

Test Data

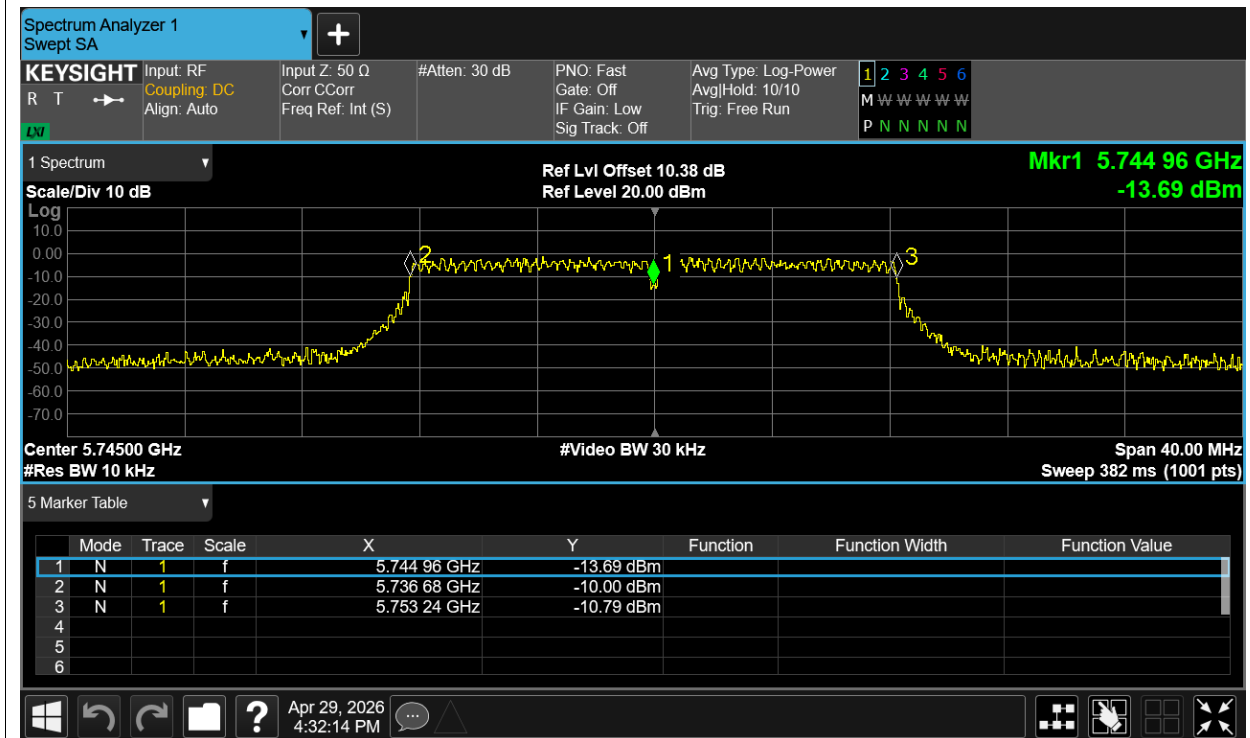
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant1	5744.96	-6.96	Within authorized band	Pass
HVNT	a	5745	Ant2	5744.96	-6.96		Pass
LVNT	a	5745	Ant1	5744.96	-6.96		Pass
LVNT	a	5745	Ant2	5744.96	-6.96		Pass
NVHT	a	5745	Ant1	5744.96	-6.96		Pass
NVHT	a	5745	Ant2	5744.96	-6.96		Pass
NVLT	a	5745	Ant1	5744.96	-6.96		Pass
NVLT	a	5745	Ant2	5744.96	-6.96		Pass
NVNT	a	5745	Ant1	5744.96	-6.96		Pass
NVNT	a	5745	Ant2	5744.98	-3.48		Pass
HVNT	ac20	5745	Sum	5744.98	-3.48		Pass
LVNT	ac20	5745	Sum	5744.98	-3.48		Pass
NVHT	ac20	5745	Sum	5744.96	-6.96		Pass
NVLT	ac20	5745	Sum	5744.96	-6.96		Pass
NVNT	ac20	5745	Sum	5744.98	-3.48		Pass
HVNT	ac40	5755	Sum	5754.96	-6.95		Pass
LVNT	ac40	5755	Sum	5755	0		Pass
NVHT	ac40	5755	Sum	5754.96	-6.95		Pass
NVLT	ac40	5755	Sum	5755	0		Pass
NVNT	ac40	5755	Sum	5754.96	-6.95		Pass
HVNT	ac80	5775	Sum	5775	0		Pass
LVNT	ac80	5775	Sum	5775	0		Pass
NVHT	ac80	5775	Sum	5775	0		Pass
NVLT	ac80	5775	Sum	5775	0		Pass
NVNT	ac80	5775	Sum	5775	0		Pass
HVNT	ax20	5745	Sum	5744.98	-3.48		Pass
LVNT	ax20	5745	Sum	5744.98	-3.48		Pass
NVHT	ax20	5745	Sum	5744.98	-3.48		Pass
NVLT	ax20	5745	Sum	5744.98	-3.48		Pass
NVNT	ax20	5745	Sum	5744.98	-3.48		Pass
HVNT	ax40	5755	Sum	5754.96	-6.95		Pass
LVNT	ax40	5755	Sum	5754.96	-6.95		Pass
NVHT	ax40	5755	Sum	5754.96	-6.95		Pass
NVLT	ax40	5755	Sum	5754.96	-6.95		Pass
NVNT	ax40	5755	Sum	5754.96	-6.95		Pass
HVNT	ax80	5775	Sum	5775	0		Pass
LVNT	ax80	5775	Sum	5775	0		Pass
NVHT	ax80	5775	Sum	5775	0		Pass
NVLT	ax80	5775	Sum	5775	0		Pass

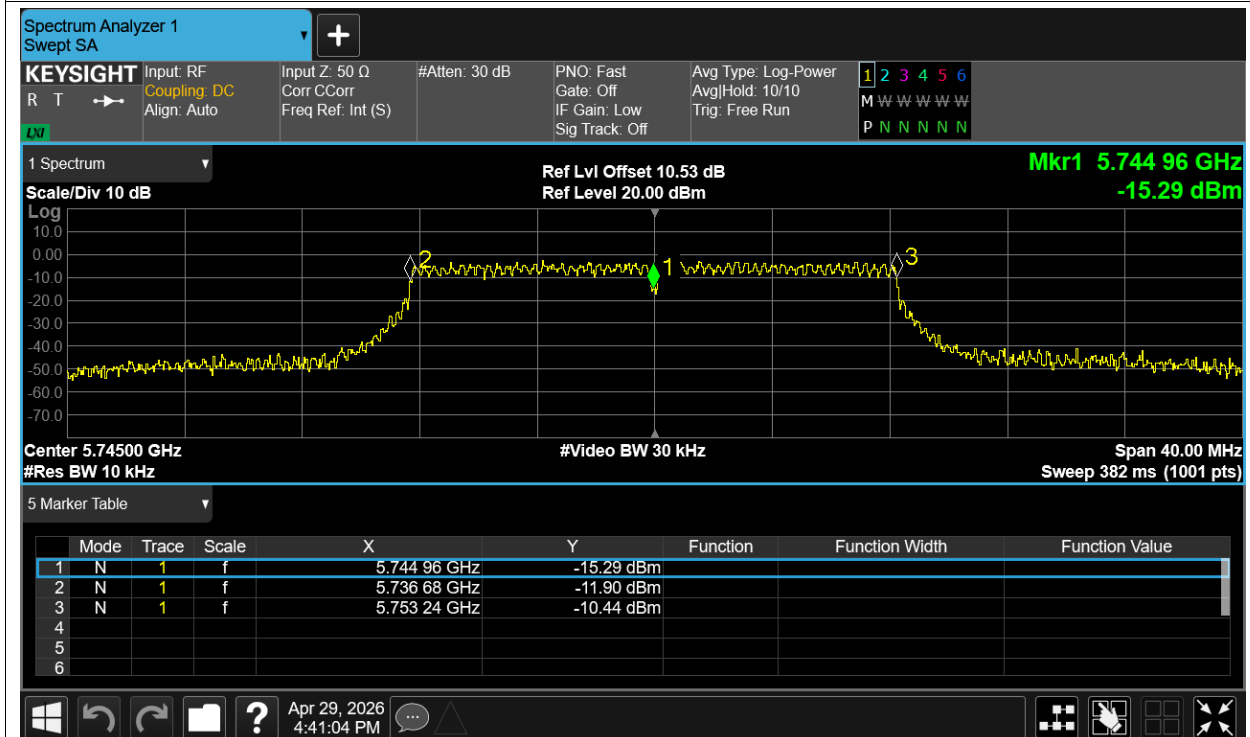
NVNT	ax80	5775	Sum	5775	0		Pass
HVNT	n20	5745	Sum	5744.96	-6.96		Pass
LVNT	n20	5745	Sum	5744.98	-3.48		Pass
NVHT	n20	5745	Sum	5744.96	-6.96		Pass
NVLT	n20	5745	Sum	5744.96	-6.96		Pass
NVNT	n20	5745	Sum	5744.96	-6.96		Pass
HVNT	n40	5755	Sum	5755	0		Pass
LVNT	n40	5755	Sum	5755	0		Pass
NVHT	n40	5755	Sum	5754.96	-6.95		Pass
NVLT	n40	5755	Sum	5754.96	-6.95		Pass
NVNT	n40	5755	Sum	5754.96	-6.95		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs

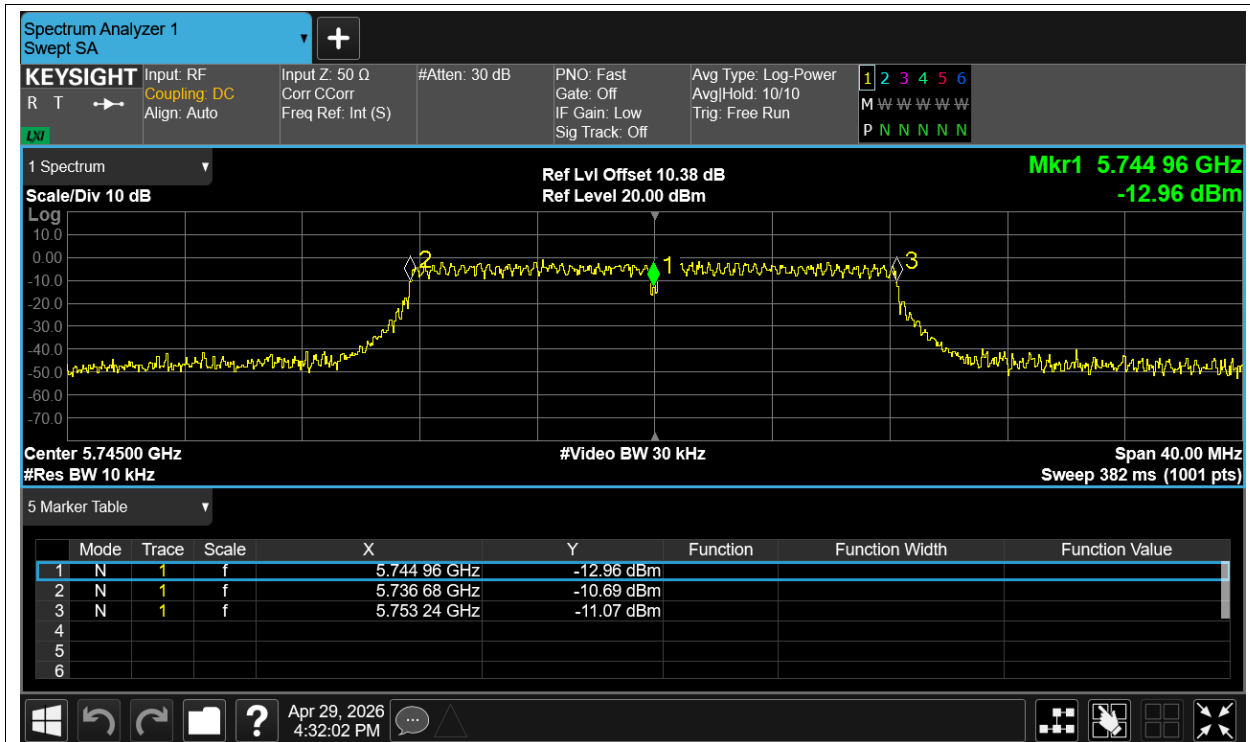
Freq. Stability HVNT a 5745MHz Ant1



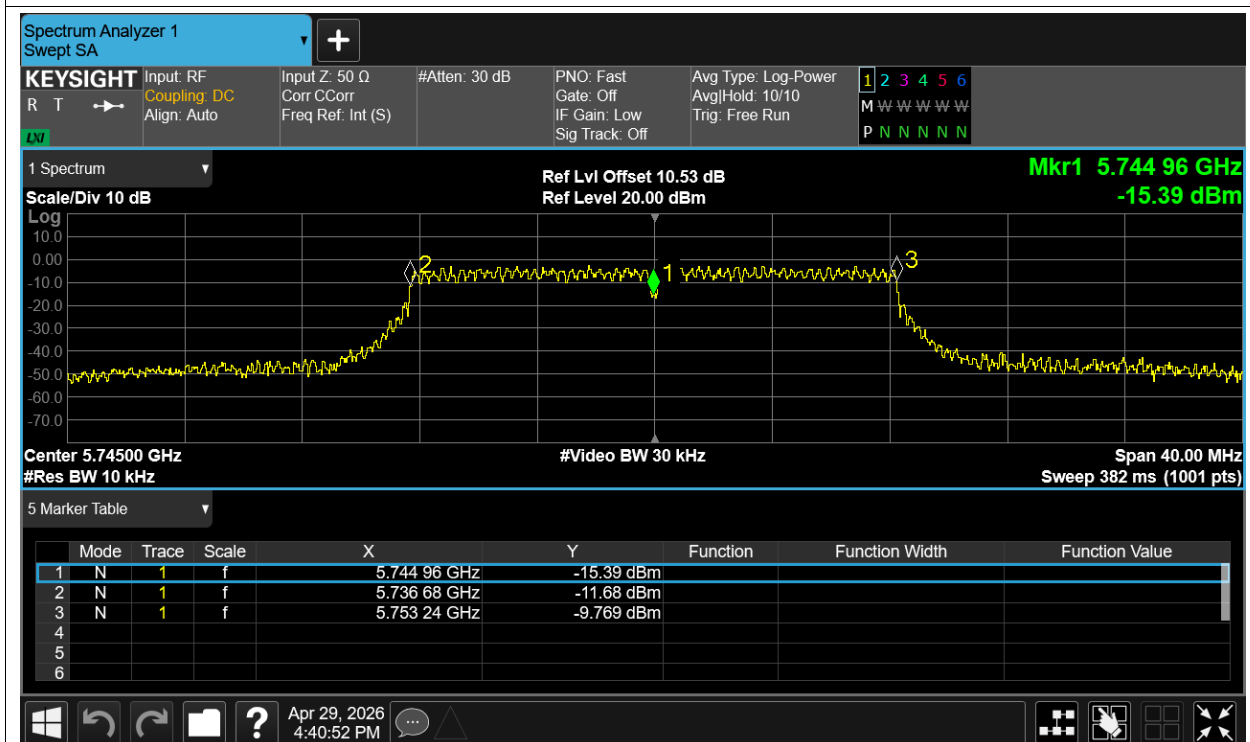
Freq. Stability HVNT a 5745MHz Ant2



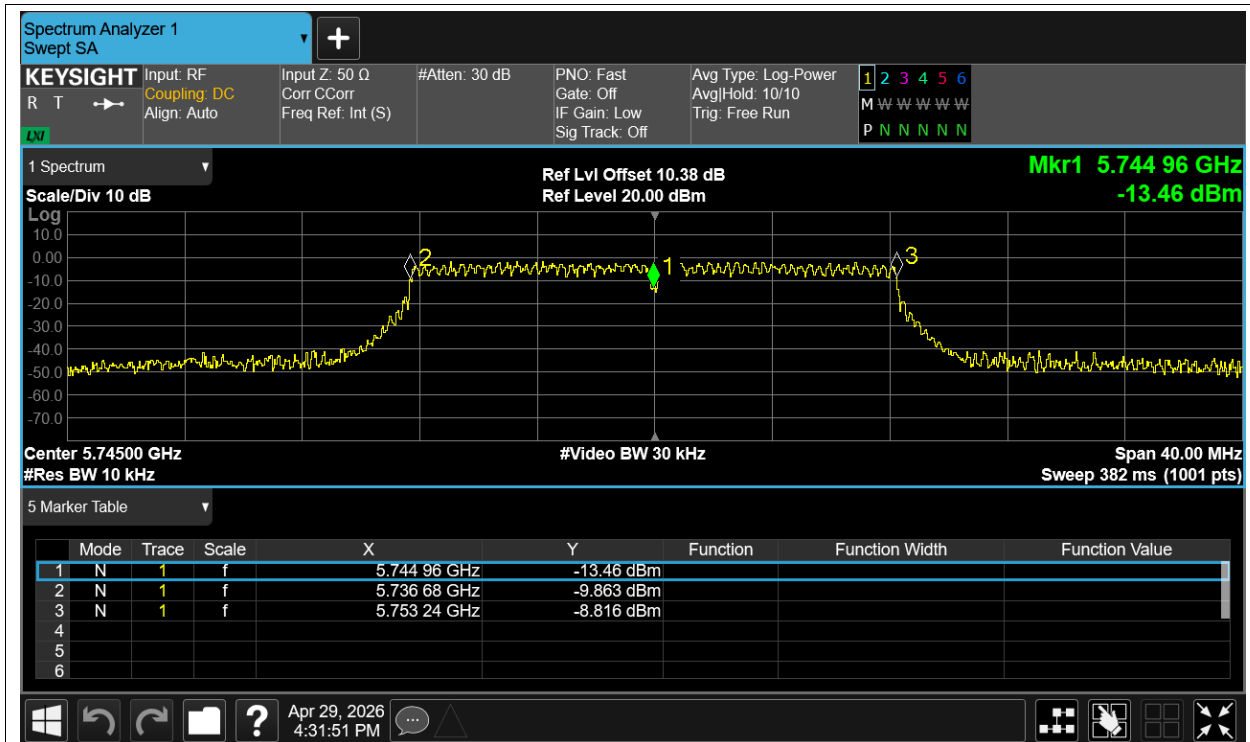
Freq. Stability LVNT a 5745MHz Ant1



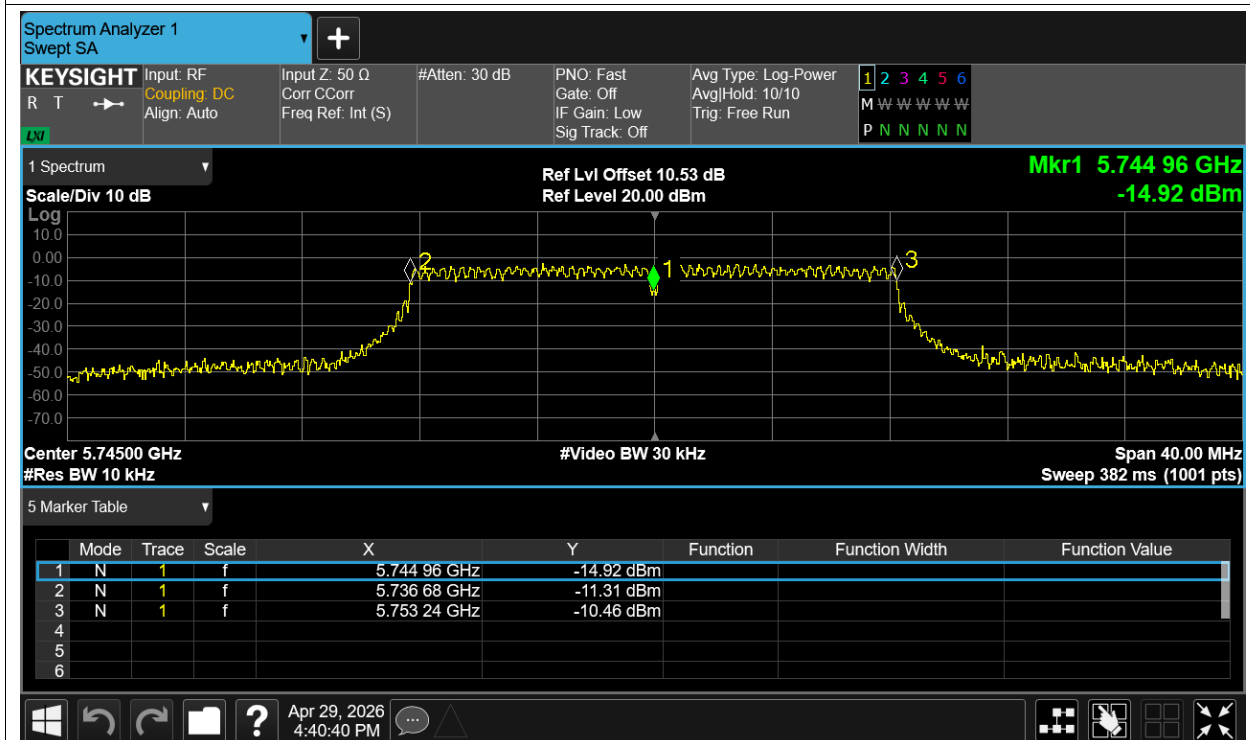
Freq. Stability LVNT a 5745MHz Ant2



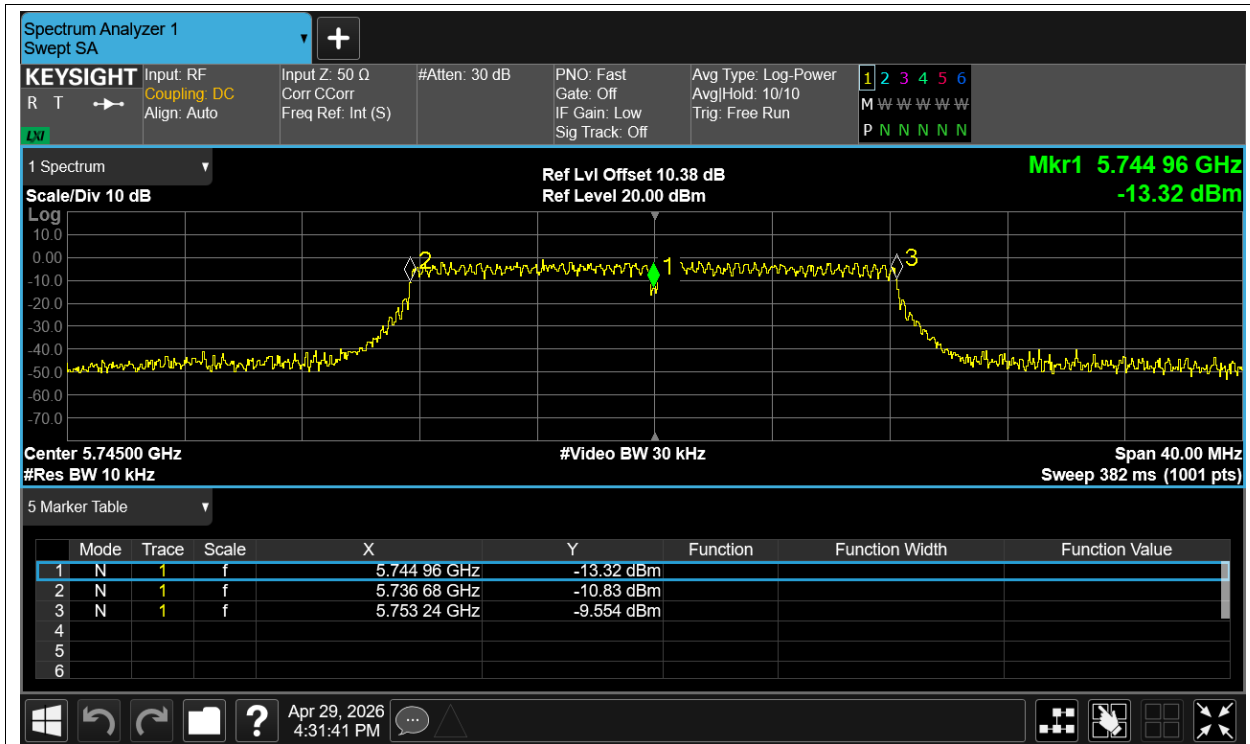
Freq. Stability NVHT a 5745MHz Ant1



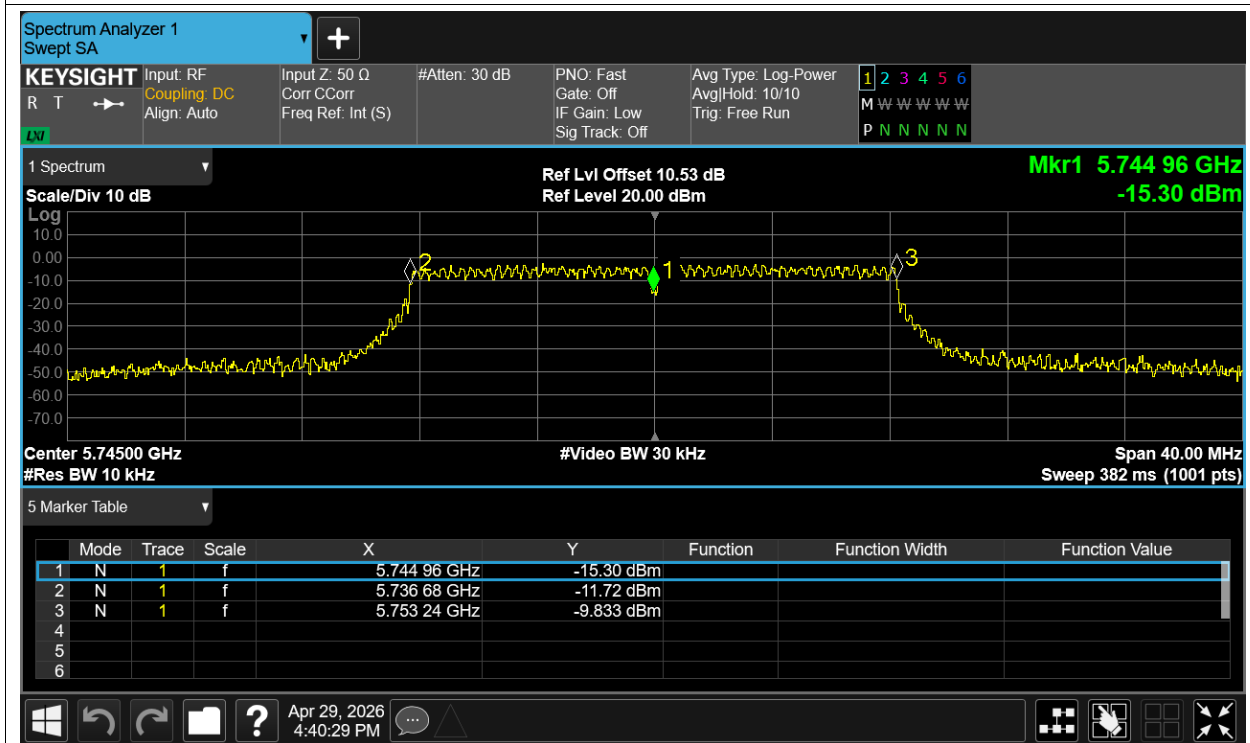
Freq. Stability NVHT a 5745MHz Ant2



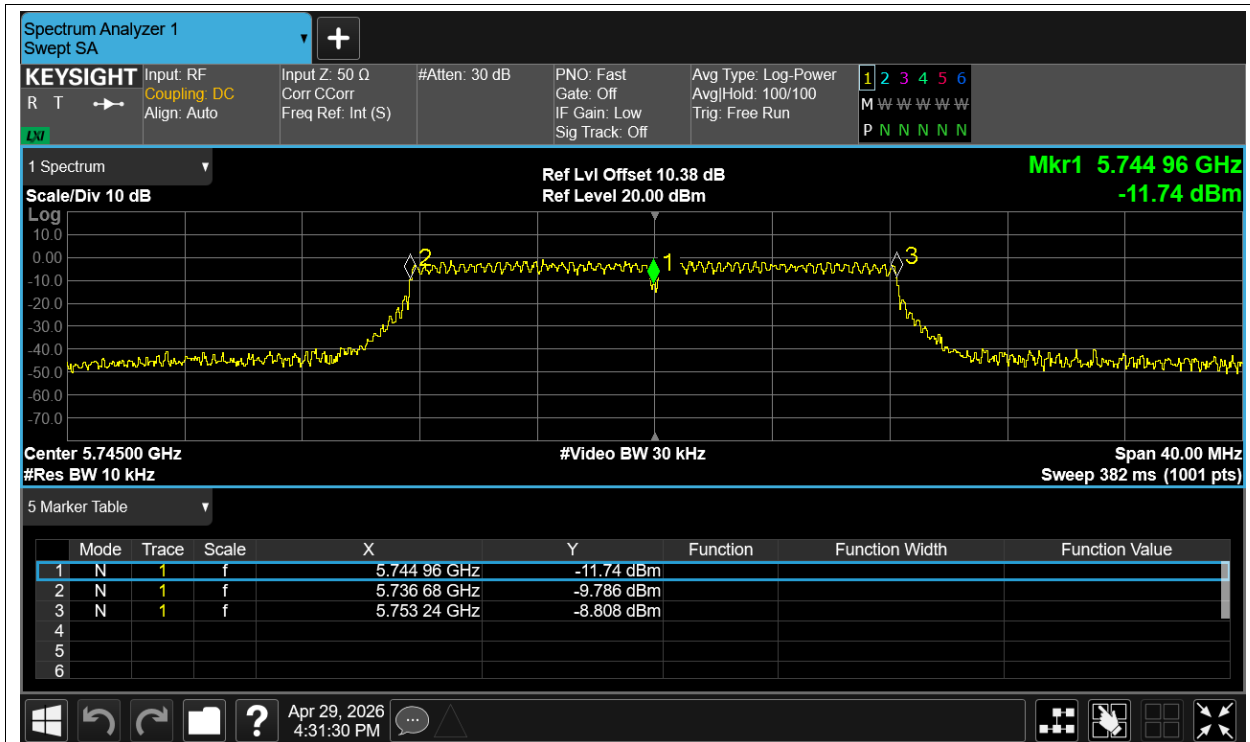
Freq. Stability NVLT a 5745MHz Ant1



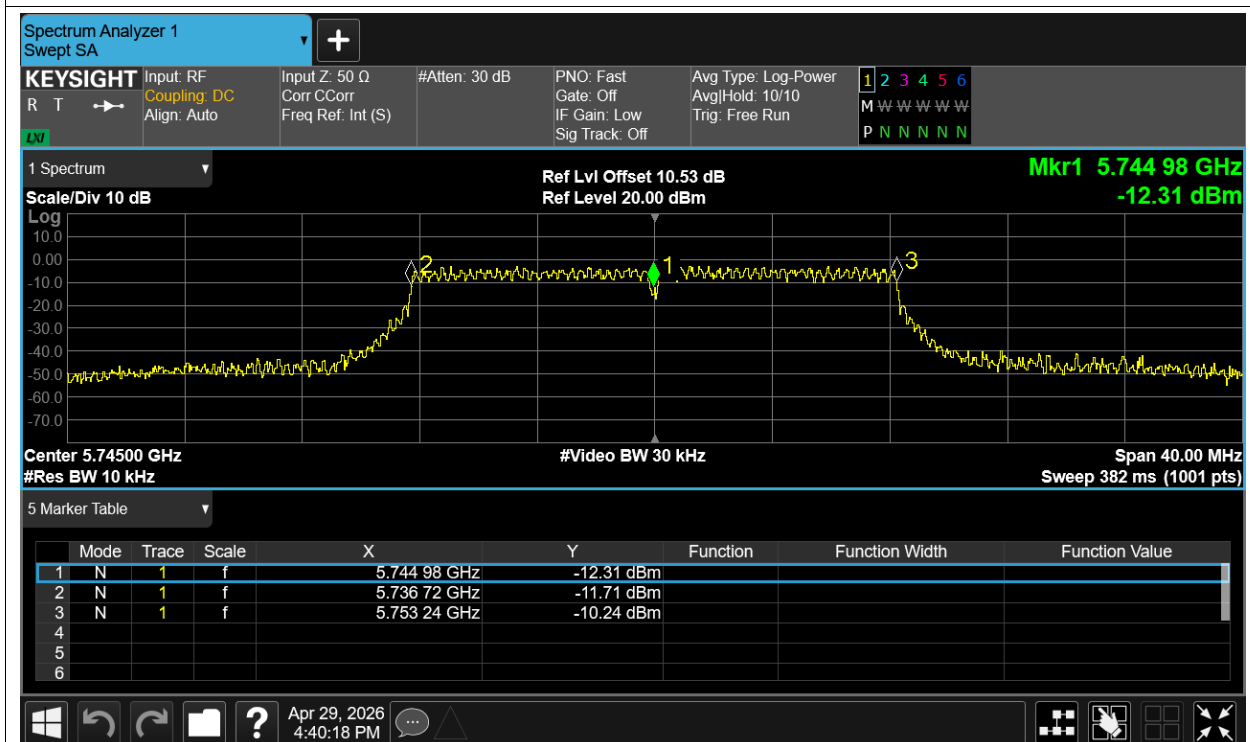
Freq. Stability NVLT a 5745MHz Ant2



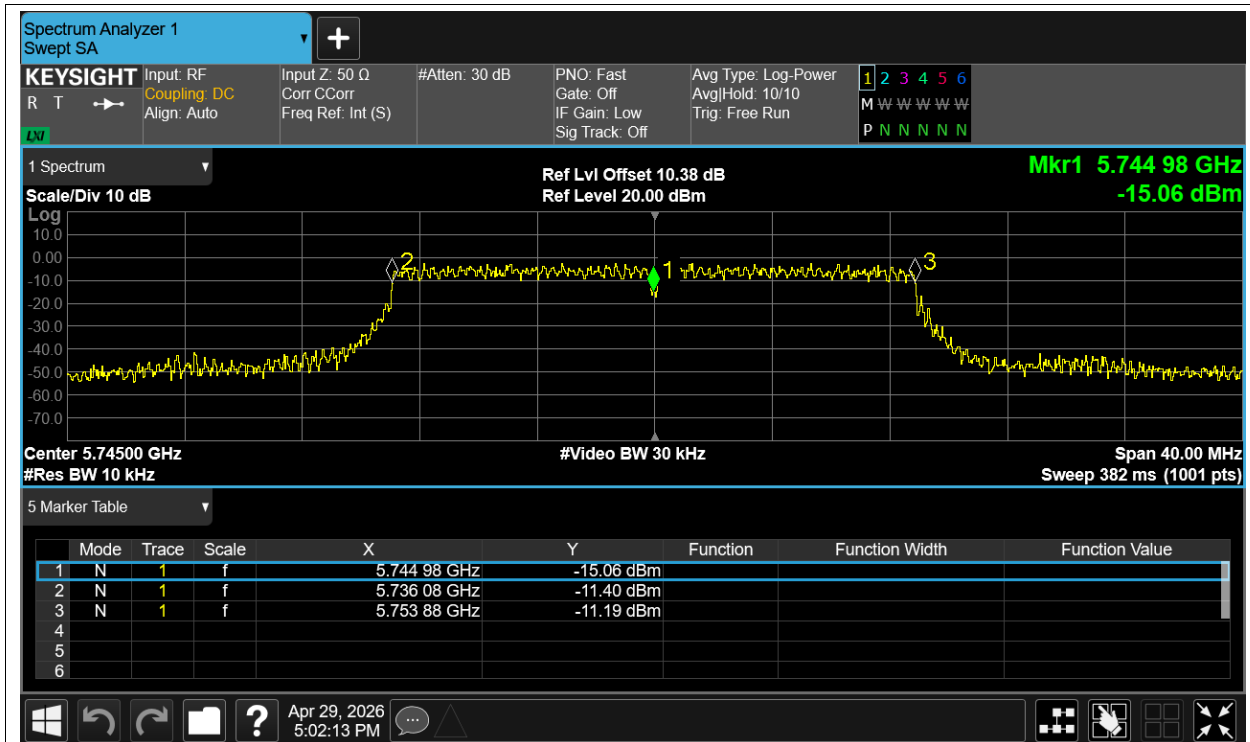
Freq. Stability NVNT a 5745MHz Ant1



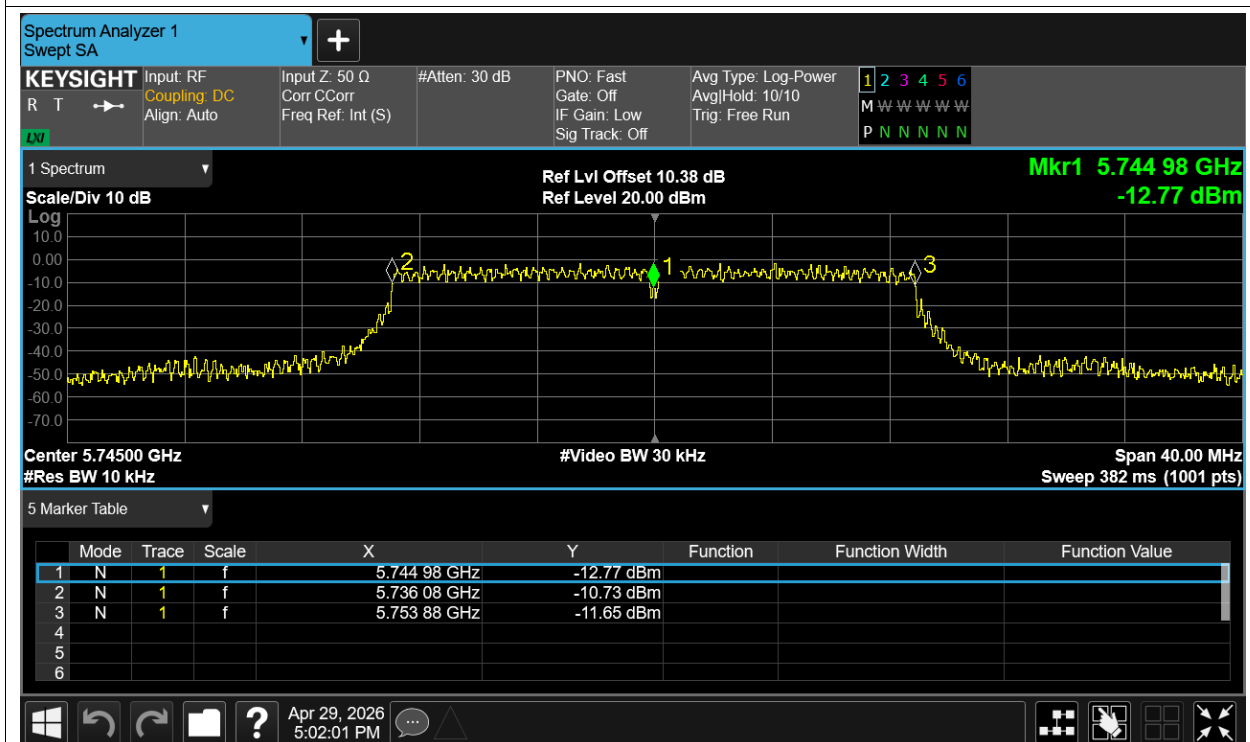
Freq. Stability NVNT a 5745MHz Ant2



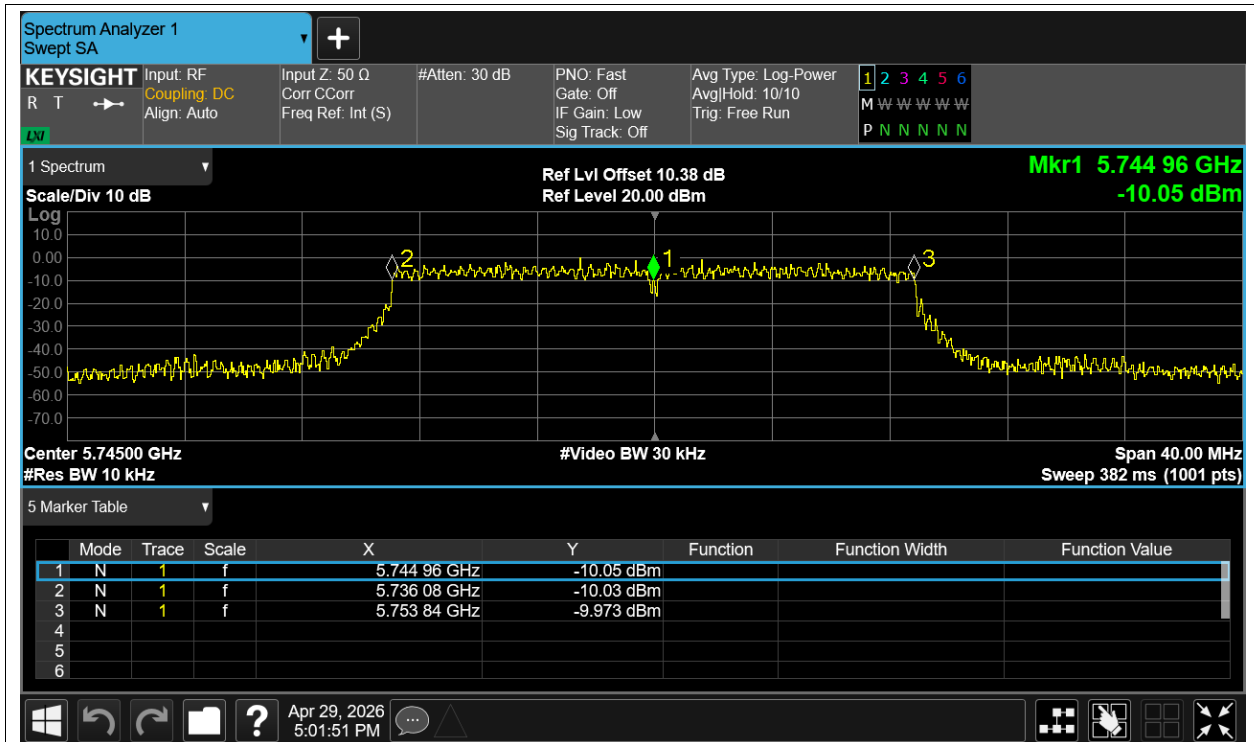
Freq. Stability HVNT ac20 5745MHz Sum



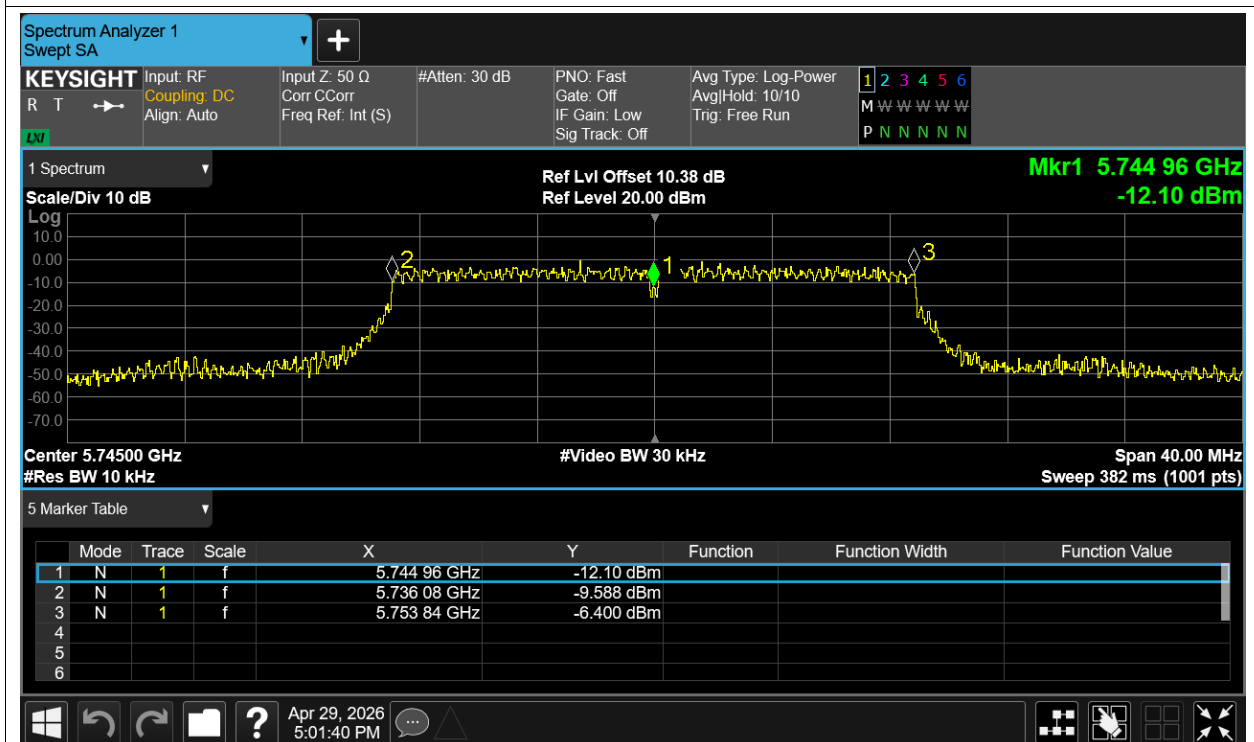
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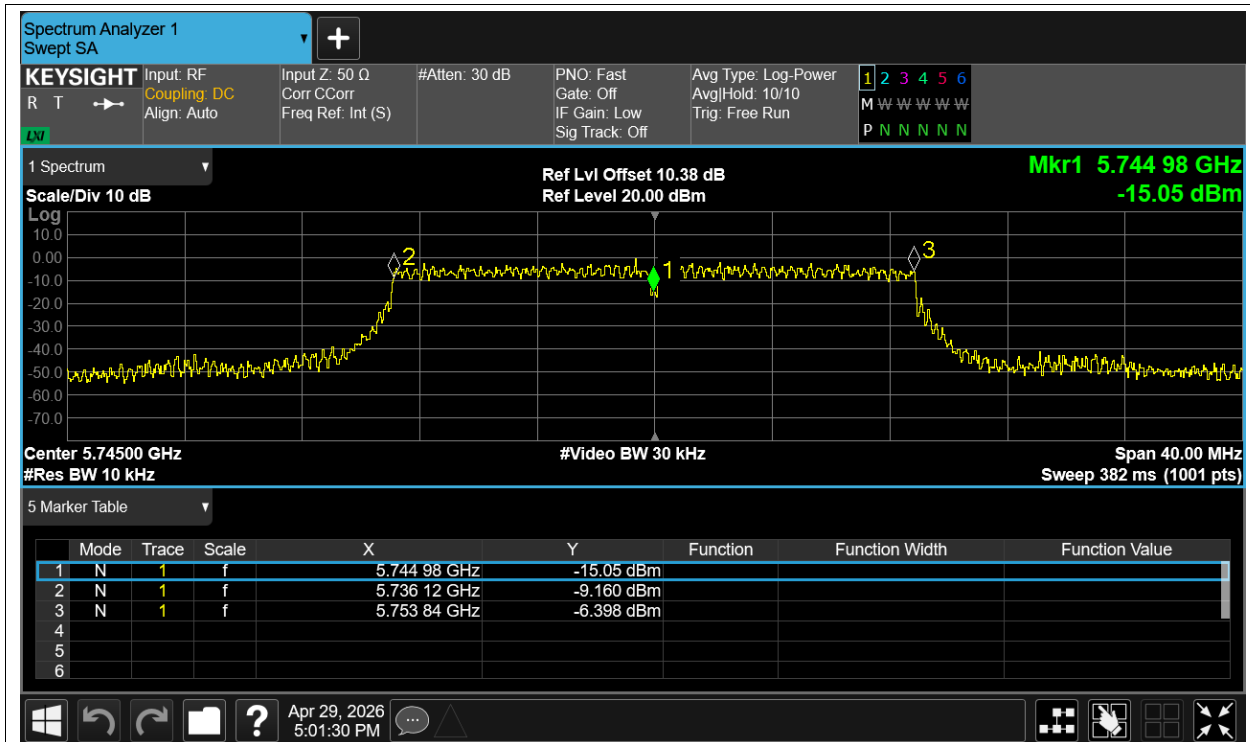
Freq. Stability NVHT ac20 5745MHz Sum



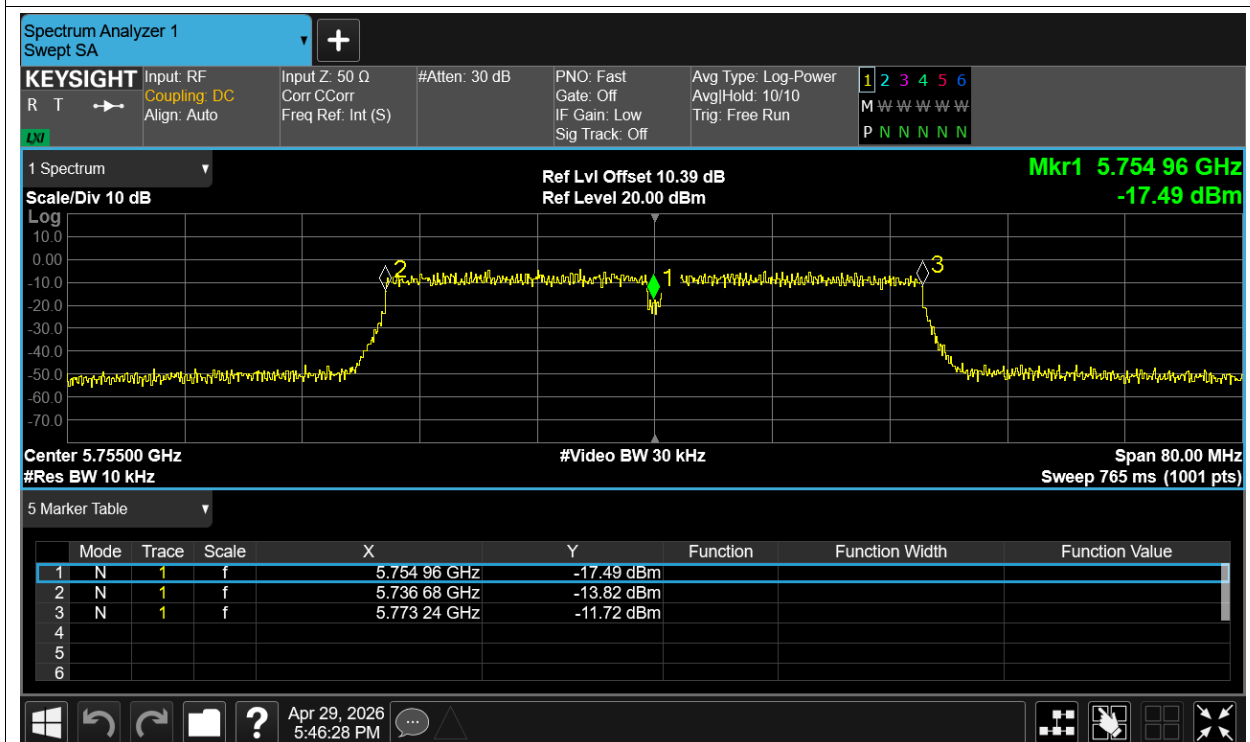
Freq. Stability NVLT ac20 5745MHz Sum



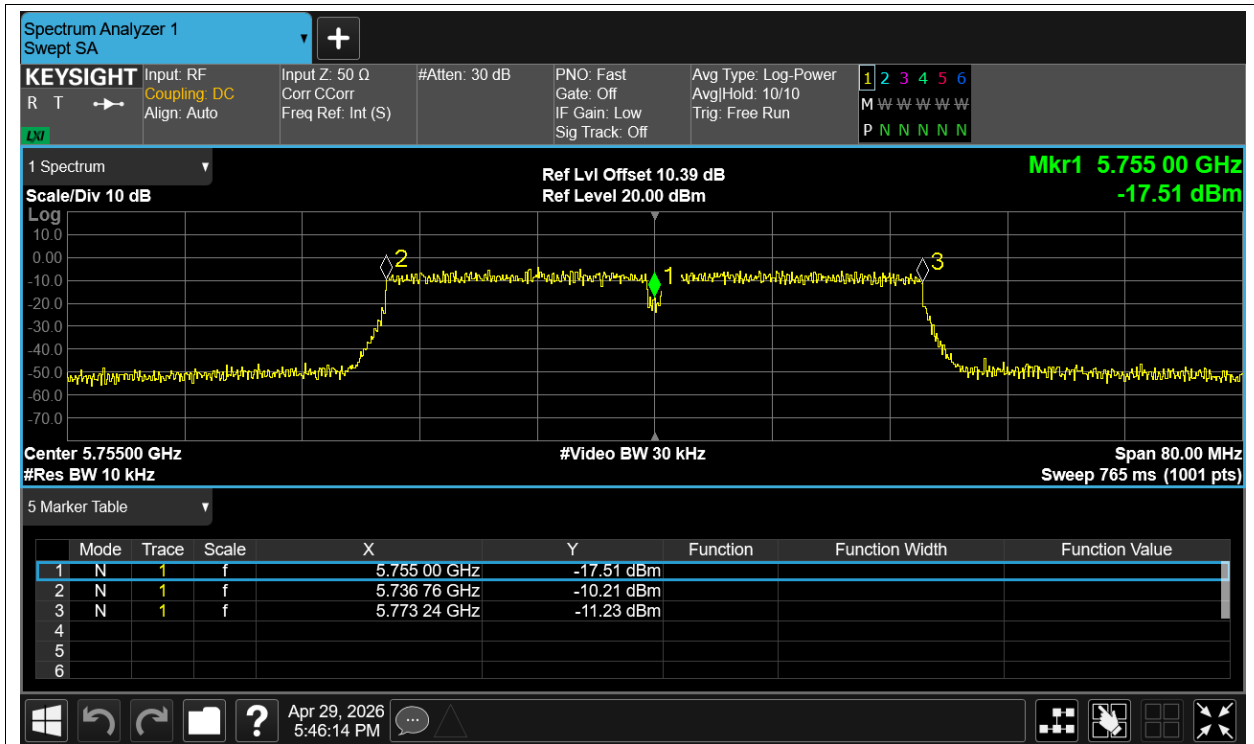
Freq. Stability NVNT ac20 5745MHz Sum



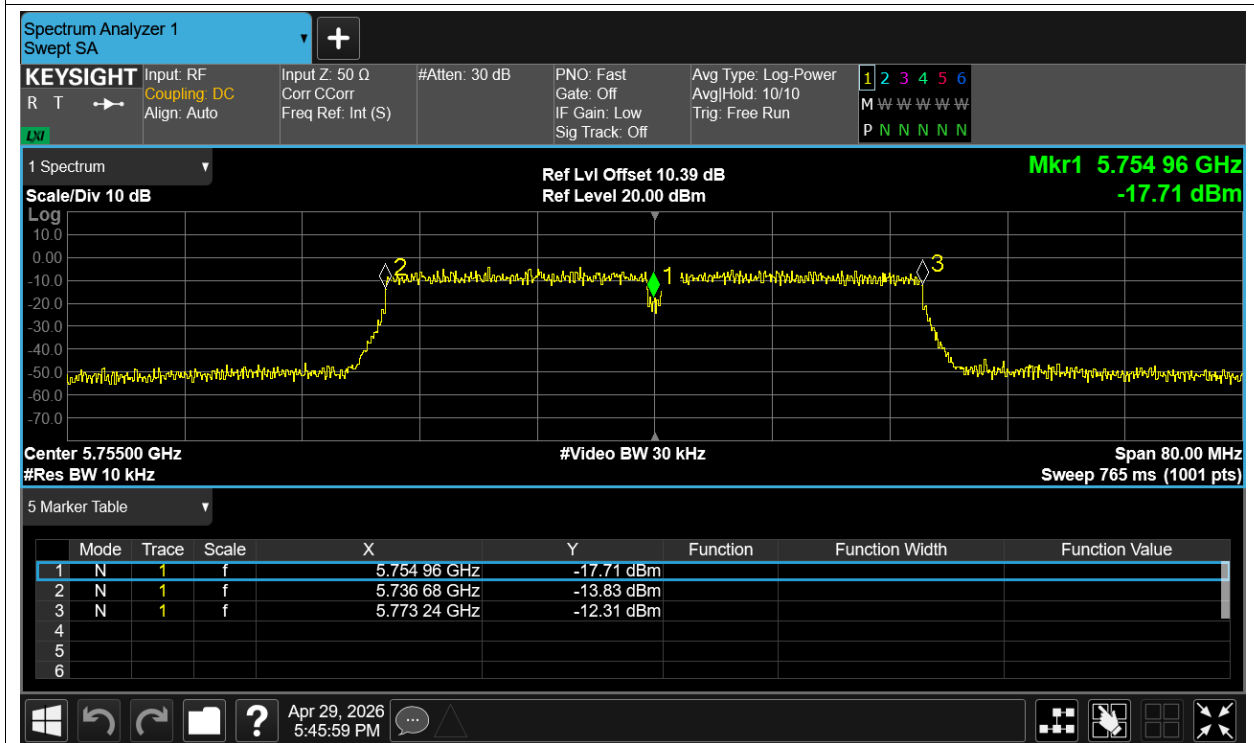
Freq. Stability HVNT ac40 5755MHz Sum



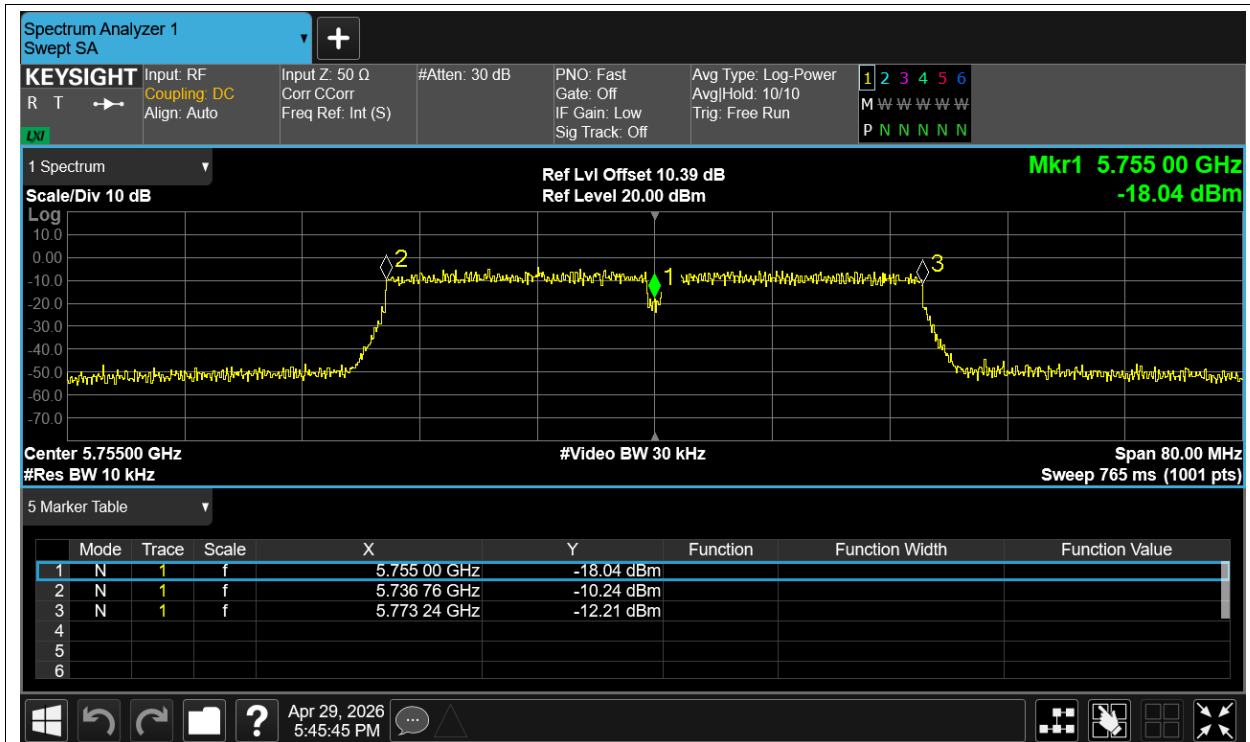
Freq. Stability LVNT ac40 5755MHz Sum



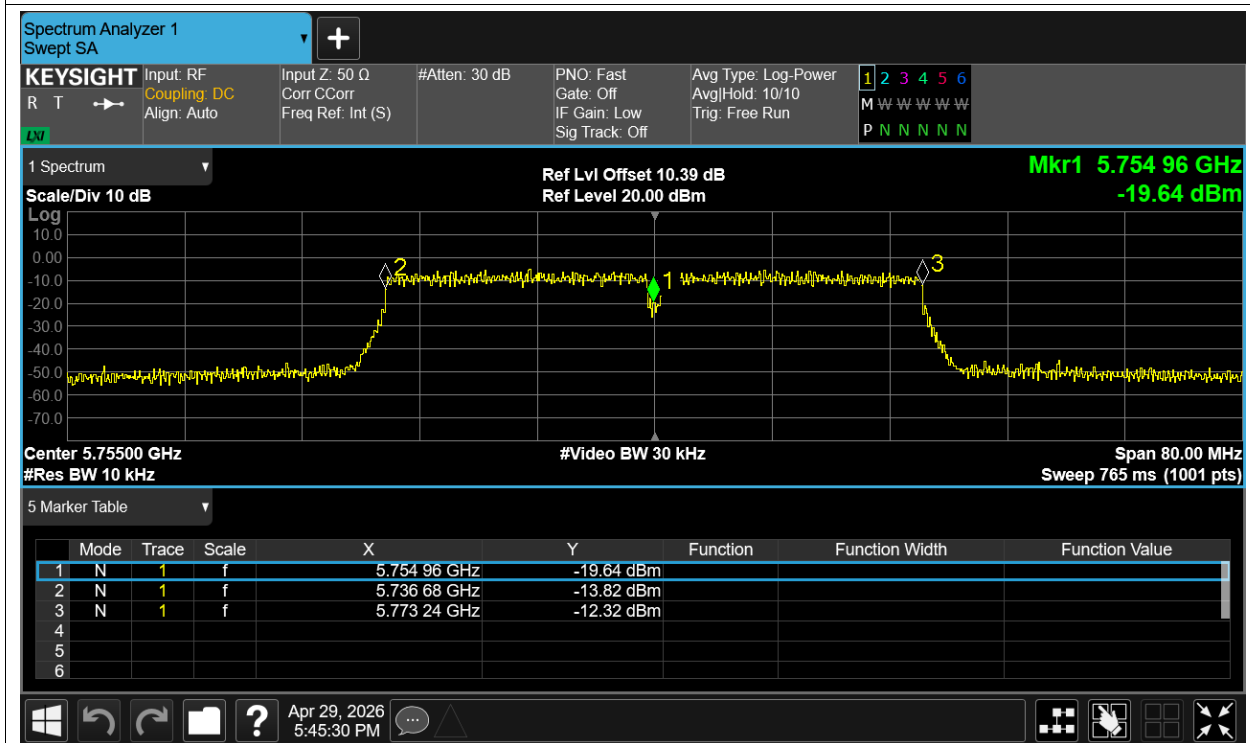
Freq. Stability NVHT ac40 5755MHz Sum



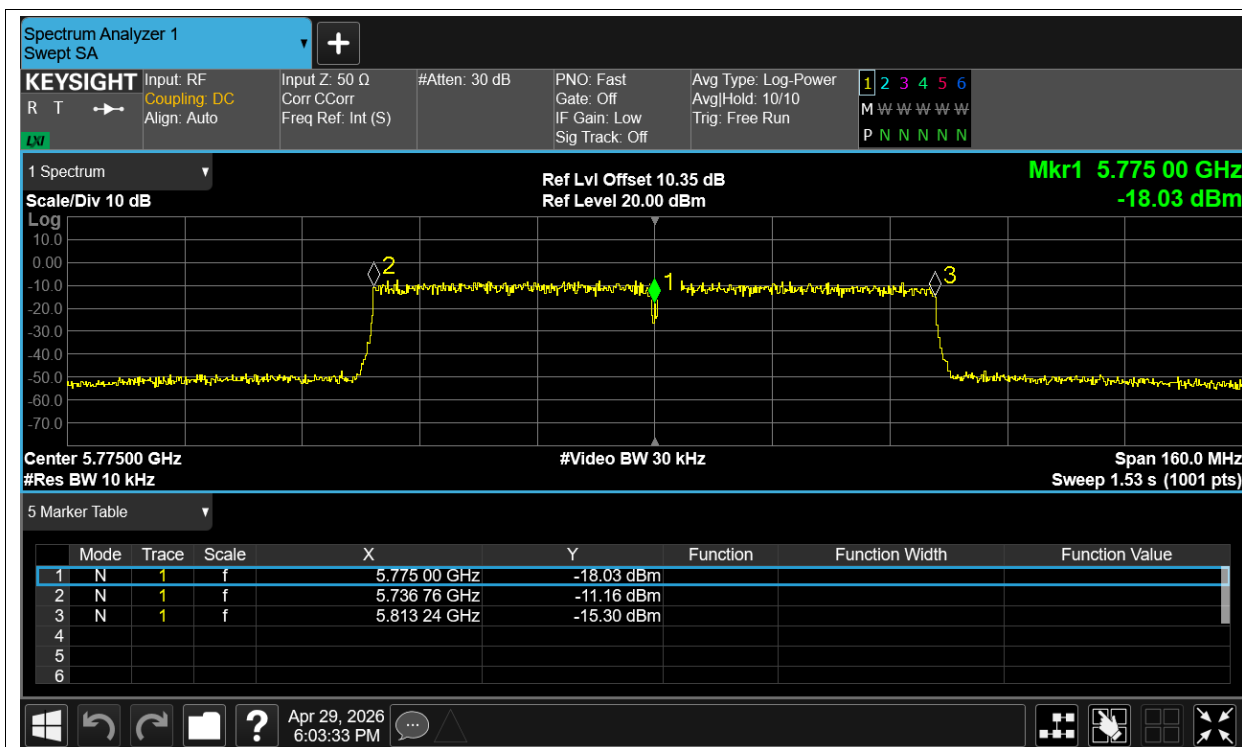
Freq. Stability NVLT ac40 5755MHz Sum



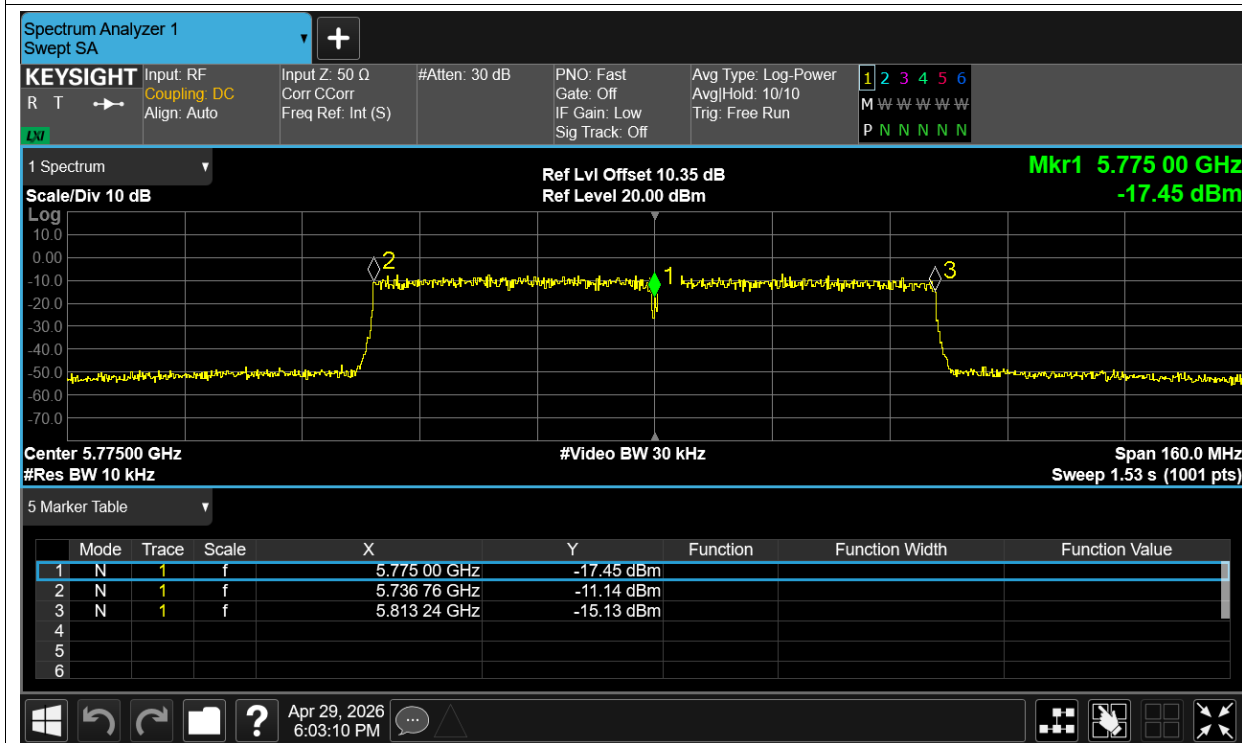
Freq. Stability NVNT ac40 5755MHz Sum



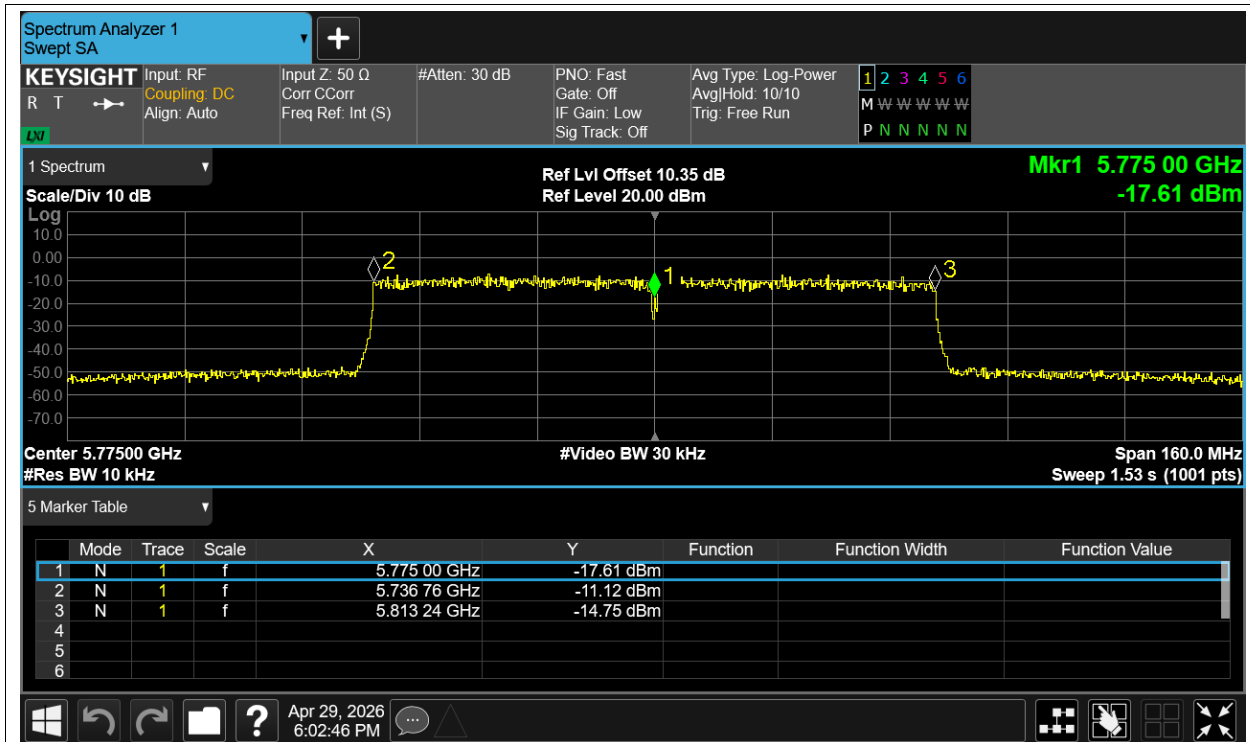
Freq. Stability HVNT ac80 5775MHz Sum



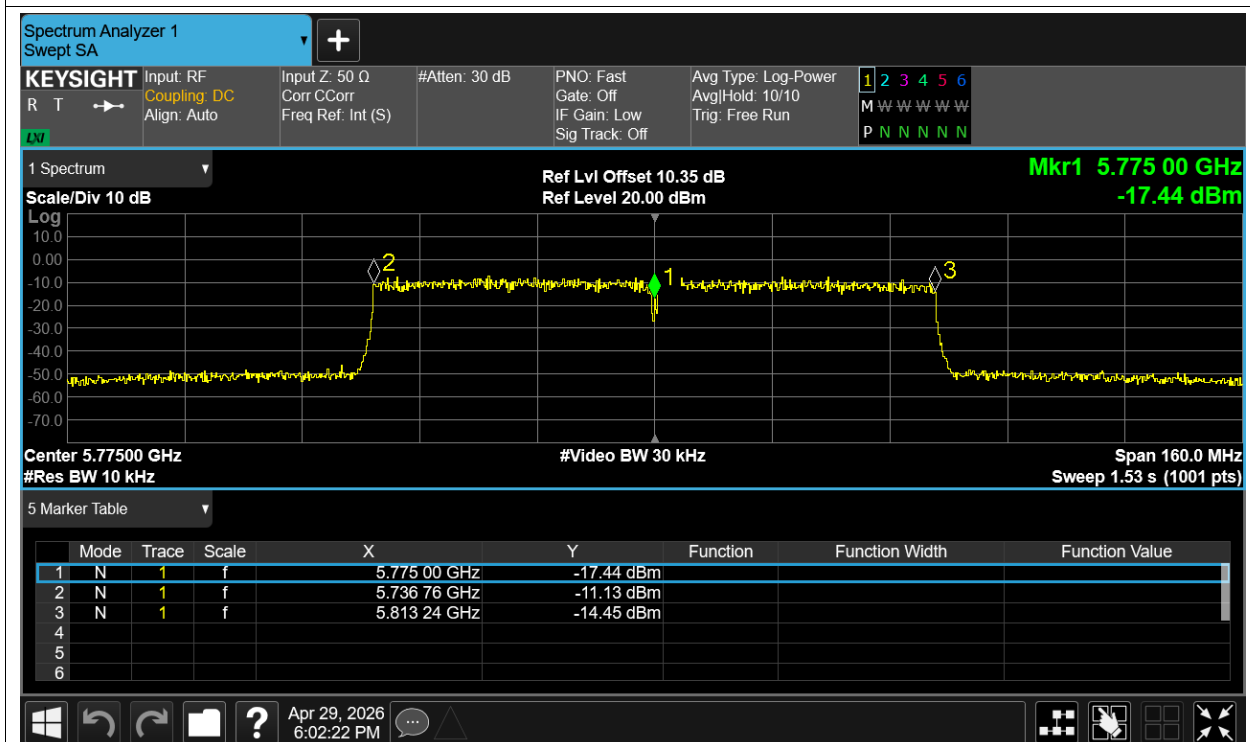
Freq. Stability LVNT ac80 5775MHz Sum



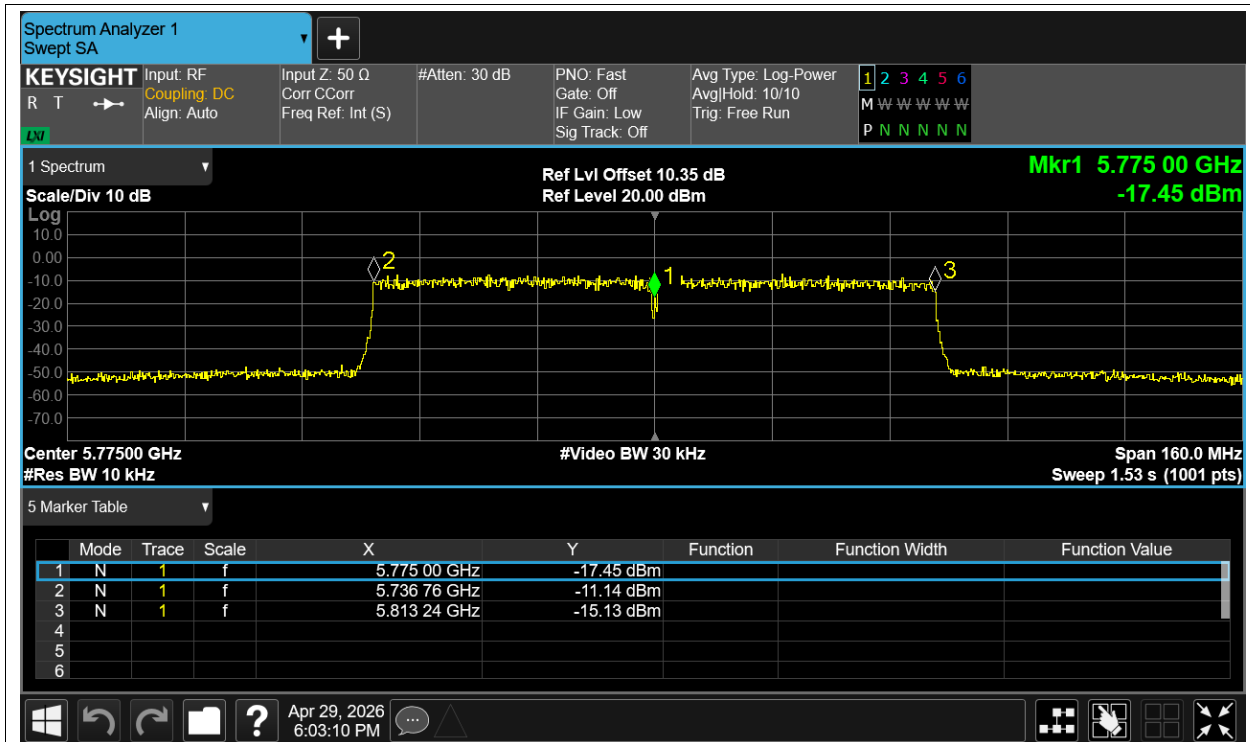
Freq. Stability NVHT ac80 5775MHz Sum



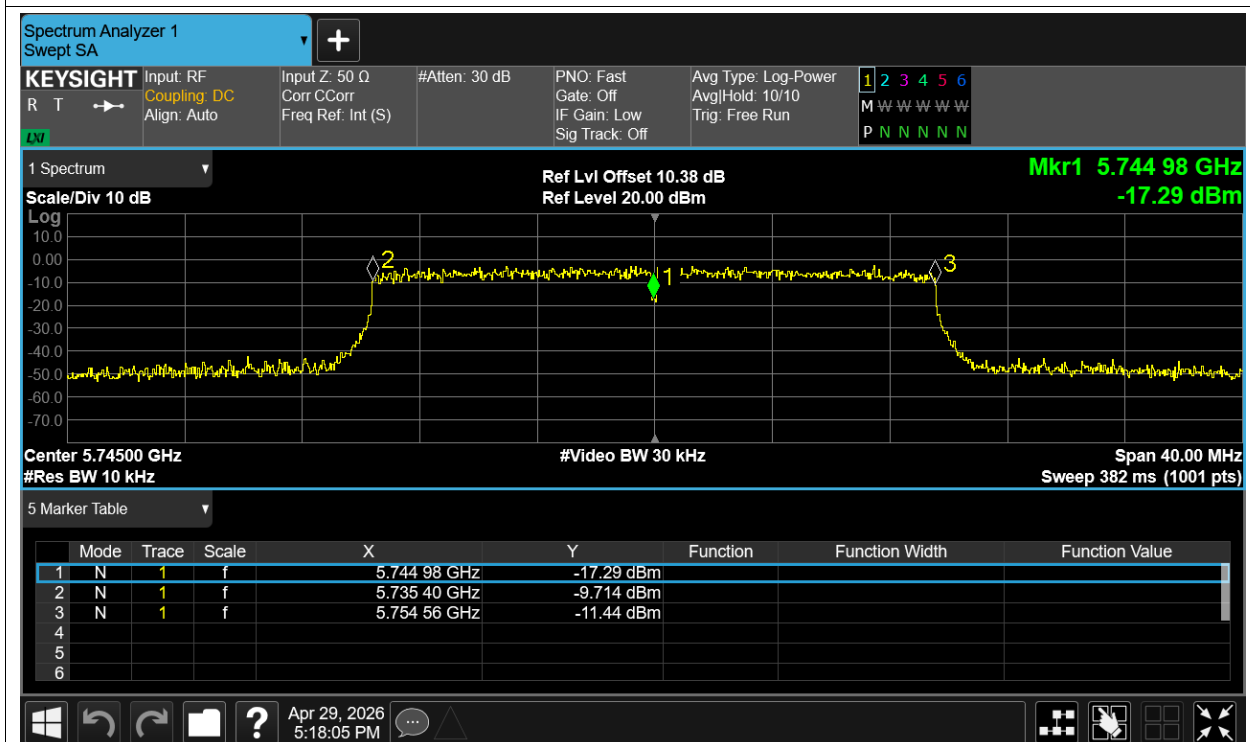
Freq. Stability NVLT ac80 5775MHz Sum



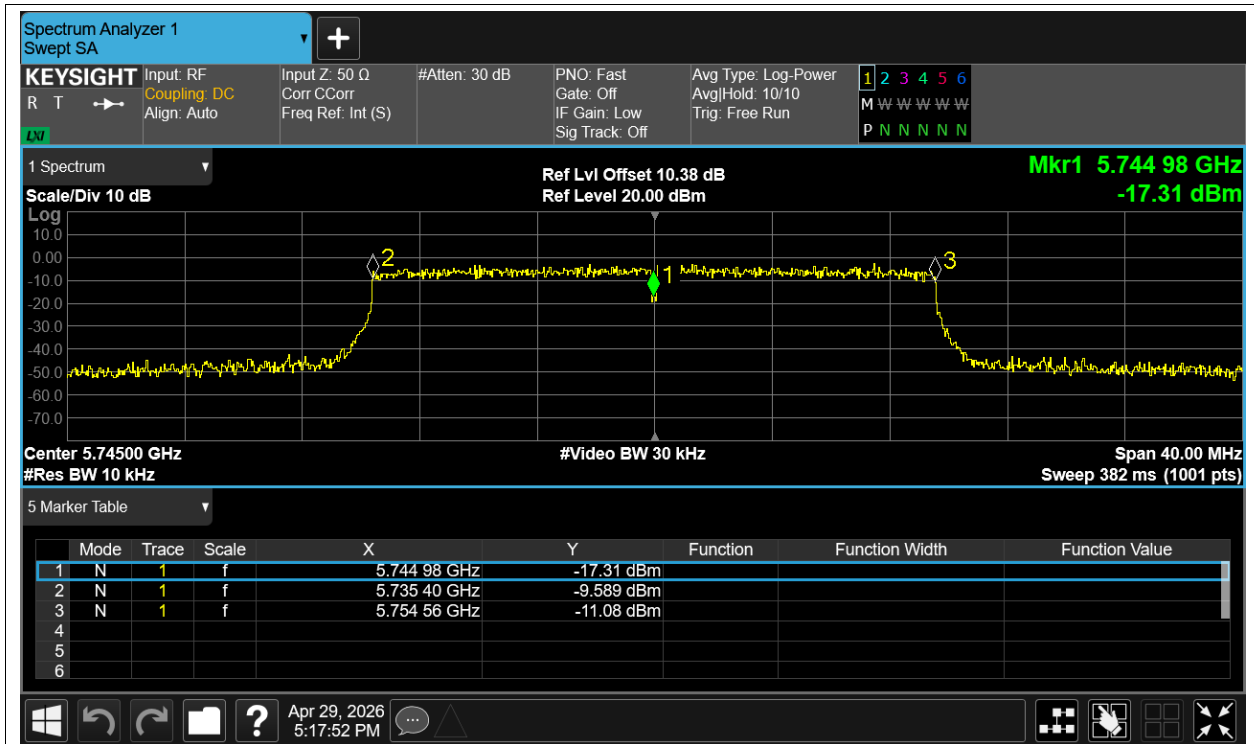
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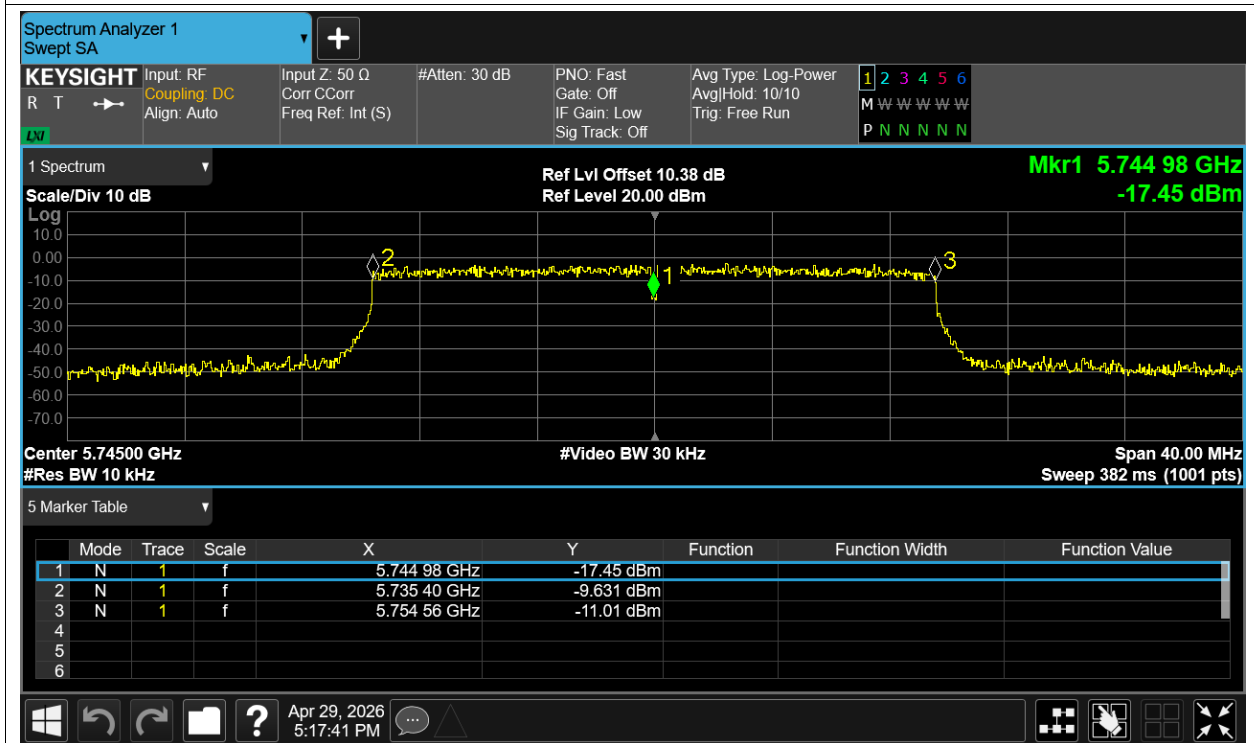
Freq. Stability HVNT ax20 5745MHz Sum



Freq. Stability LVNT ax20 5745MHz Sum



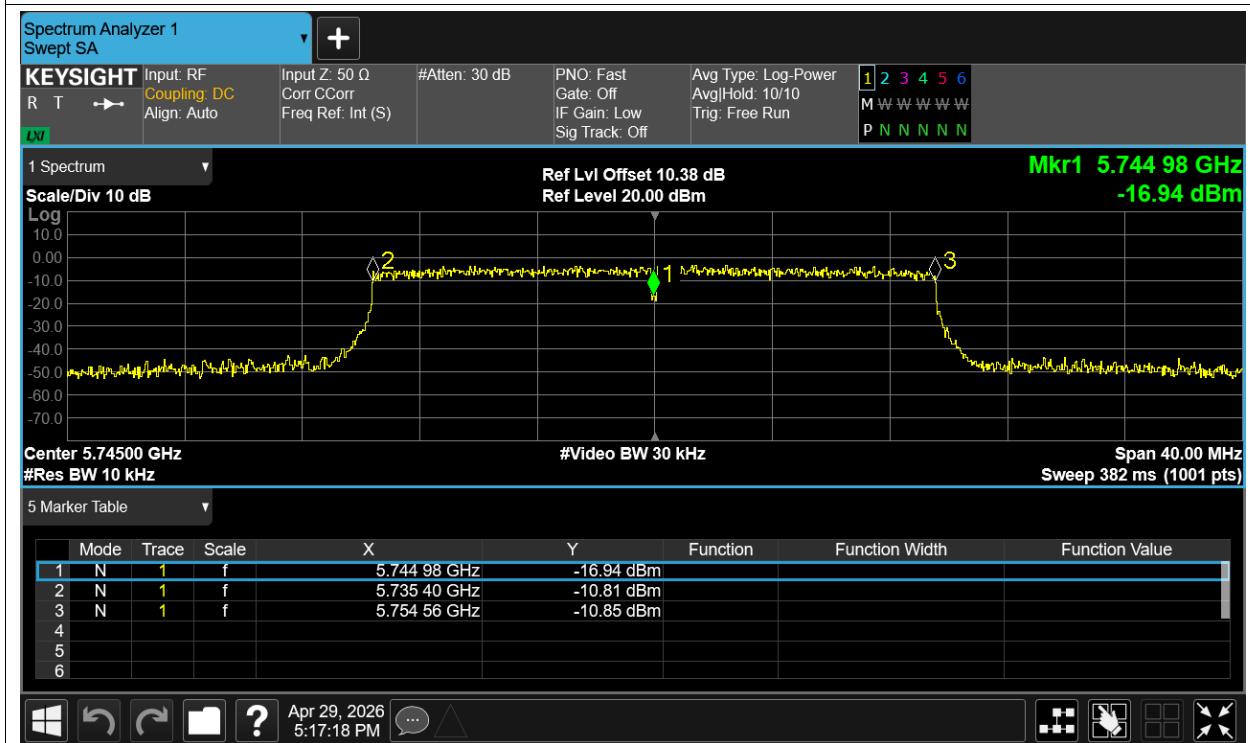
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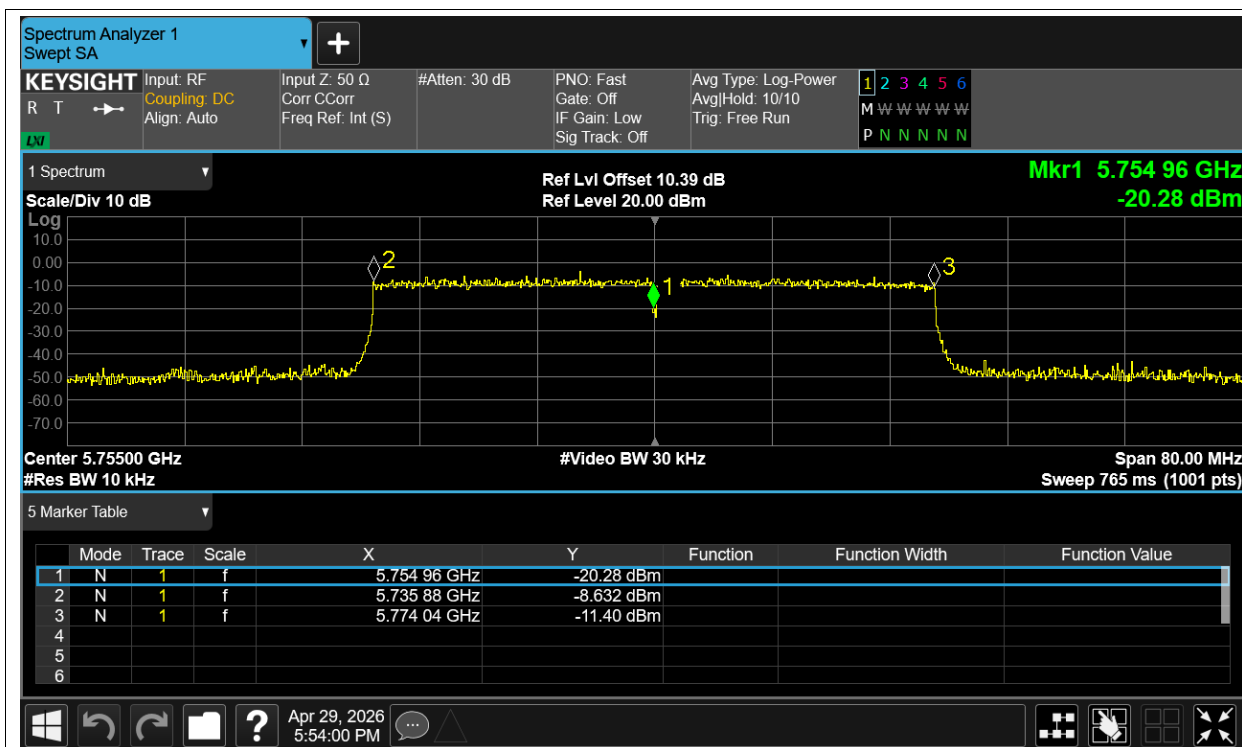
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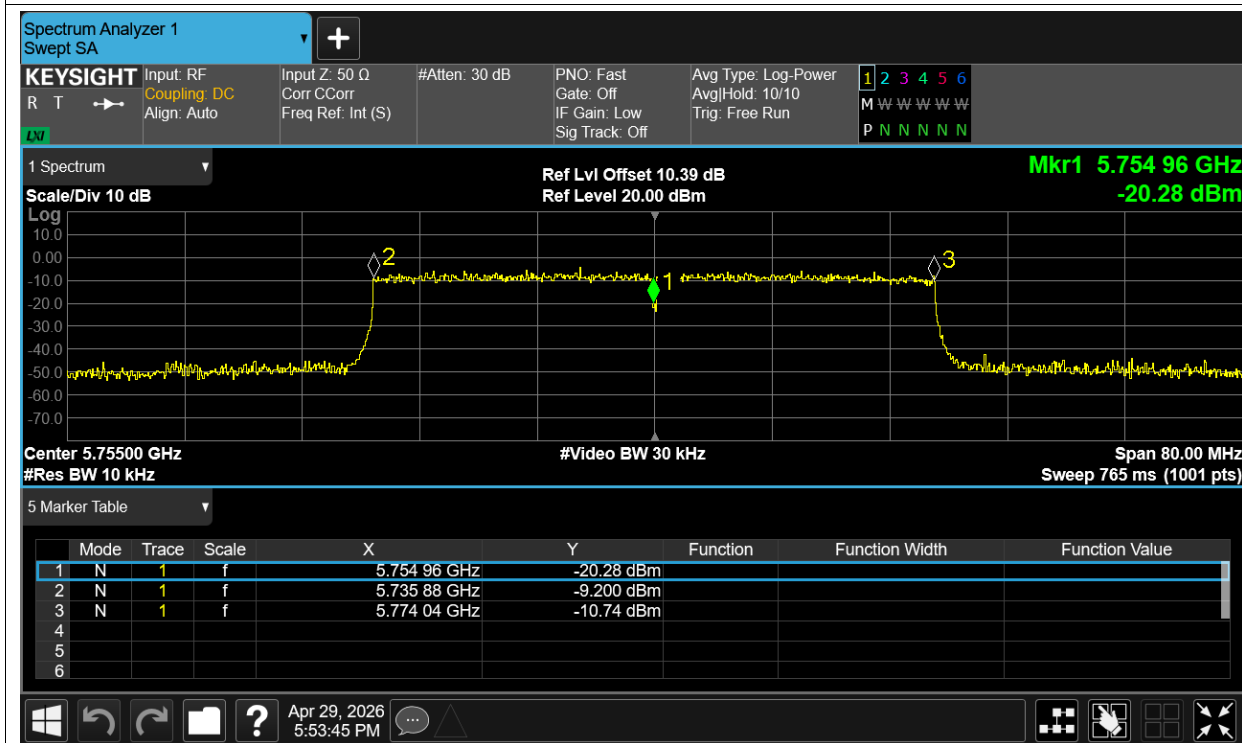
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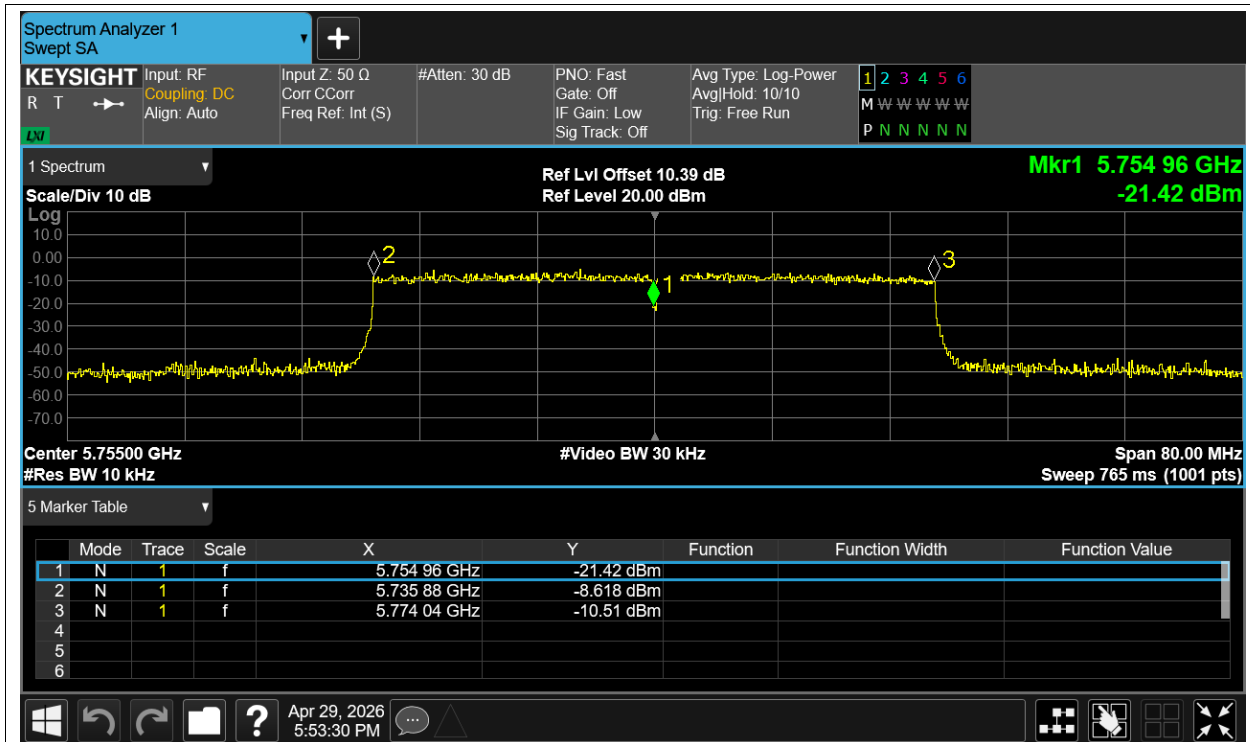
Freq. Stability HVNT ax40 5755MHz Sum



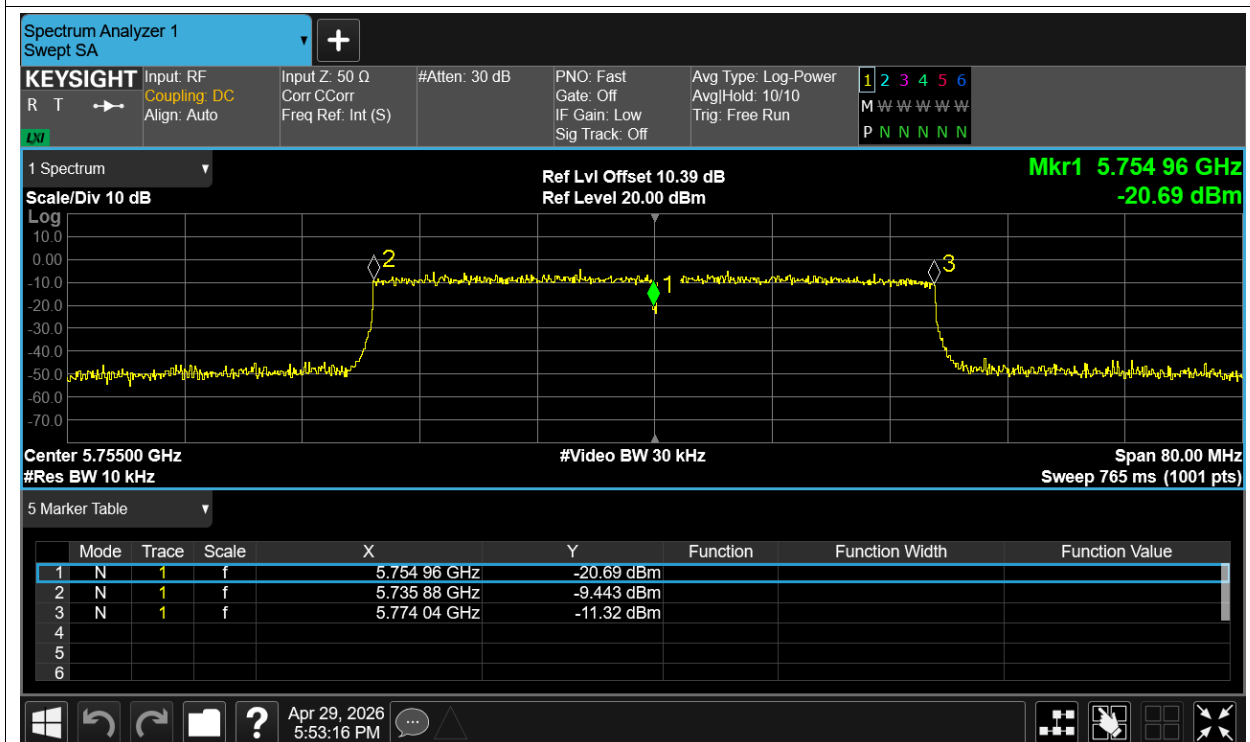
Freq. Stability LVNT ax40 5755MHz Sum



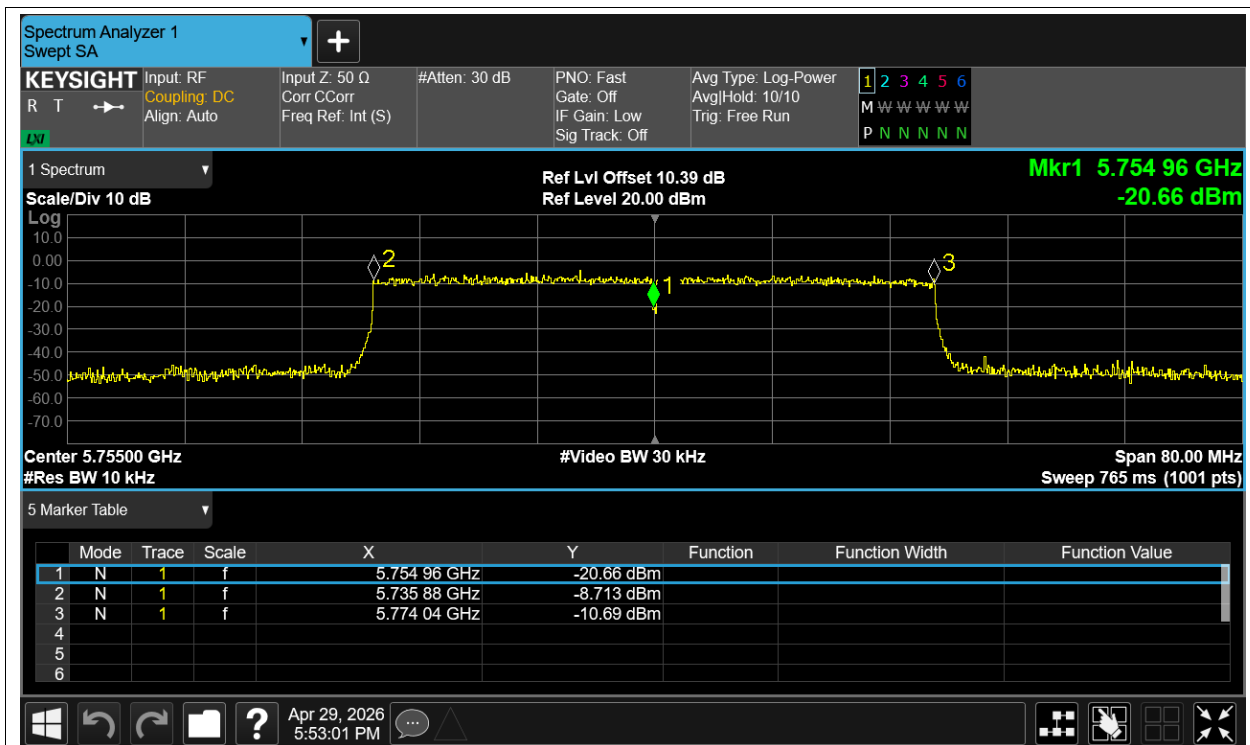
Freq. Stability NVHT ax40 5755MHz Sum



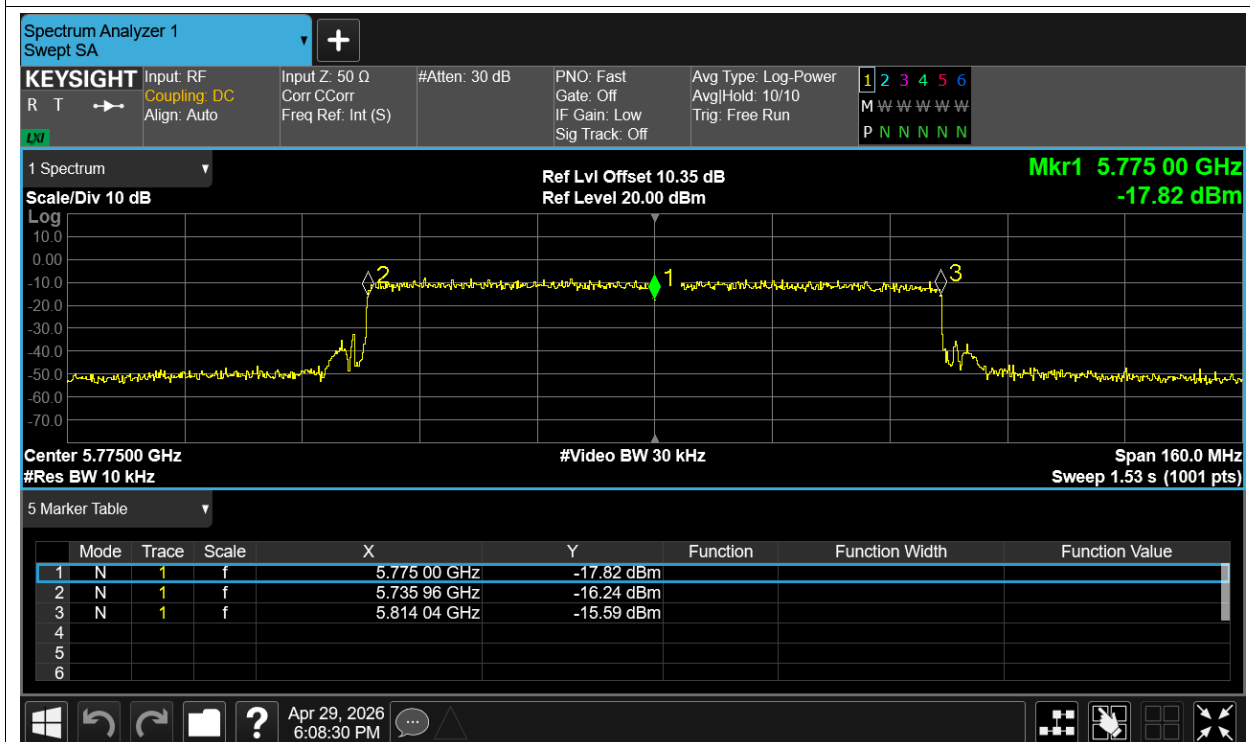
Freq. Stability NVLT ax40 5755MHz Sum



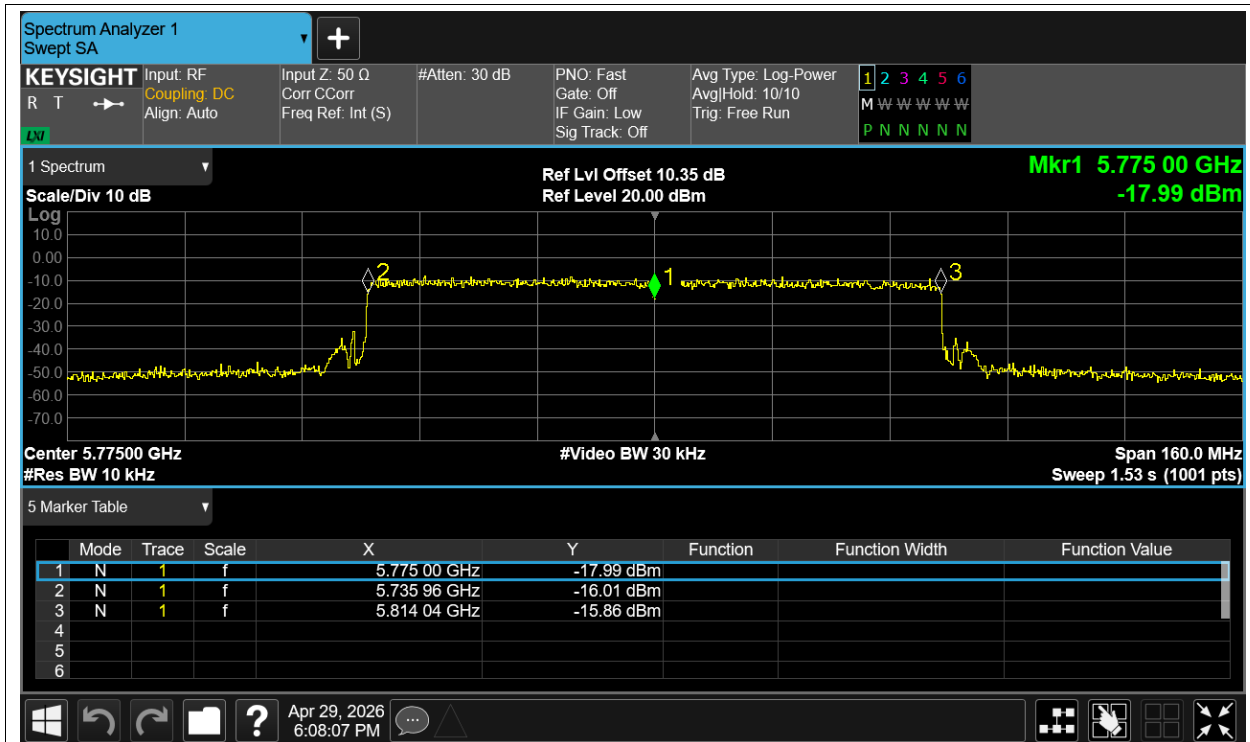
Freq. Stability NVNT ax40 5755MHz Sum



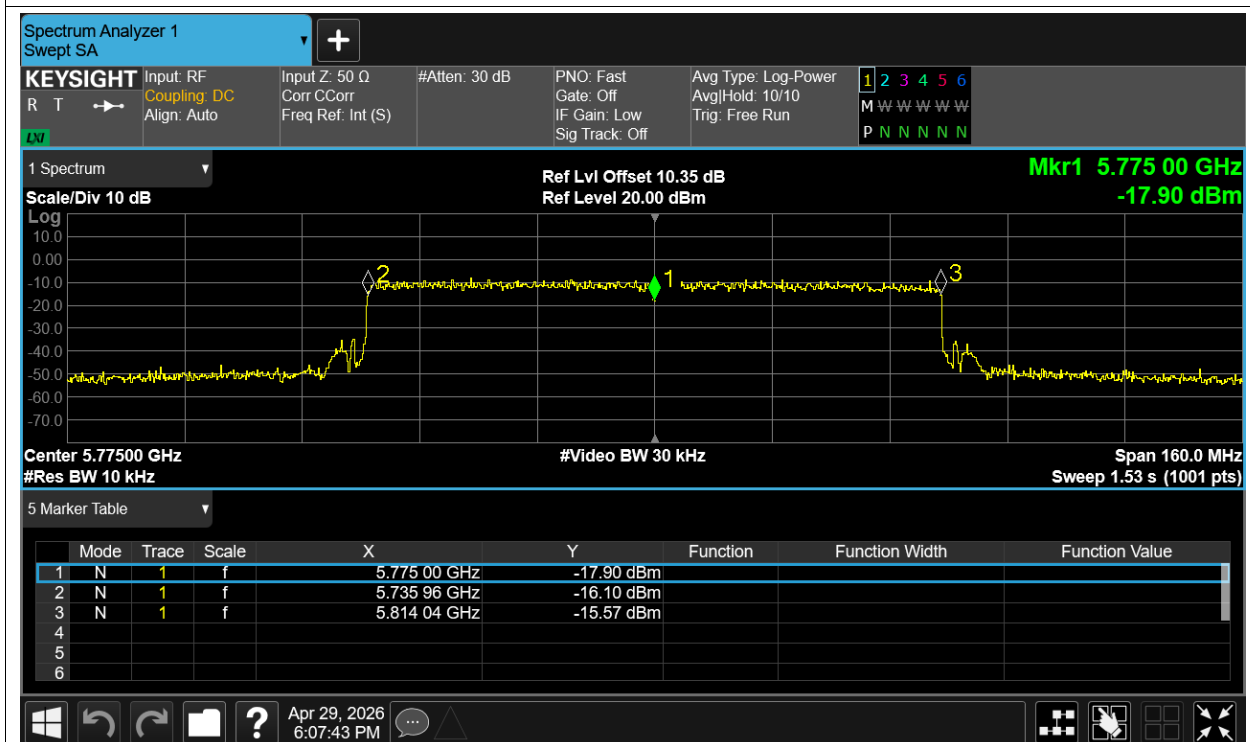
Freq. Stability HVNT ax80 5775MHz Sum



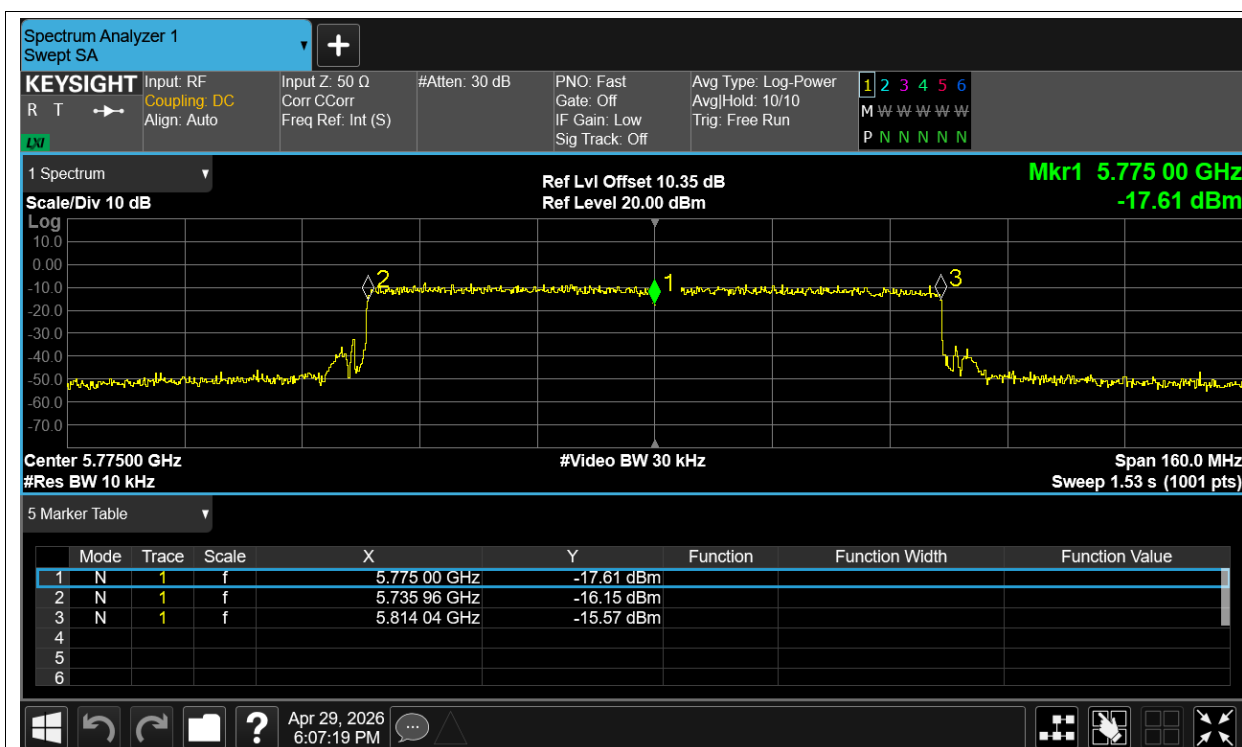
Freq. Stability LVNT ax80 5775MHz Sum



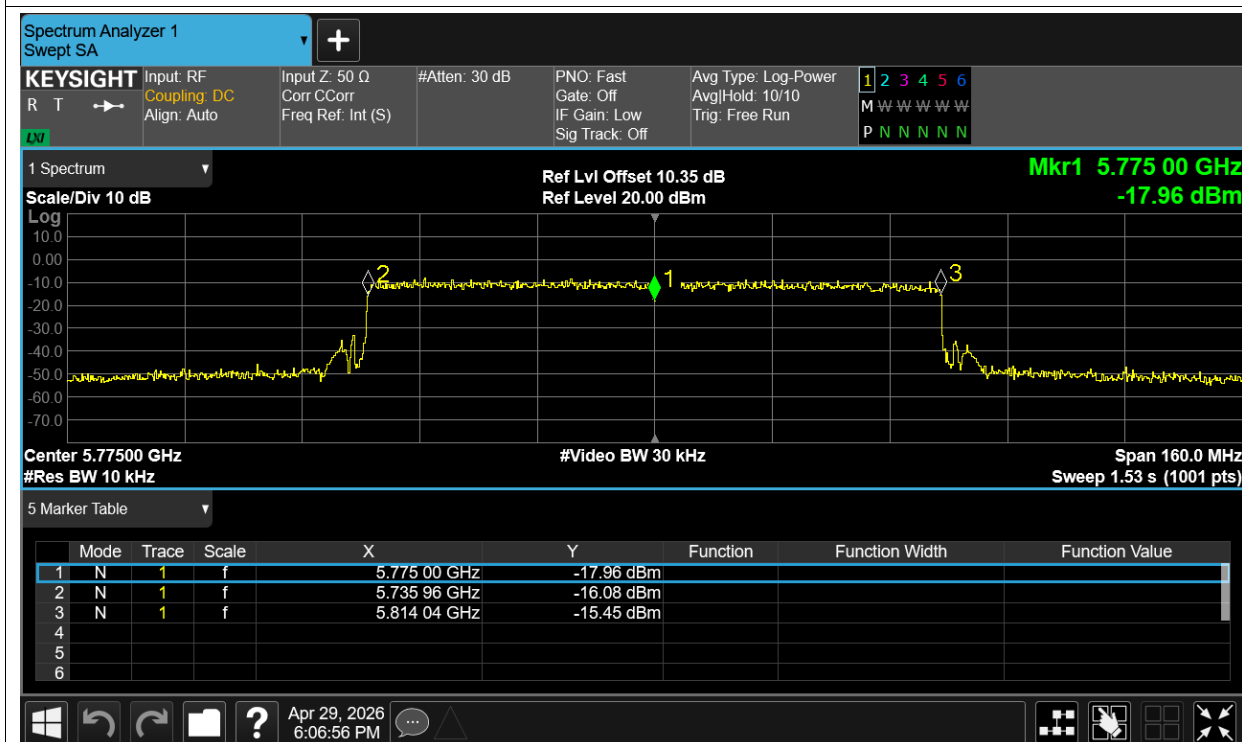
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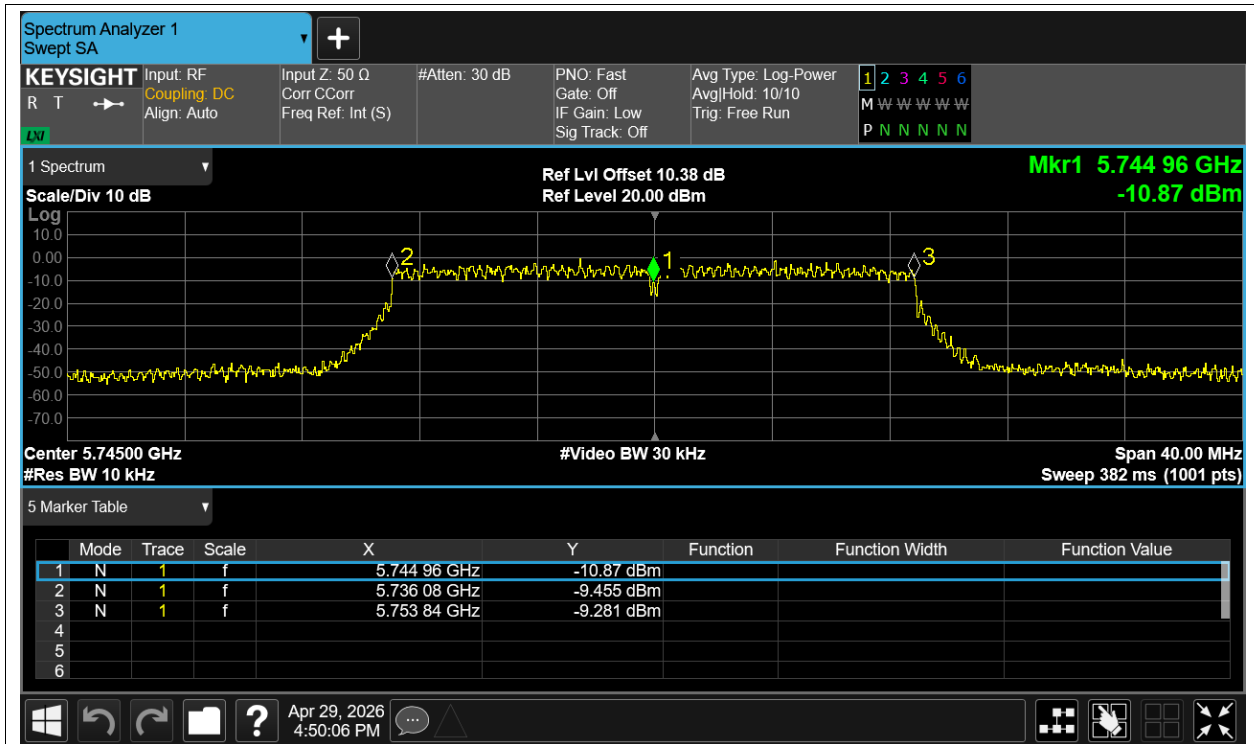
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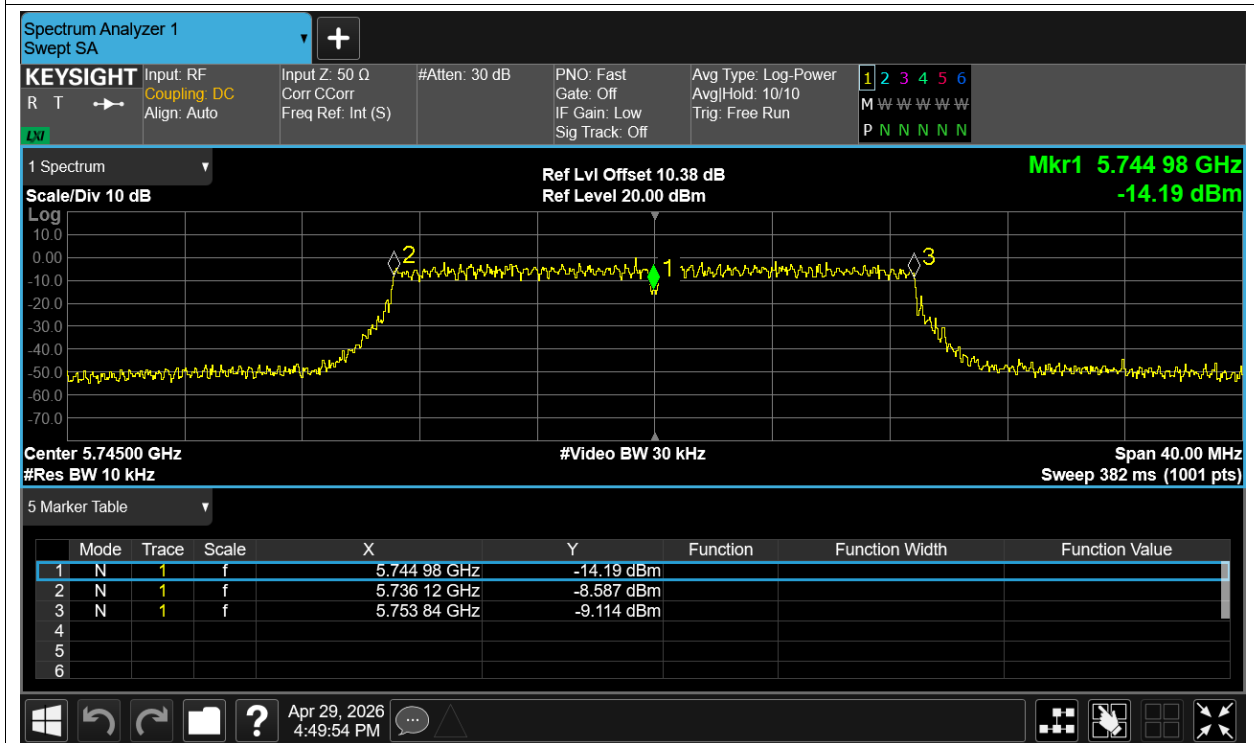
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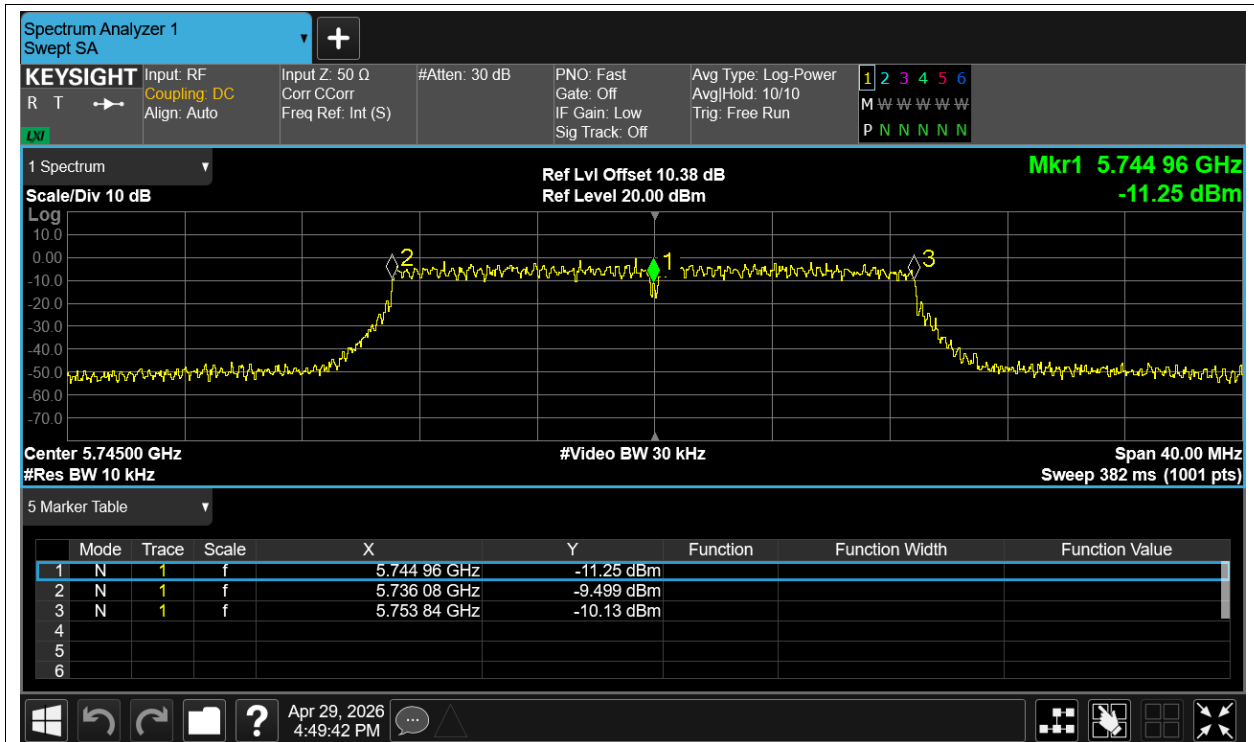
Freq. Stability HVNT n20 5745MHz Sum



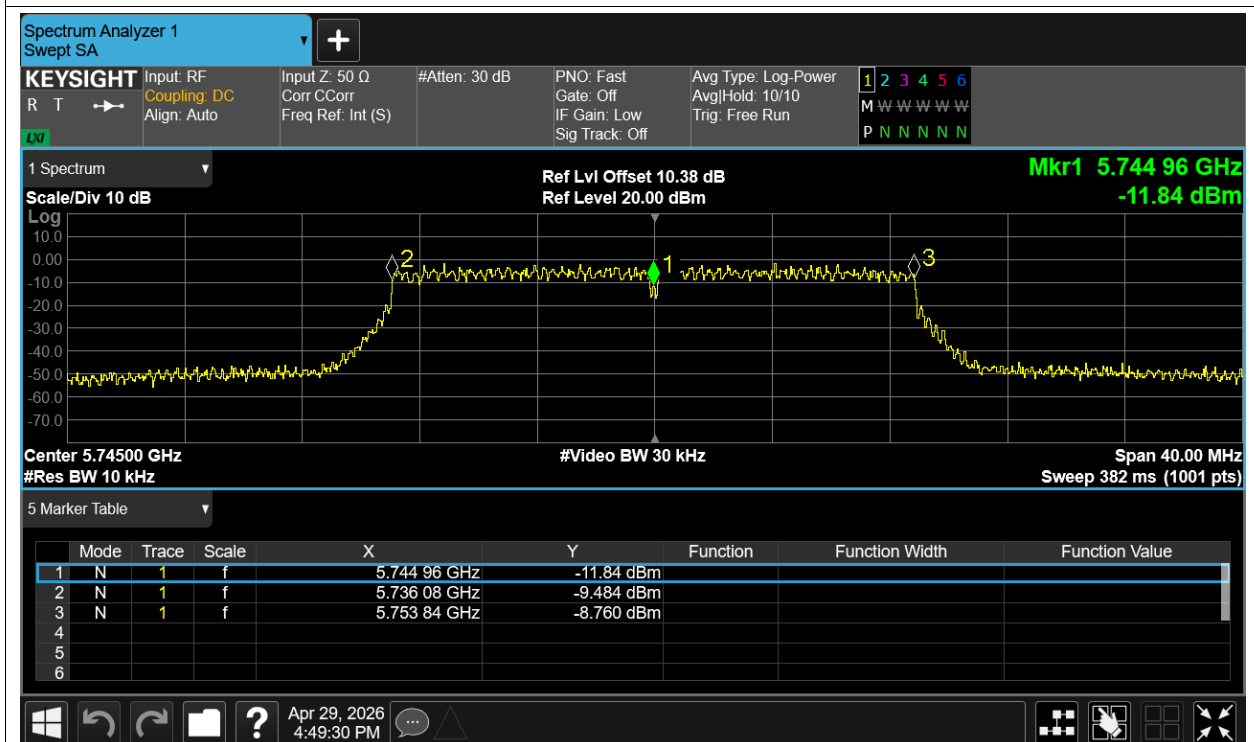
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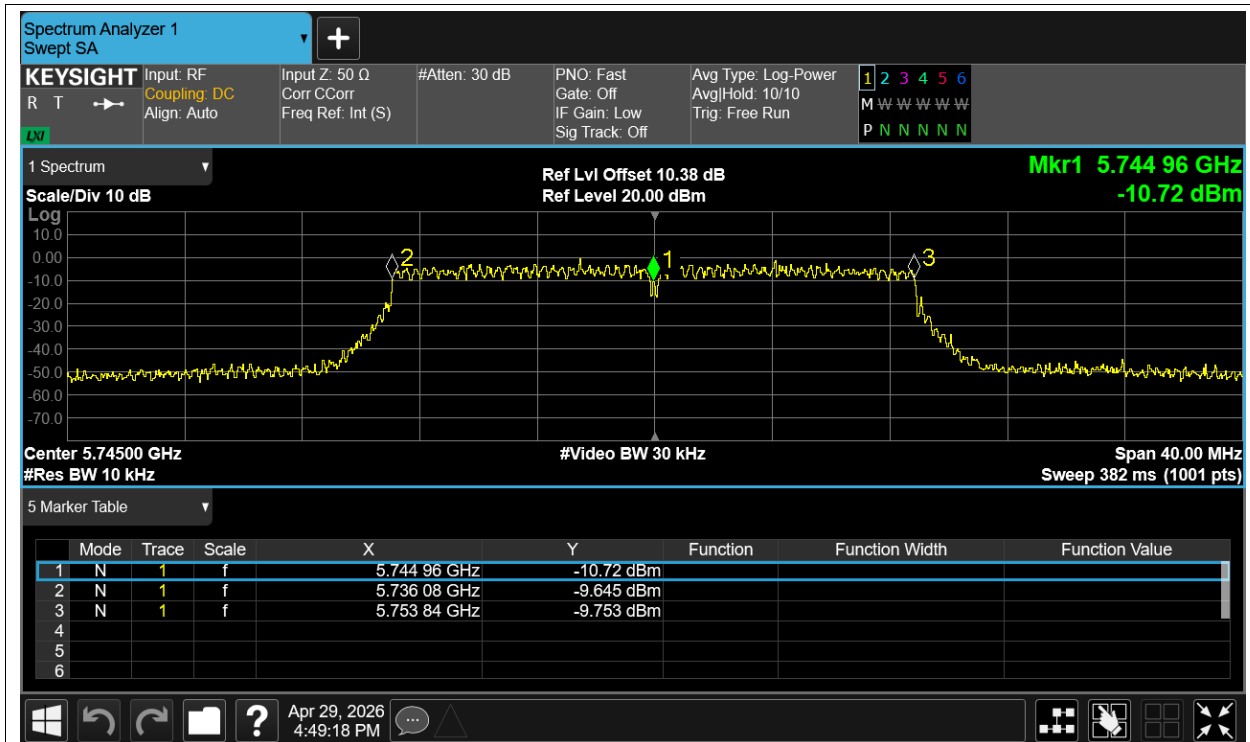
Freq. Stability NVHT n20 5745MHz Sum



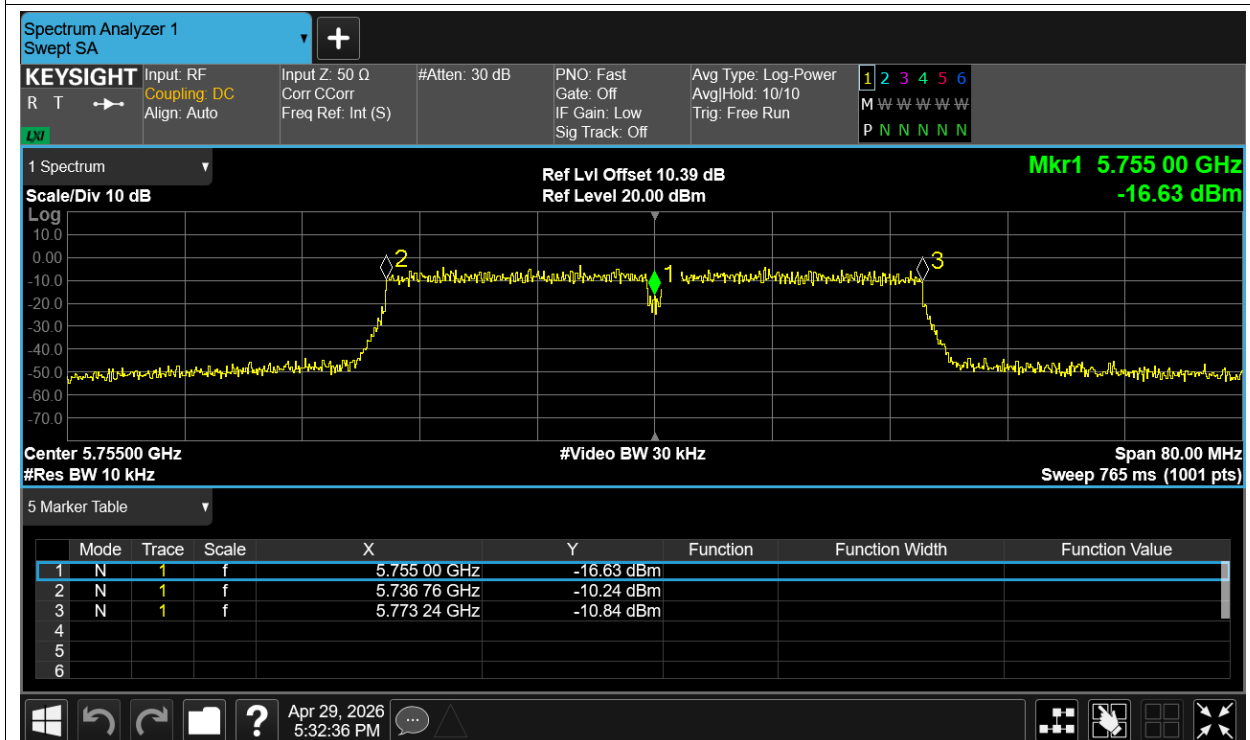
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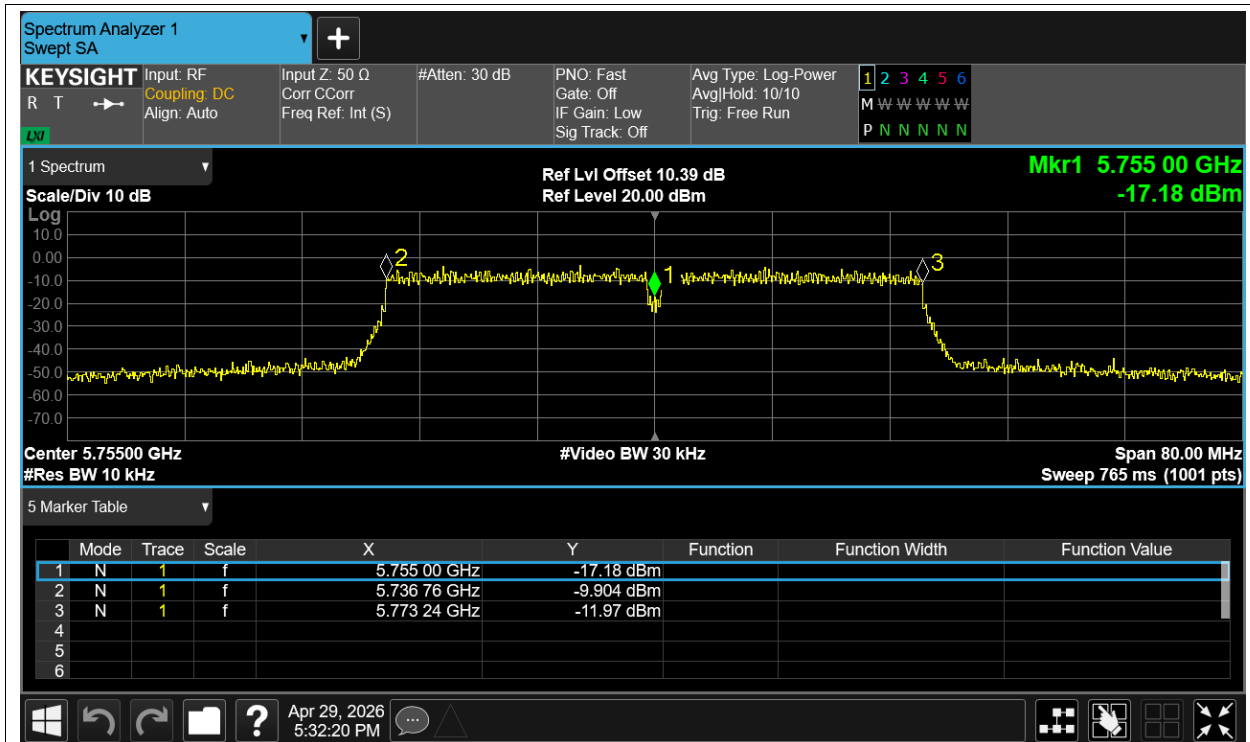
Freq. Stability NVNT n20 5745MHz Sum



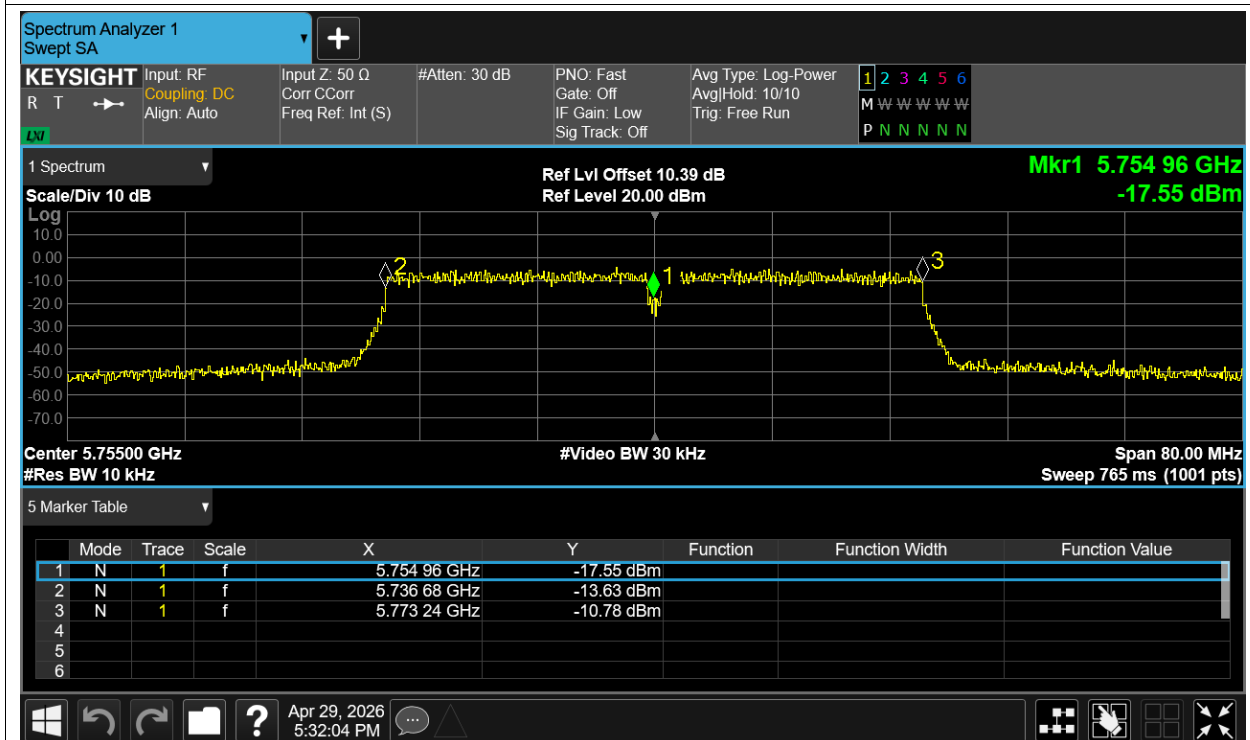
Freq. Stability HVNT n40 5755MHz Sum



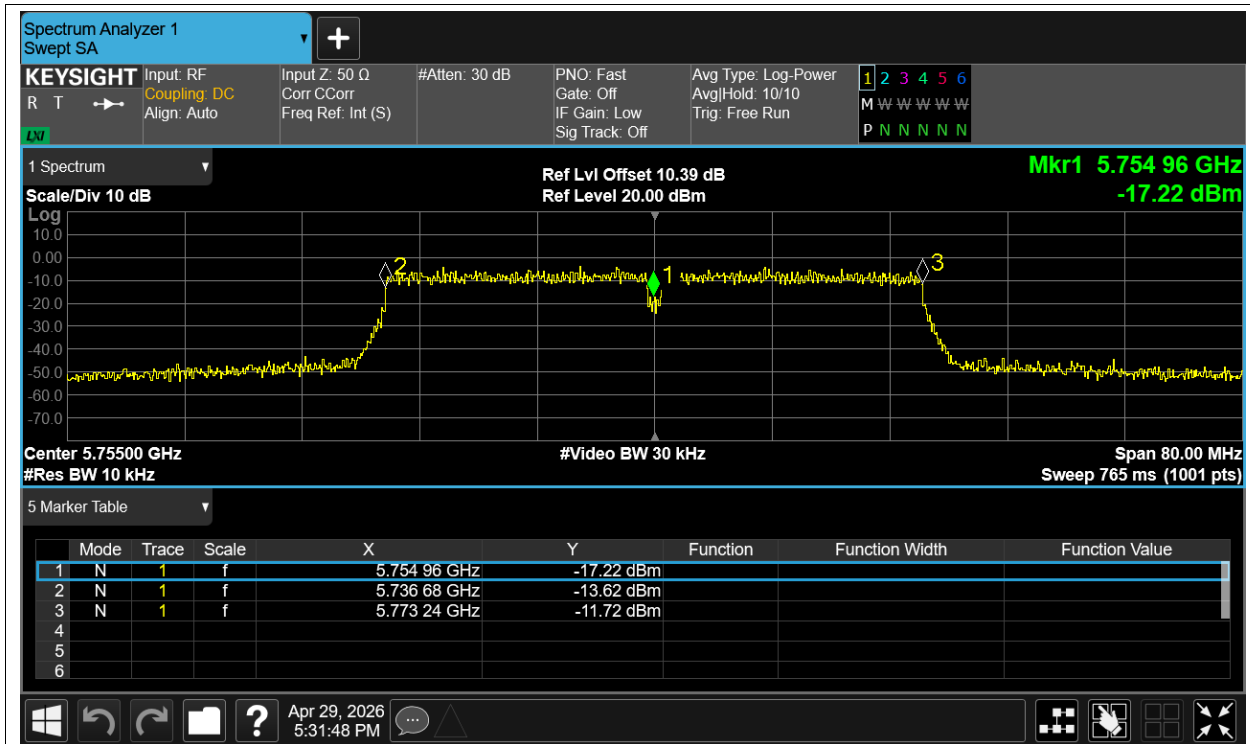
Freq. Stability LVNT n40 5755MHz Sum



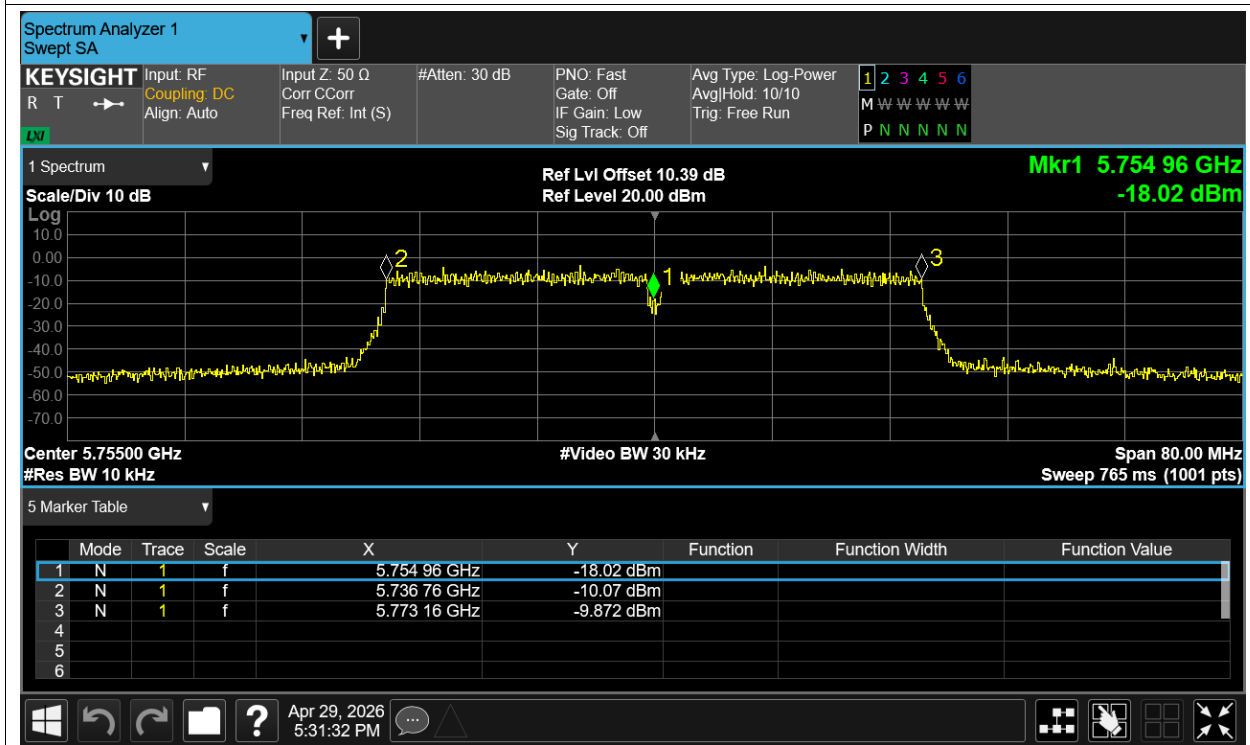
Freq. Stability NVHT n40 5755MHz Sum



Freq. Stability NVLT n40 5755MHz Sum



Freq. Stability NVNT n40 5755MHz Sum

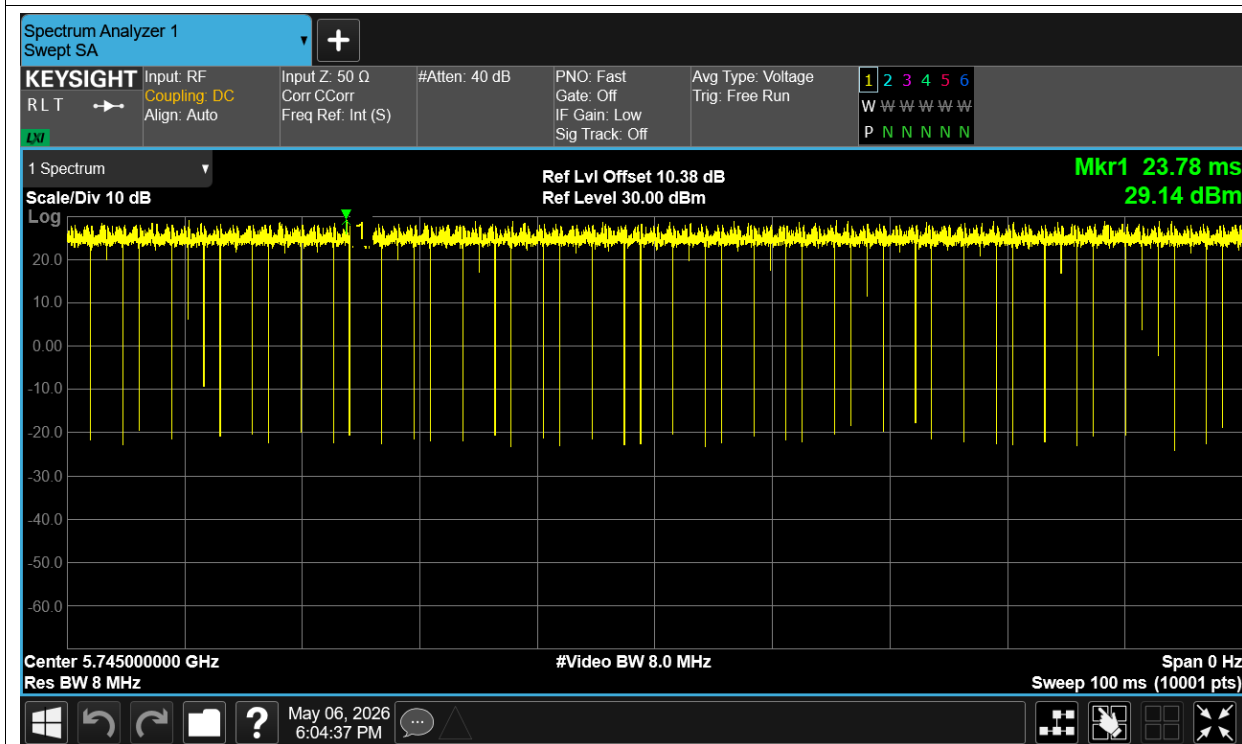


Duty Cycle

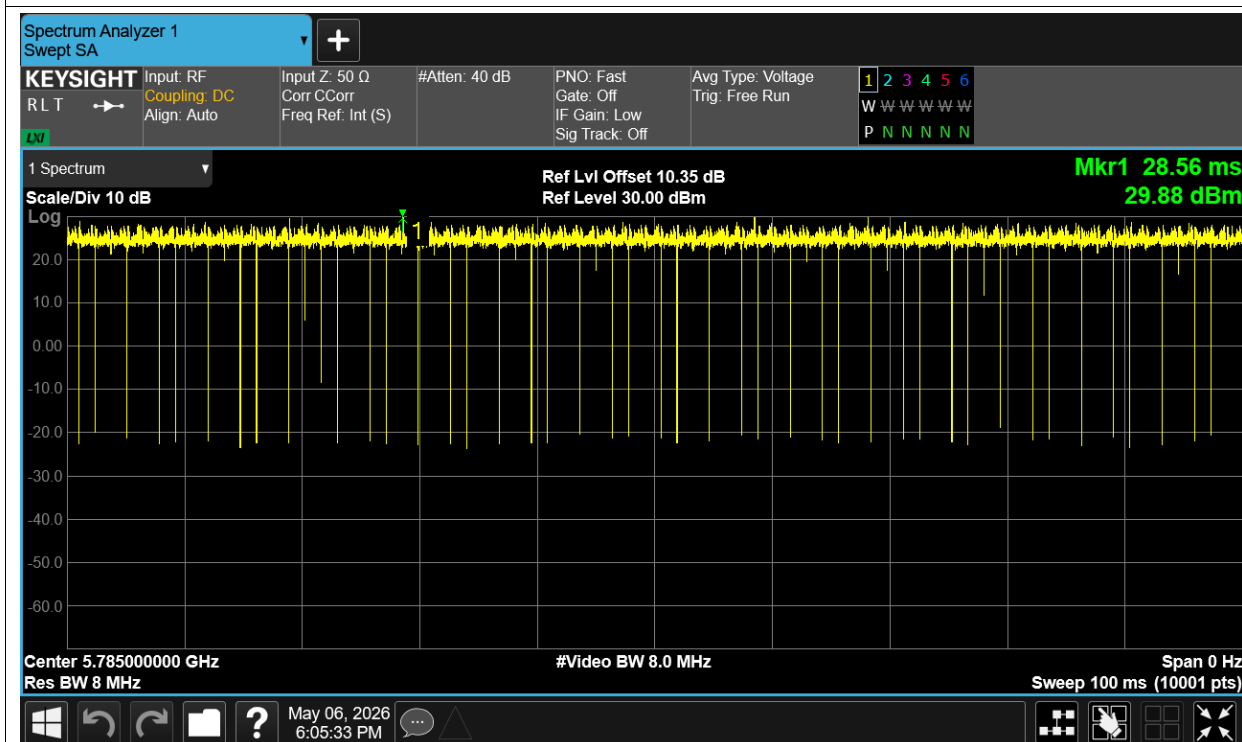
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	99.58	0.02
NVNT	a	5785	Ant1	99.57	0.02
NVNT	a	5825	Ant1	99.57	0.02
NVNT	a	5745	Ant2	99.56	0.02
NVNT	a	5785	Ant2	99.57	0.02
NVNT	a	5825	Ant2	99.58	0.02
NVNT	ac20	5745	Sum	99.56	0.02
NVNT	ac20	5785	Sum	99.61	0.02
NVNT	ac20	5825	Sum	99.55	0.02
NVNT	ac40	5755	Sum	99.08	0.04
NVNT	ac40	5795	Sum	99.11	0.04
NVNT	ac80	5775	Sum	98.2	0.08
NVNT	ax20	5745	Sum	99.51	0.02
NVNT	ax20	5785	Sum	99.51	0.02
NVNT	ax20	5825	Sum	99.51	0.02
NVNT	ax40	5755	Sum	99.06	0.04
NVNT	ax40	5795	Sum	99.06	0.04
NVNT	ax80	5775	Sum	98.32	0.07
NVNT	n20	5745	Sum	99.55	0.02
NVNT	n20	5785	Sum	99.54	0.02
NVNT	n20	5825	Sum	99.54	0.02
NVNT	n40	5755	Sum	99.08	0.04
NVNT	n40	5795	Sum	99.1	0.04

Test Graphs

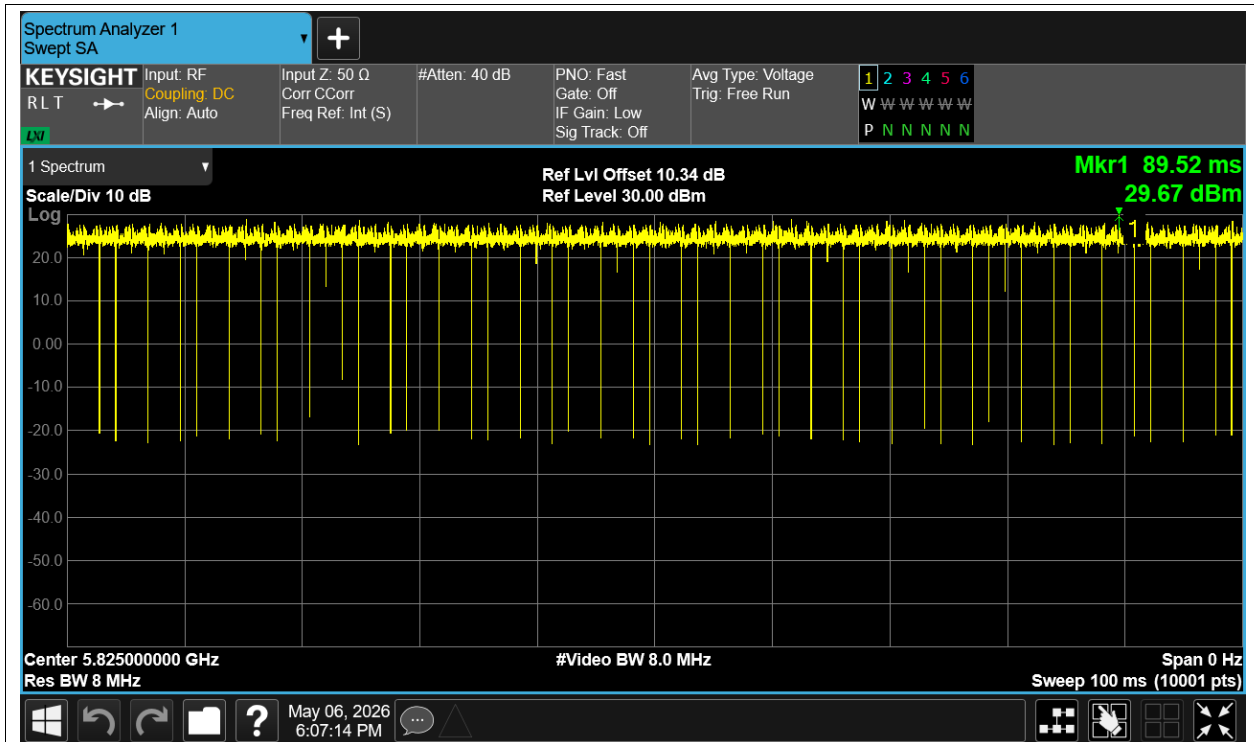
Duty Cycle NVNT a 5745MHz Ant1



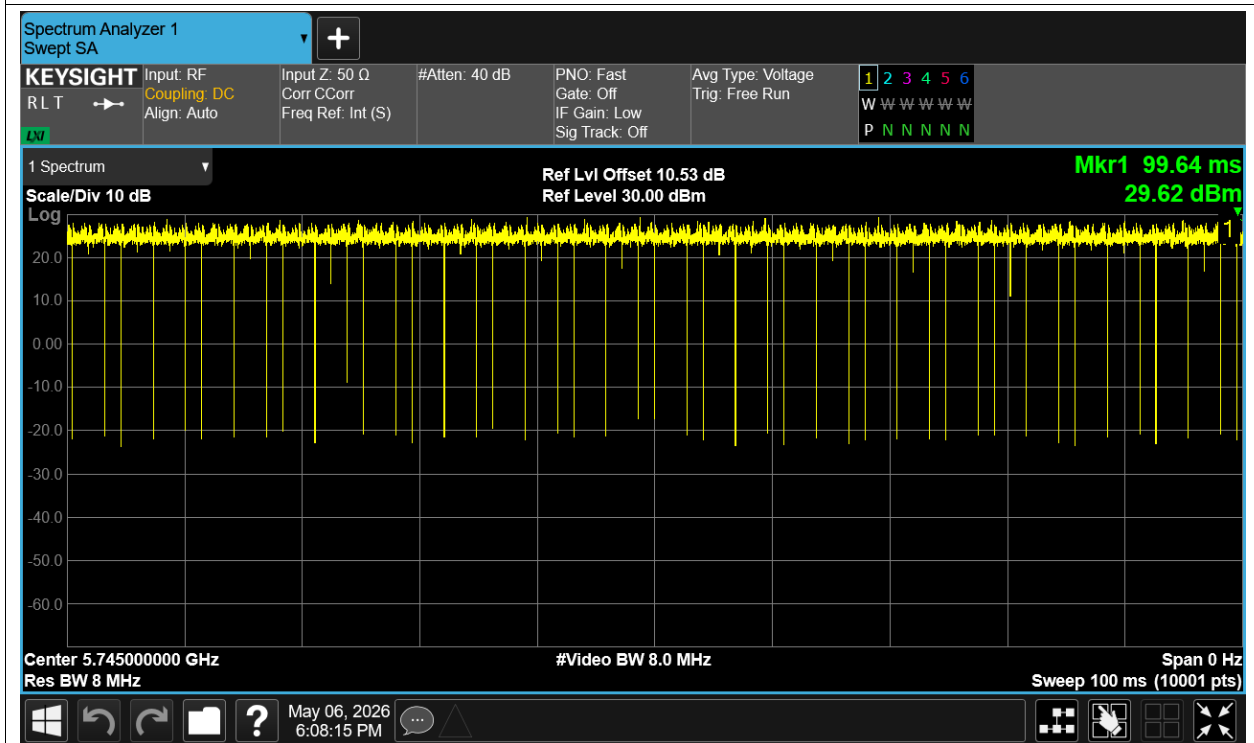
Duty Cycle NVNT a 5785MHz Ant1



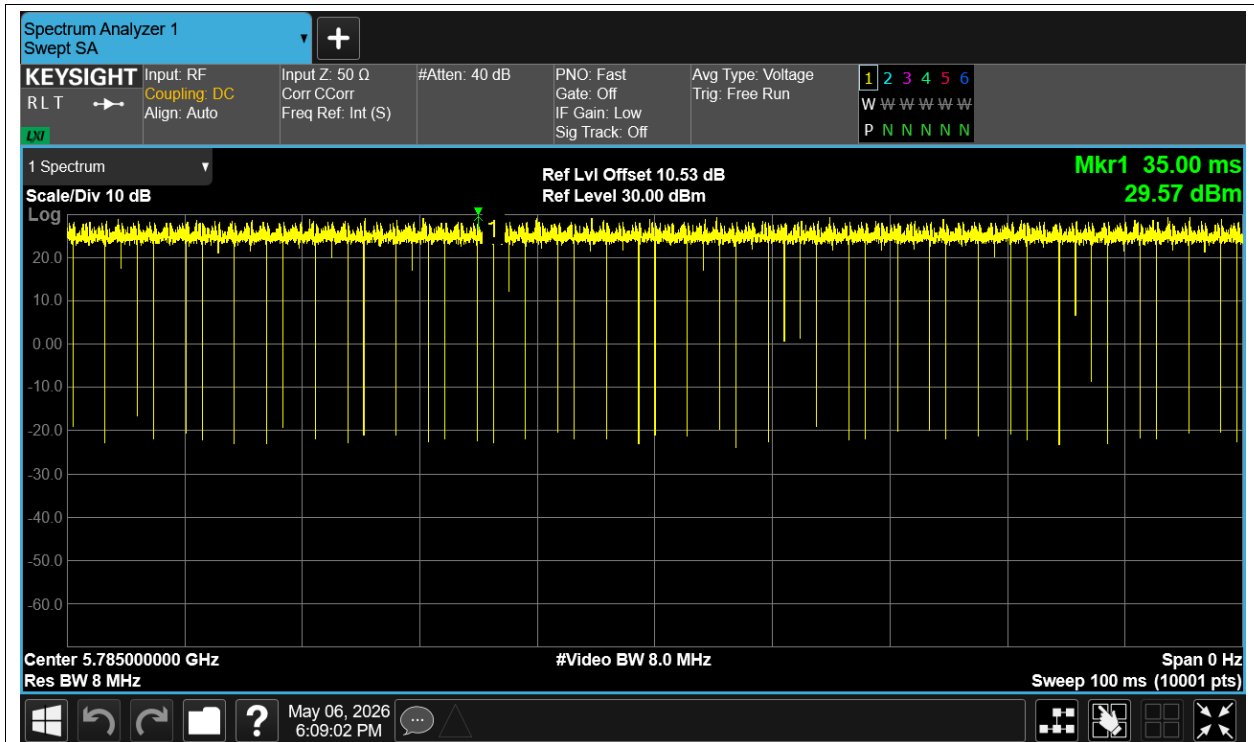
Duty Cycle NVNT a 5825MHz Ant1



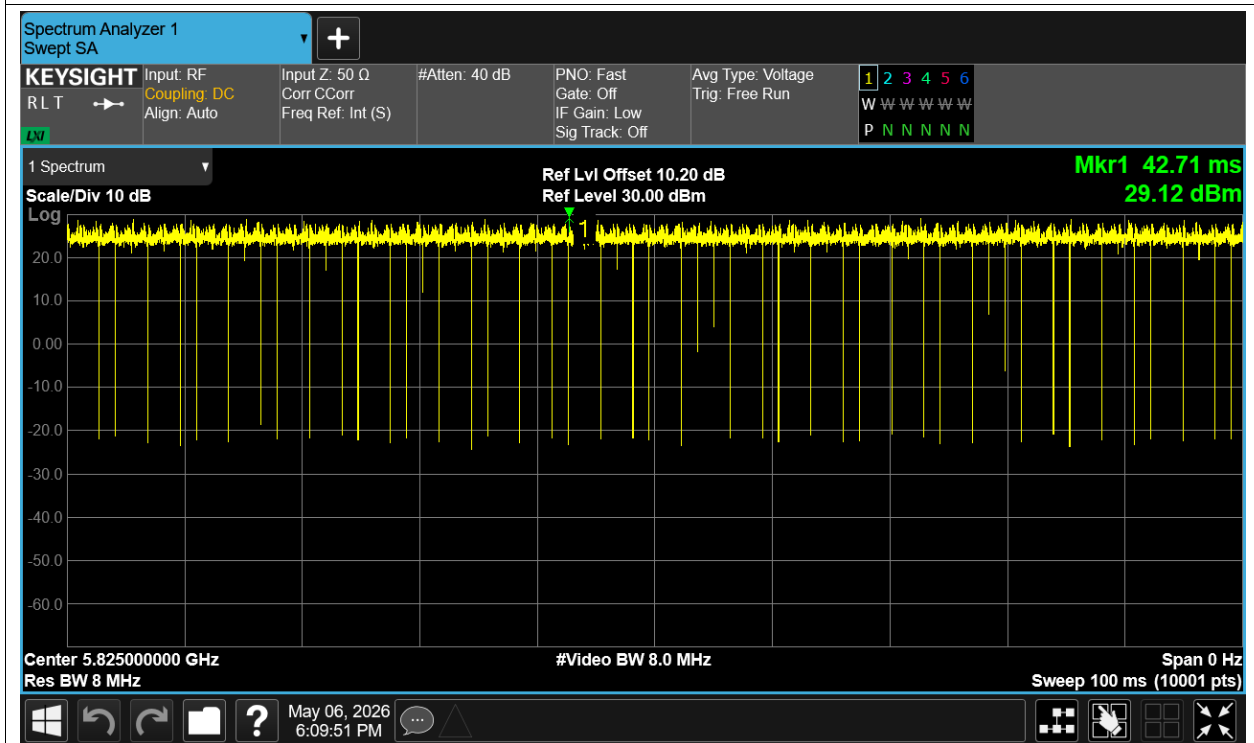
Duty Cycle NVNT a 5745MHz Ant2



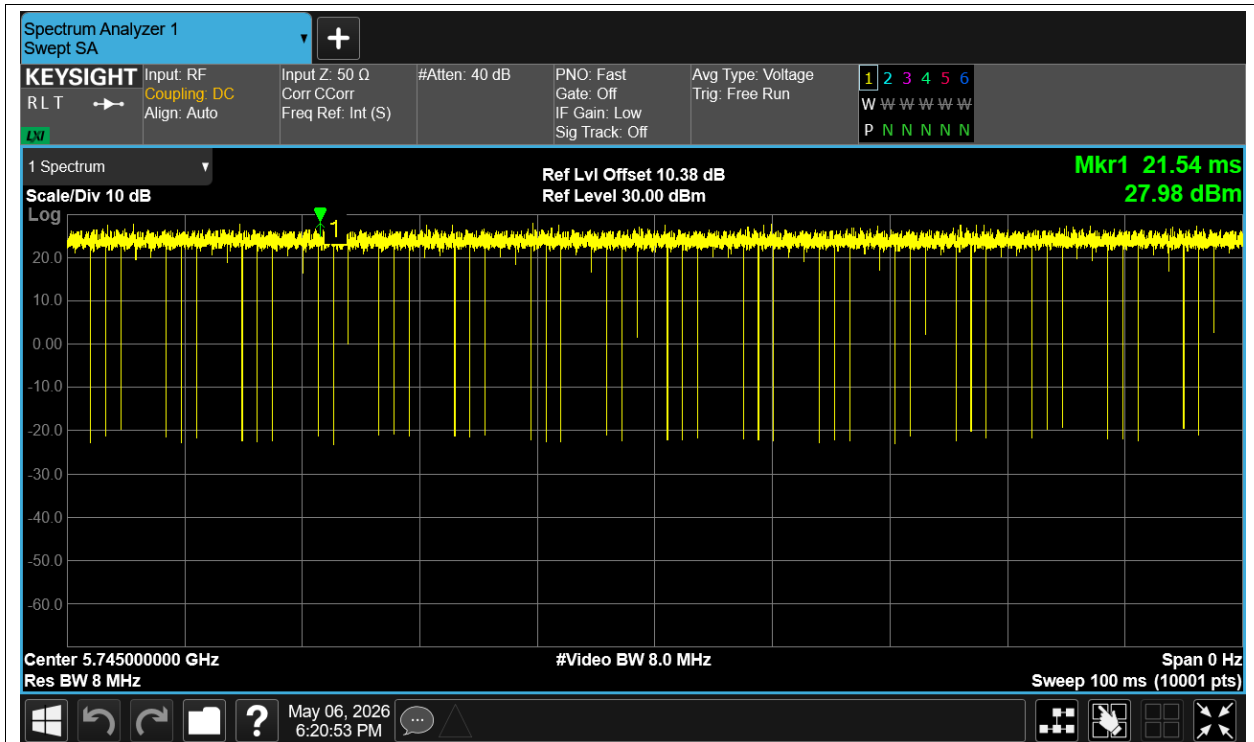
Duty Cycle NVNT a 5785MHz Ant2



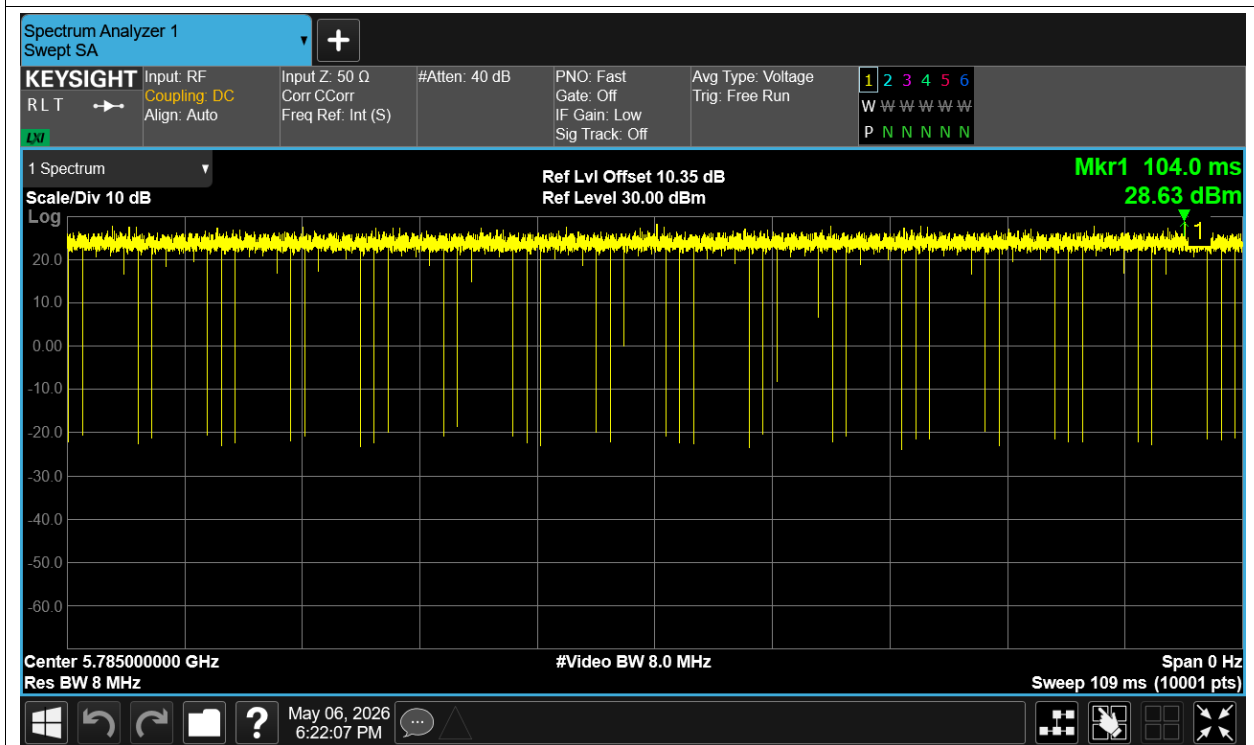
Duty Cycle NVNT a 5825MHz Ant2



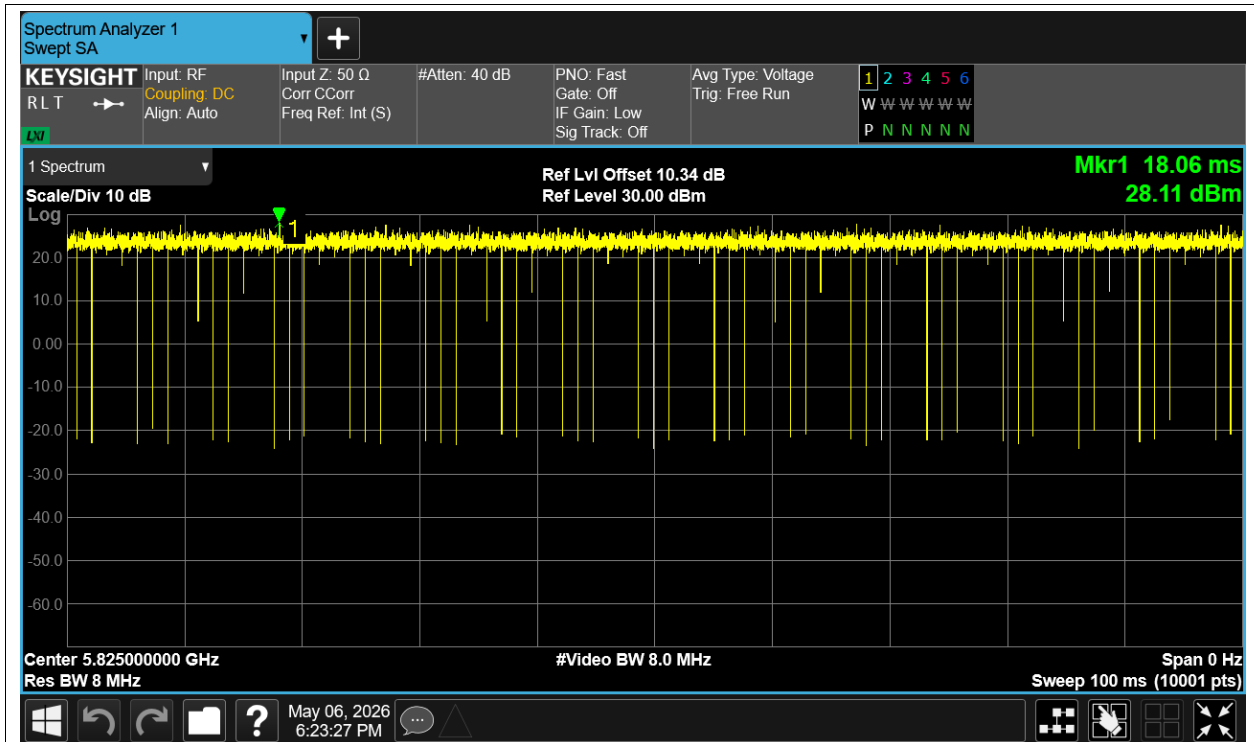
Duty Cycle NVNT ac20 5745MHz Sum



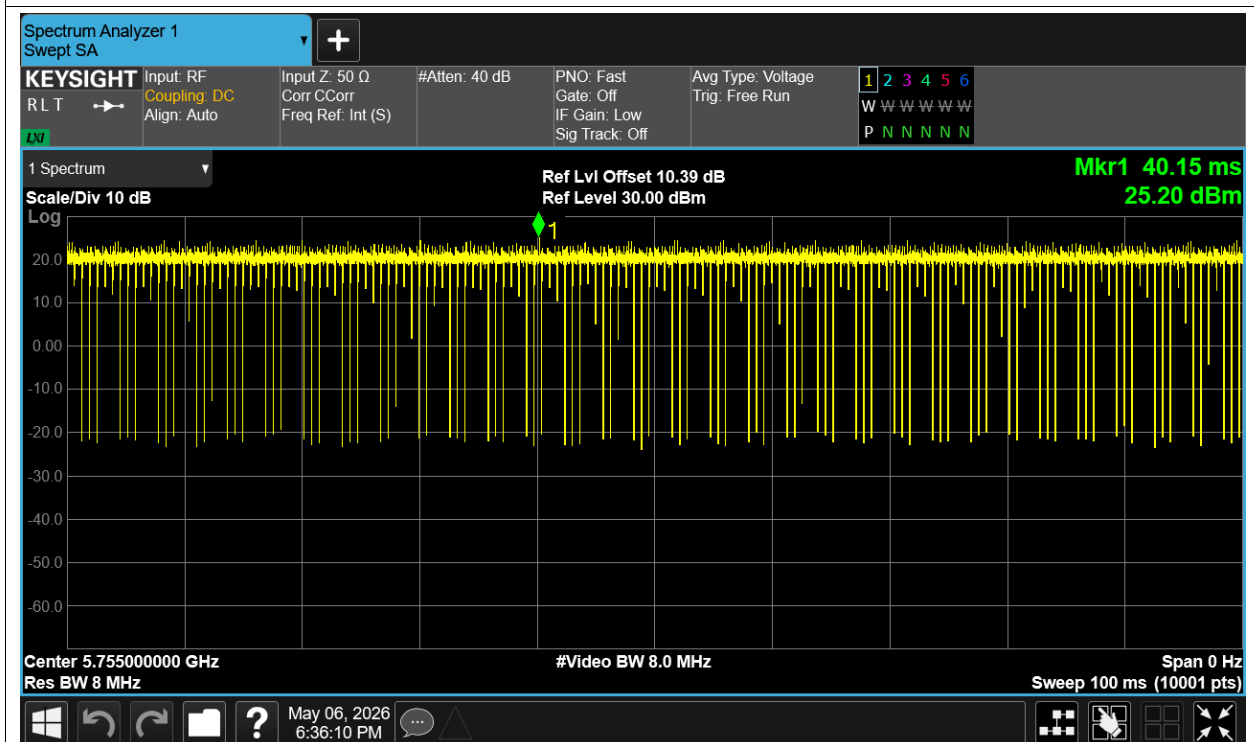
Duty Cycle NVNT ac20 5785MHz Sum



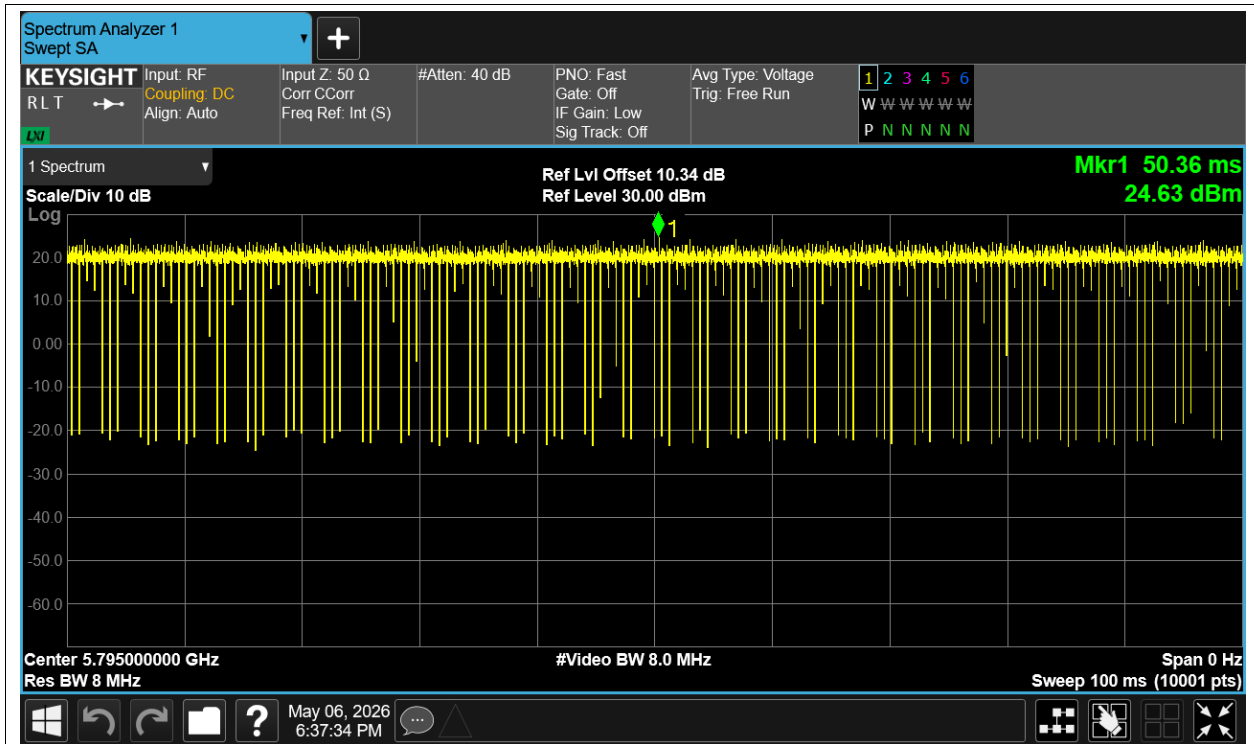
Duty Cycle NVNT ac20 5825MHz Sum



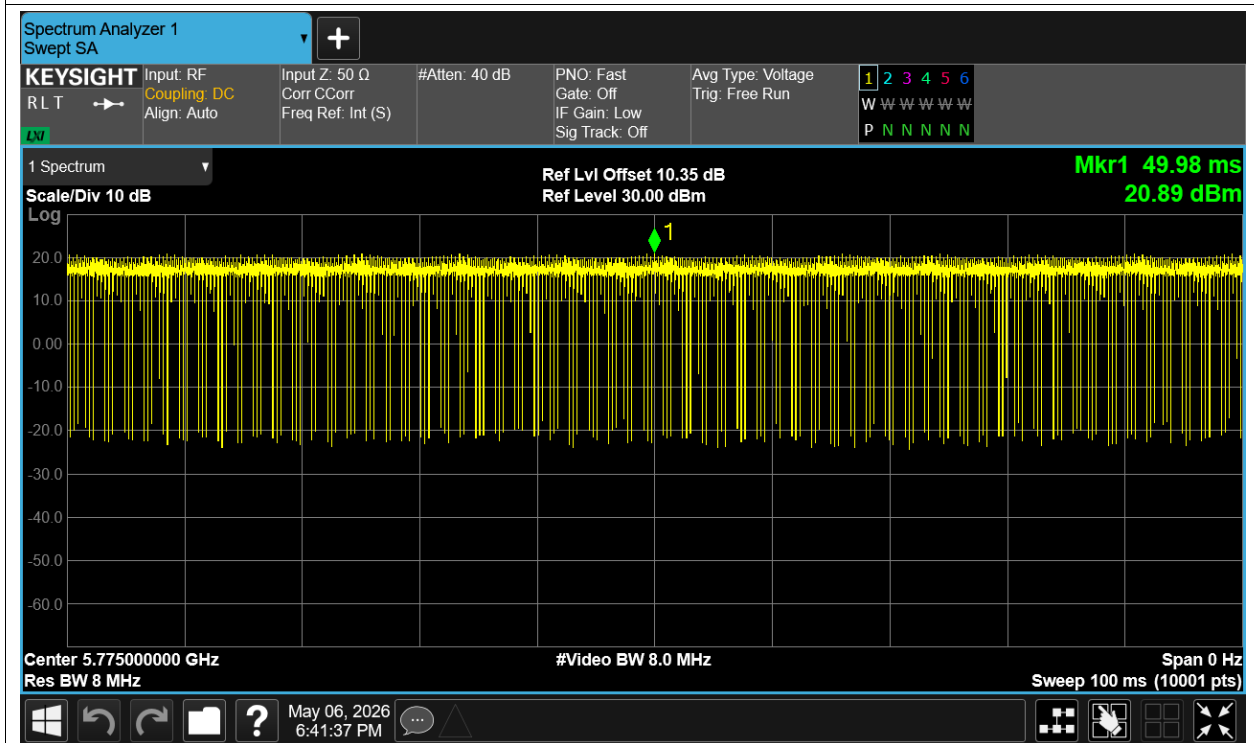
Duty Cycle NVNT ac40 5755MHz Sum



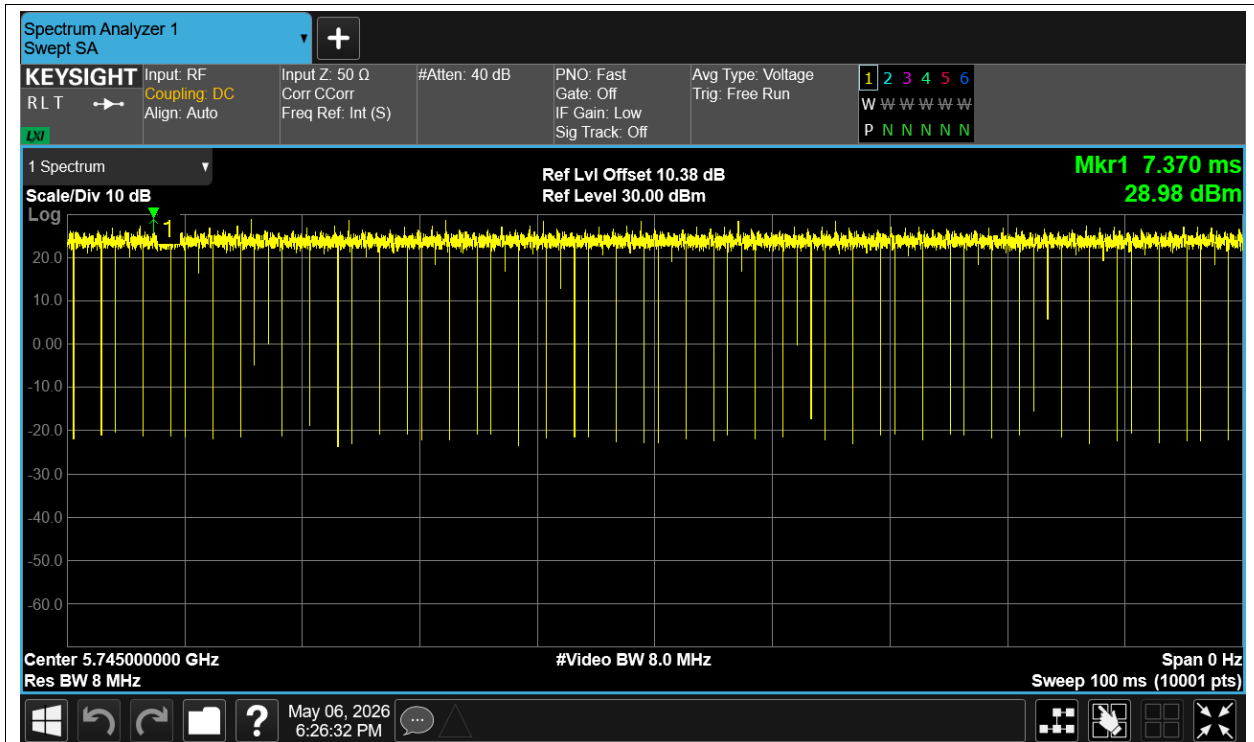
Duty Cycle NVNT ac40 5795MHz Sum



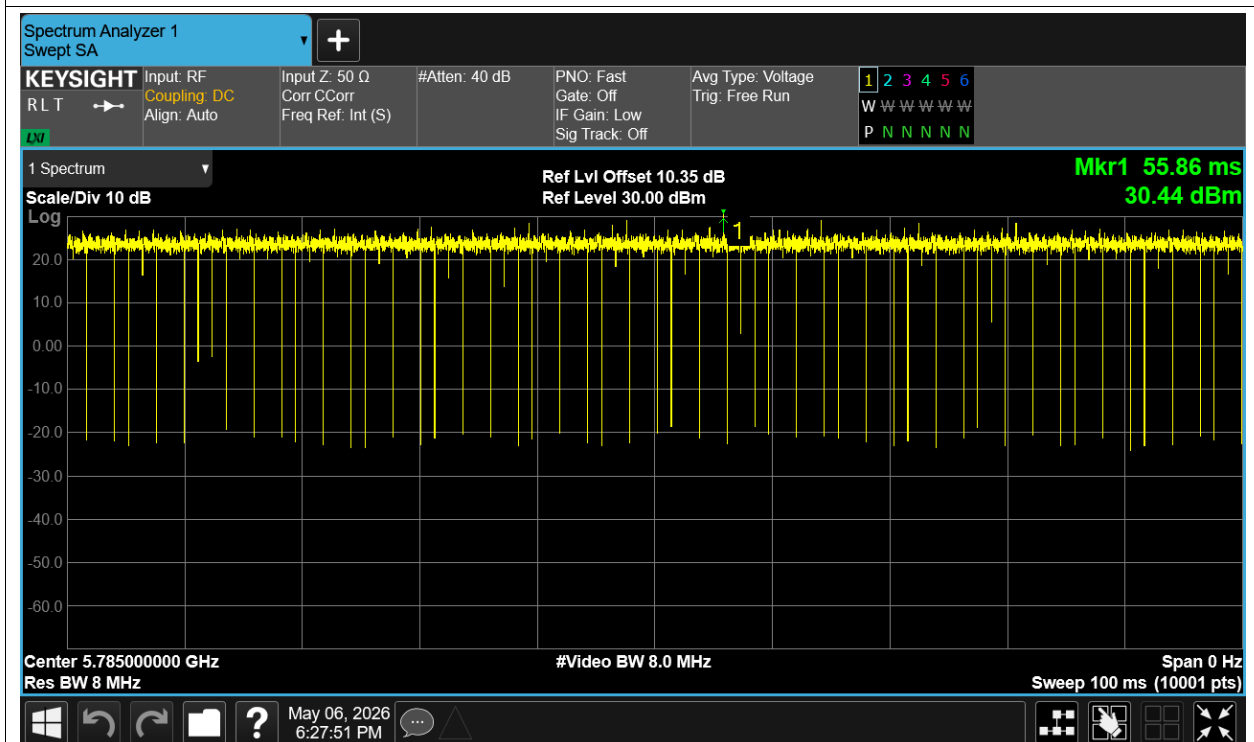
Duty Cycle NVNT ac80 5775MHz Sum



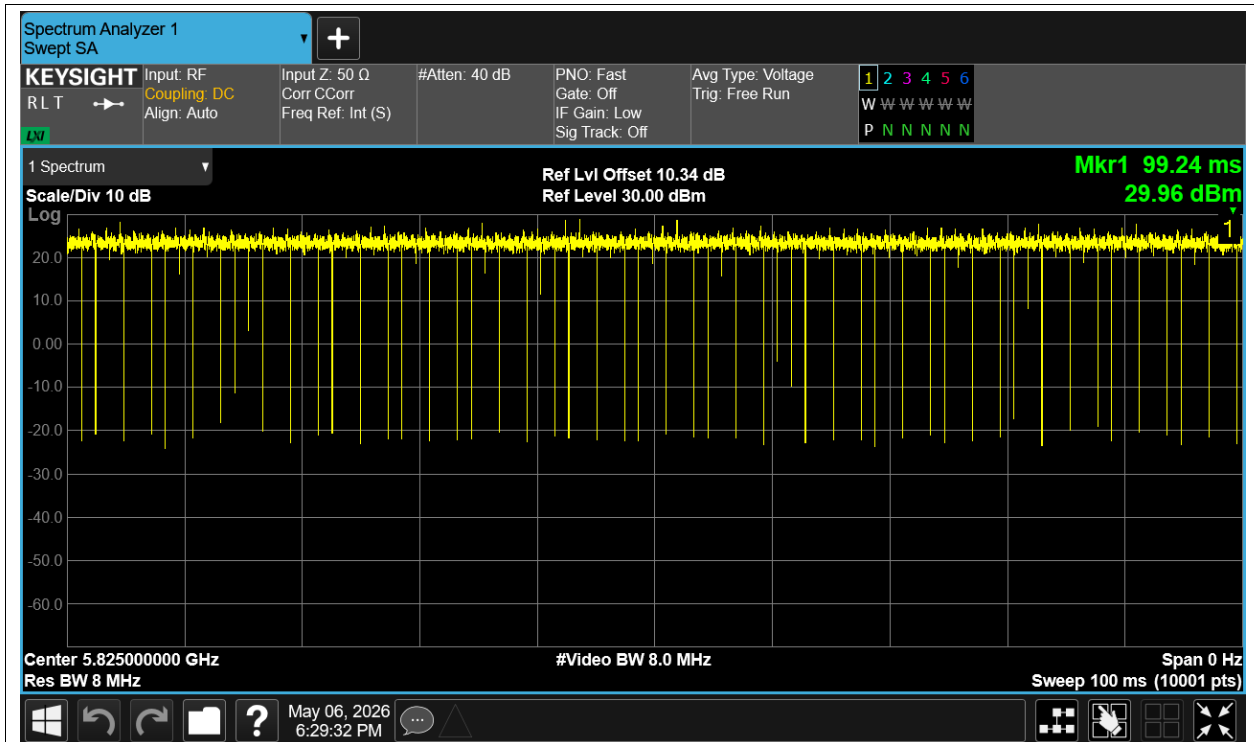
Duty Cycle NVNT ax20 5745MHz Sum



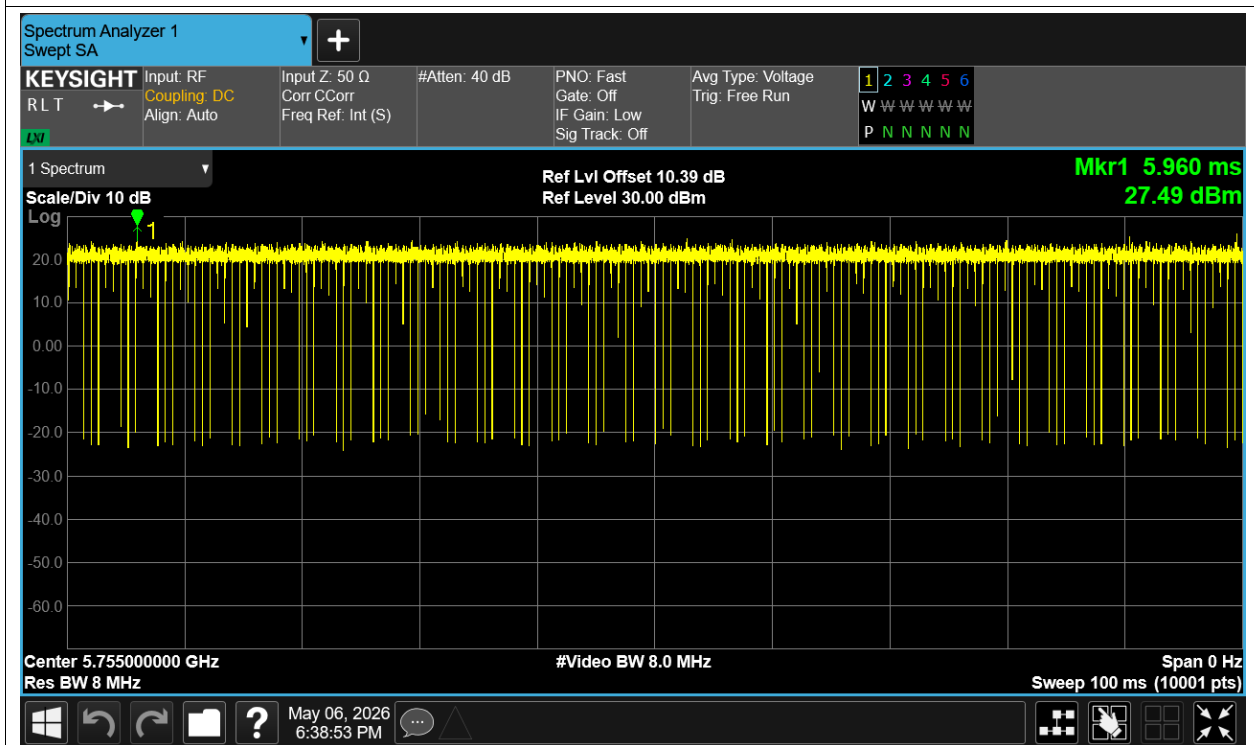
Duty Cycle NVNT ax20 5785MHz Sum



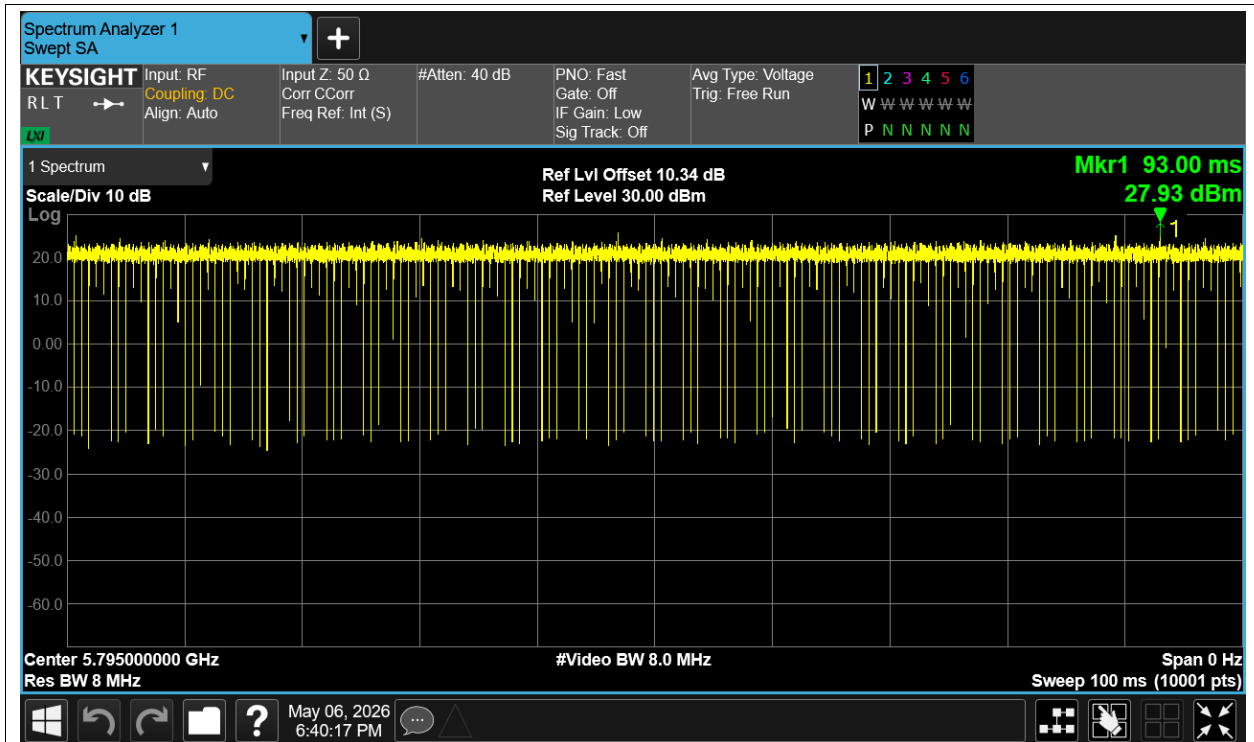
Duty Cycle NVNT ax20 5825MHz Sum



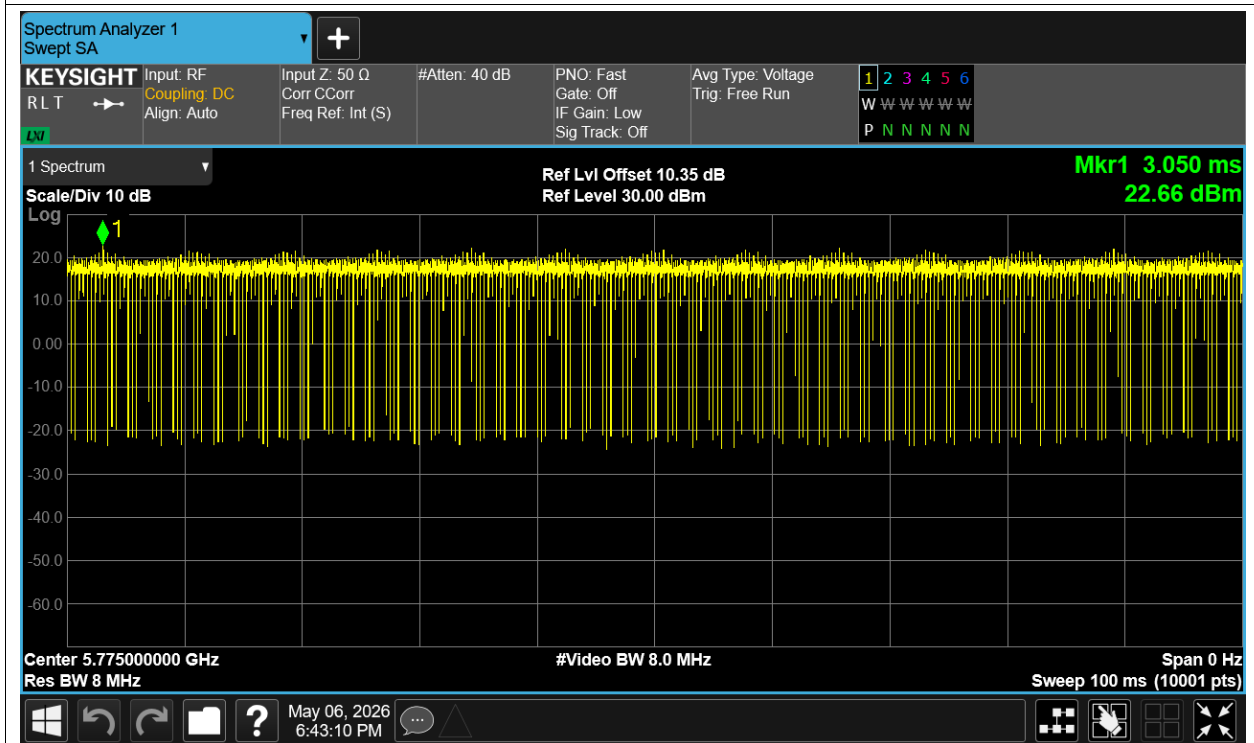
Duty Cycle NVNT ax40 5755MHz Sum



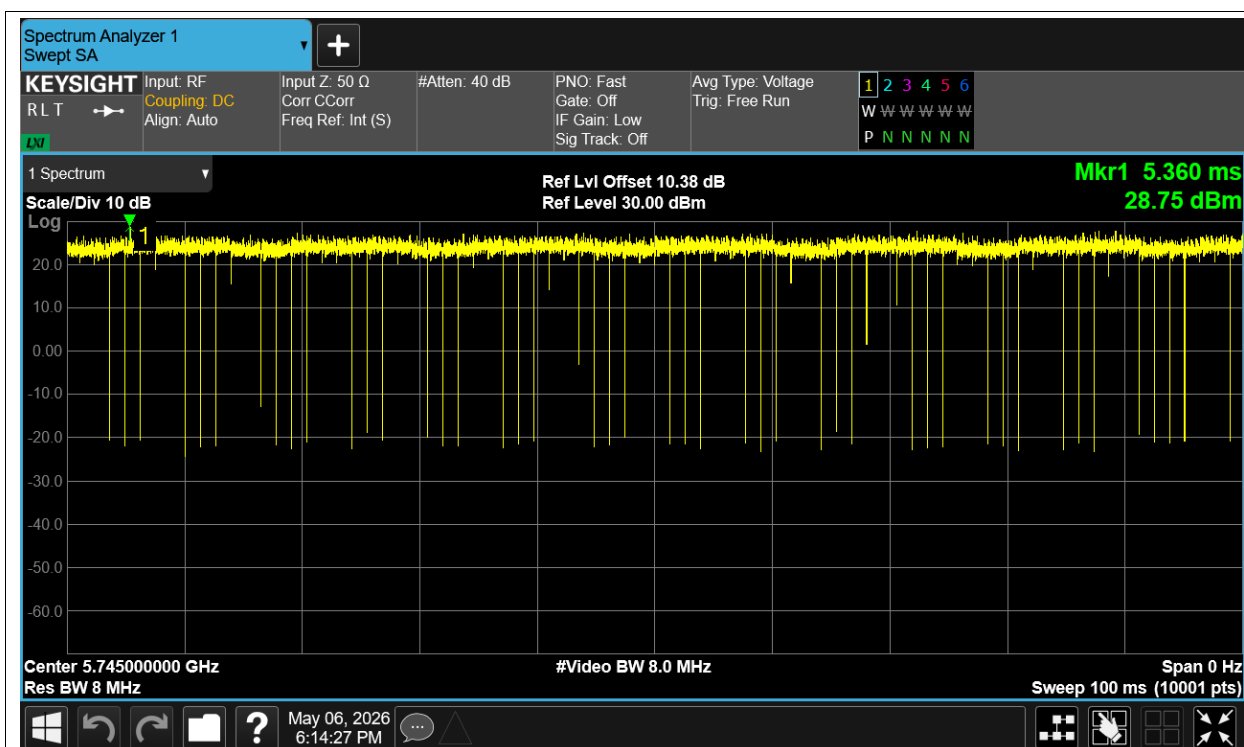
Duty Cycle NVNT ax40 5795MHz Sum



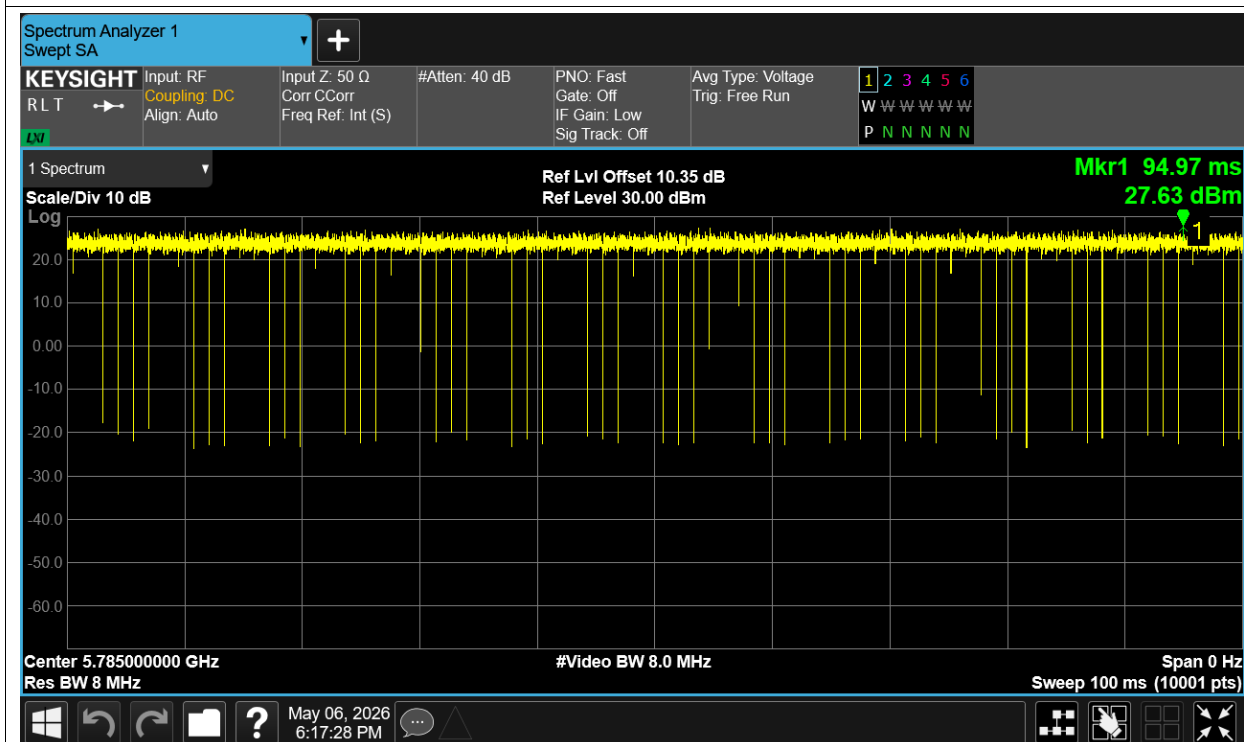
Duty Cycle NVNT ax80 5775MHz Sum



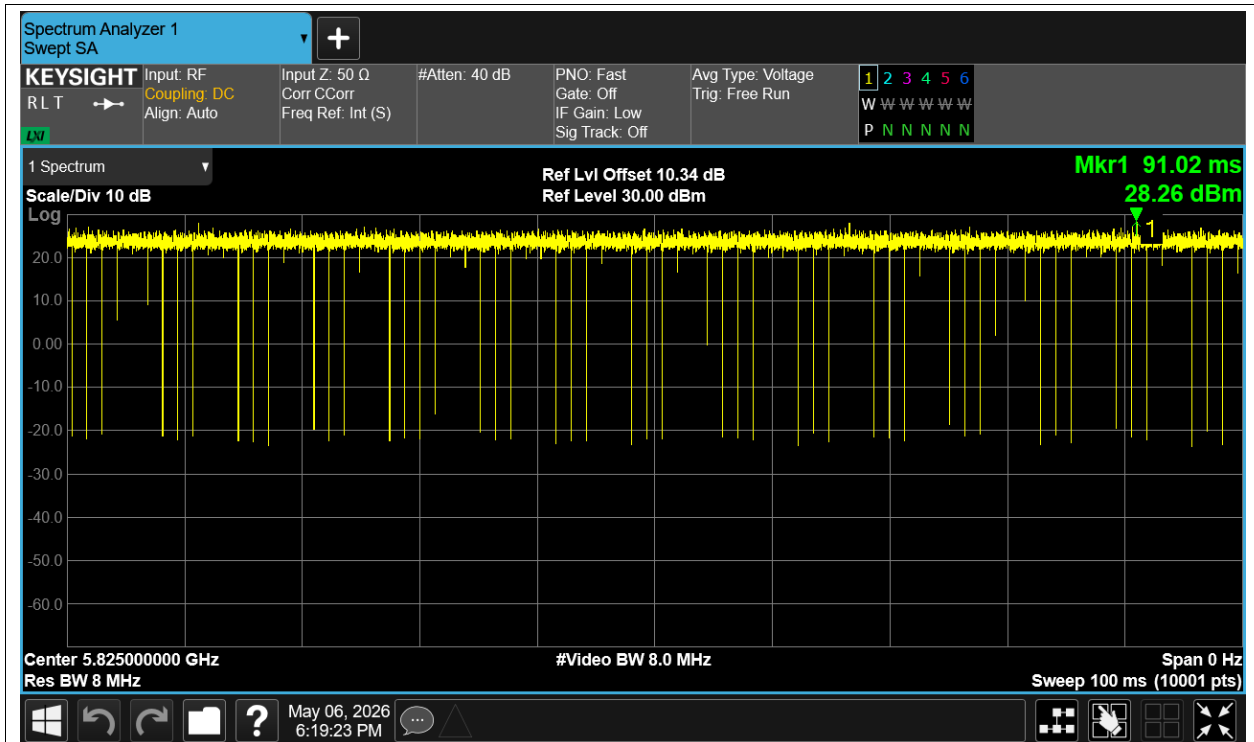
Duty Cycle NVNT n20 5745MHz Sum



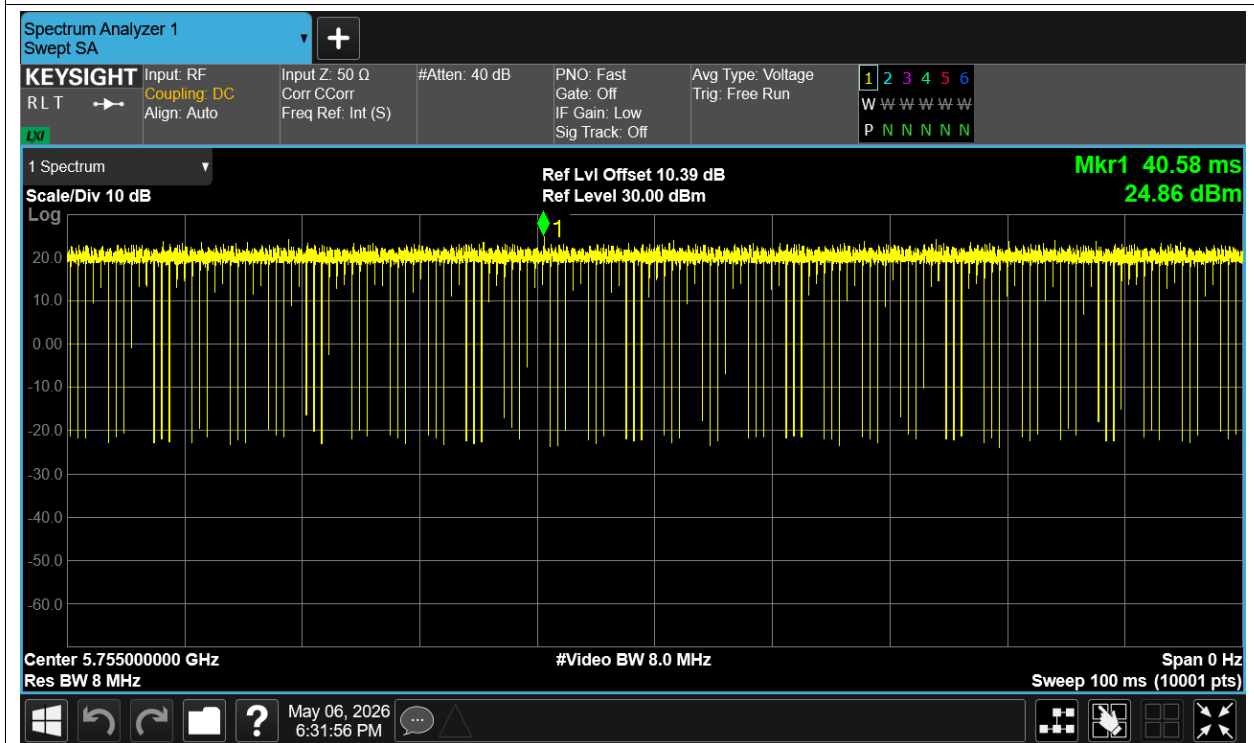
Duty Cycle NVNT n20 5785MHz Sum



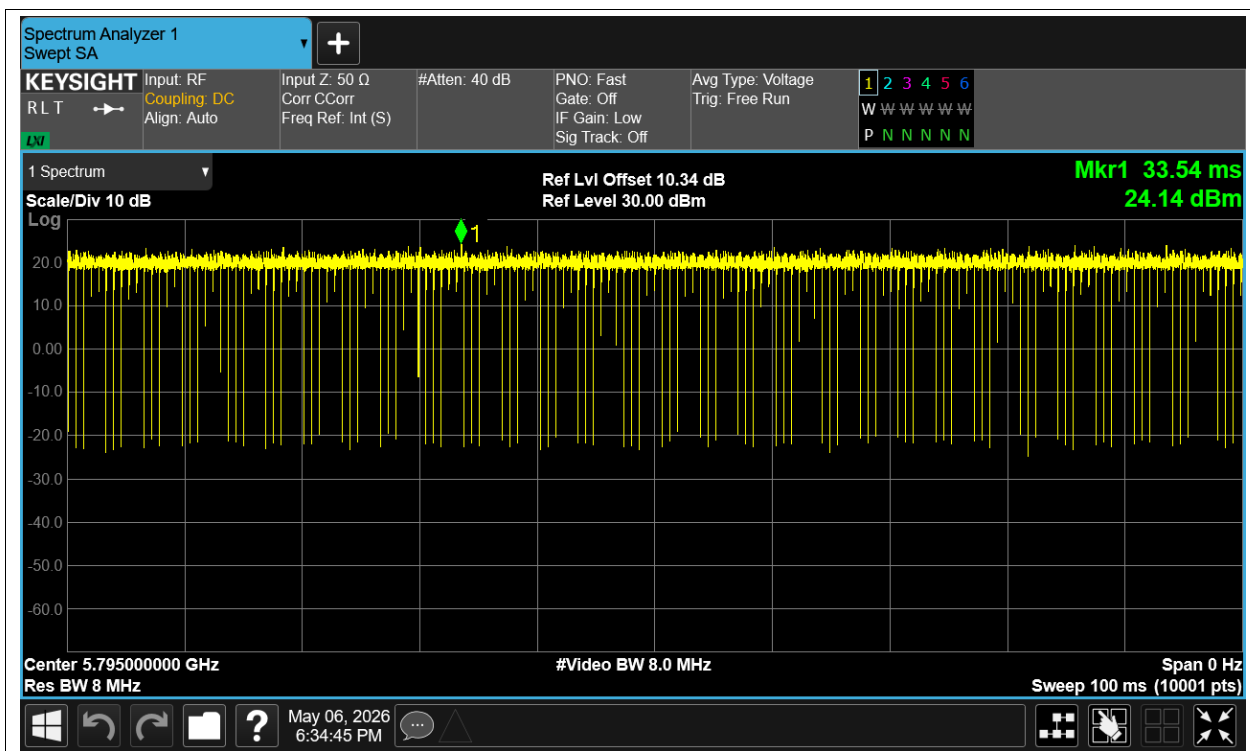
Duty Cycle NVNT n20 5825MHz Sum



Duty Cycle NVNT n40 5755MHz Sum



Duty Cycle NVNT n40 5795MHz Sum



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	20.73	0.02	20.75	30	Pass
NVNT	a	5785	Ant1	20.52	0.02	20.54	30	Pass
NVNT	a	5825	Ant1	20.4	0.02	20.42	30	Pass
NVNT	a	5745	Ant2	20.01	0.02	20.03	30	Pass
NVNT	a	5785	Ant2	20.95	0.02	20.97	30	Pass
NVNT	a	5825	Ant2	20.84	0.02	20.86	30	Pass
NVNT	ac20	5745	Ant1	19.86	0.02	19.88	28	Pass
NVNT	ac20	5745	Ant2	19.16	0.02	19.18	28	Pass
NVNT	ac20	5745	Sum	22.534	0.02	22.554	28	Pass
NVNT	ac20	5785	Ant1	19.69	0.02	19.71	28	Pass
NVNT	ac20	5785	Ant2	20.1	0.02	20.12	28	Pass
NVNT	ac20	5785	Sum	22.91	0.02	22.93	28	Pass
NVNT	ac20	5825	Ant1	19.62	0.02	19.64	28	Pass
NVNT	ac20	5825	Ant2	19.87	0.02	19.89	28	Pass
NVNT	ac20	5825	Sum	22.757	0.02	22.777	28	Pass
NVNT	ac40	5755	Ant1	19.46	0.04	19.5	28	Pass
NVNT	ac40	5755	Ant2	18.88	0.04	18.92	28	Pass
NVNT	ac40	5755	Sum	22.19	0.04	22.23	28	Pass
NVNT	ac40	5795	Ant1	19.52	0.04	19.56	28	Pass
NVNT	ac40	5795	Ant2	19.83	0.04	19.87	28	Pass
NVNT	ac40	5795	Sum	22.688	0.04	22.728	28	Pass
NVNT	ac80	5775	Ant1	19.79	0.08	19.87	28	Pass
NVNT	ac80	5775	Ant2	19.63	0.08	19.71	28	Pass
NVNT	ac80	5775	Sum	22.721	0.08	22.801	28	Pass
NVNT	ax20	5745	Ant1	19.88	0.02	19.9	28	Pass
NVNT	ax20	5745	Ant2	19.16	0.02	19.18	28	Pass
NVNT	ax20	5745	Sum	22.545	0.02	22.565	28	Pass
NVNT	ax20	5785	Ant1	19.69	0.02	19.71	28	Pass
NVNT	ax20	5785	Ant2	20.1	0.02	20.12	28	Pass
NVNT	ax20	5785	Sum	22.91	0.02	22.93	28	Pass
NVNT	ax20	5825	Ant1	19.68	0.02	19.7	28	Pass
NVNT	ax20	5825	Ant2	19.92	0.02	19.94	28	Pass
NVNT	ax20	5825	Sum	22.812	0.02	22.832	28	Pass
NVNT	ax40	5755	Ant1	19.63	0.04	19.67	28	Pass
NVNT	ax40	5755	Ant2	18.99	0.04	19.03	28	Pass
NVNT	ax40	5755	Sum	22.332	0.04	22.372	28	Pass
NVNT	ax40	5795	Ant1	19.57	0.04	19.61	28	Pass
NVNT	ax40	5795	Ant2	19.95	0.04	19.99	28	Pass
NVNT	ax40	5795	Sum	22.774	0.04	22.814	28	Pass
NVNT	ax80	5775	Ant1	19.87	0.07	19.94	28	Pass

NVNT	ax80	5775	Ant2	19.75	0.07	19.82	28	Pass
NVNT	ax80	5775	Sum	22.821	0.07	22.891	28	Pass
NVNT	n20	5745	Ant1	19.83	0.02	19.85	28	Pass
NVNT	n20	5745	Ant2	19.15	0.02	19.17	28	Pass
NVNT	n20	5745	Sum	22.514	0.02	22.534	28	Pass
NVNT	n20	5785	Ant1	19.64	0.02	19.66	28	Pass
NVNT	n20	5785	Ant2	20.09	0.02	20.11	28	Pass
NVNT	n20	5785	Sum	22.881	0.02	22.901	28	Pass
NVNT	n20	5825	Ant1	19.63	0.02	19.65	28	Pass
NVNT	n20	5825	Ant2	19.85	0.02	19.87	28	Pass
NVNT	n20	5825	Sum	22.752	0.02	22.772	28	Pass
NVNT	n40	5755	Ant1	19.47	0.04	19.51	28	Pass
NVNT	n40	5755	Ant2	18.96	0.04	19	28	Pass
NVNT	n40	5755	Sum	22.233	0.04	22.273	28	Pass
NVNT	n40	5795	Ant1	19.46	0.04	19.5	28	Pass
NVNT	n40	5795	Ant2	19.81	0.04	19.85	28	Pass
NVNT	n40	5795	Sum	22.649	0.04	22.689	28	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

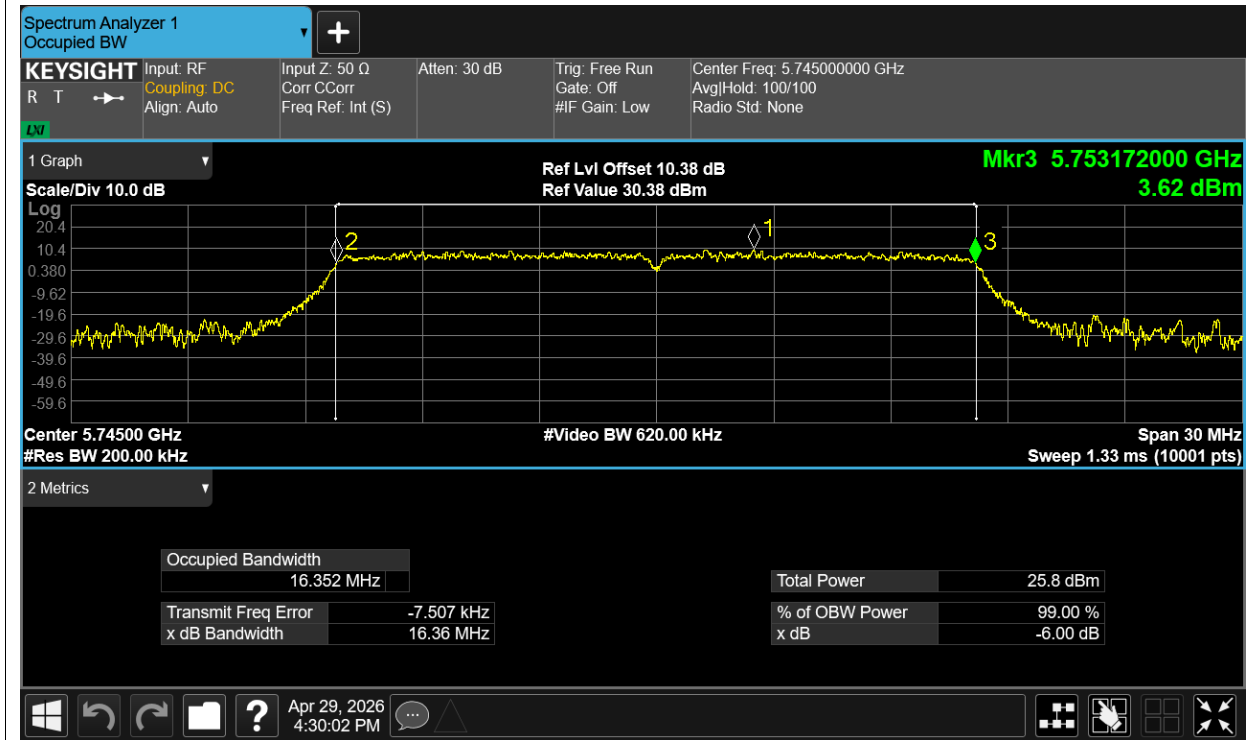
For MIMO mode: ant gain is $4.99+10*\log_{10}(2)=4.99+3.01=8$ dBi, the limit is $30-(8-6)=28$ dbm.

-6dB Bandwidth

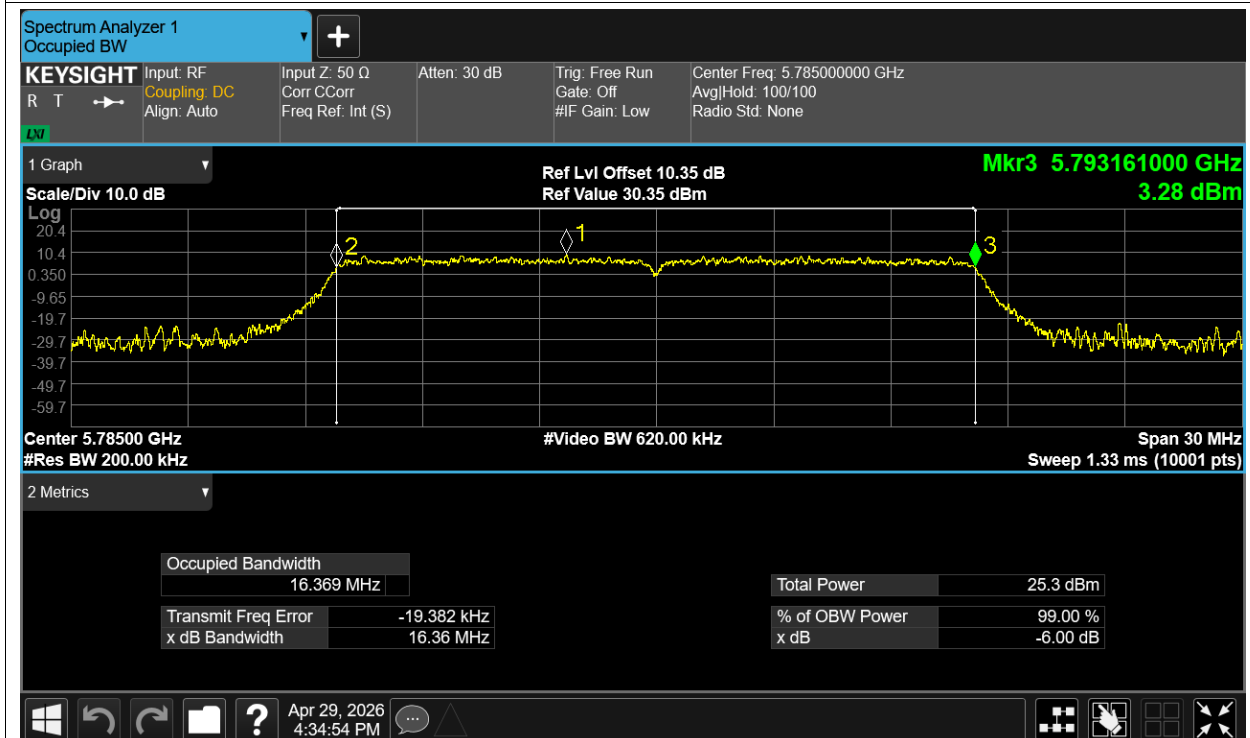
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit (MHz)	Verdic
NVNT	a	5745	Ant1	16.359	0.5	Pass
NVNT	a	5785	Ant1	16.36	0.5	Pass
NVNT	a	5825	Ant1	16.362	0.5	Pass
NVNT	a	5745	Ant2	16.371	0.5	Pass
NVNT	a	5785	Ant2	16.36	0.5	Pass
NVNT	a	5825	Ant2	16.341	0.5	Pass
NVNT	ac20	5745	Ant1	17.578	0.5	Pass
NVNT	ac20	5745	Ant2	17.556	0.5	Pass
NVNT	ac20	5785	Ant1	17.552	0.5	Pass
NVNT	ac20	5785	Ant2	17.56	0.5	Pass
NVNT	ac20	5825	Ant1	17.527	0.5	Pass
NVNT	ac20	5825	Ant2	17.522	0.5	Pass
NVNT	ac40	5755	Ant1	36.318	0.5	Pass
NVNT	ac40	5755	Ant2	36.338	0.5	Pass
NVNT	ac40	5795	Ant1	36.36	0.5	Pass
NVNT	ac40	5795	Ant2	36.302	0.5	Pass
NVNT	ac80	5775	Ant1	76.252	0.5	Pass
NVNT	ac80	5775	Ant2	76.185	0.5	Pass
NVNT	ax20	5745	Ant1	18.93	0.5	Pass
NVNT	ax20	5745	Ant2	18.905	0.5	Pass
NVNT	ax20	5785	Ant1	18.942	0.5	Pass
NVNT	ax20	5785	Ant2	19	0.5	Pass
NVNT	ax20	5825	Ant1	18.989	0.5	Pass
NVNT	ax20	5825	Ant2	19.046	0.5	Pass
NVNT	ax40	5755	Ant1	37.938	0.5	Pass
NVNT	ax40	5755	Ant2	37.838	0.5	Pass
NVNT	ax40	5795	Ant1	37.956	0.5	Pass
NVNT	ax40	5795	Ant2	37.86	0.5	Pass
NVNT	ax80	5775	Ant1	77.495	0.5	Pass
NVNT	ax80	5775	Ant2	77.841	0.5	Pass
NVNT	n20	5745	Ant1	17.541	0.5	Pass
NVNT	n20	5745	Ant2	17.54	0.5	Pass
NVNT	n20	5785	Ant1	17.532	0.5	Pass
NVNT	n20	5785	Ant2	17.541	0.5	Pass
NVNT	n20	5825	Ant1	17.537	0.5	Pass
NVNT	n20	5825	Ant2	17.584	0.5	Pass
NVNT	n40	5755	Ant1	36.419	0.5	Pass
NVNT	n40	5755	Ant2	36.4	0.5	Pass
NVNT	n40	5795	Ant1	36.418	0.5	Pass
NVNT	n40	5795	Ant2	36.234	0.5	Pass

Test Graphs

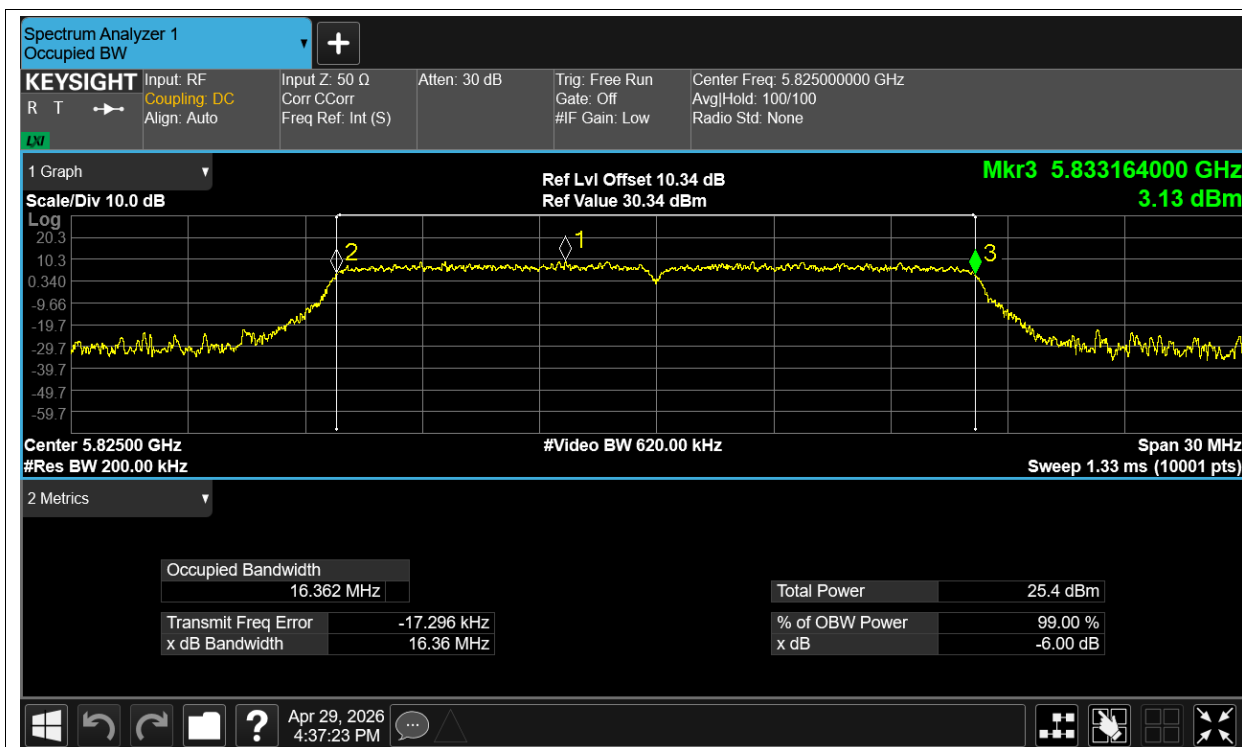
-6dB Bandwidth NVNT a 5745MHz Ant1



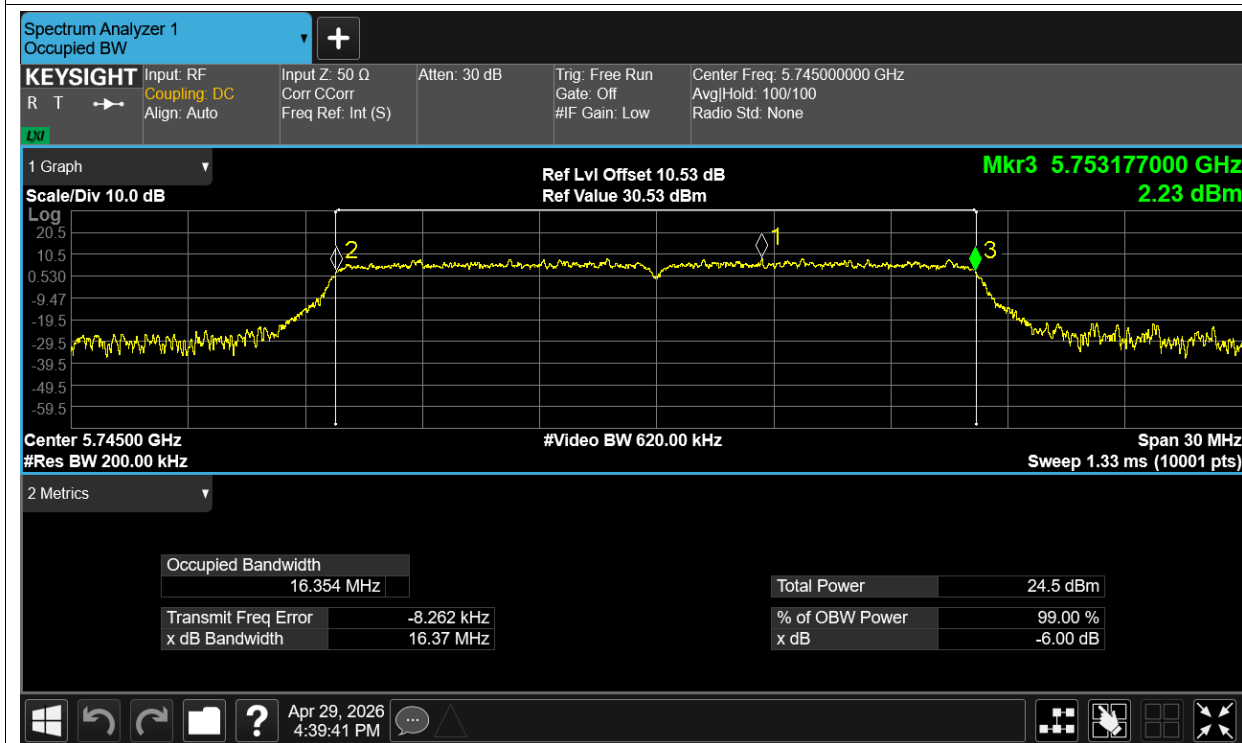
-6dB Bandwidth NVNT a 5785MHz Ant1



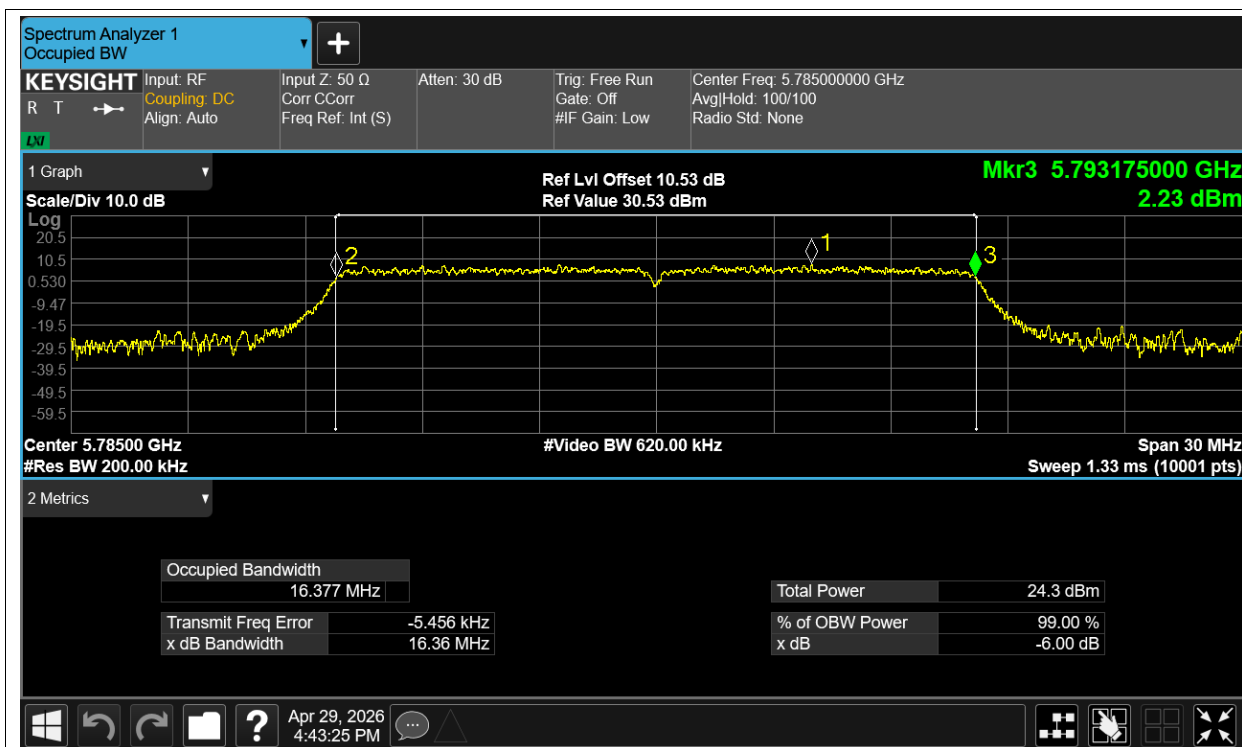
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT a 5745MHz Ant2



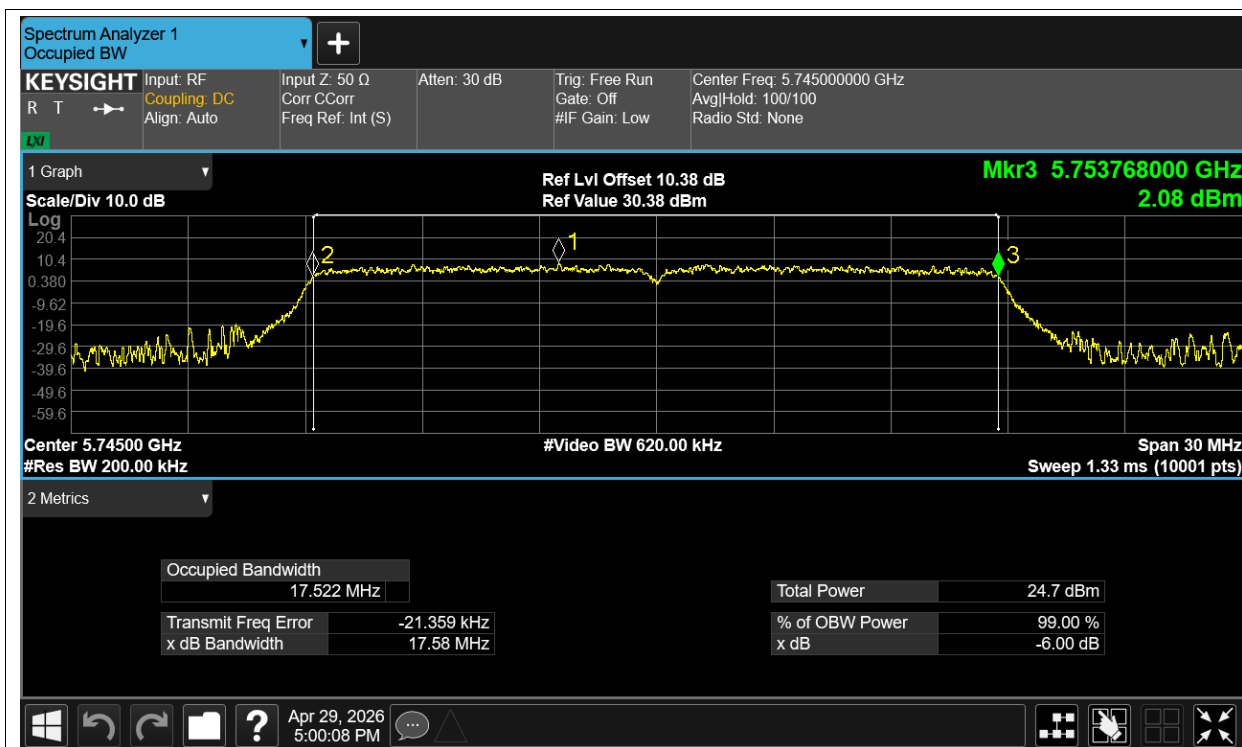
-6dB Bandwidth NVNT a 5785MHz Ant2



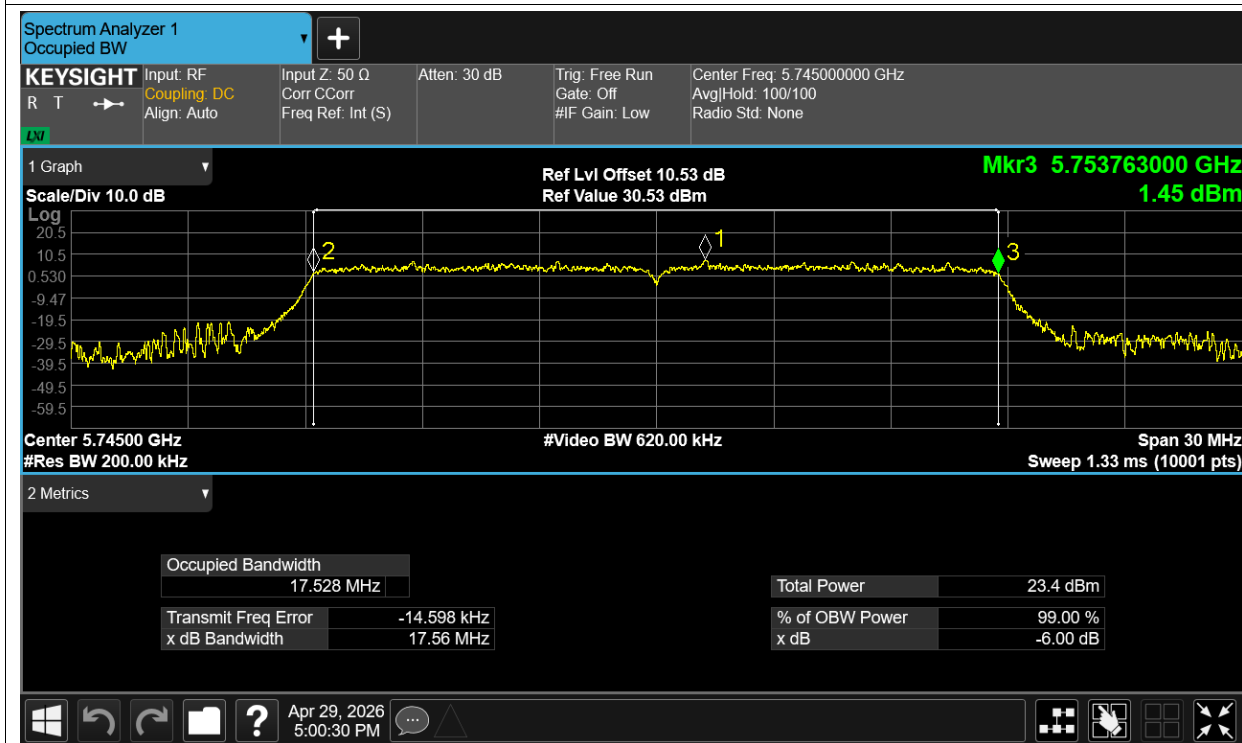
-6dB Bandwidth NVNT a 5825MHz Ant2



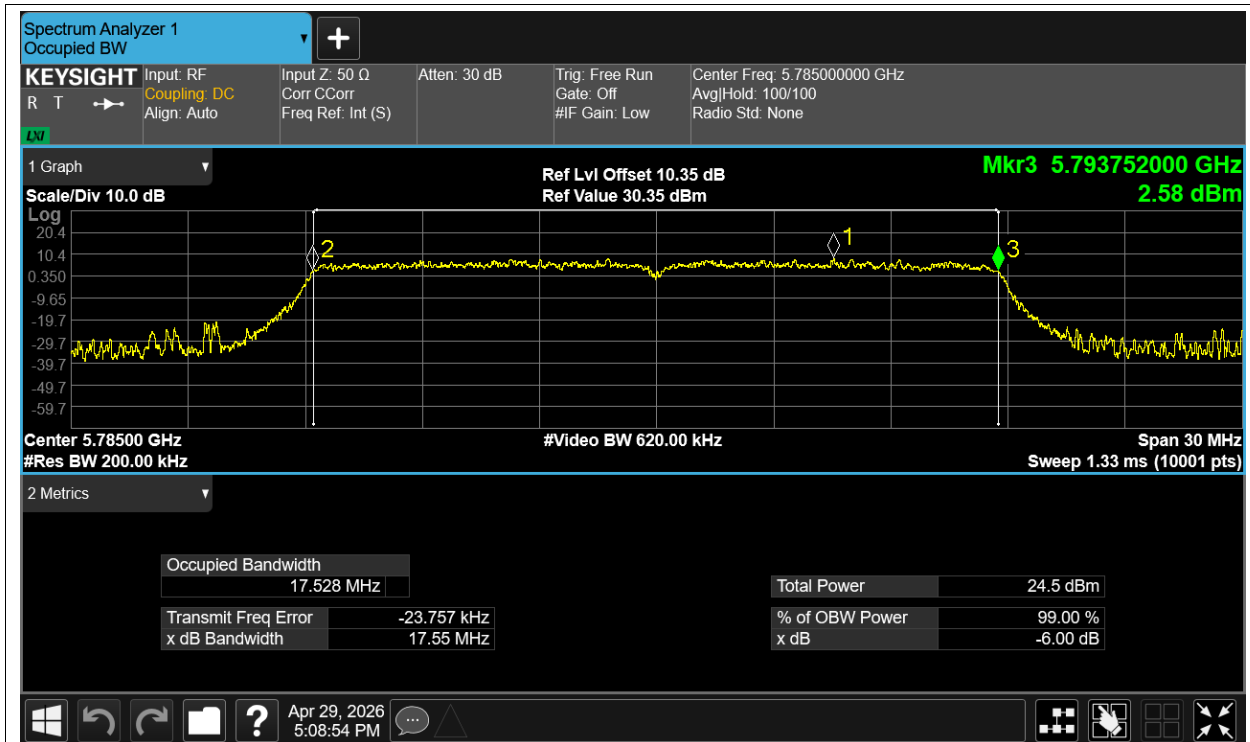
-6dB Bandwidth NVNT ac20 5745MHz Ant1



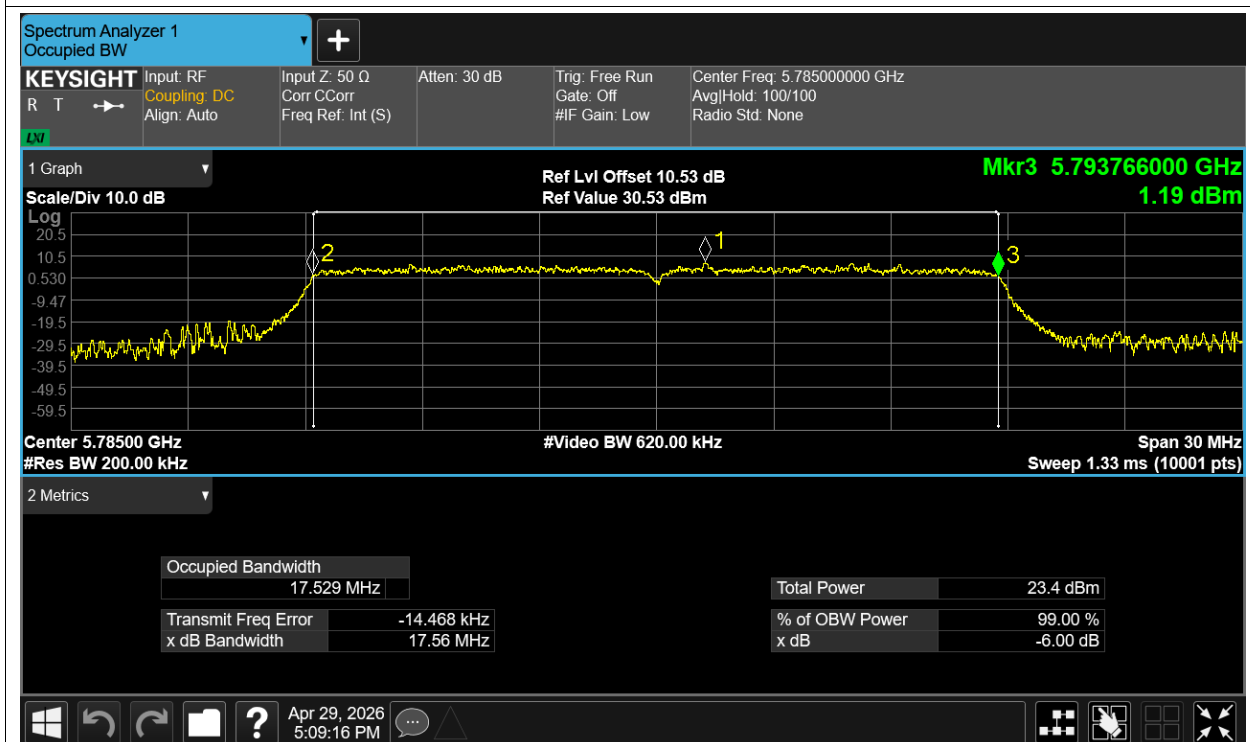
-6dB Bandwidth NVNT ac20 5745MHz Ant2



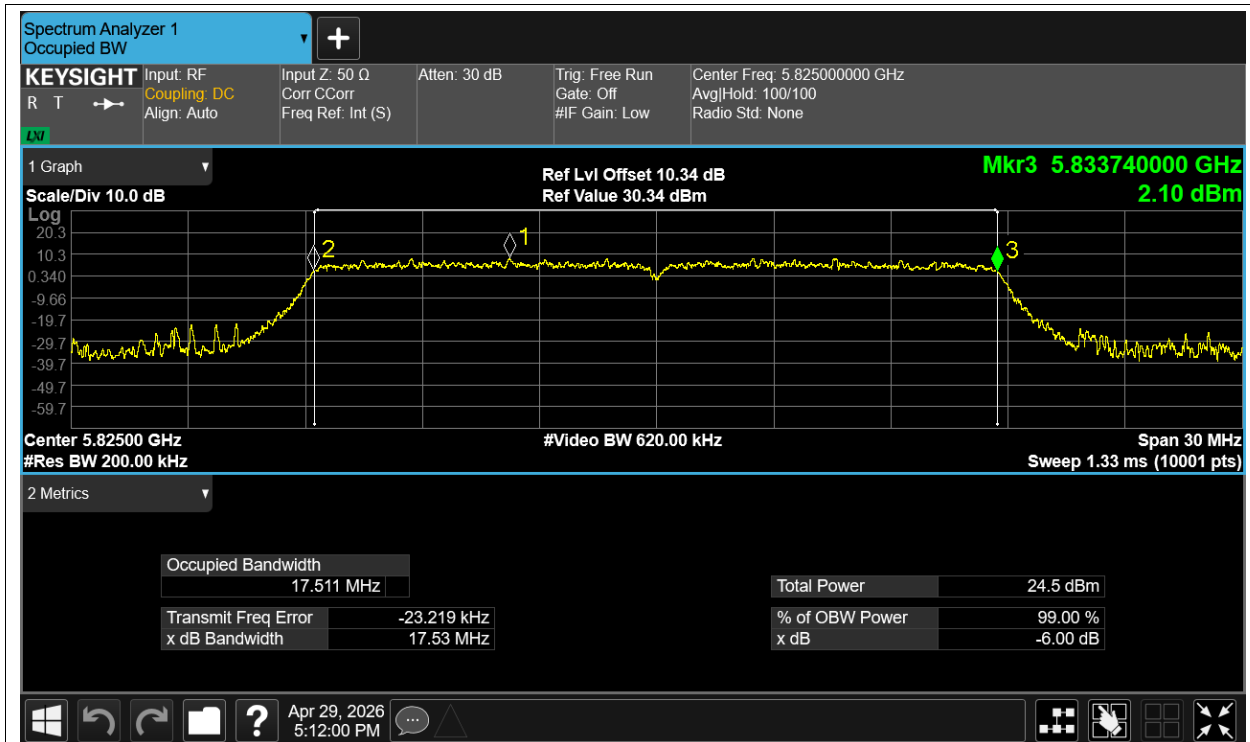
-6dB Bandwidth NVNT ac20 5785MHz Ant1



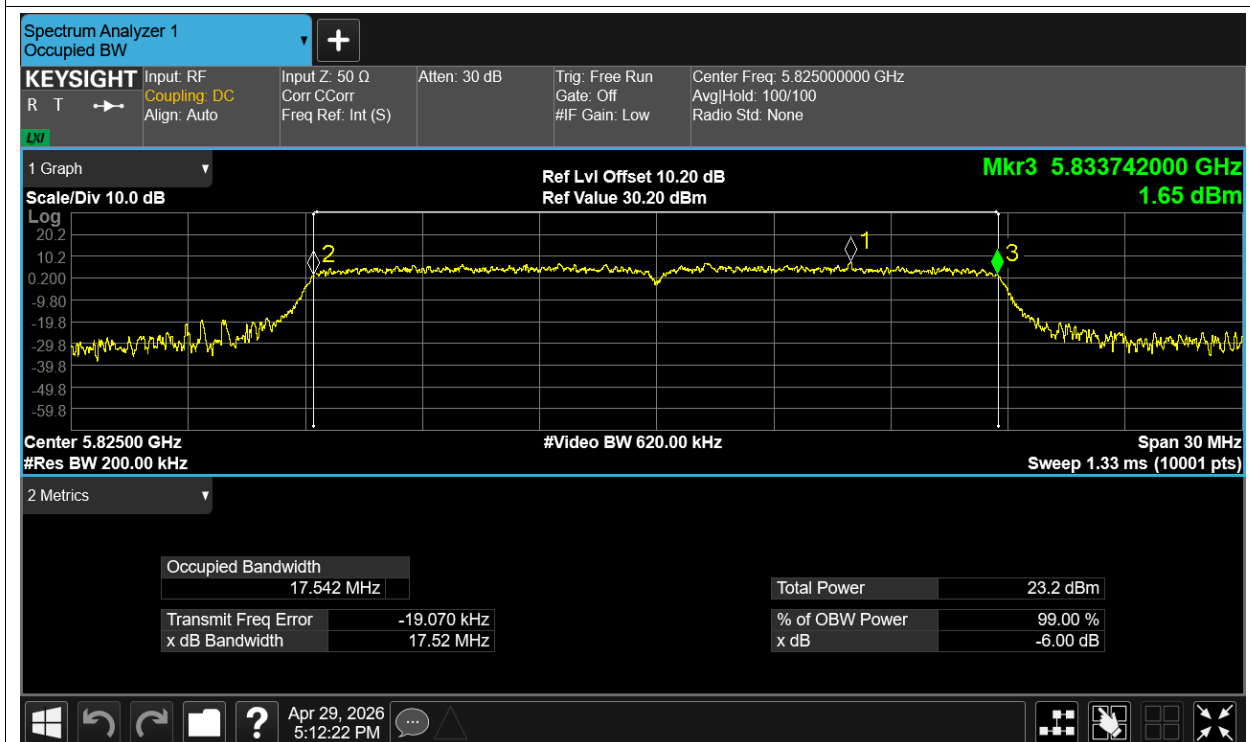
-6dB Bandwidth NVNT ac20 5785MHz Ant2



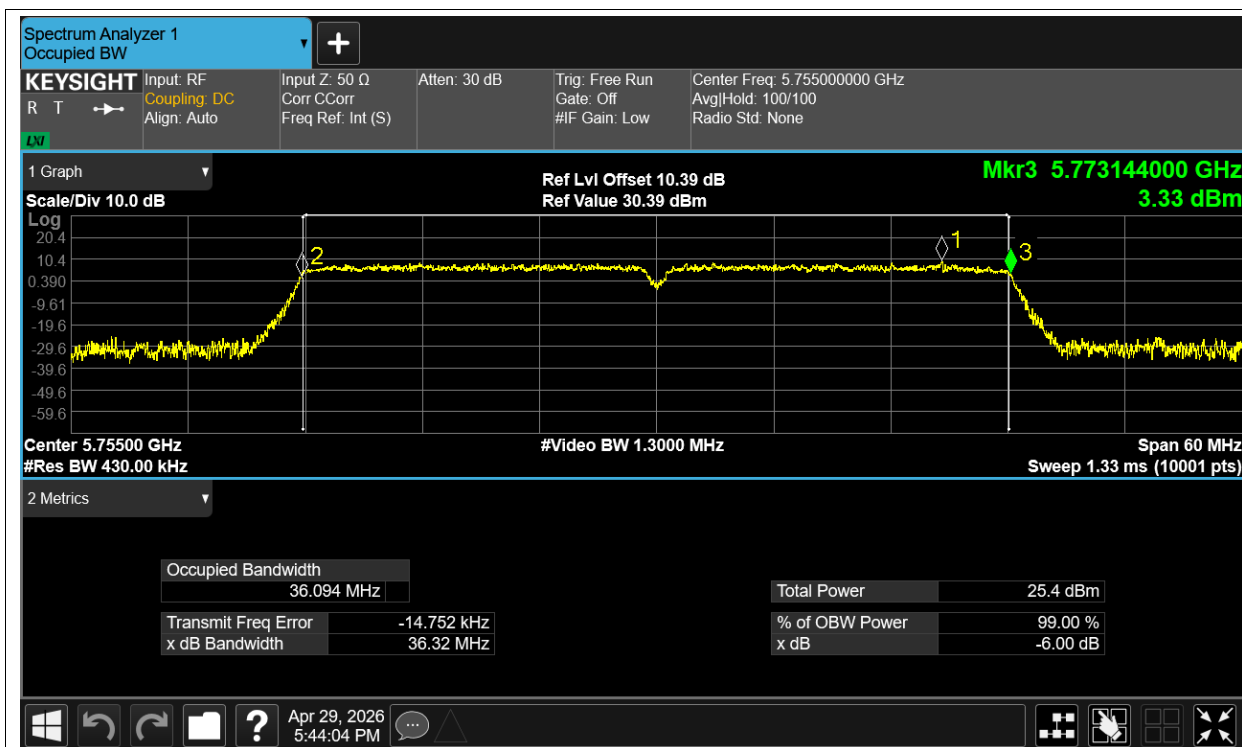
-6dB Bandwidth NVNT ac20 5825MHz Ant1



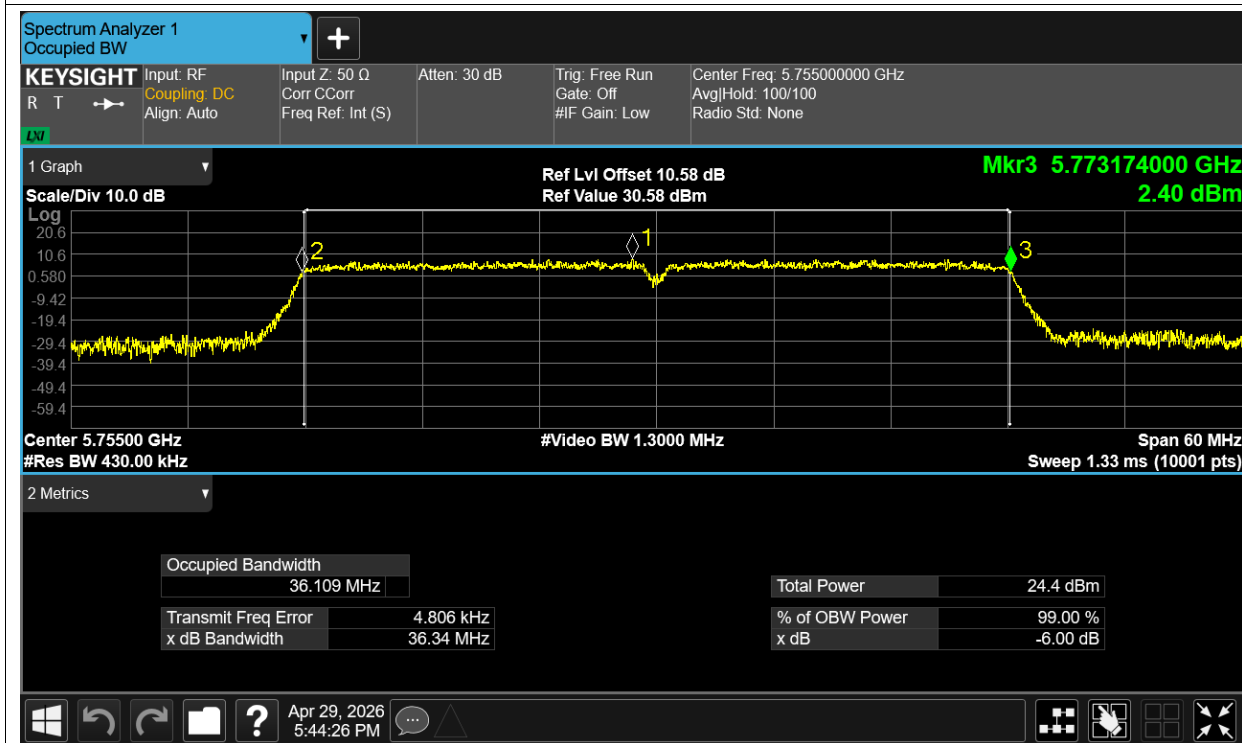
-6dB Bandwidth NVNT ac20 5825MHz Ant2



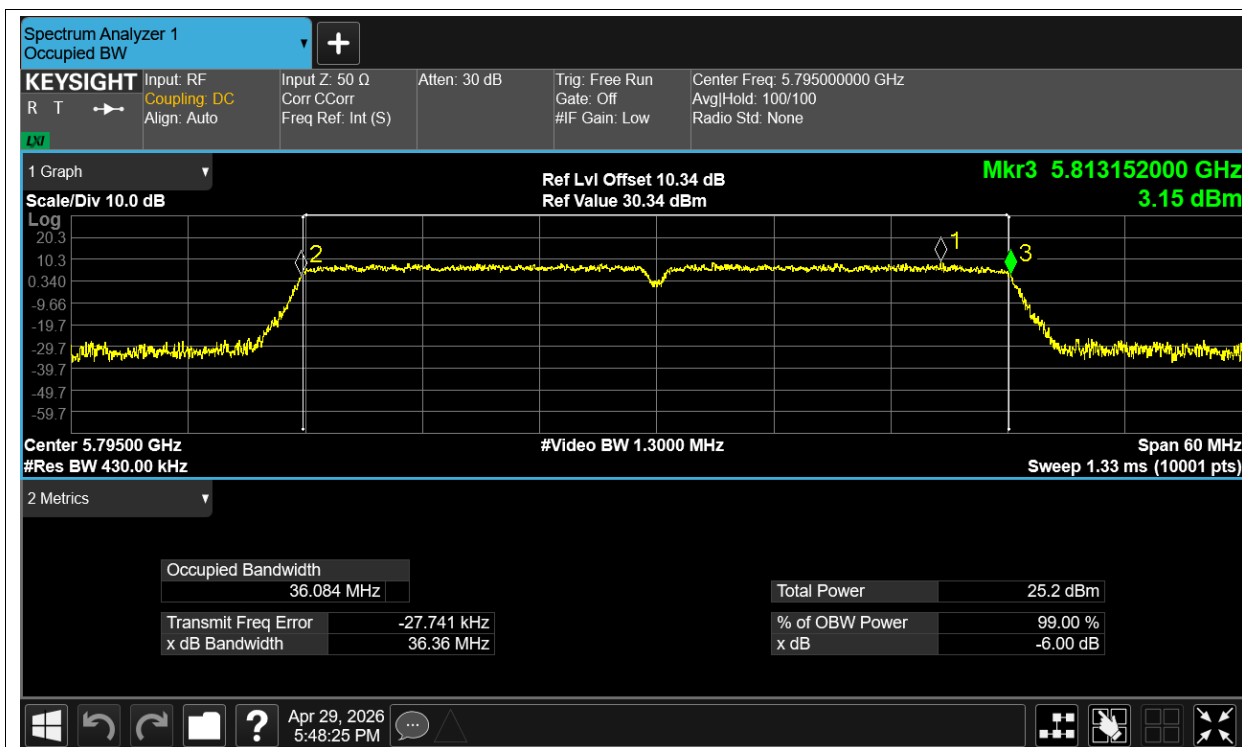
-6dB Bandwidth NVNT ac40 5755MHz Ant1



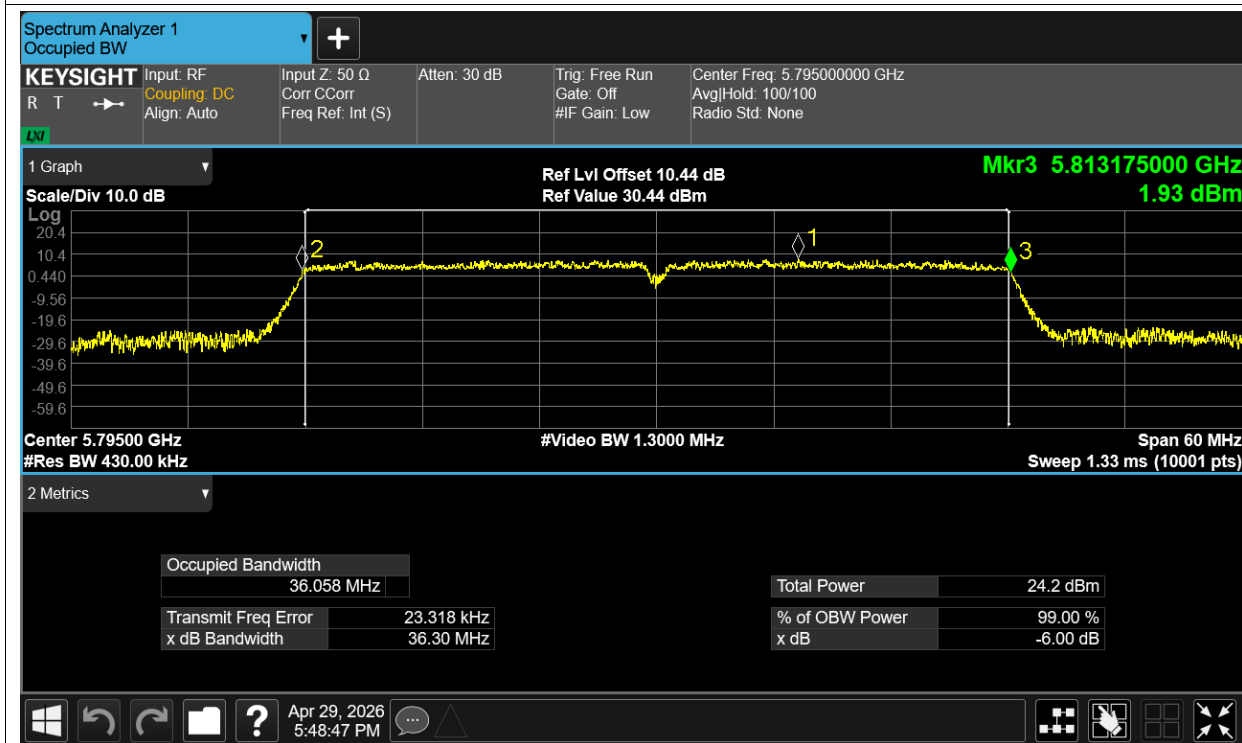
-6dB Bandwidth NVNT ac40 5755MHz Ant2



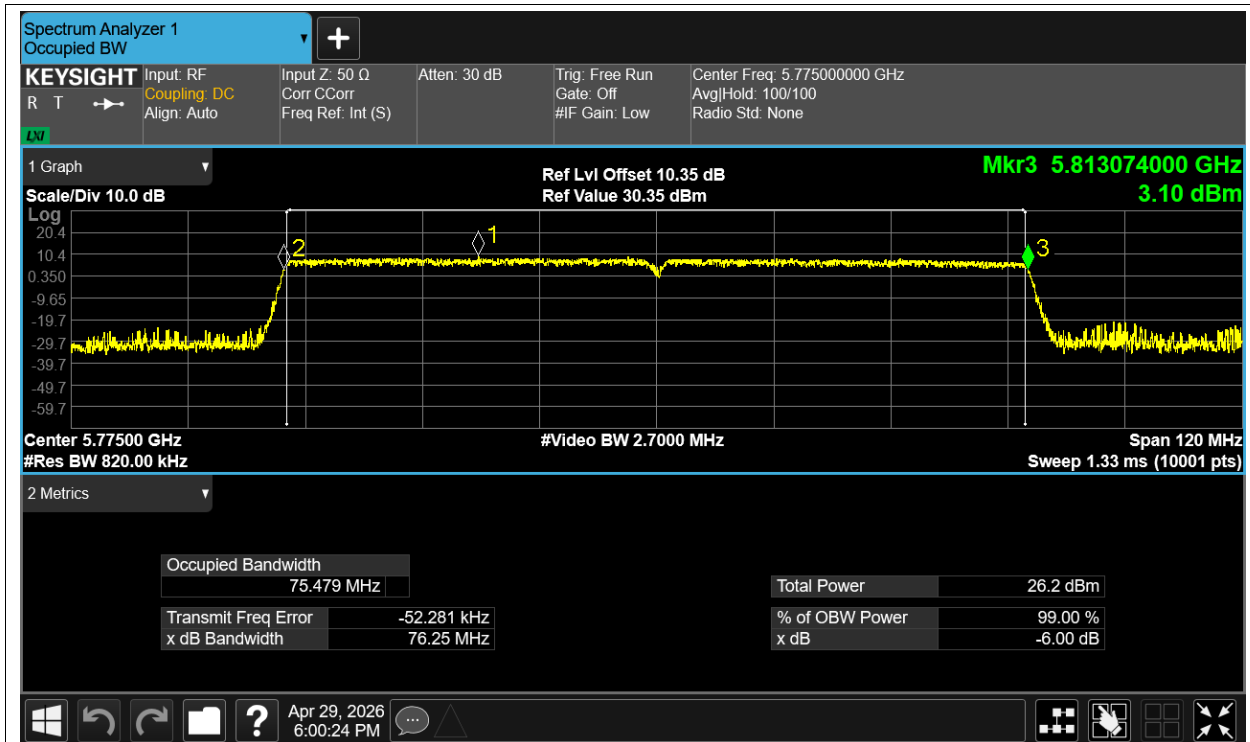
-6dB Bandwidth NVNT ac40 5795MHz Ant1



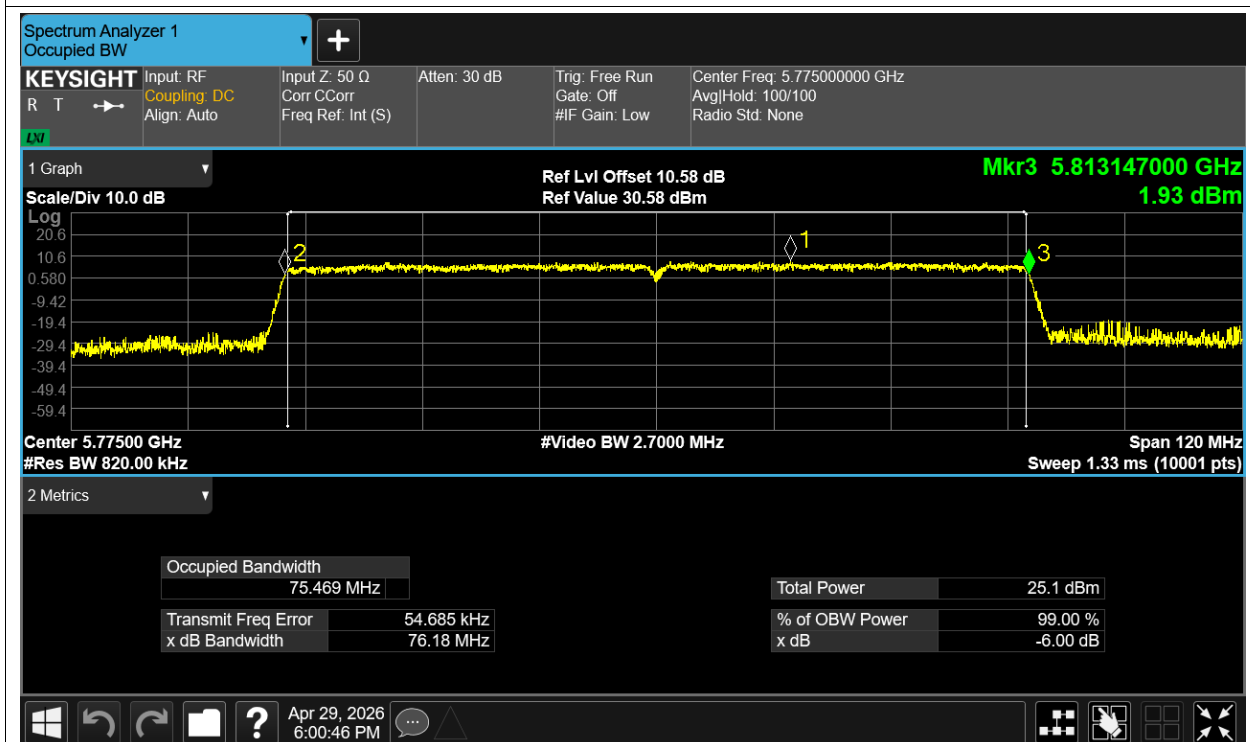
-6dB Bandwidth NVNT ac40 5795MHz Ant2



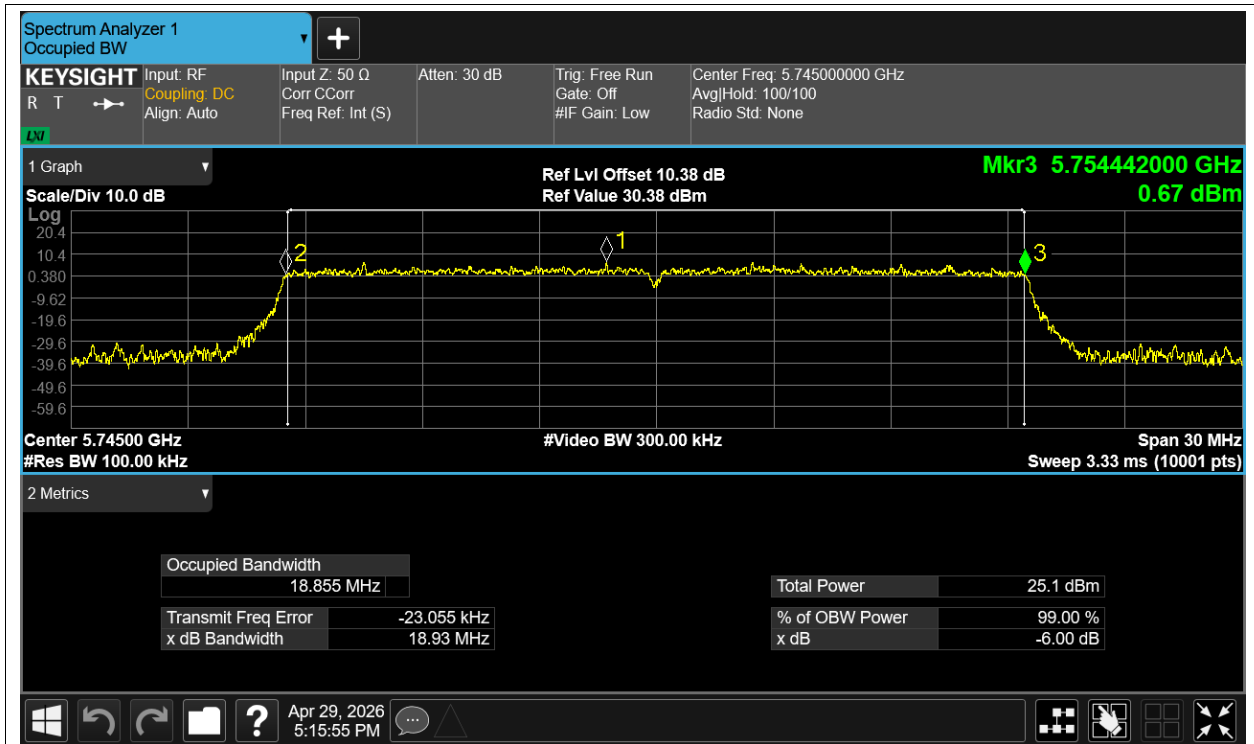
-6dB Bandwidth NVNT ac80 5775MHz Ant1



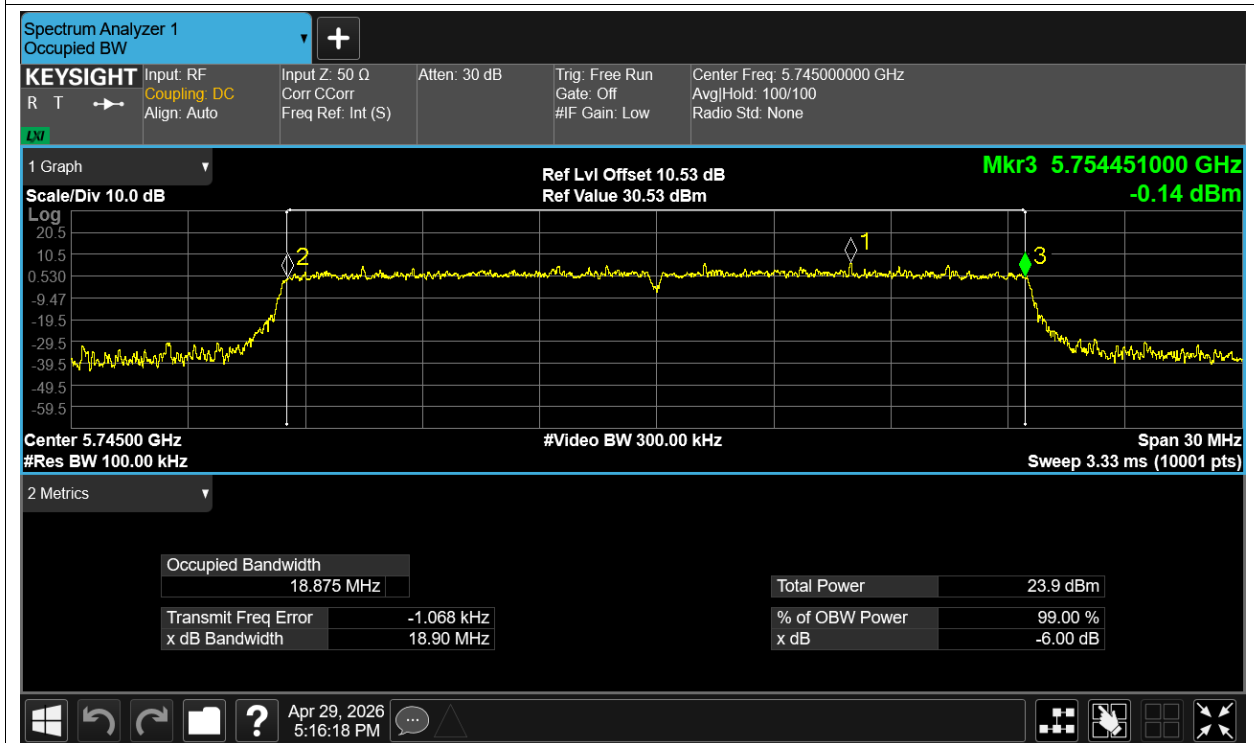
-6dB Bandwidth NVNT ac80 5775MHz Ant2



-6dB Bandwidth NVNT ax20 5745MHz Ant1



-6dB Bandwidth NVNT ax20 5745MHz Ant2



-6dB Bandwidth NVNT ax20 5785MHz Ant1