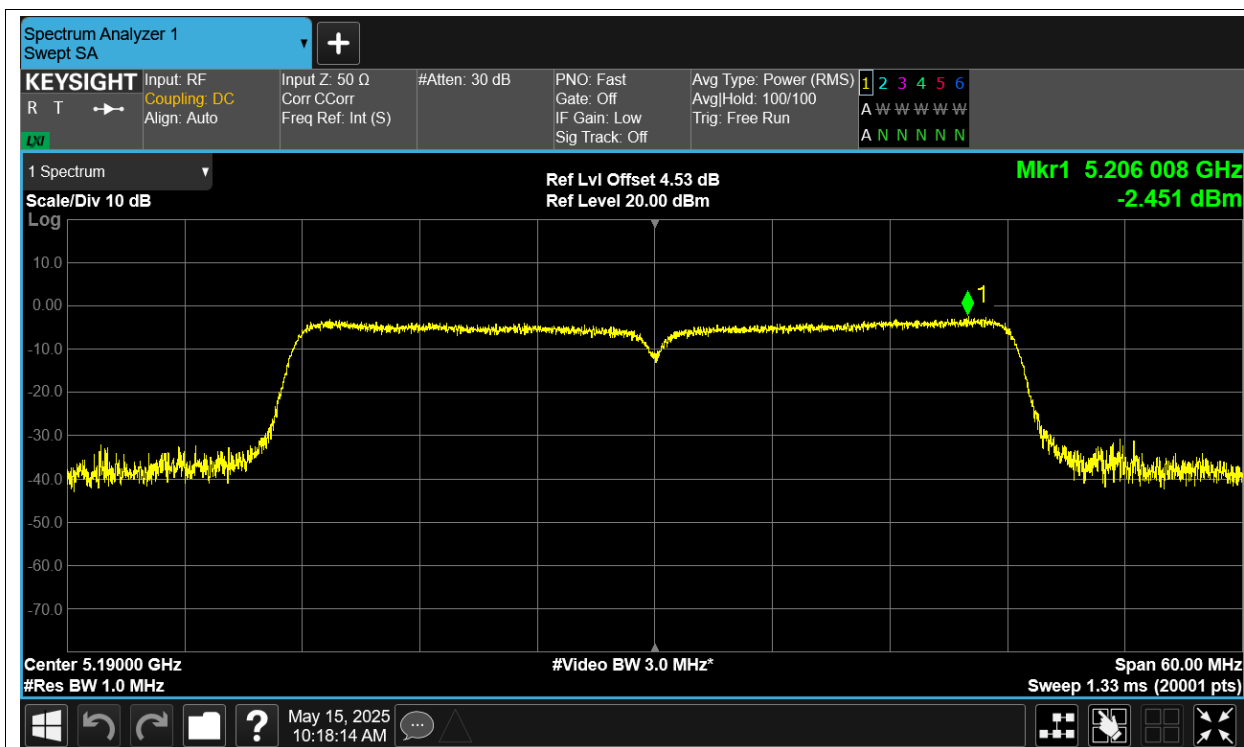
PSD NVNT ac20 5200MHz Ant1



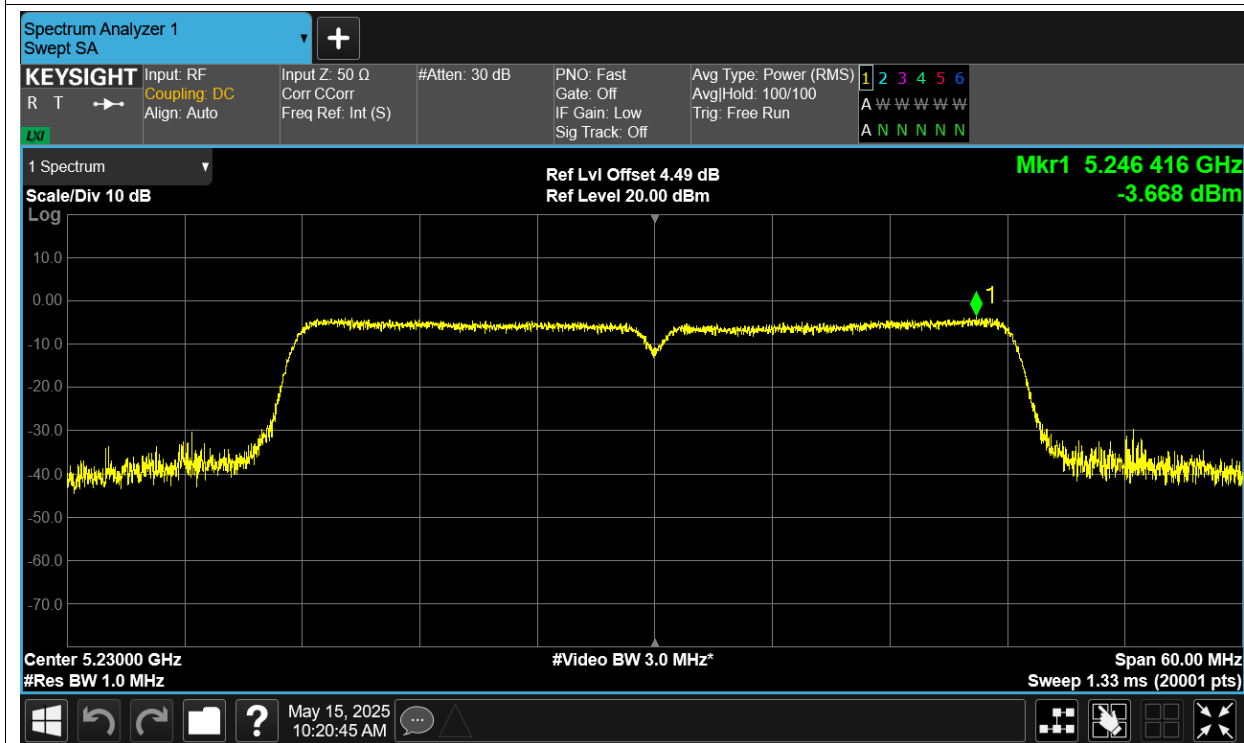
PSD NVNT ac20 5240MHz Ant1



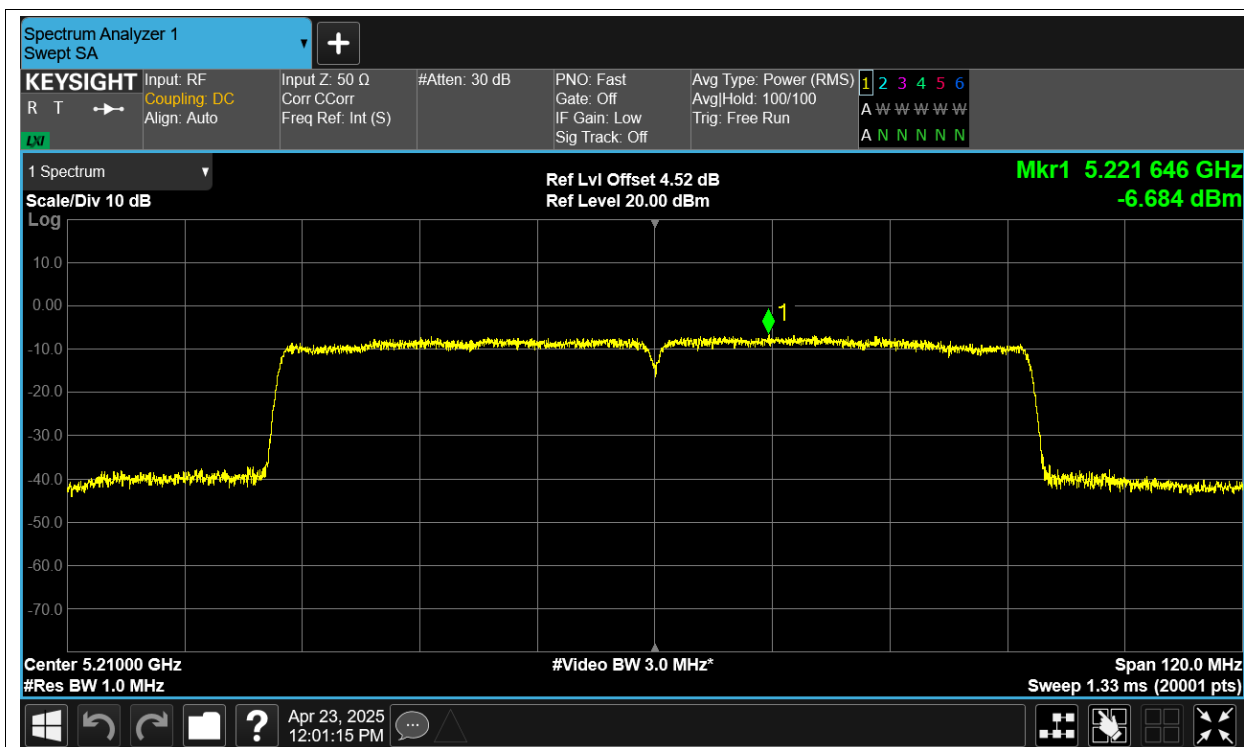
PSD NVNT ac40 5190MHz Ant1



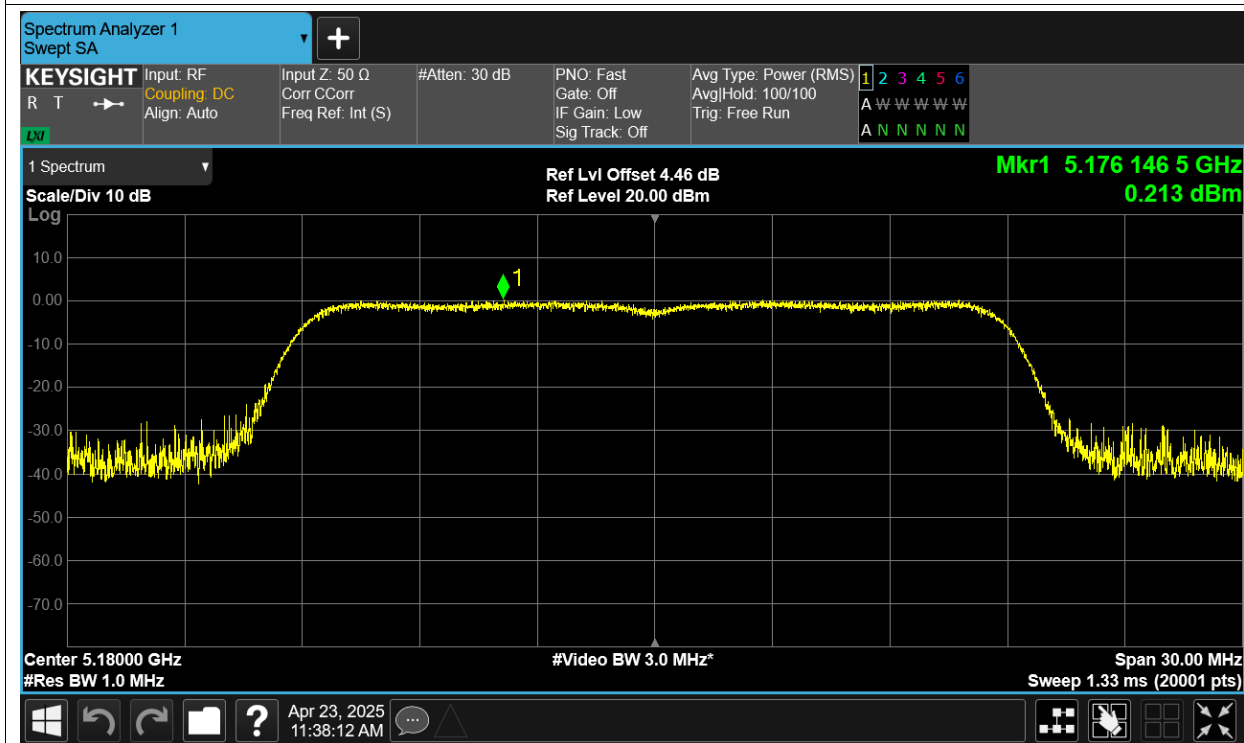
PSD NVNT ac40 5230MHz Ant1



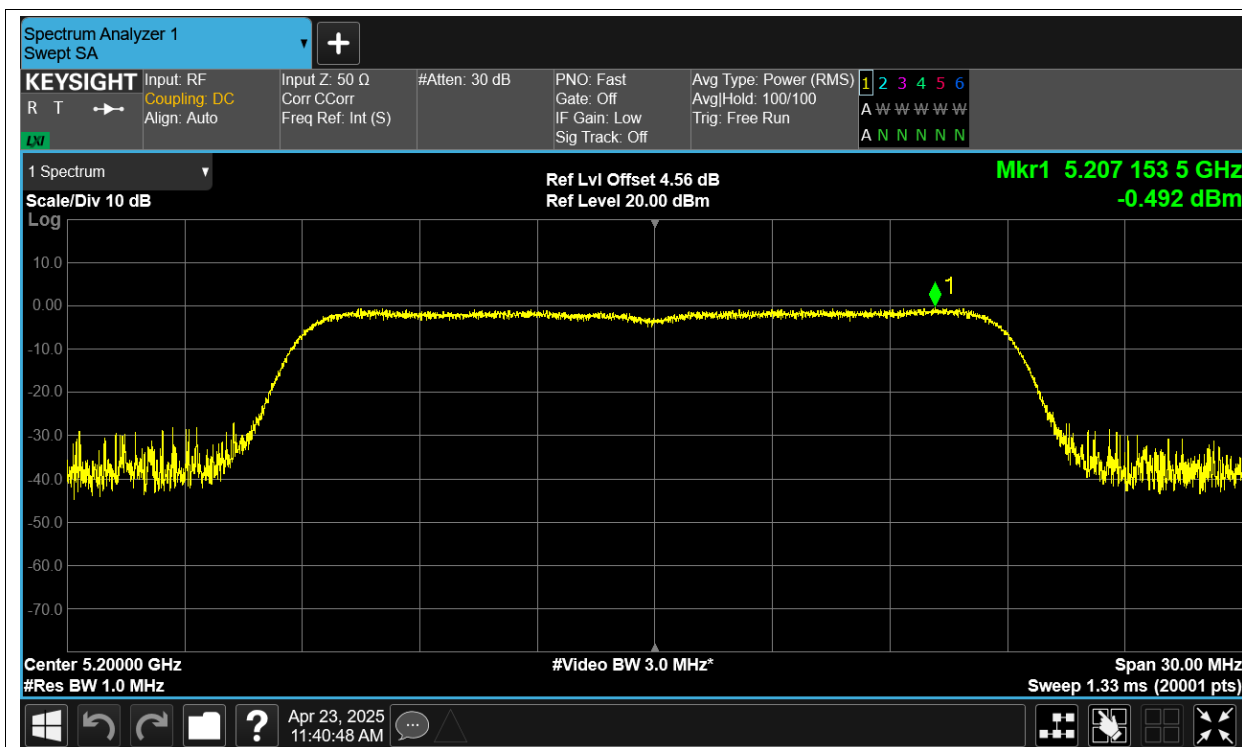
PSD NVNT ac80 5210MHz Ant1



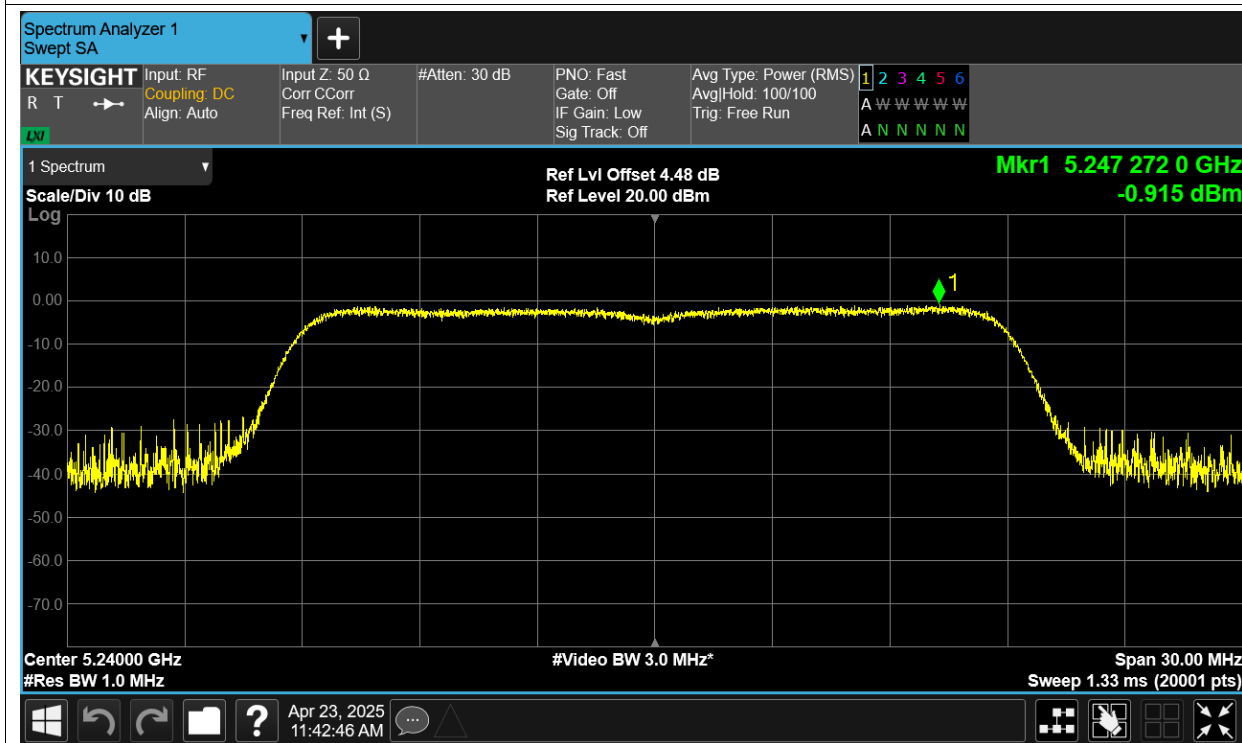
PSD NVNT n20 5180MHz Ant1



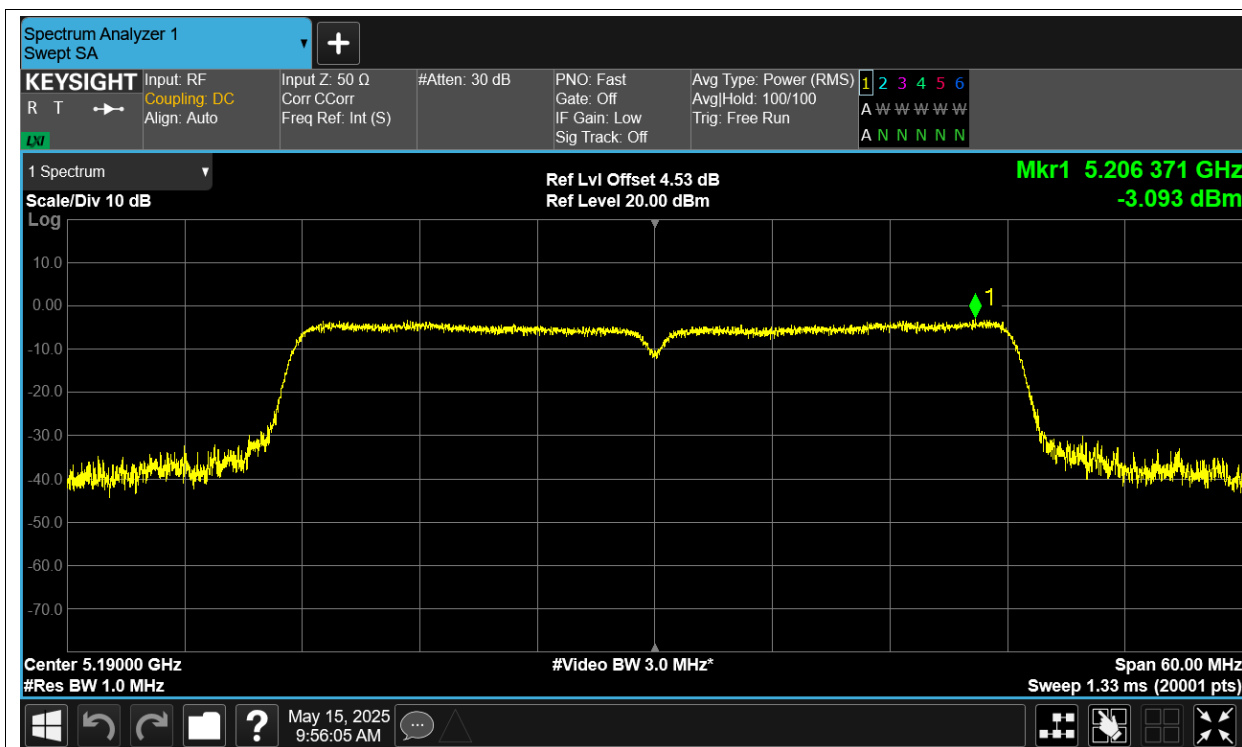
PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

