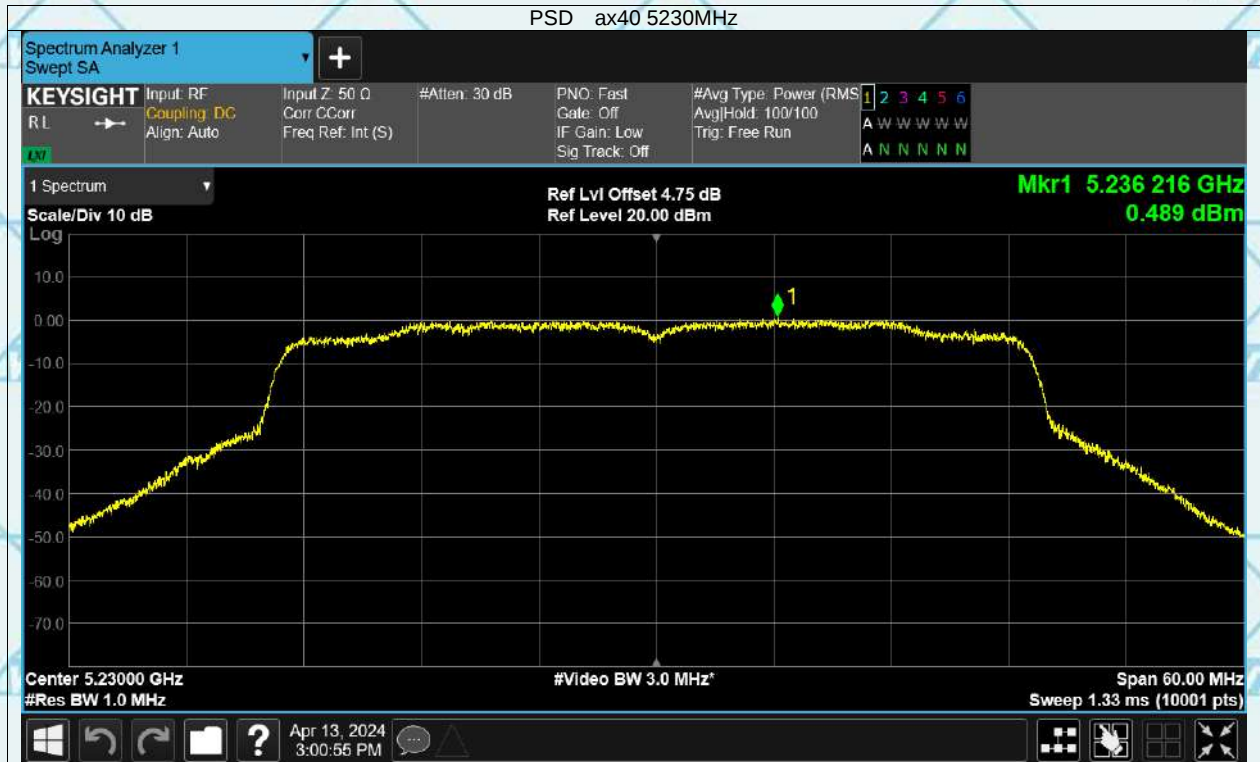




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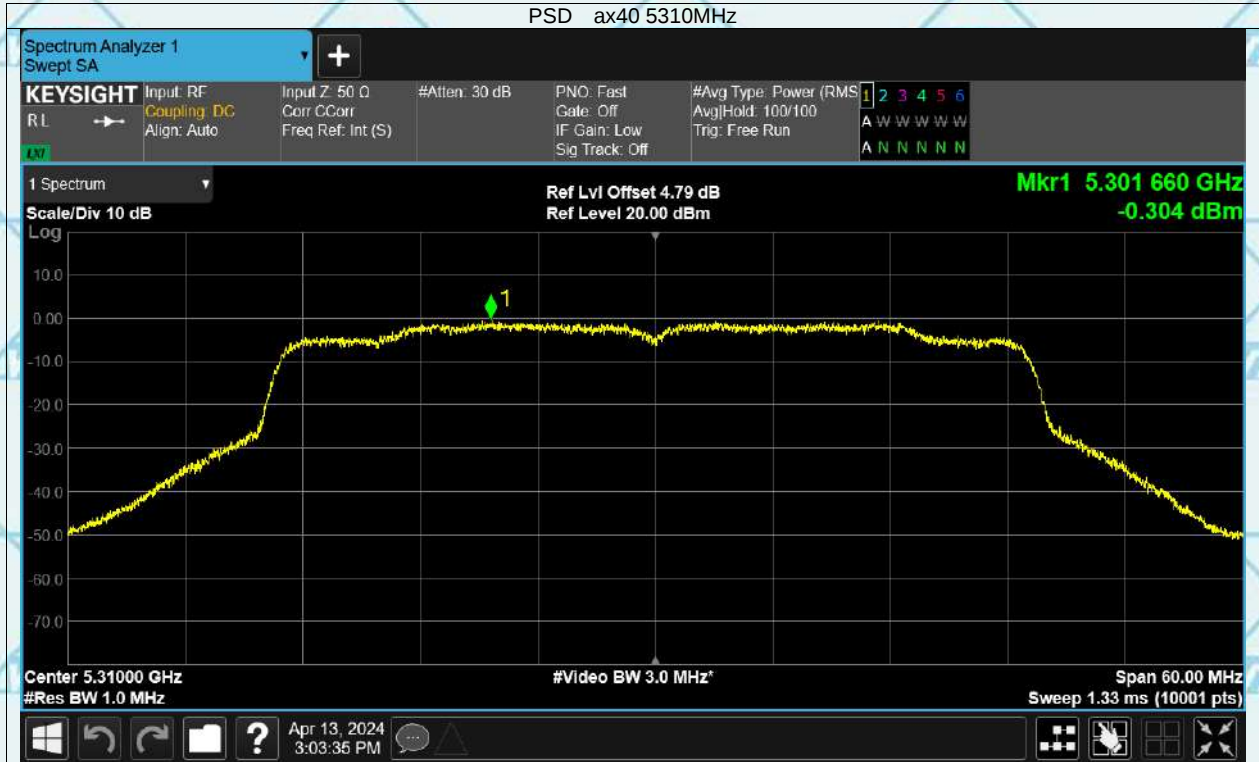
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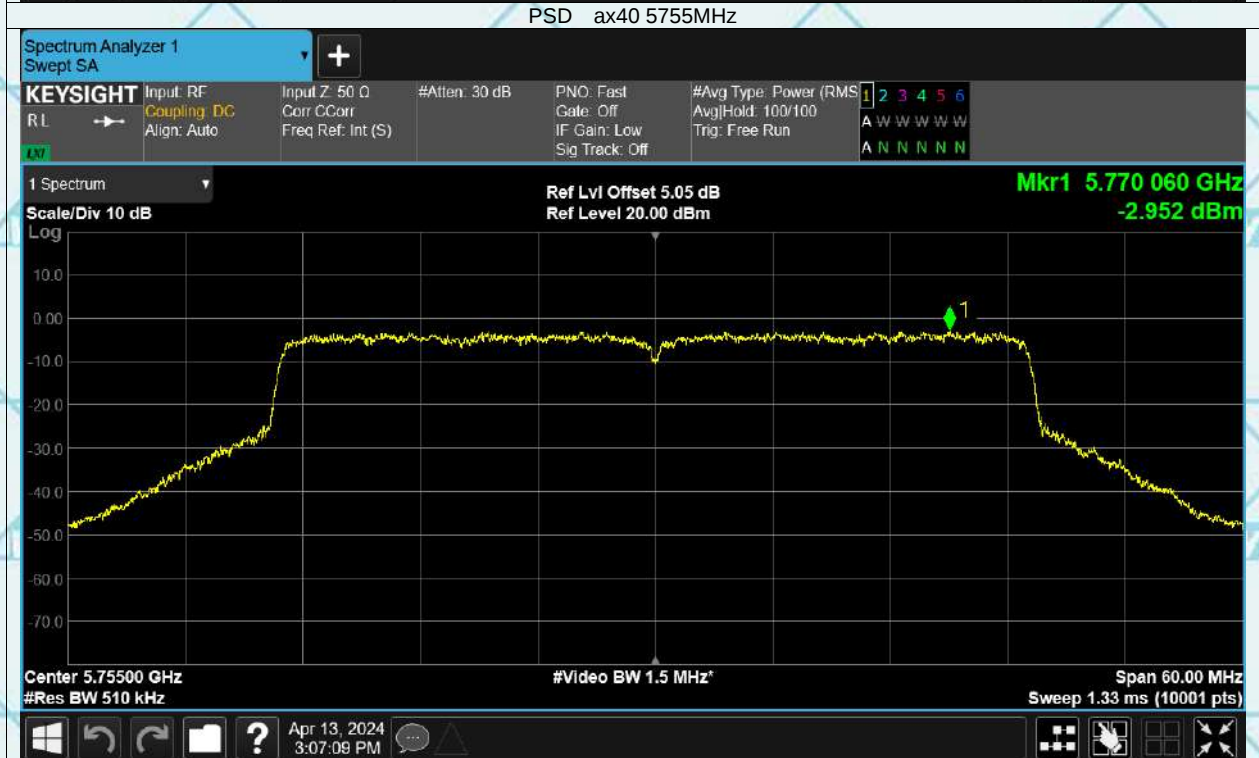




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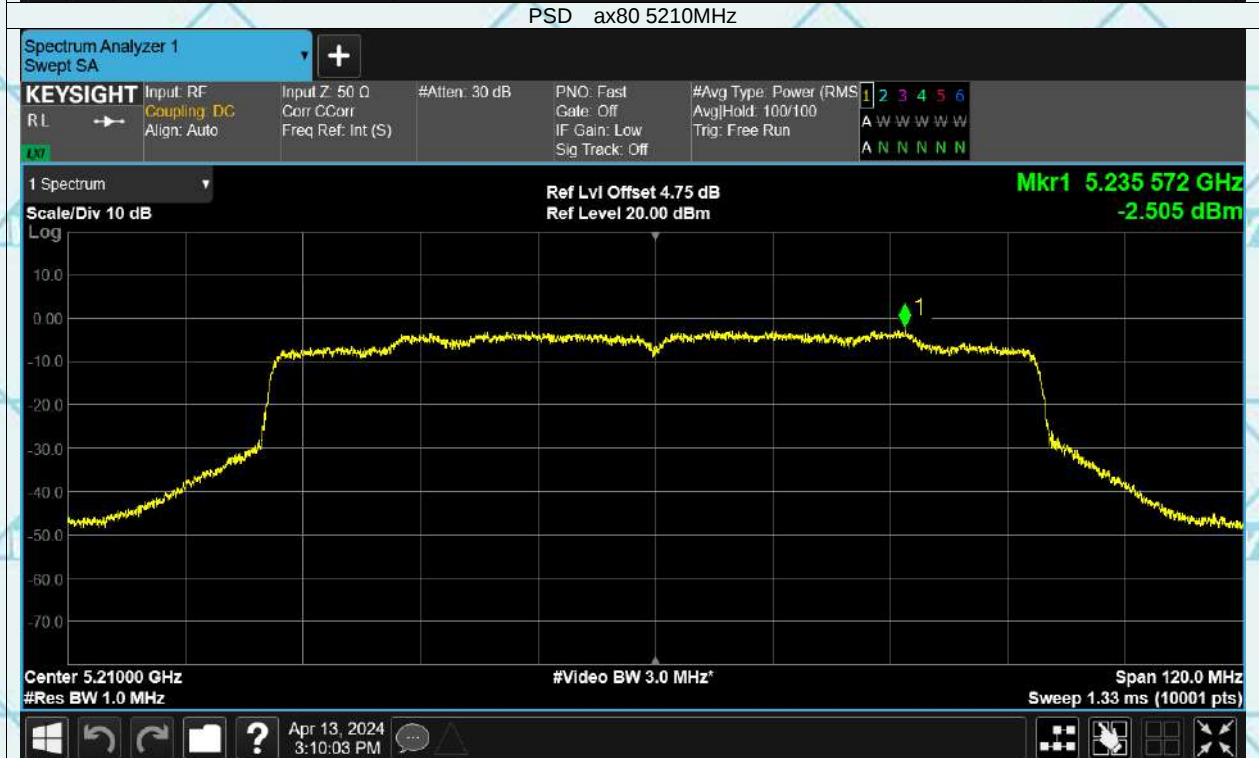
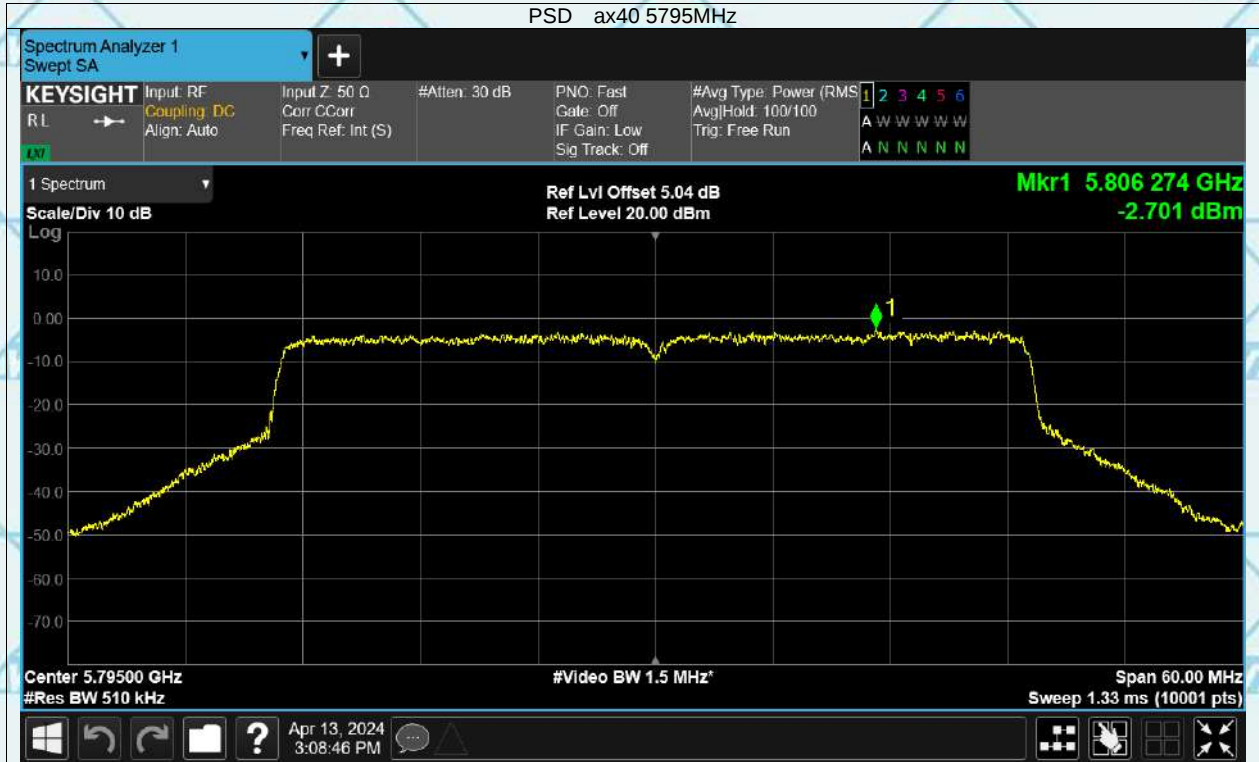




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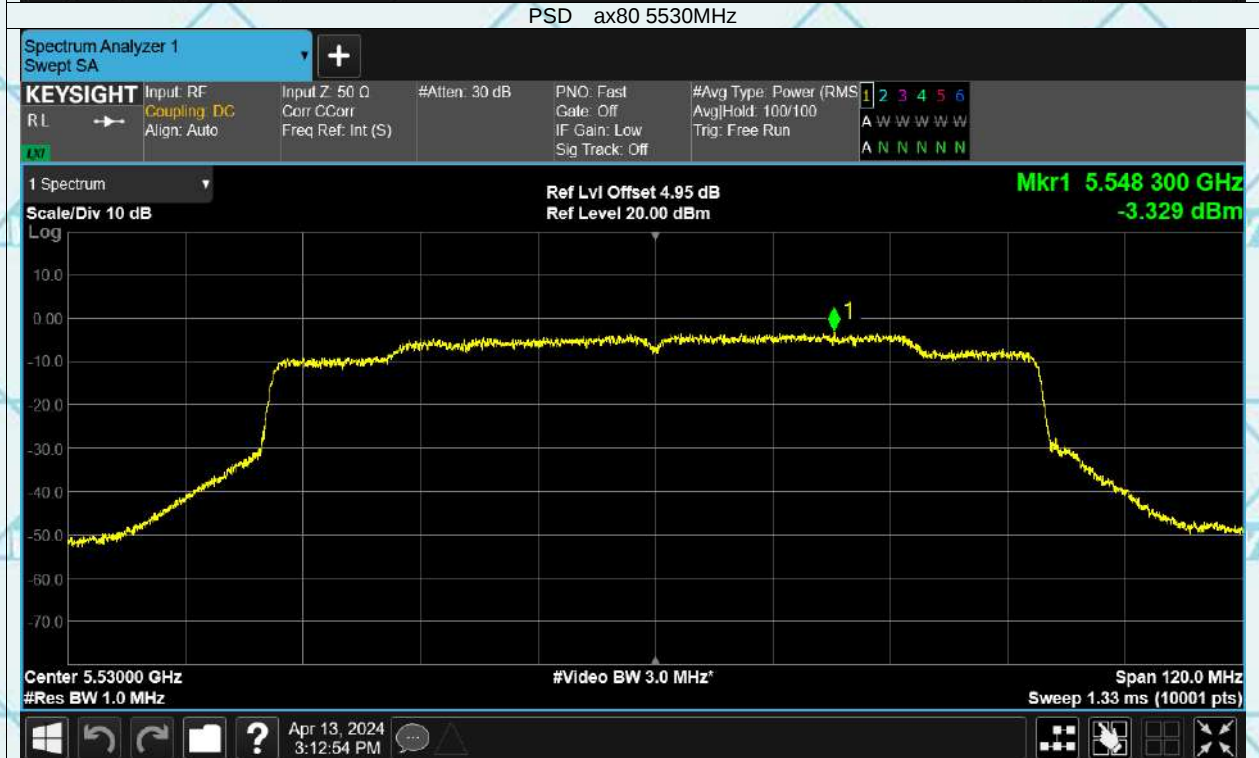




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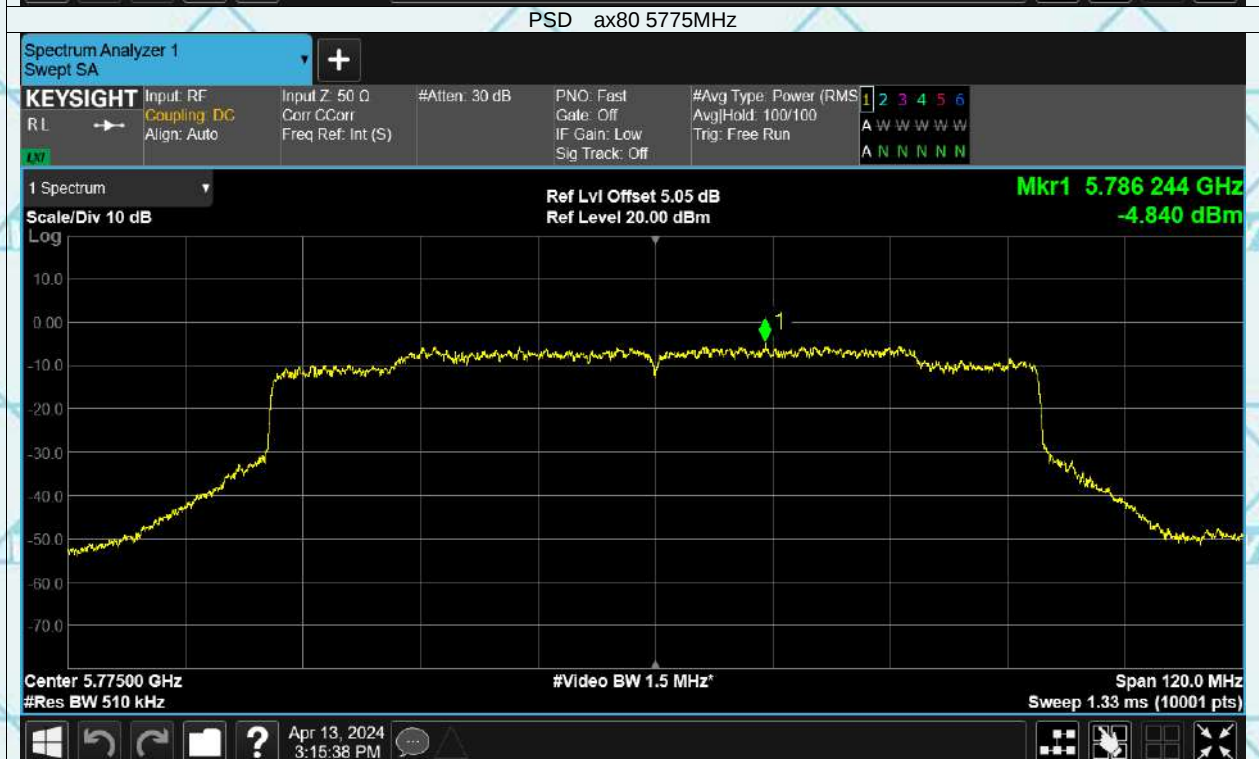
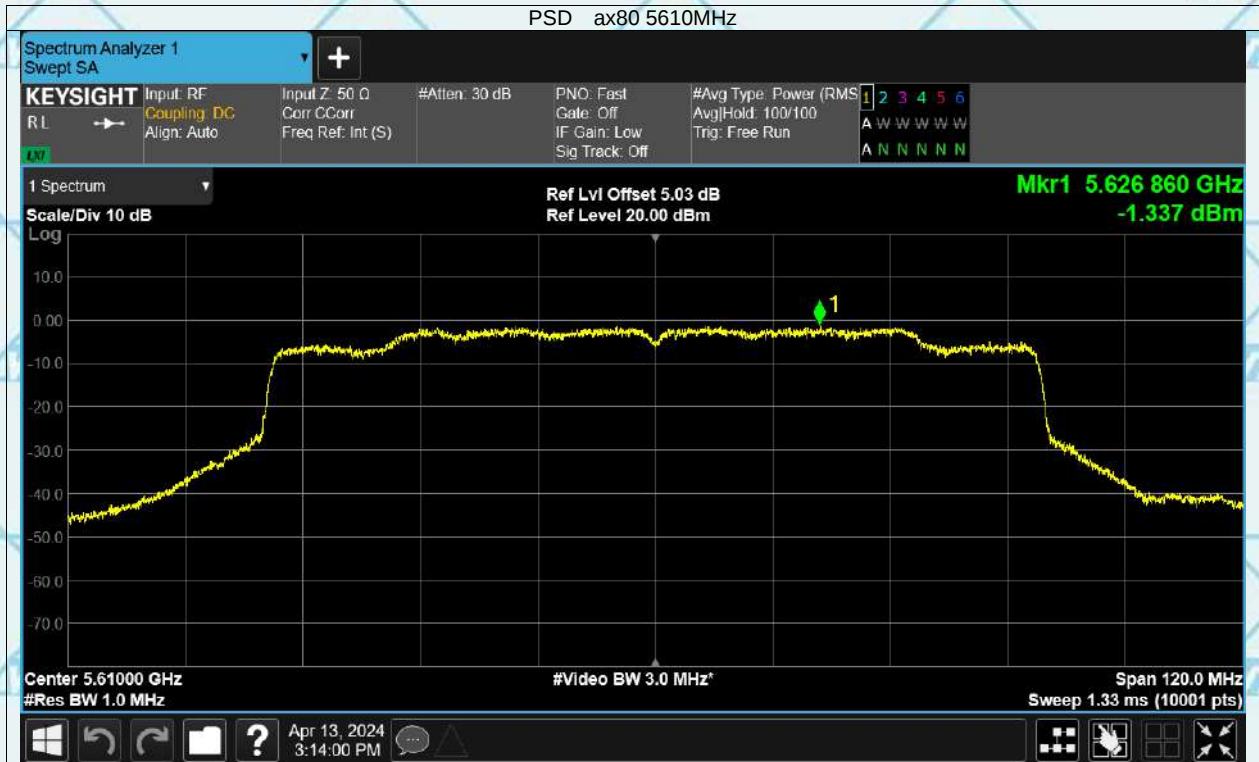




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7.7 FREQUENCY STABILITY

Product:	EUT-Sample	Test Item:	Frequency Stability
Temperature:	25 °C	Humidity:	56%RH
Test Voltage:	DC 11.61V	Test Result:	PASS

Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
a	5180	5179.96	-40000	-7.72	25	Pass
a	5240	5240	0	0	25	Pass
a	5260	5259.98	-20000	-3.8	25	Pass
a	5320	5320	0	0	25	Pass
a	5500	5499.94	-60000	-10.91	25	Pass
a	5700	5699.96	-40000	-7.02	25	Pass
a	5745	5744.96	-40000	-6.96	25	Pass
a	5825	5824.96	-40000	-6.87	25	Pass
n20	5180	5179.96	-40000	-7.72	25	Pass
n20	5240	5239.96	-40000	-7.63	25	Pass
n20	5260	5260	0	0	25	Pass
n20	5320	5319.98	-20000	-3.76	25	Pass
n20	5500	5499.94	-60000	-10.91	25	Pass
n20	5700	5699.96	-40000	-7.02	25	Pass
n20	5745	5744.98	-20000	-3.48	25	Pass
n20	5825	5824.98	-20000	-3.43	25	Pass
n40	5190	5190	0	0	25	Pass
n40	5230	5230	0	0	25	Pass
n40	5270	5270	0	0	25	Pass
n40	5310	5309.96	-40000	-7.53	25	Pass
n40	5510	5509.96	-40000	-7.26	25	Pass
n40	5670	5669.92	-80000	-14.11	25	Pass
n40	5755	5755	0	0	25	Pass
n40	5795	5794.96	-40000	-6.9	25	Pass
ac20	5180	5179.94	-60000	-11.58	25	Pass
ac20	5240	5239.98	-20000	-3.82	25	Pass
ac20	5260	5259.98	-20000	-3.8	25	Pass
ac20	5320	5319.96	-40000	-7.52	25	Pass
ac20	5500	5499.98	-20000	-3.64	25	Pass
ac20	5700	5699.96	-40000	-7.02	25	Pass
ac20	5745	5744.96	-40000	-6.96	25	Pass
ac20	5825	5824.96	-40000	-6.87	25	Pass
ac40	5190	5190	0	0	25	Pass
ac40	5230	5230	0	0	25	Pass
ac40	5270	5270	0	0	25	Pass
ac40	5310	5310	0	0	25	Pass
ac40	5510	5509.96	-40000	-7.26	25	Pass
ac40	5670	5669.92	-80000	-14.11	25	Pass
ac40	5755	5754.96	-40000	-6.95	25	Pass
ac40	5795	5795	0	0	25	Pass
ac80	5210	5210	0	0	25	Pass
ac80	5290	5290	0	0	25	Pass
ac80	5530	5530.07	70000	12.66	25	Pass
ac80	5610	5609.92	-80000	-14.26	25	Pass
ac80	5775	5775	0	0	25	Pass
ax160	5250	5250	0	0	25	Pass
ax160	5570	5570	0	0	25	Pass
ax20	5180	5179.96	-40000	-7.72	25	Pass
ax20	5240	5239.96	-40000	-7.63	25	Pass
ax20	5260	5259.96	-40000	-7.6	25	Pass
ax20	5320	5319.98	-20000	-3.76	25	Pass
ax20	5500	5499.98	-20000	-3.64	25	Pass
ax20	5700	5699.96	-40000	-7.02	25	Pass
ax20	5745	5744.96	-40000	-6.96	25	Pass
ax20	5825	5824.98	-20000	-3.43	25	Pass
ax40	5190	5189.96	-40000	-7.71	25	Pass
ax40	5230	5230	0	0	25	Pass
ax40	5270	5269.96	-40000	-7.59	25	Pass
ax40	5310	5310	0	0	25	Pass



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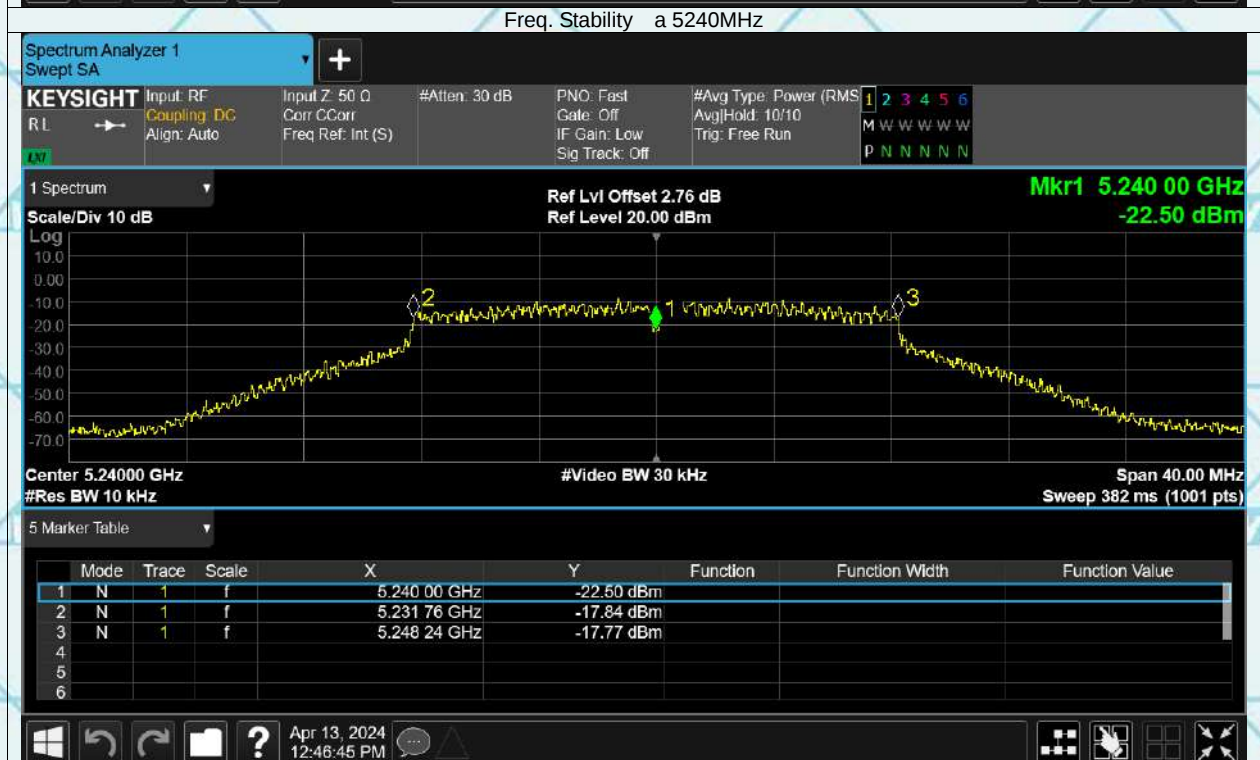
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ax40	5755	5754.96	-40000	-6.95	25	Pass
ax40	5795	5794.96	-40000	-6.9	25	Pass
ax80	5210	5210	0	0	25	Pass
ax80	5290	5289.92	-80000	-15.12	25	Pass
ax80	5530	5530	0	0	25	Pass
ax80	5610	5610.08	80000	14.26	25	Pass
ax80	5775	5775	0	0	25	Pass





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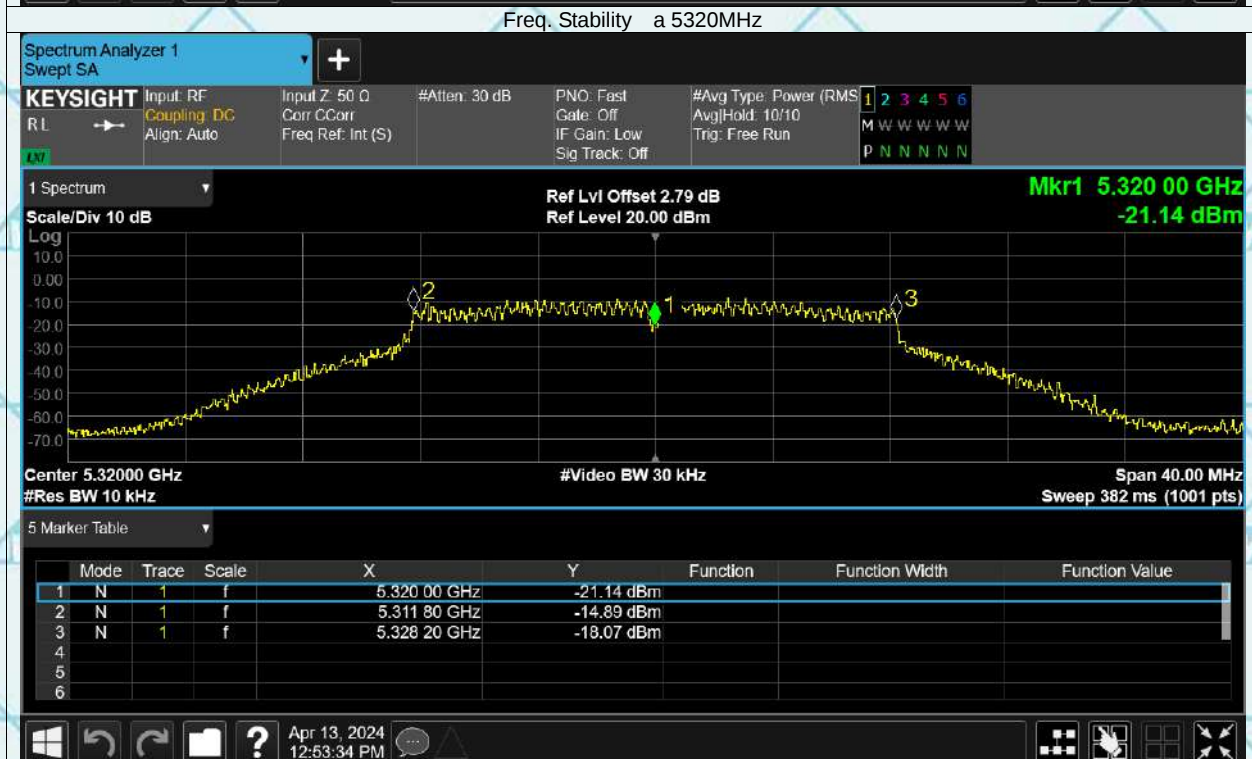
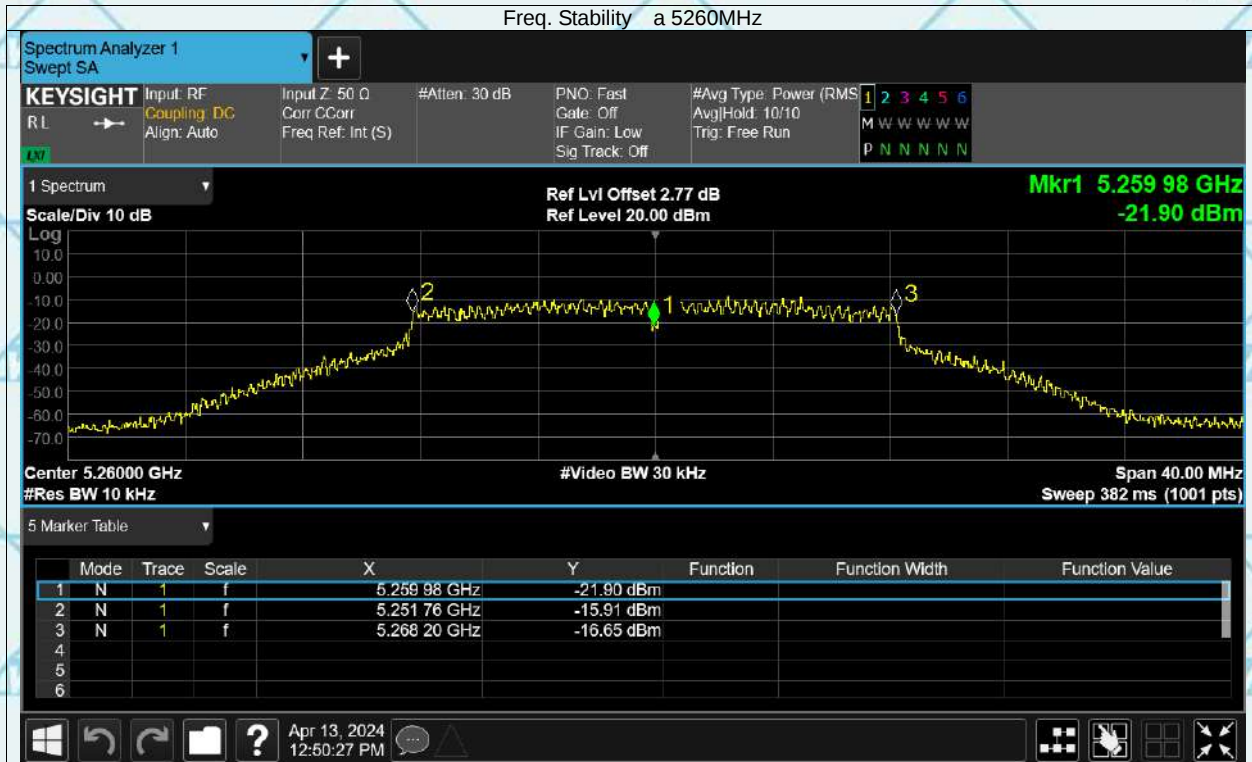
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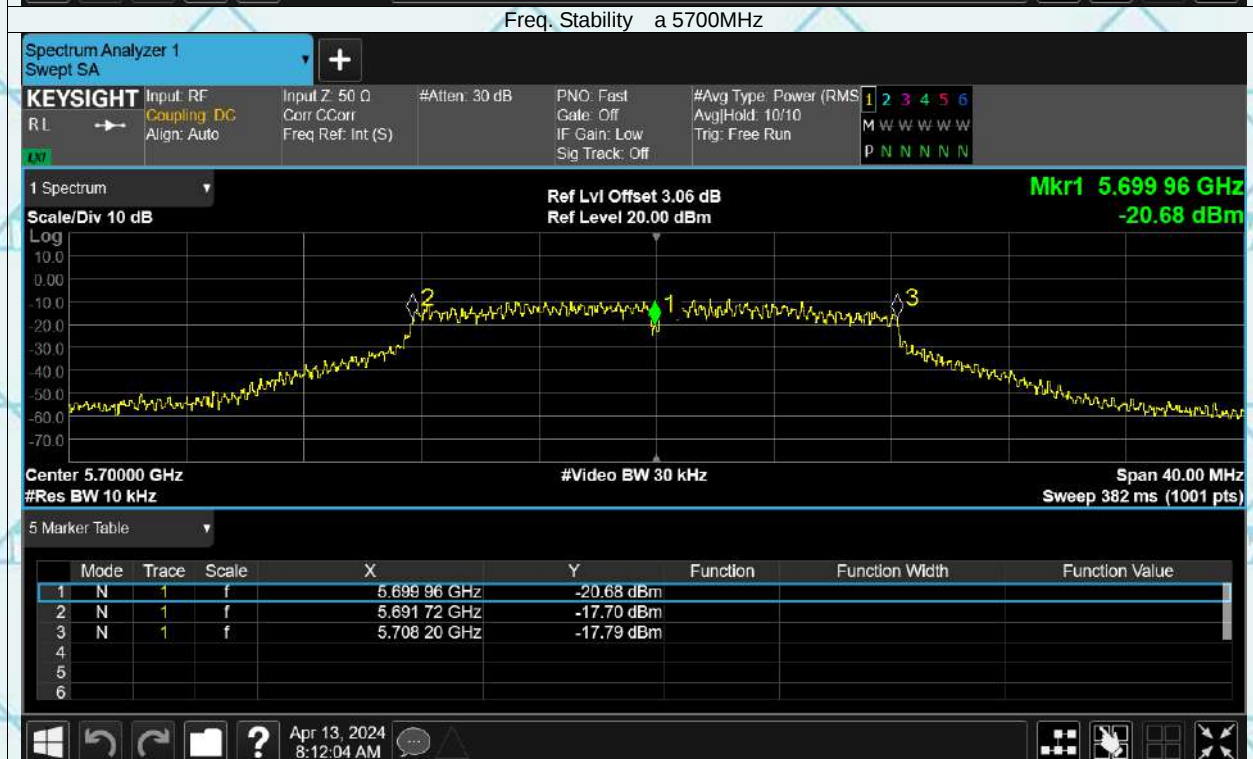
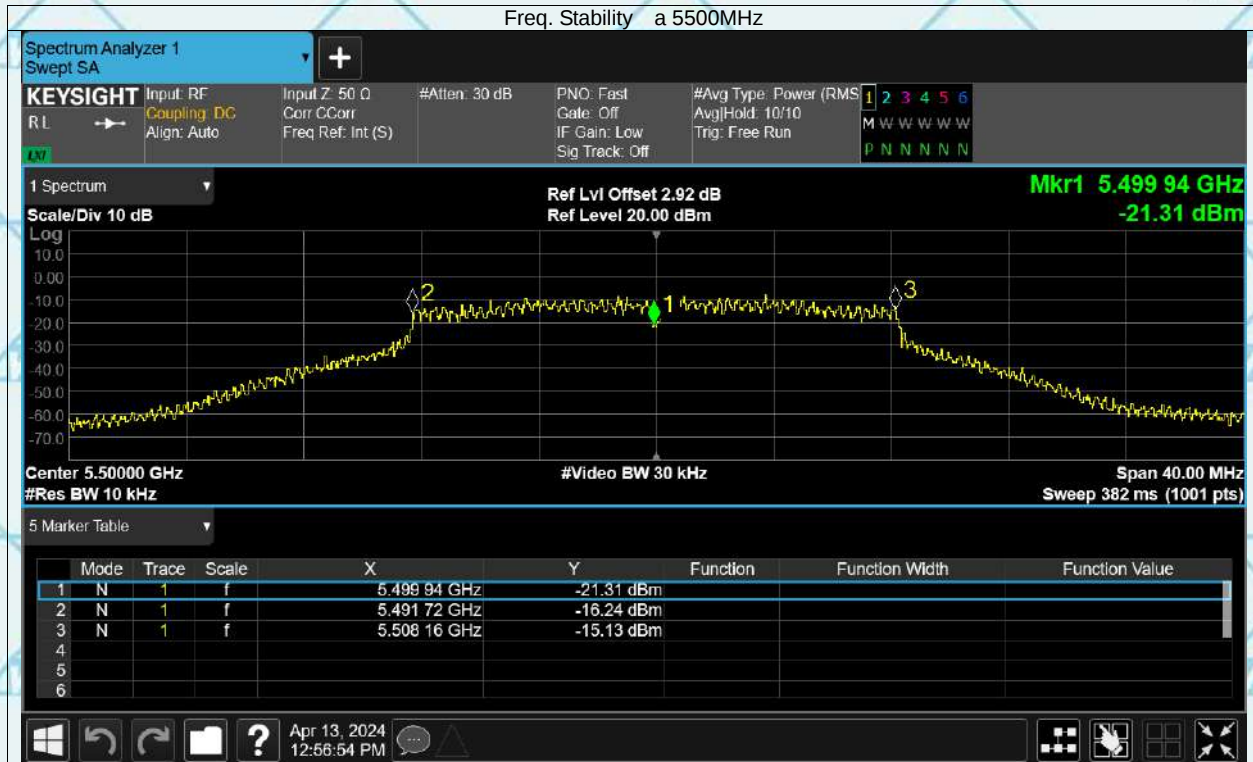
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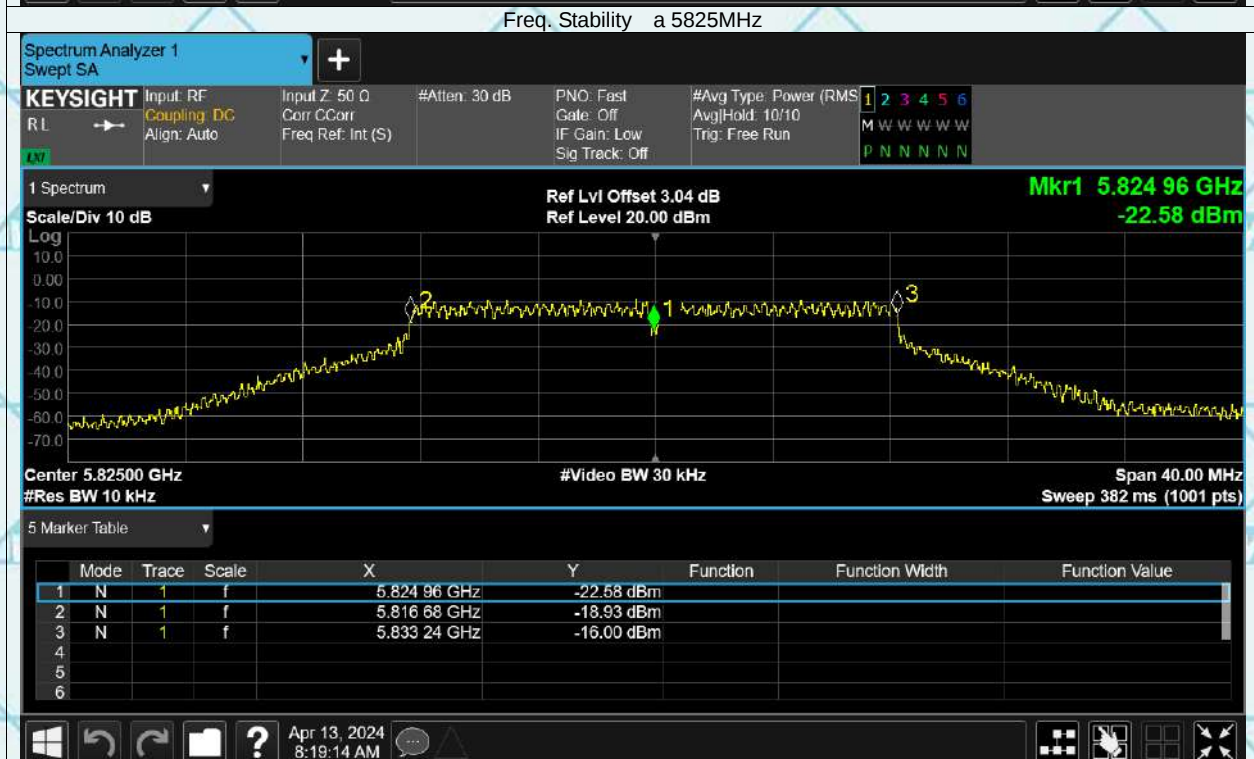
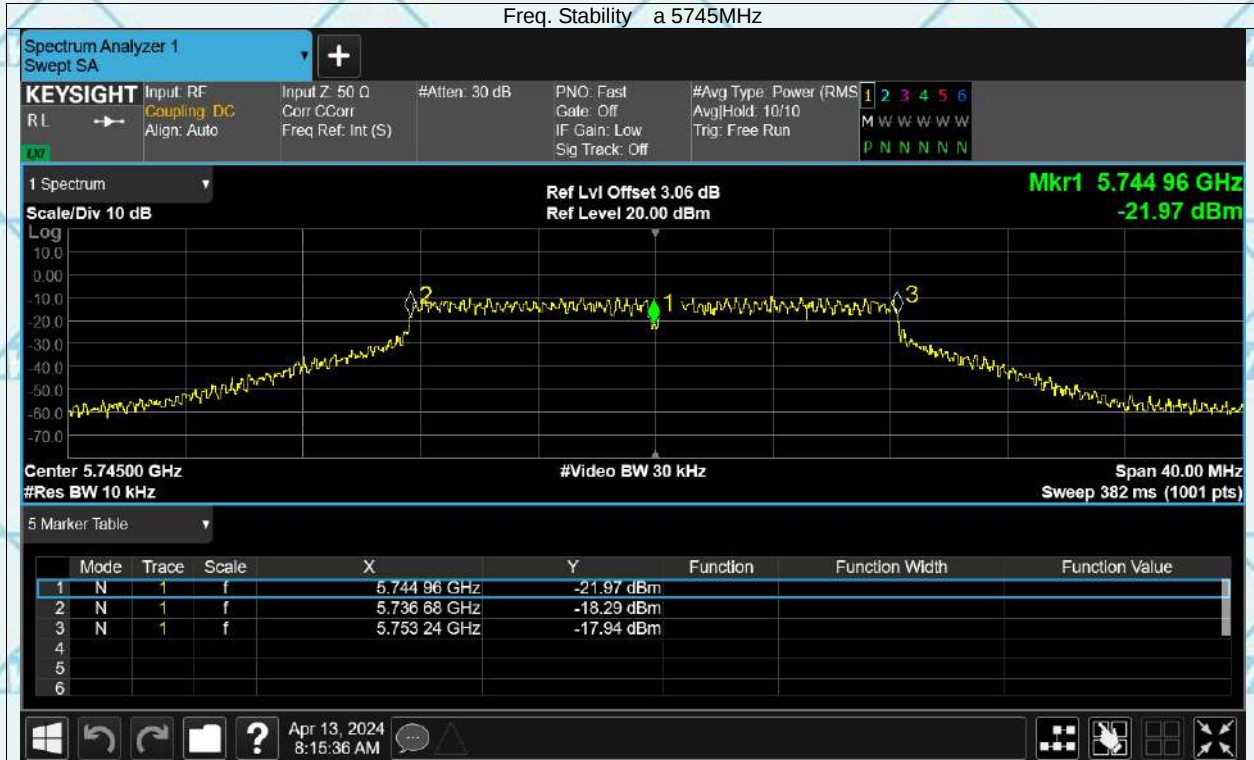
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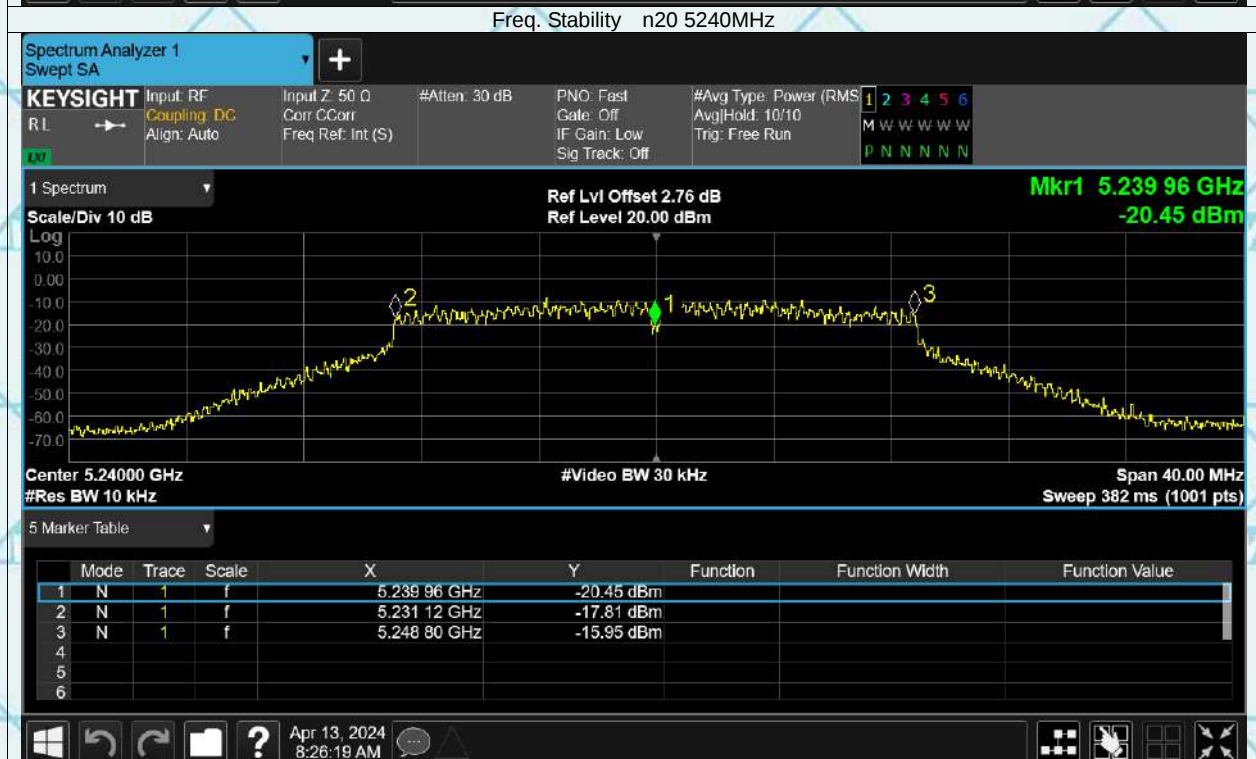
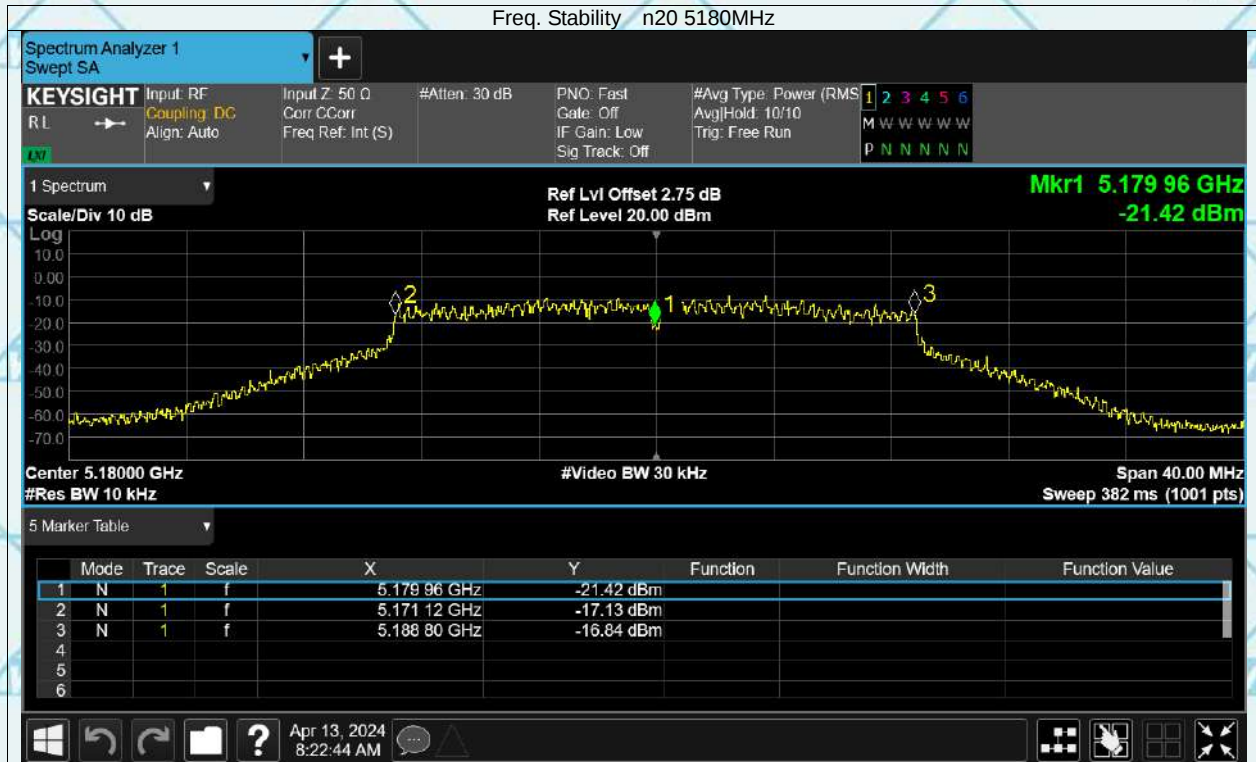
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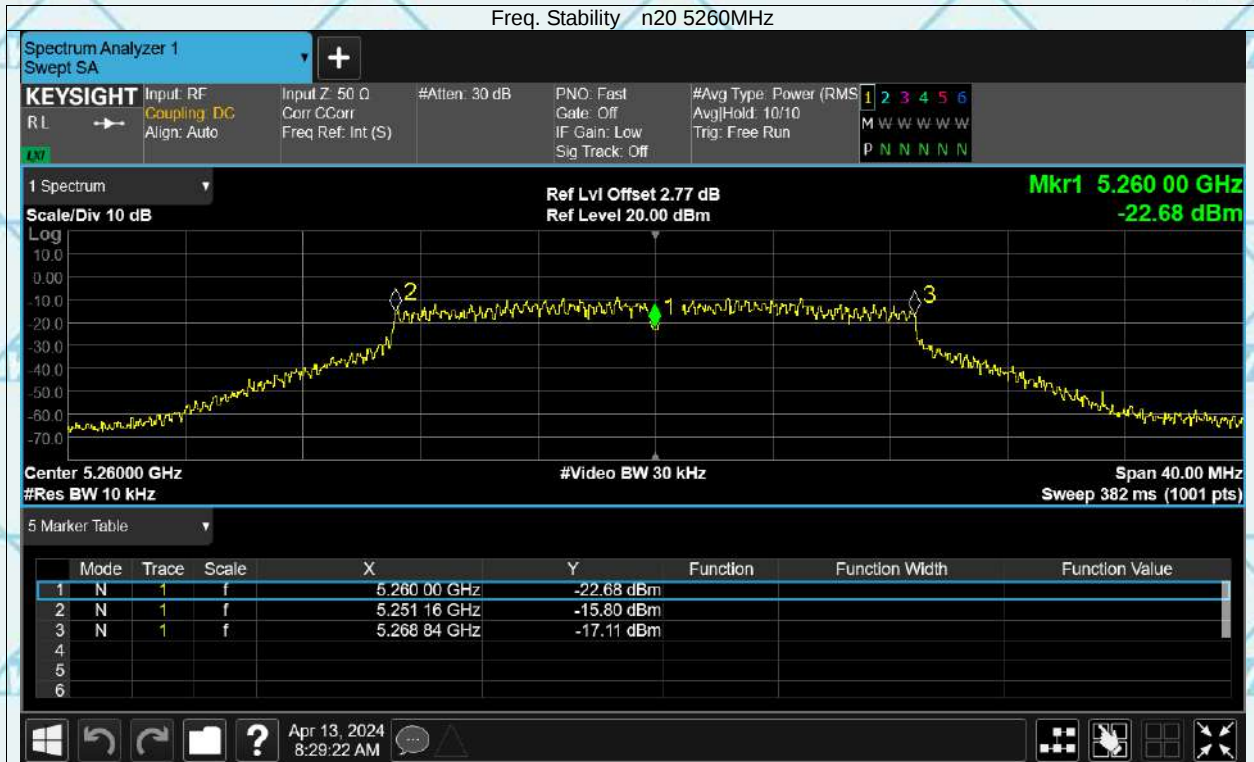
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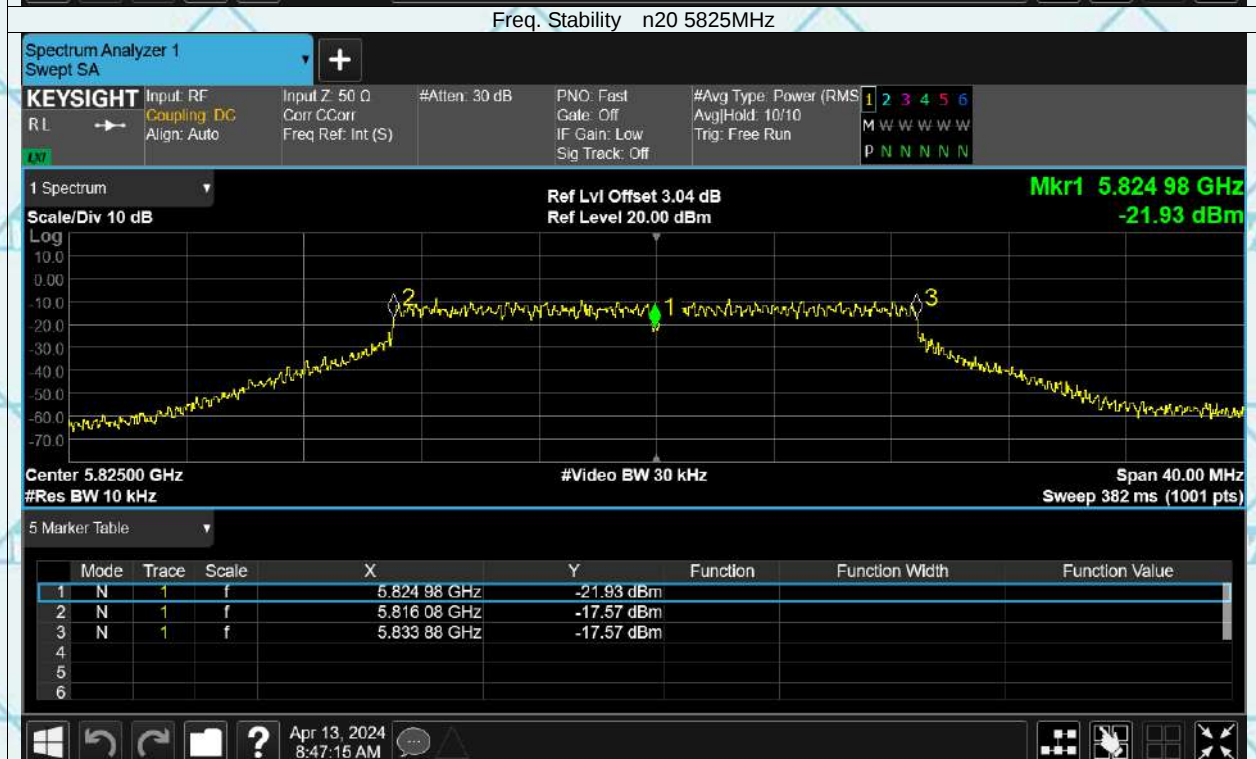
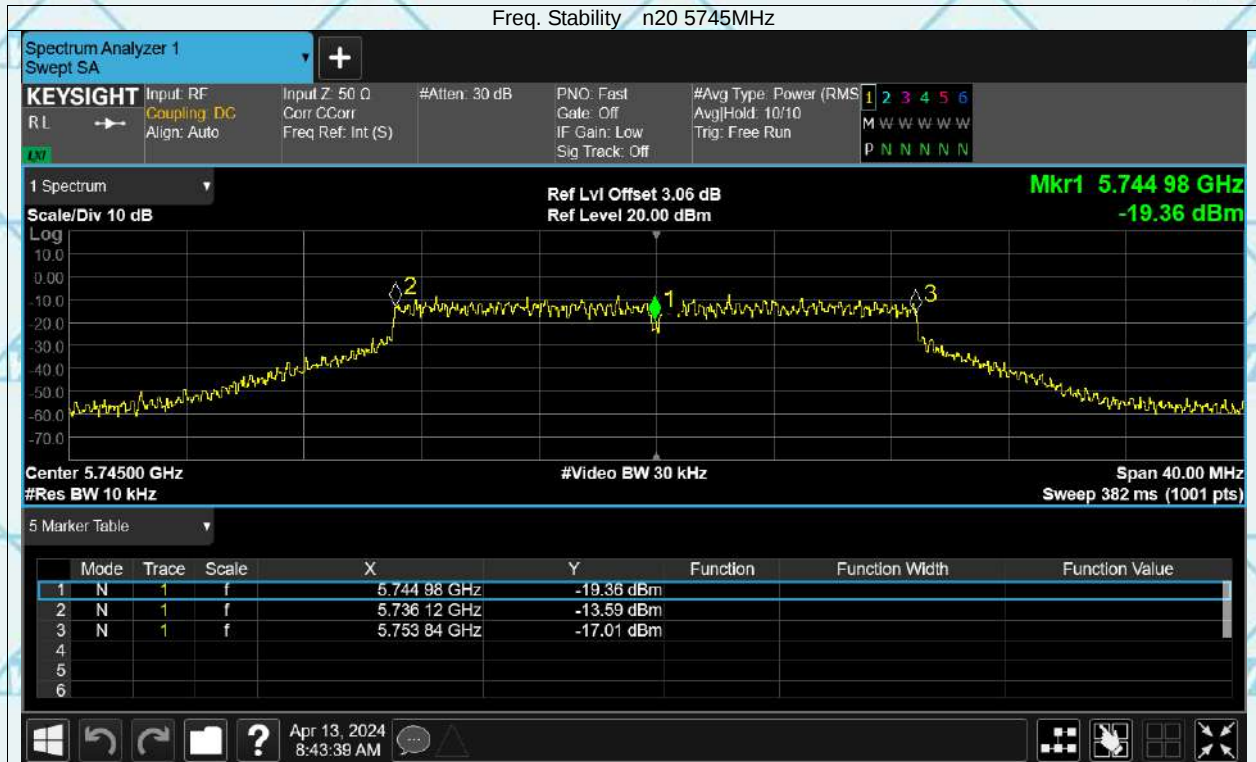
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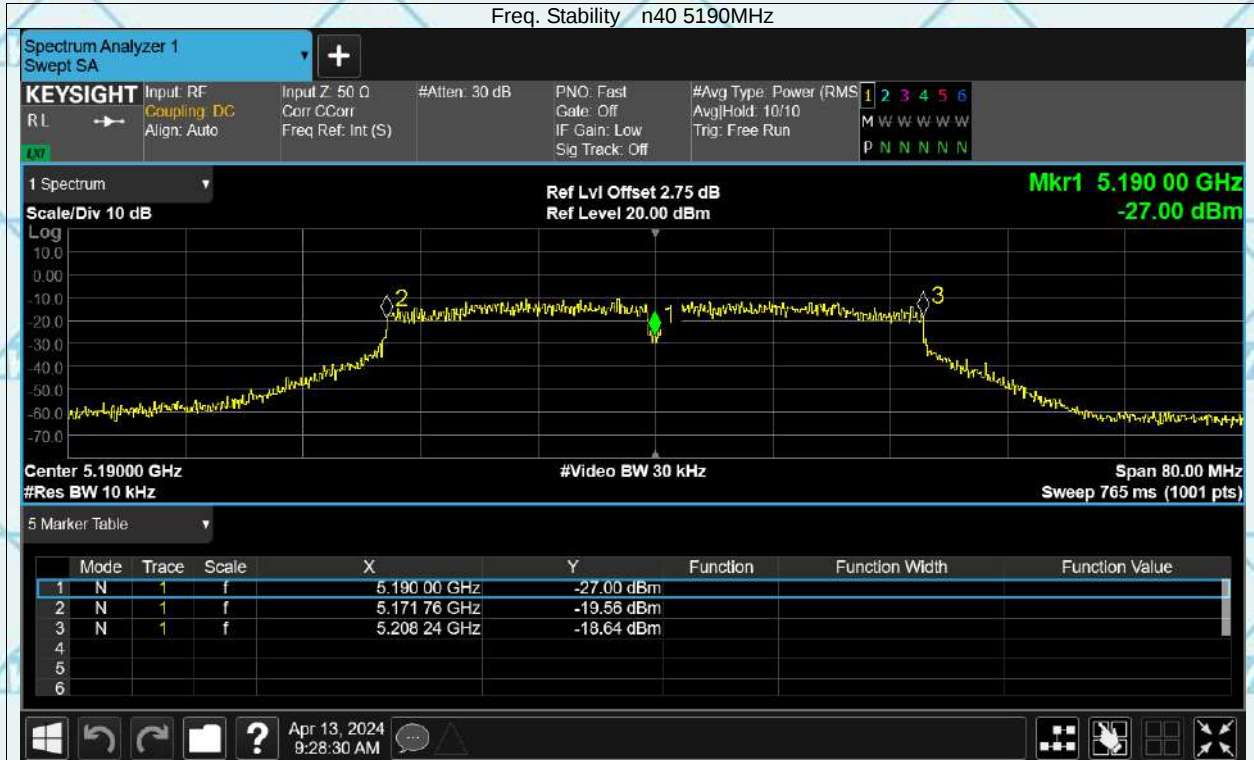
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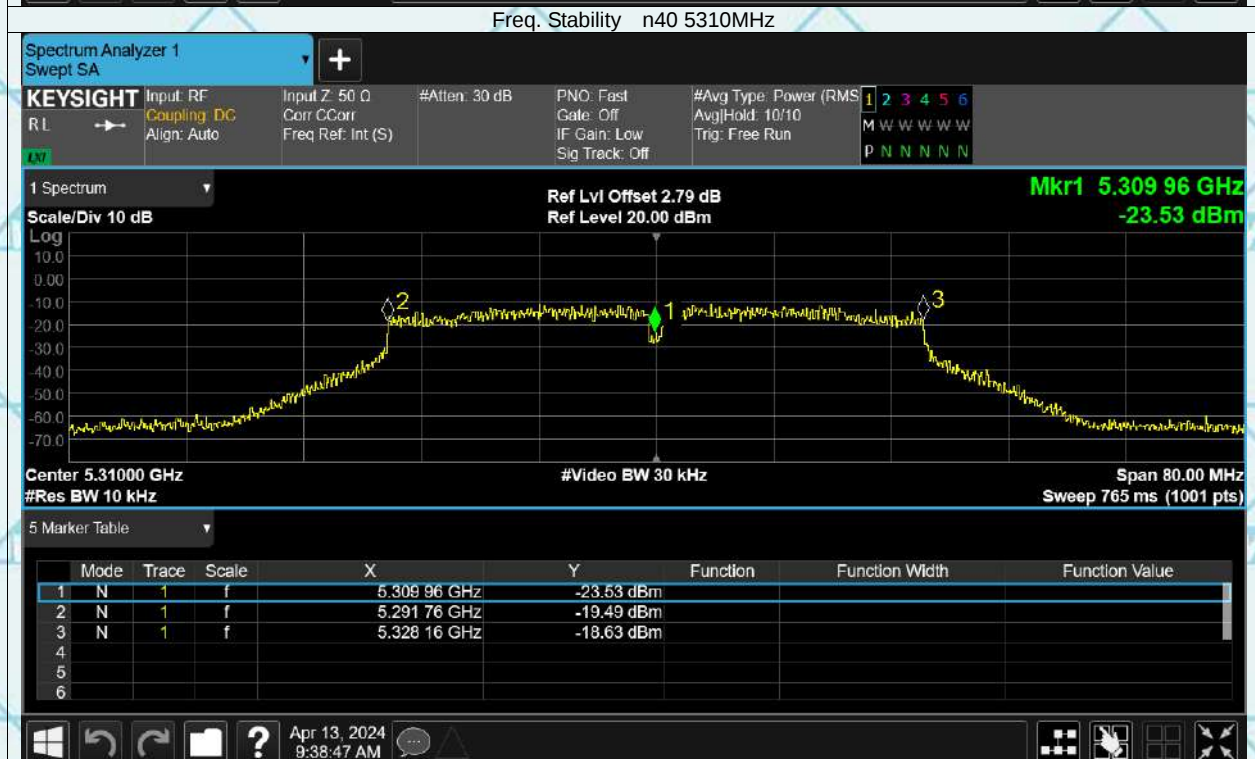
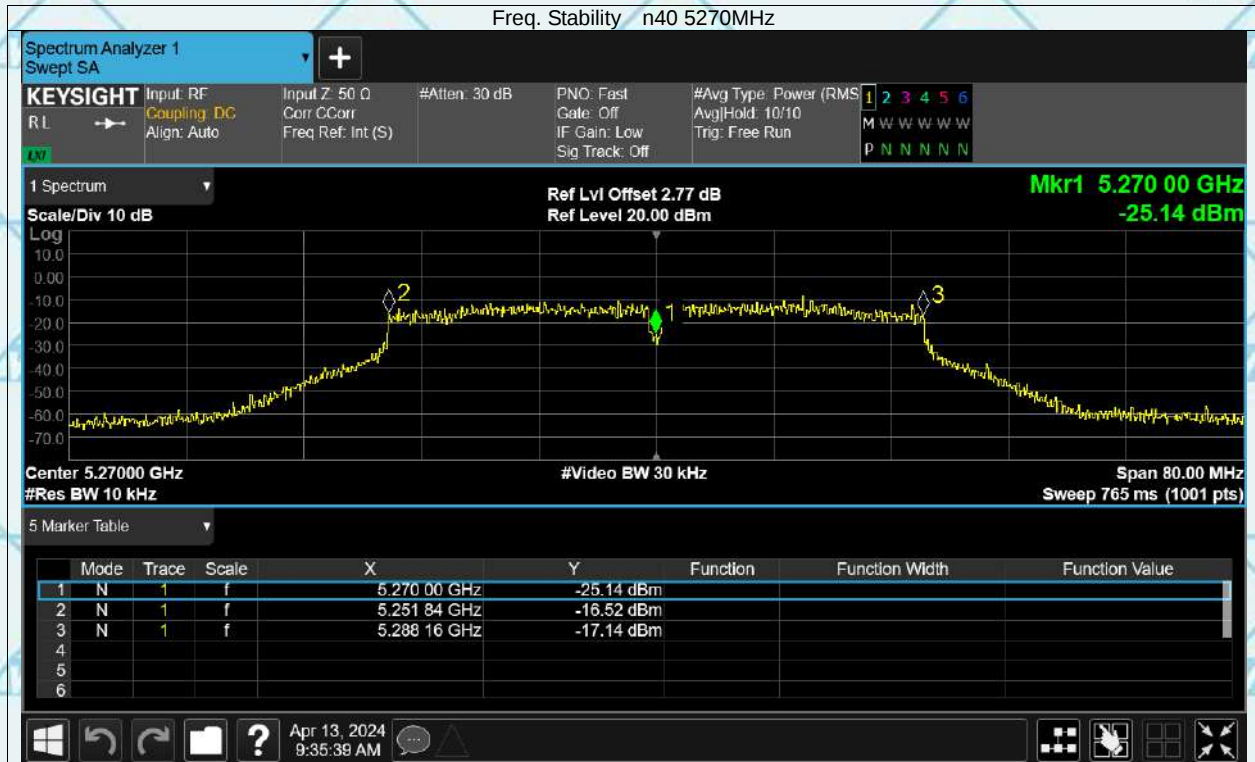
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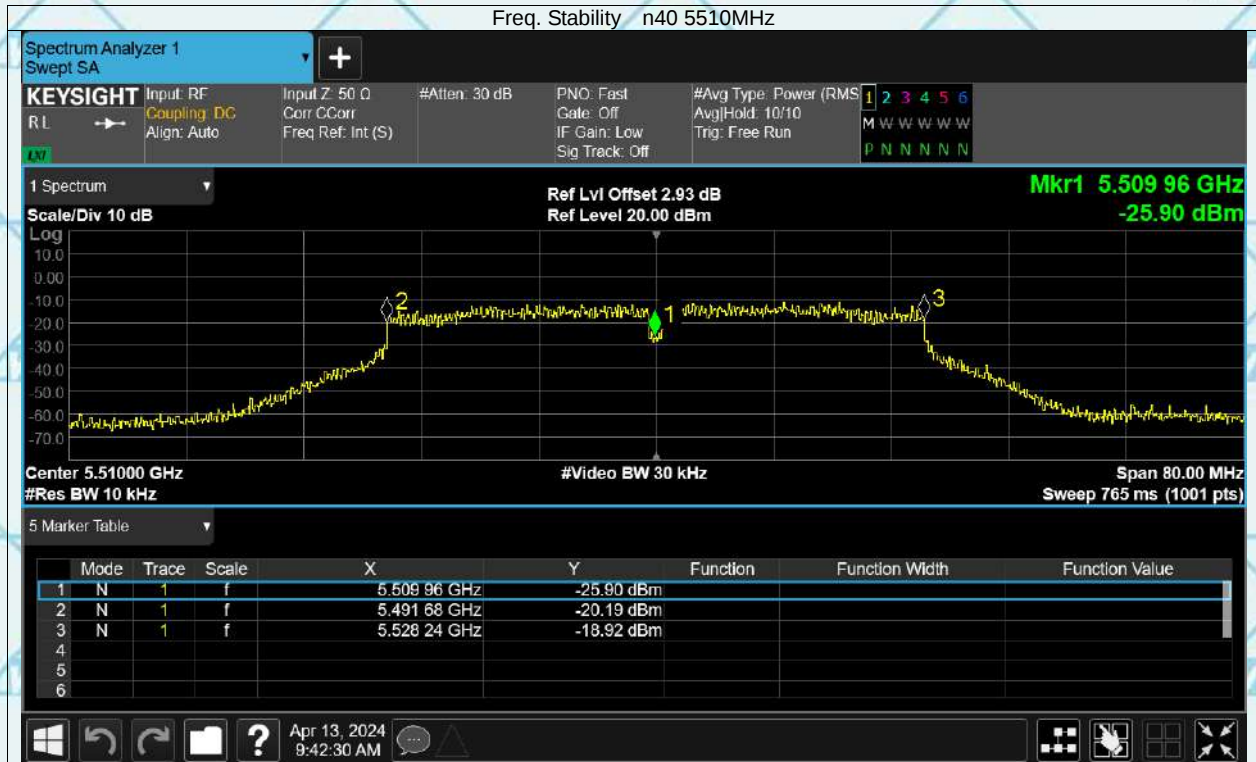
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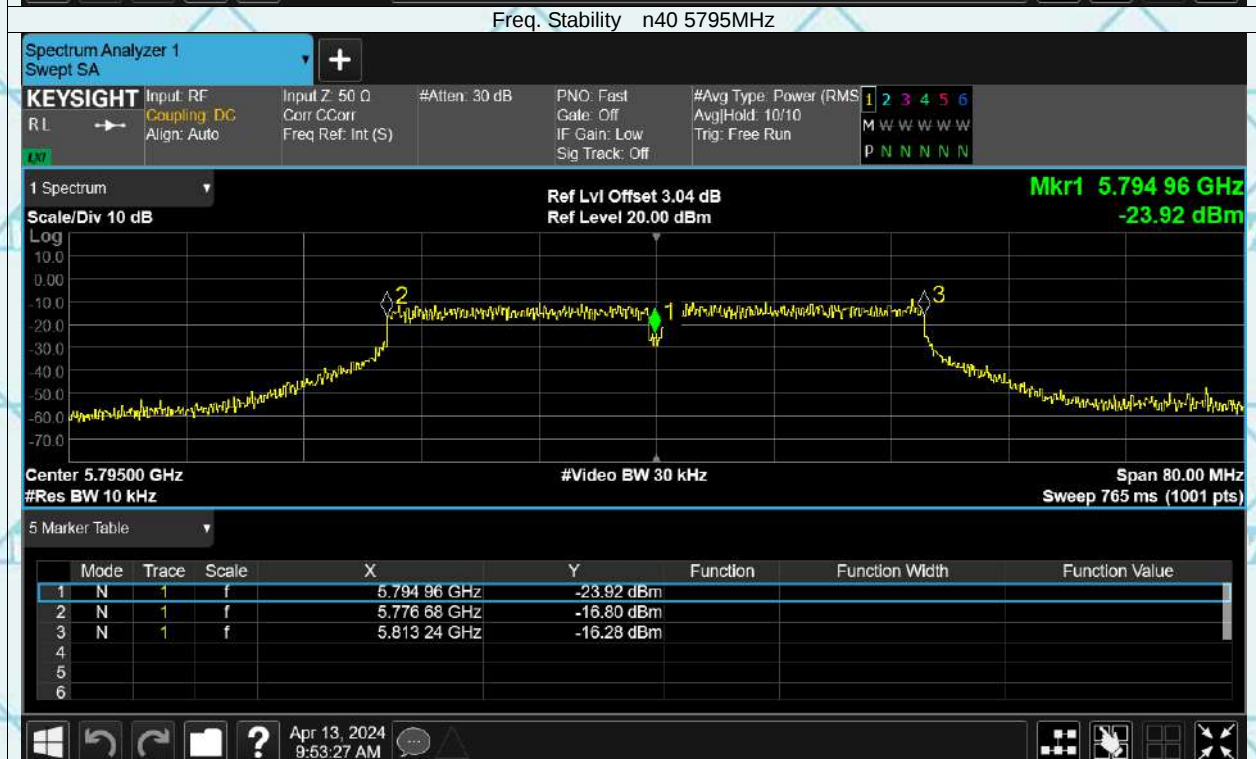
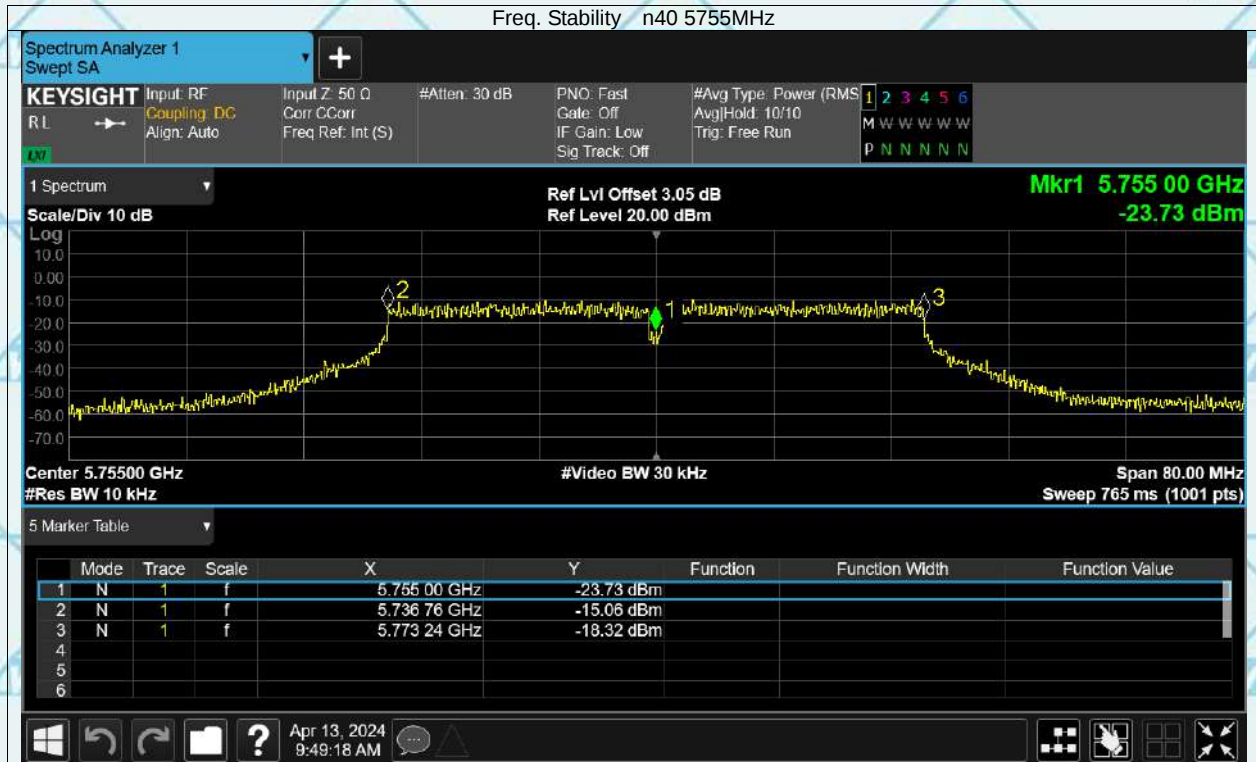
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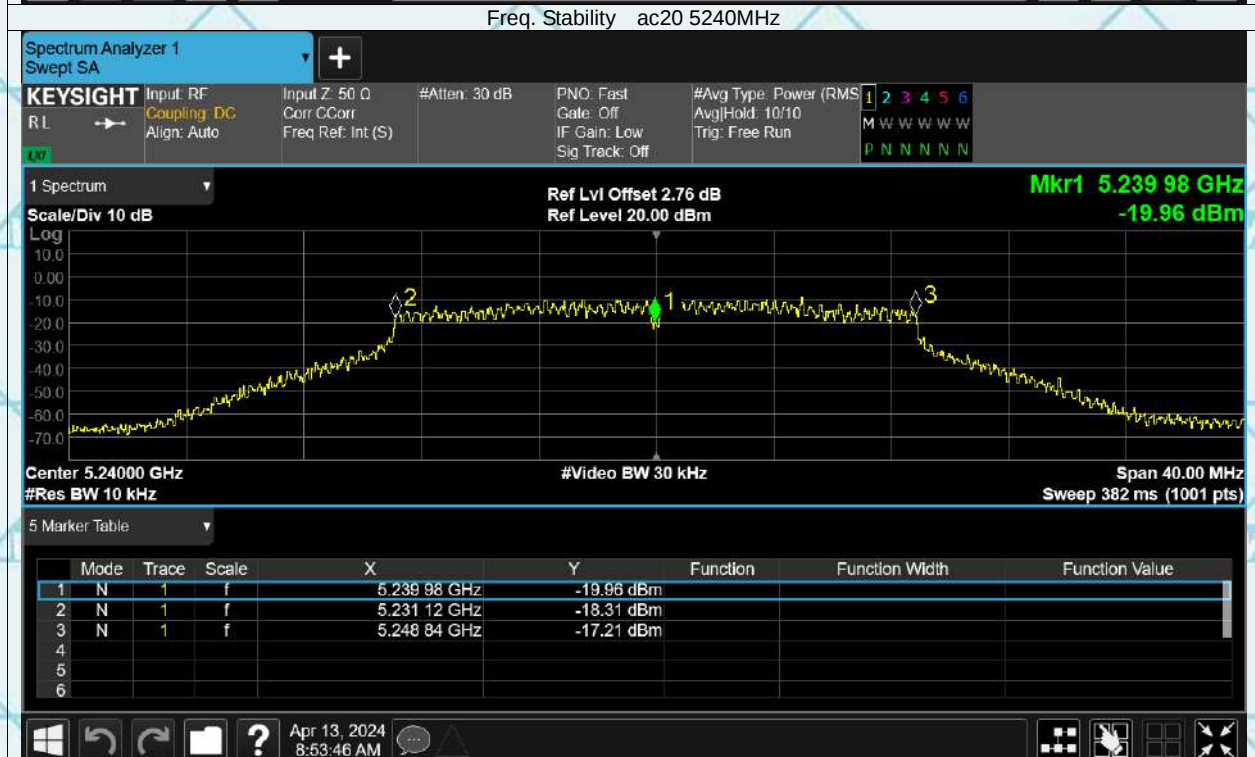
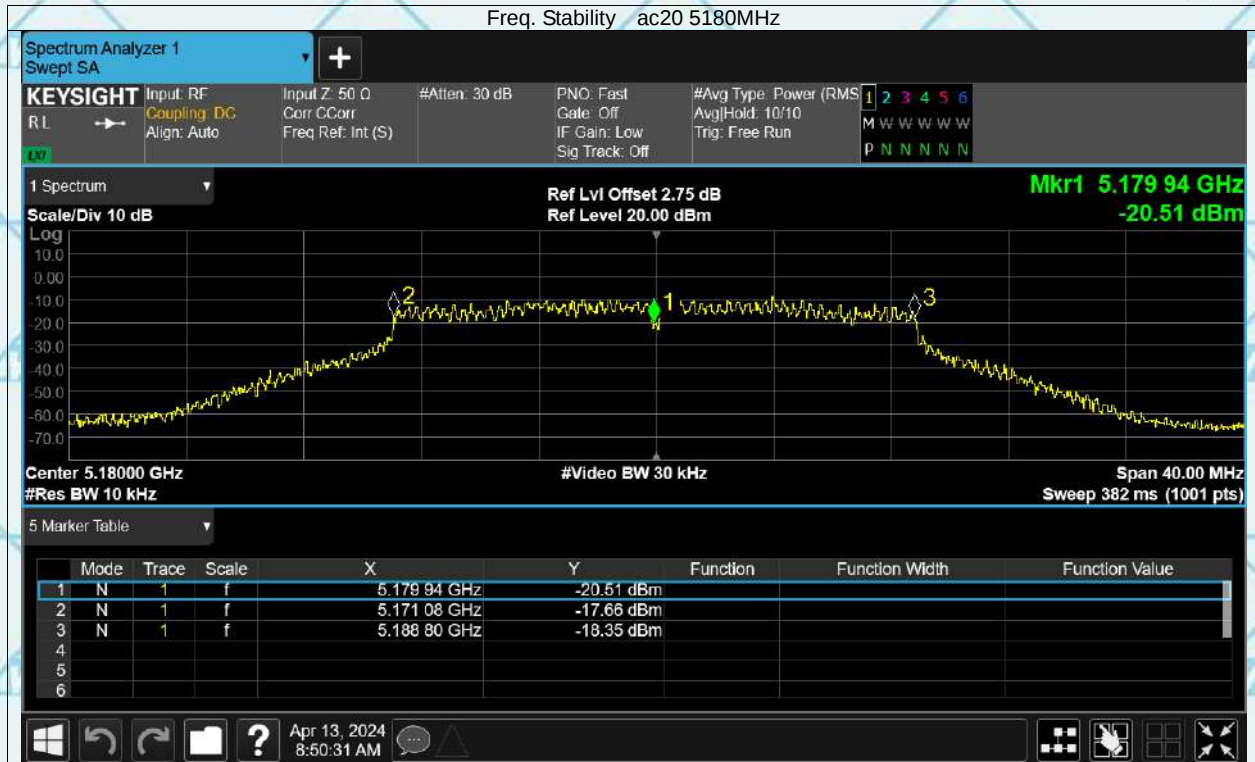
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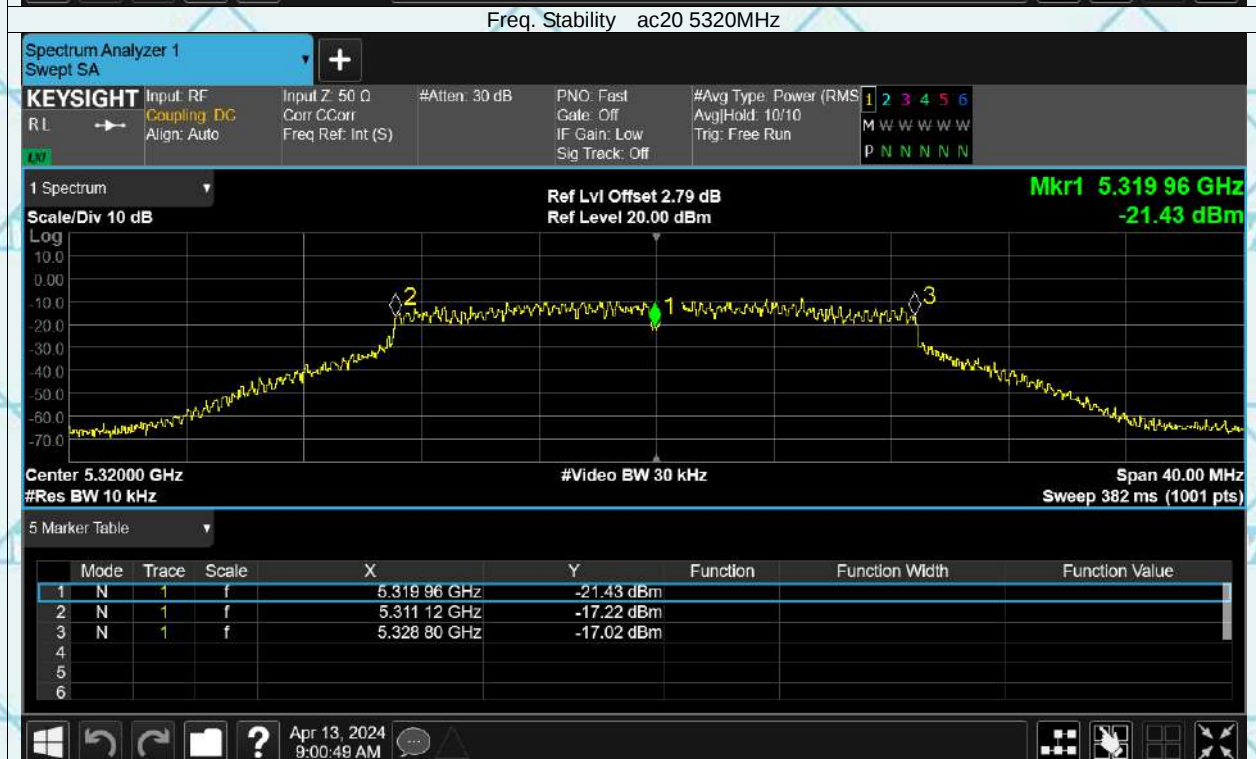
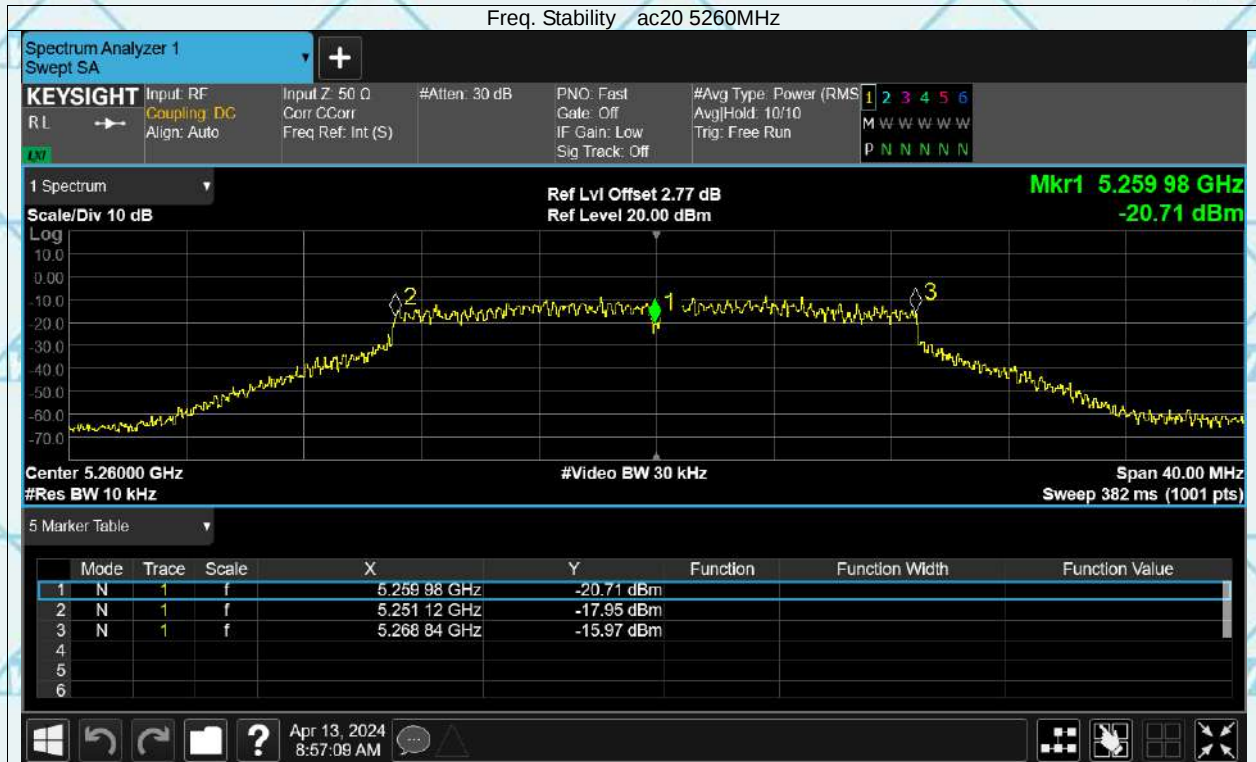
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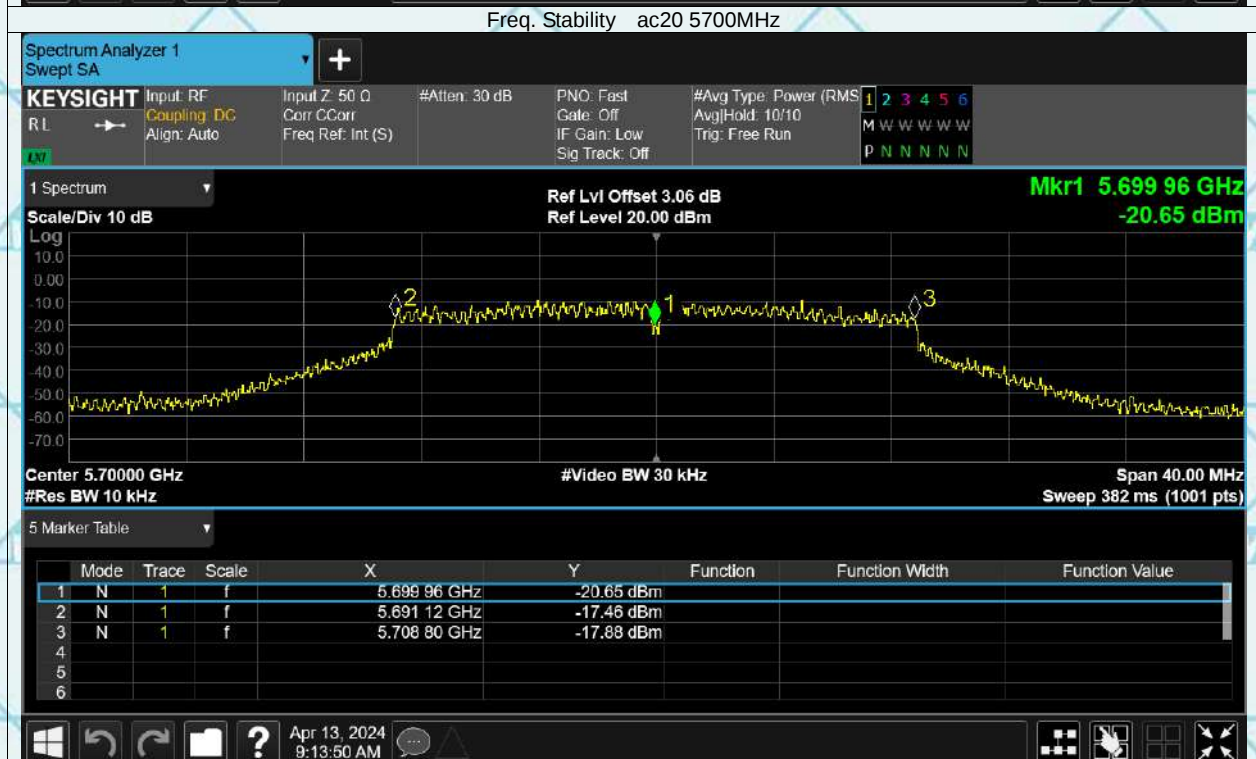
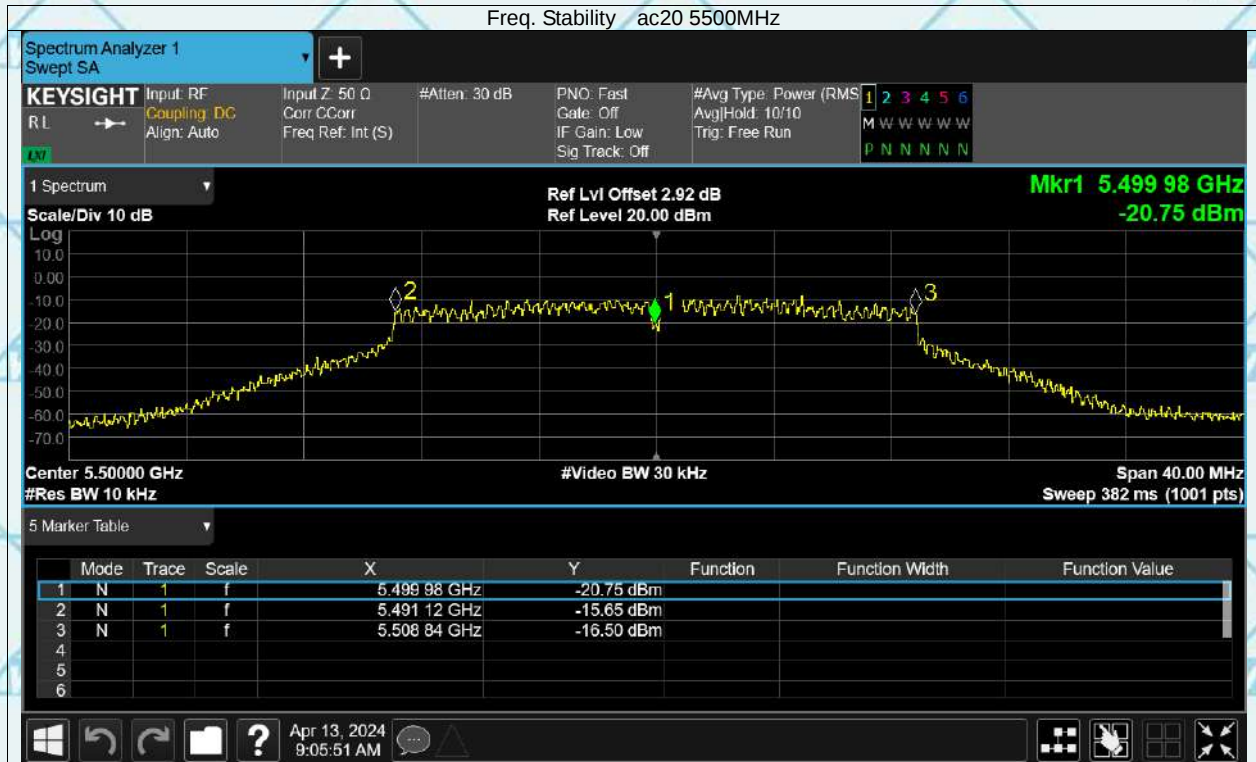
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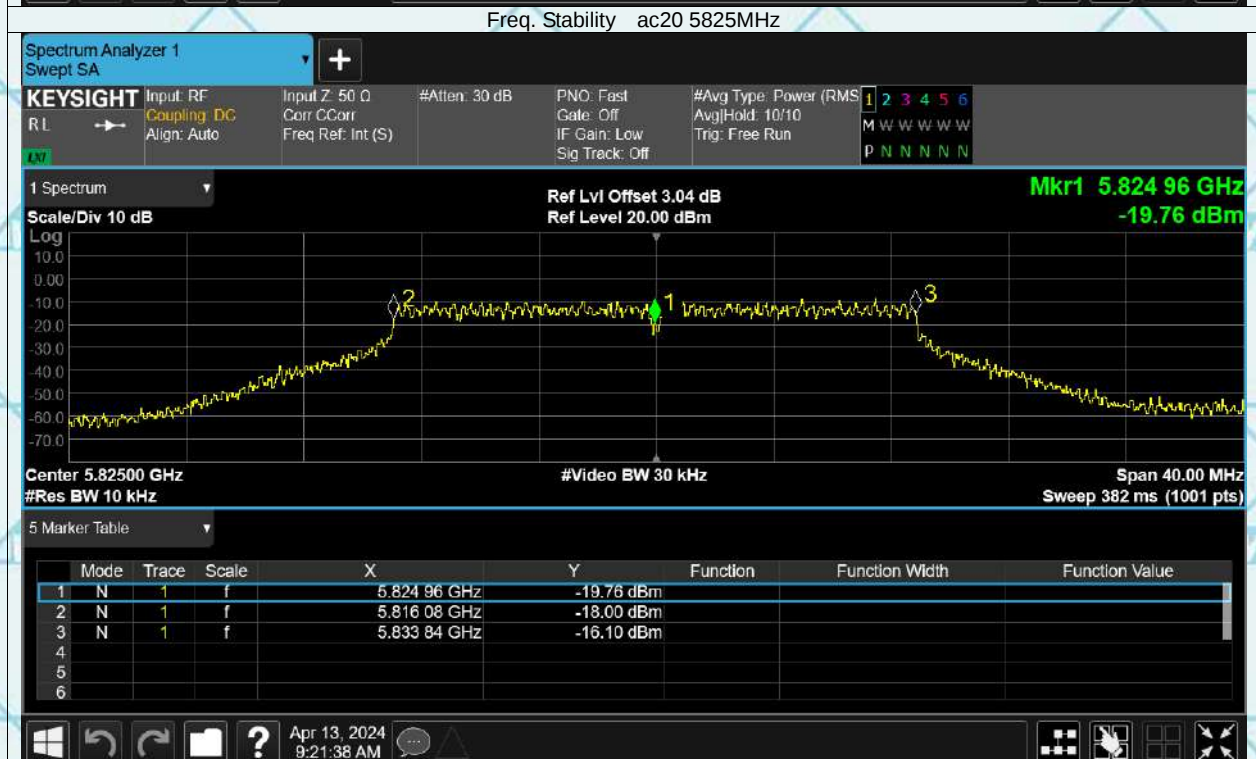
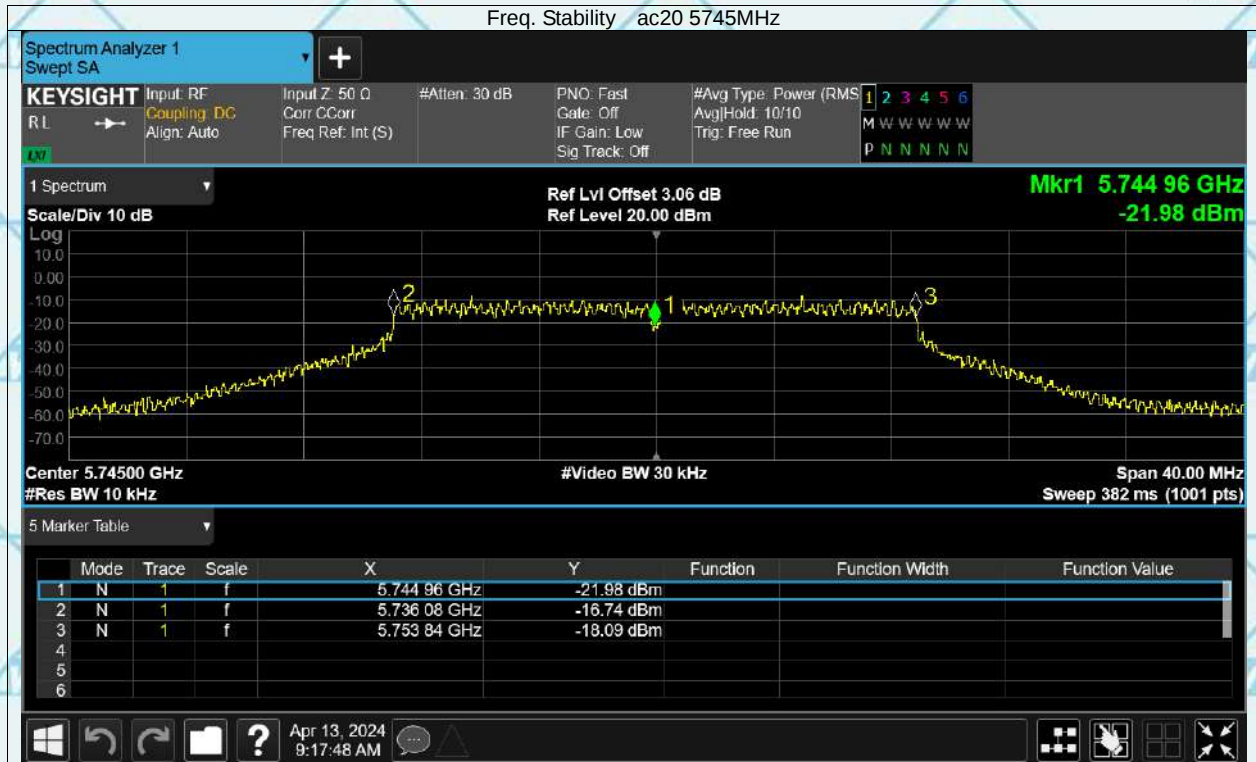
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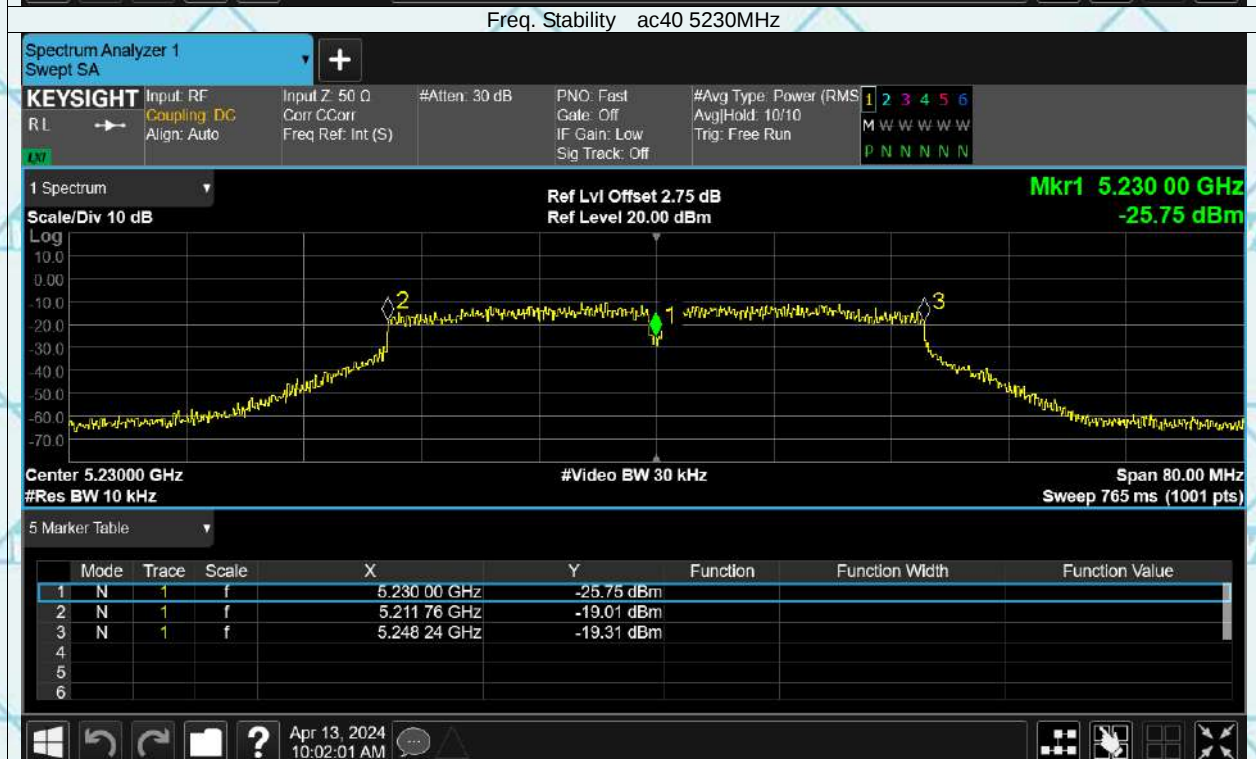
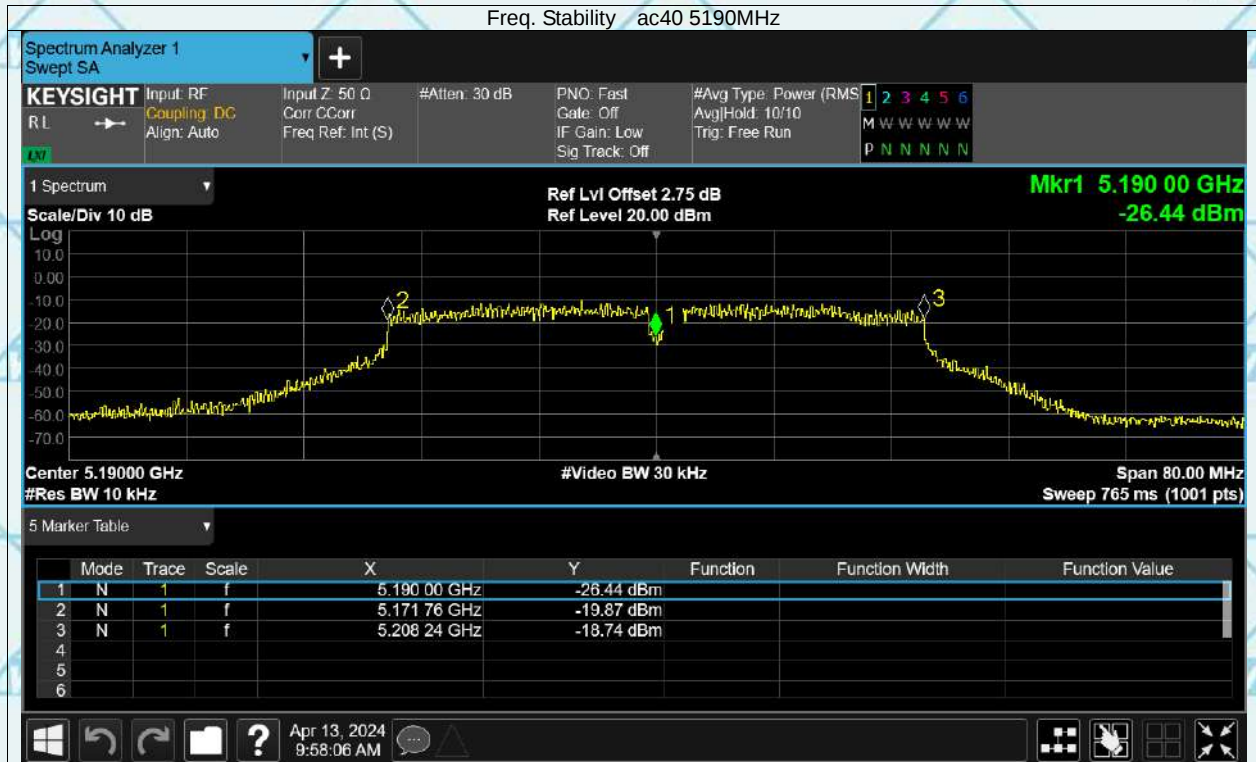
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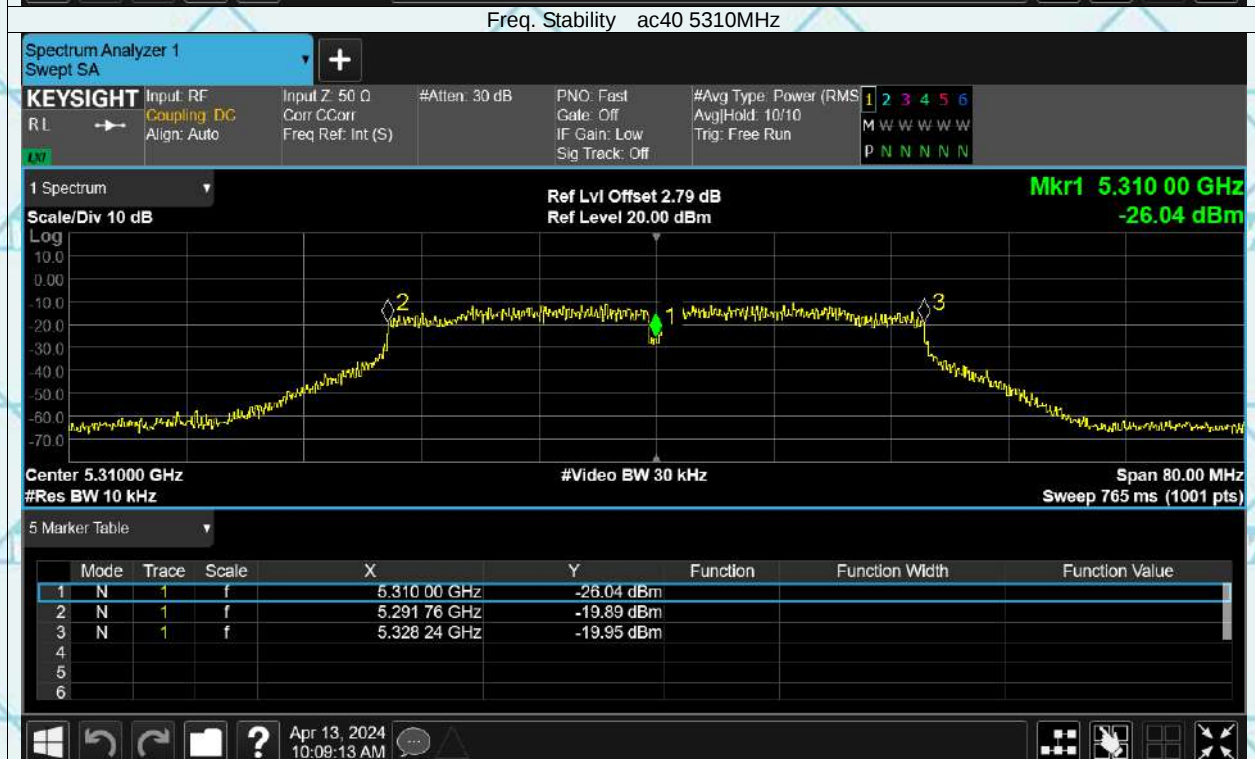
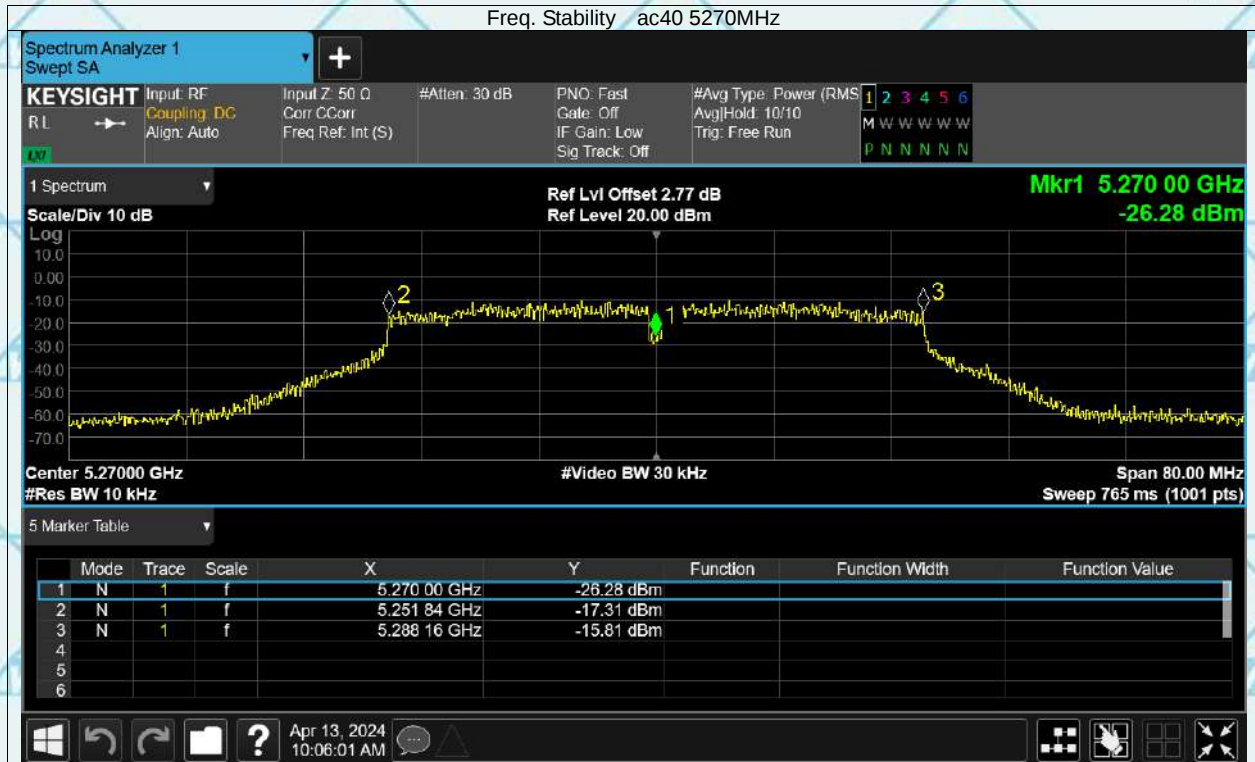
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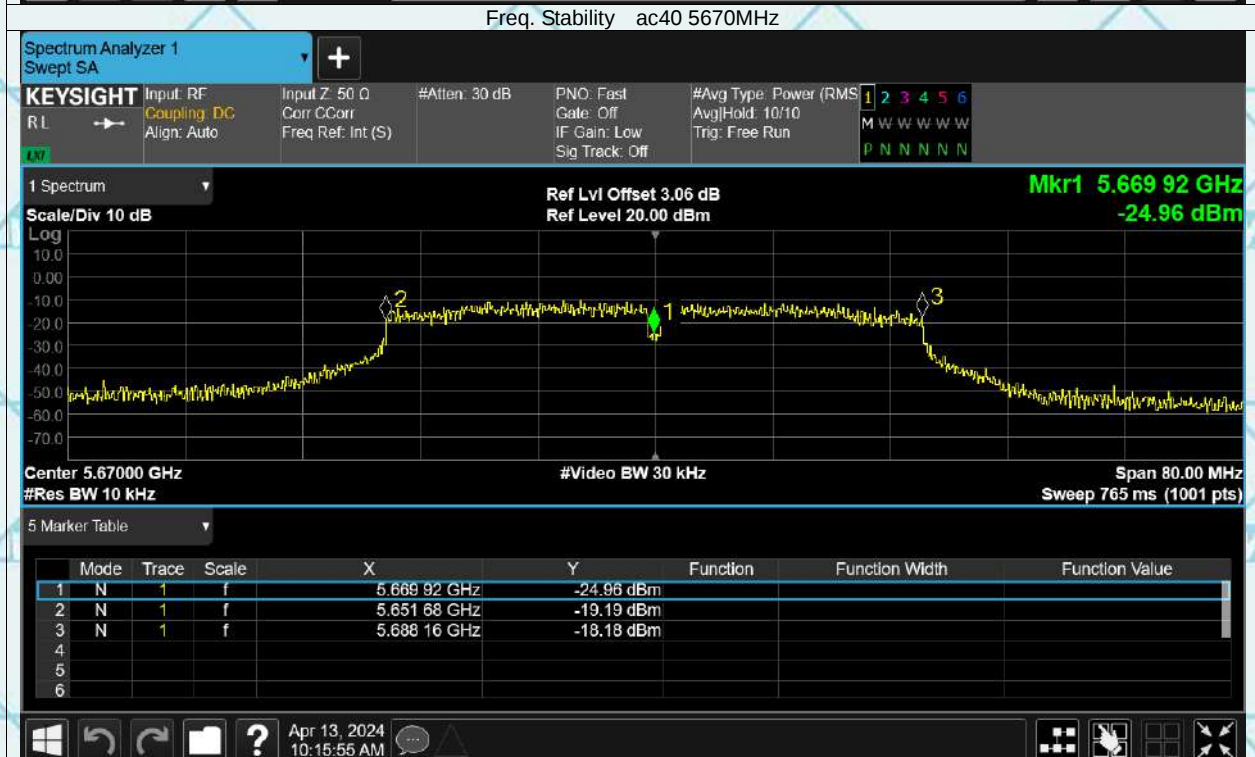
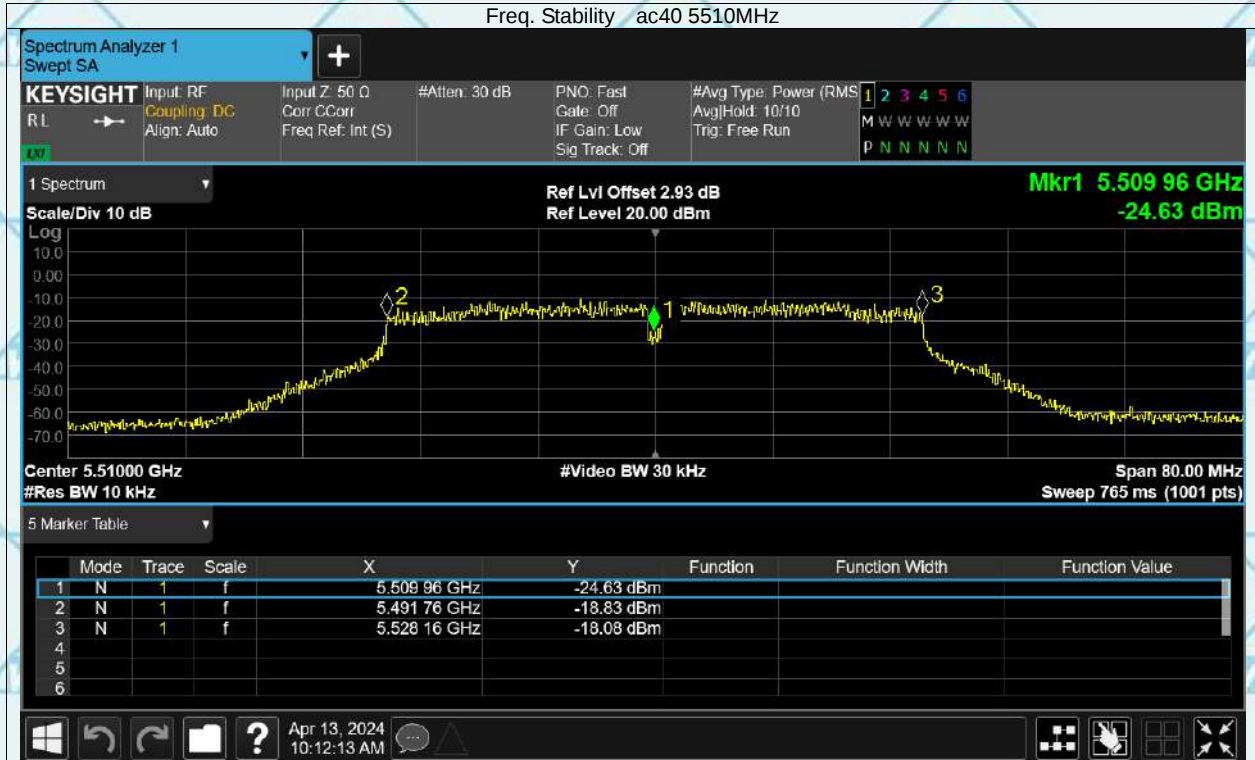
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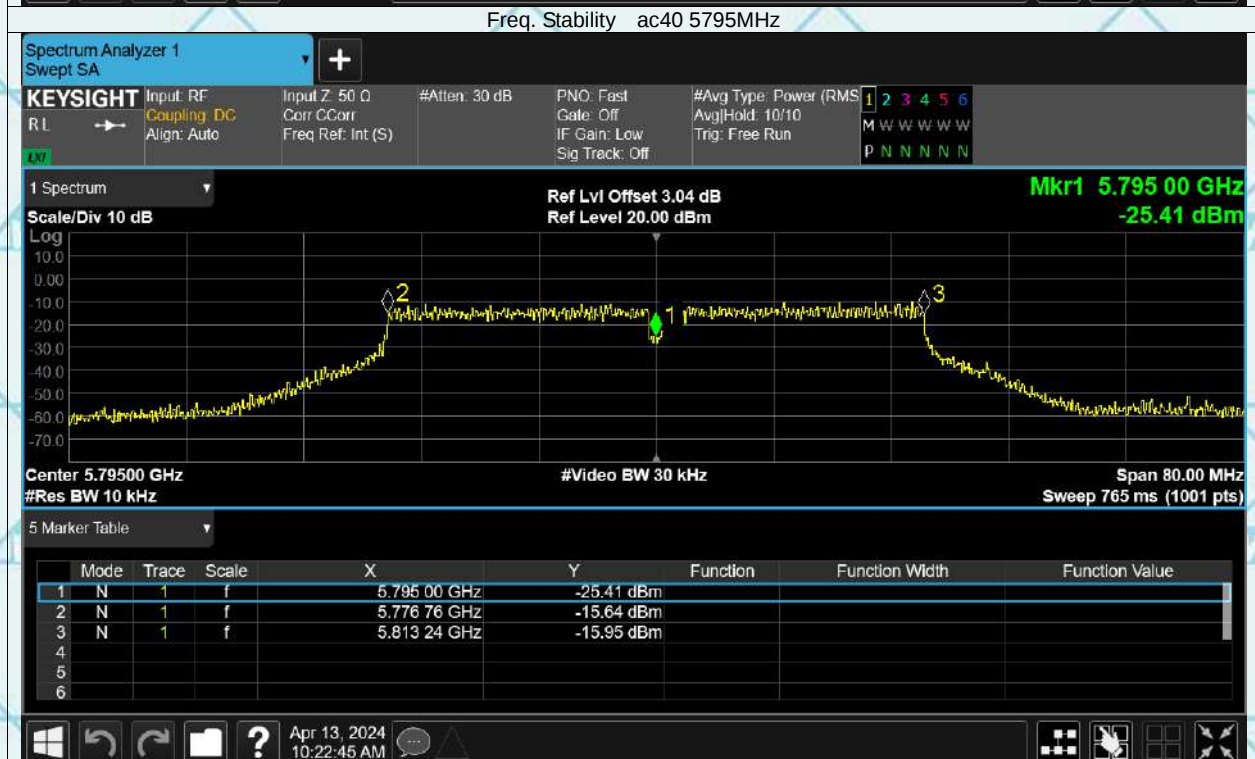
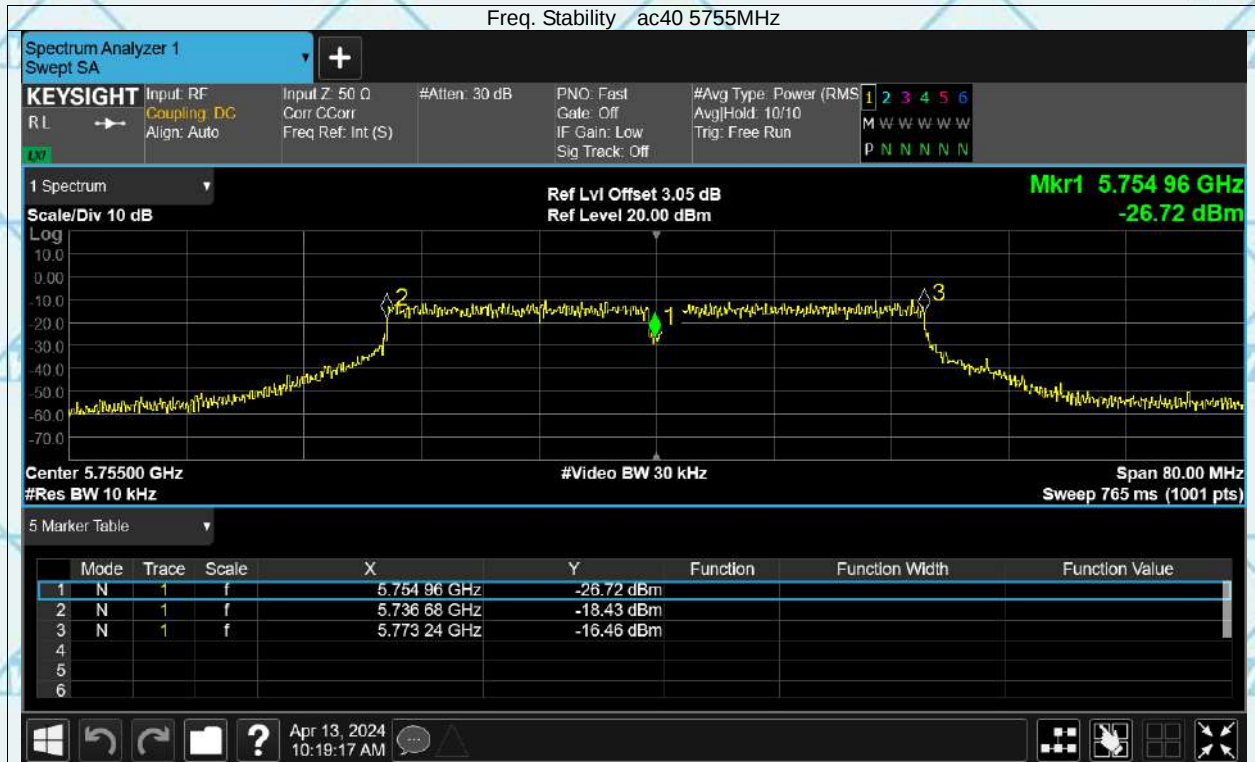
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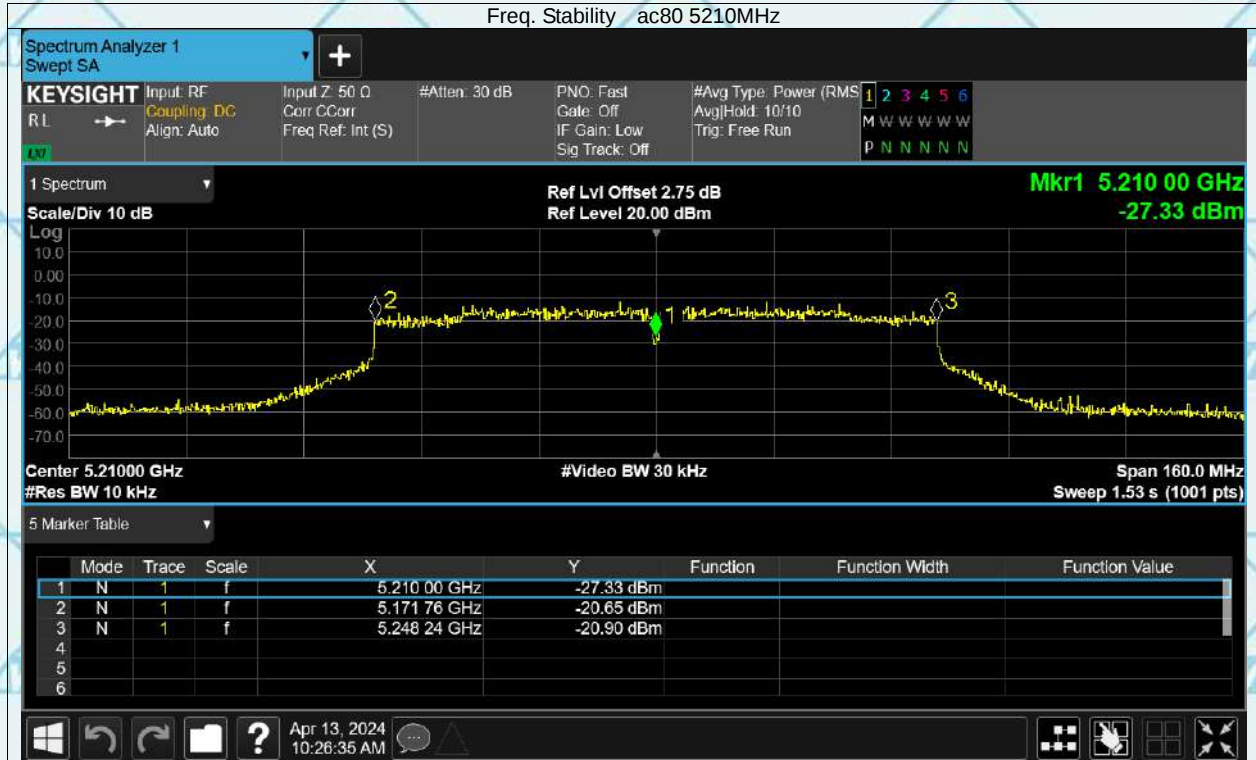
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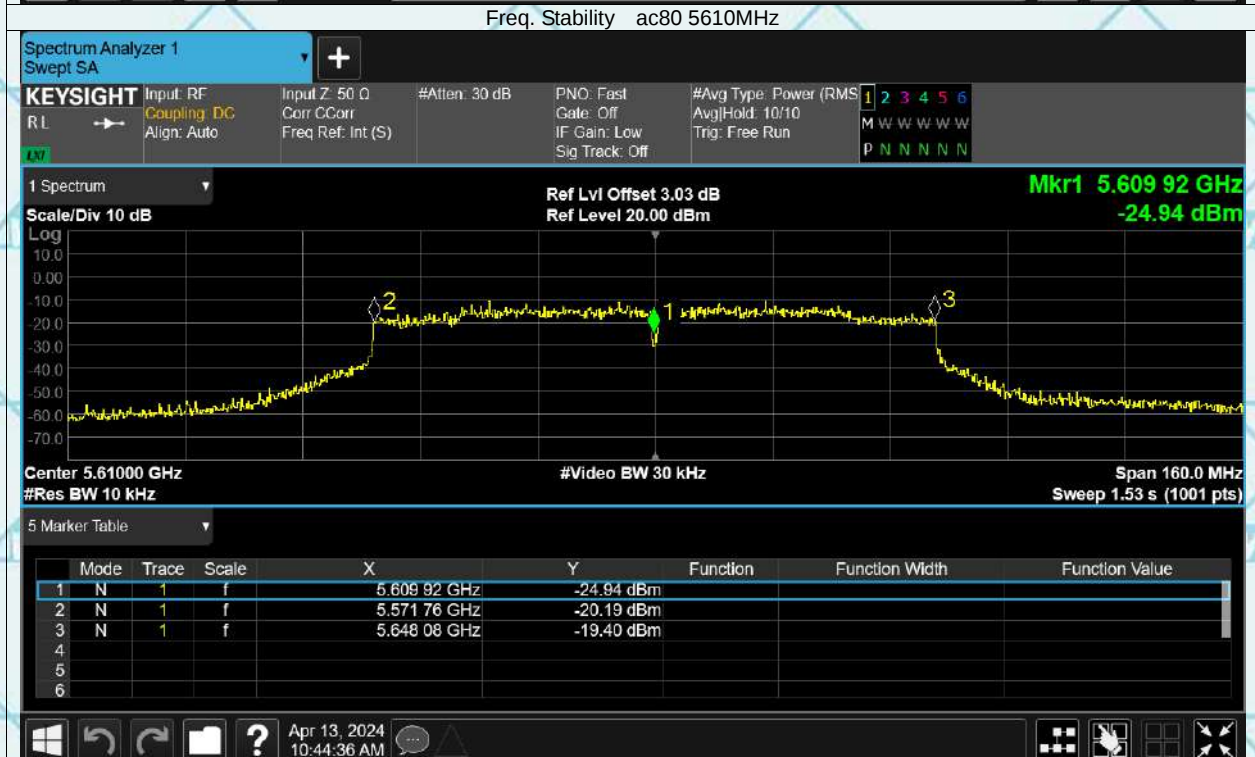
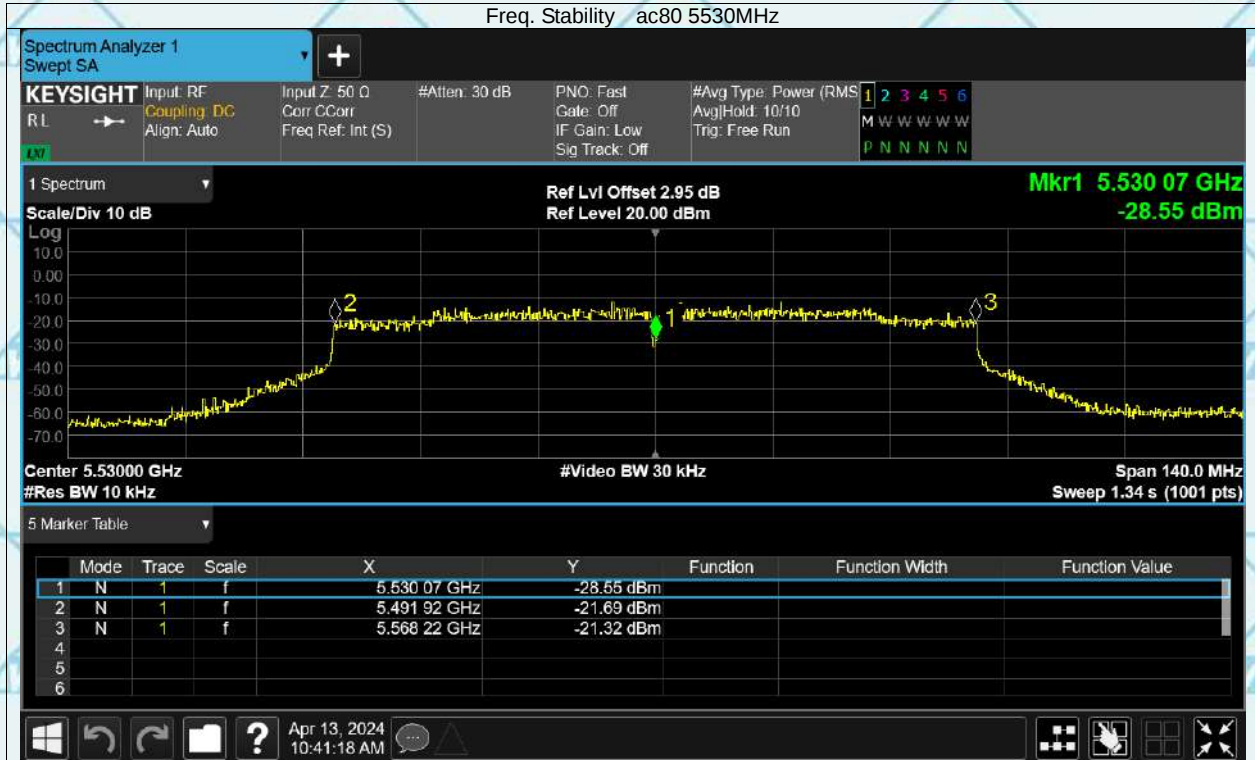
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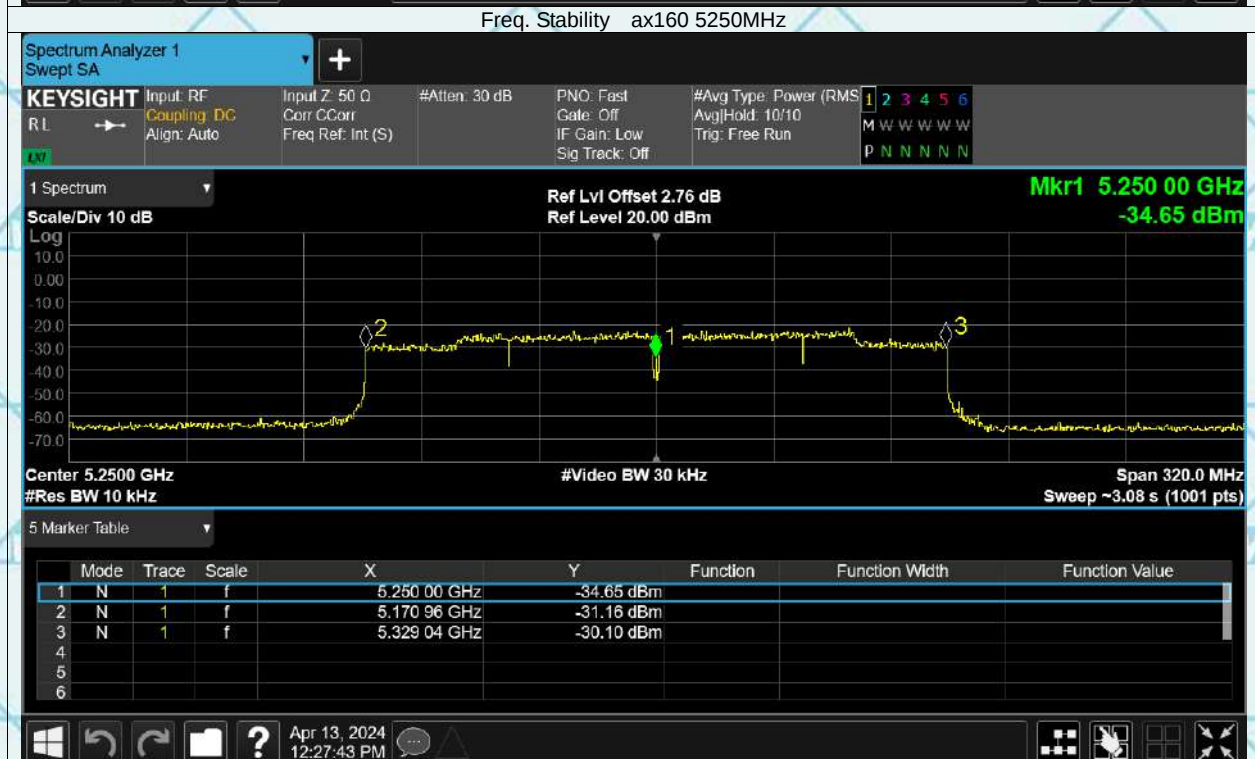
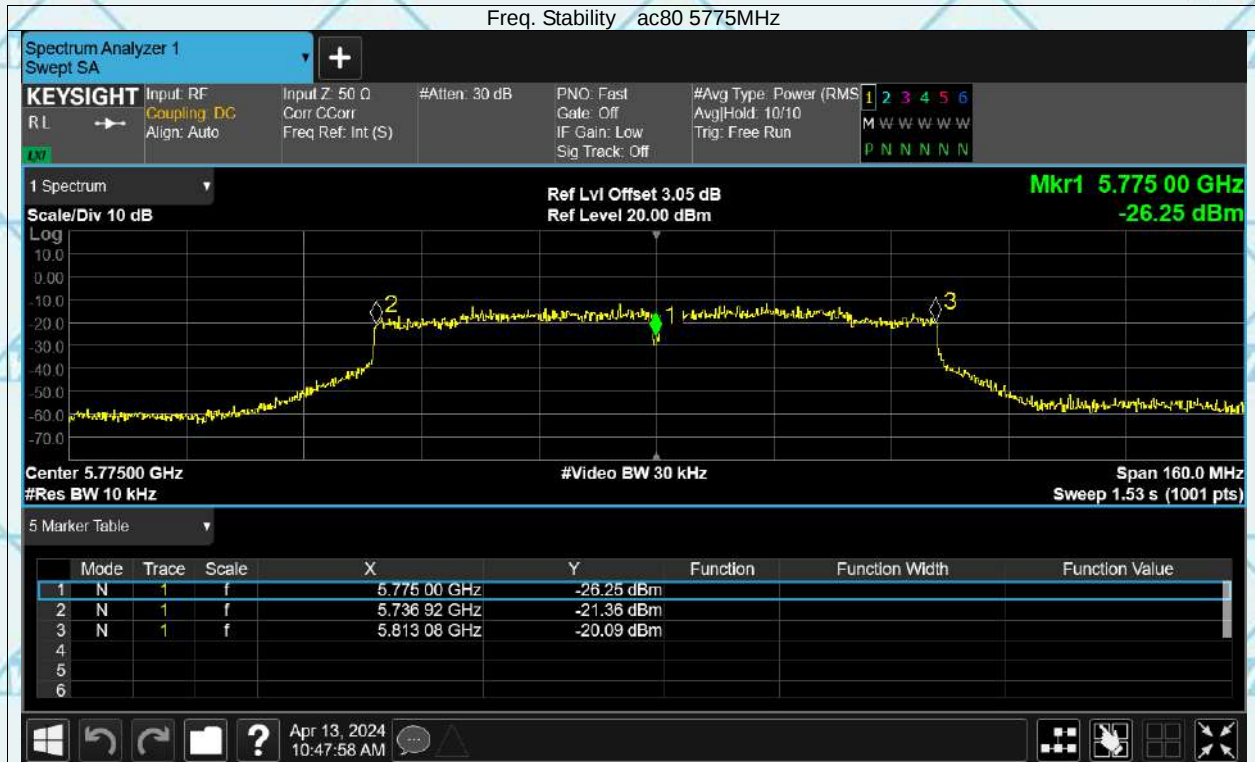
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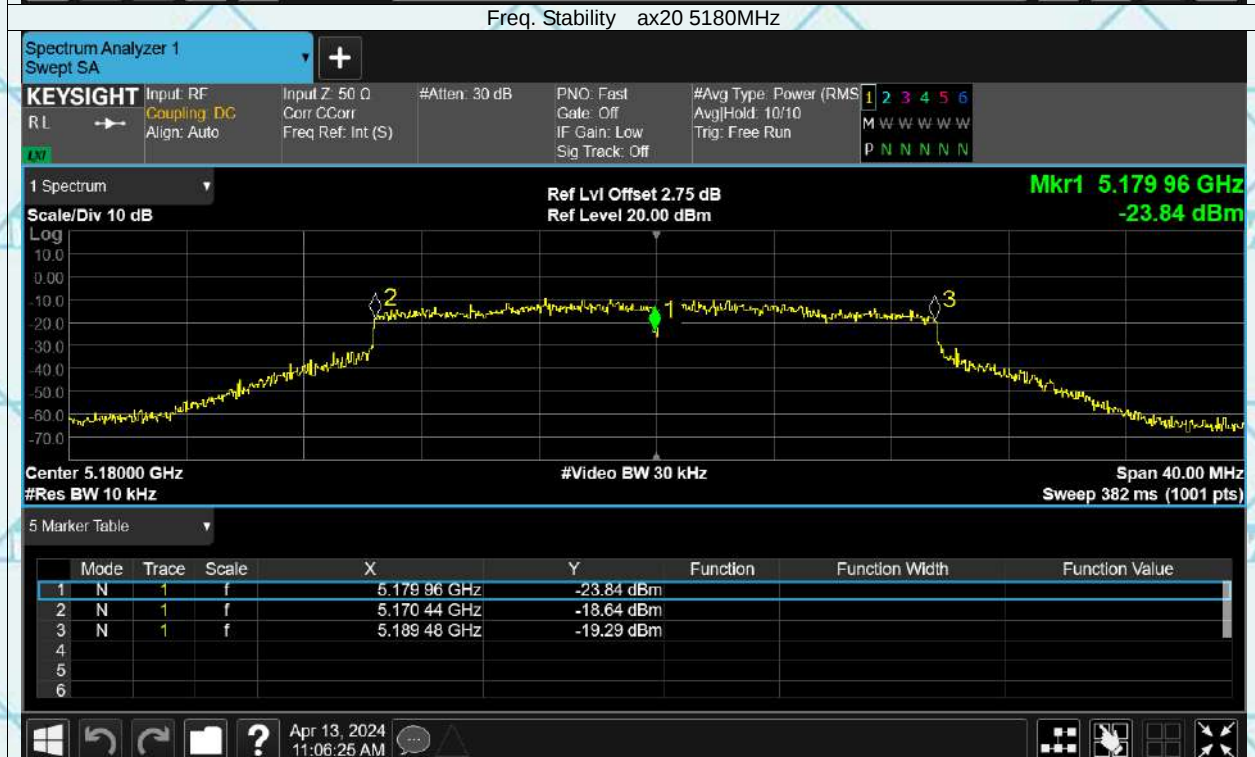
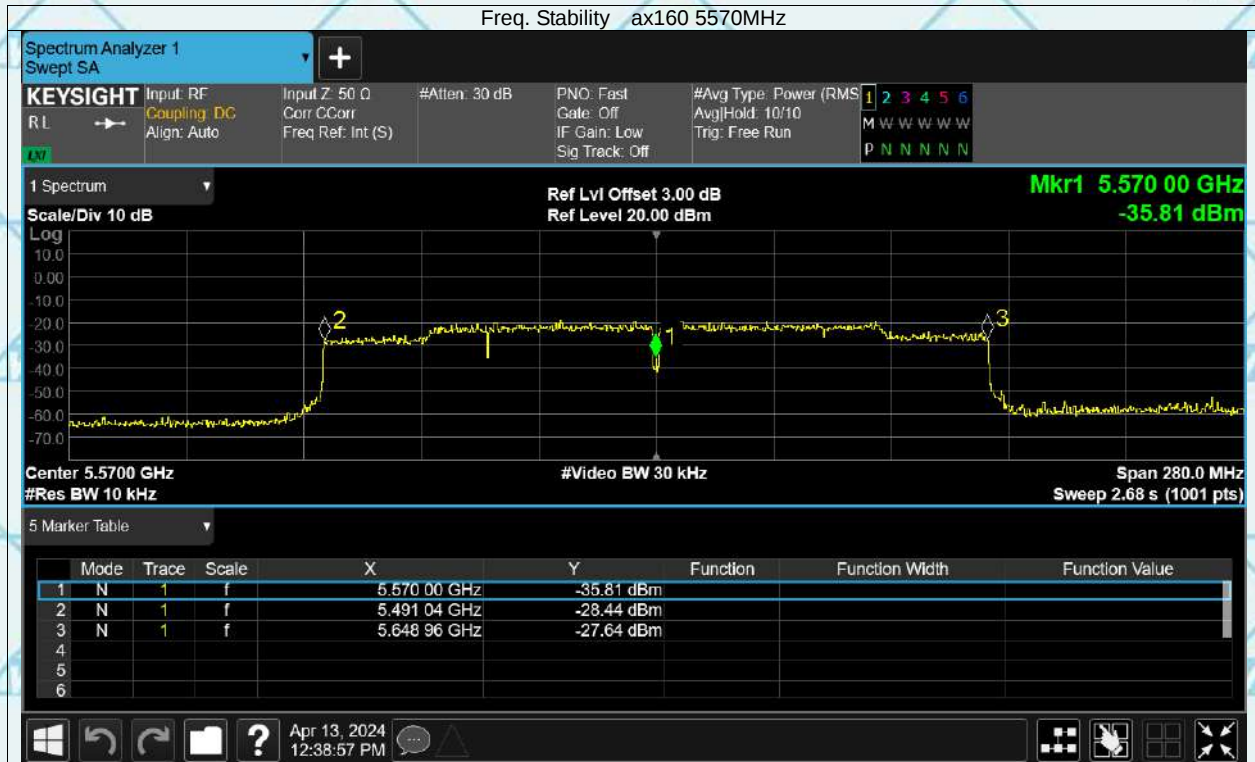
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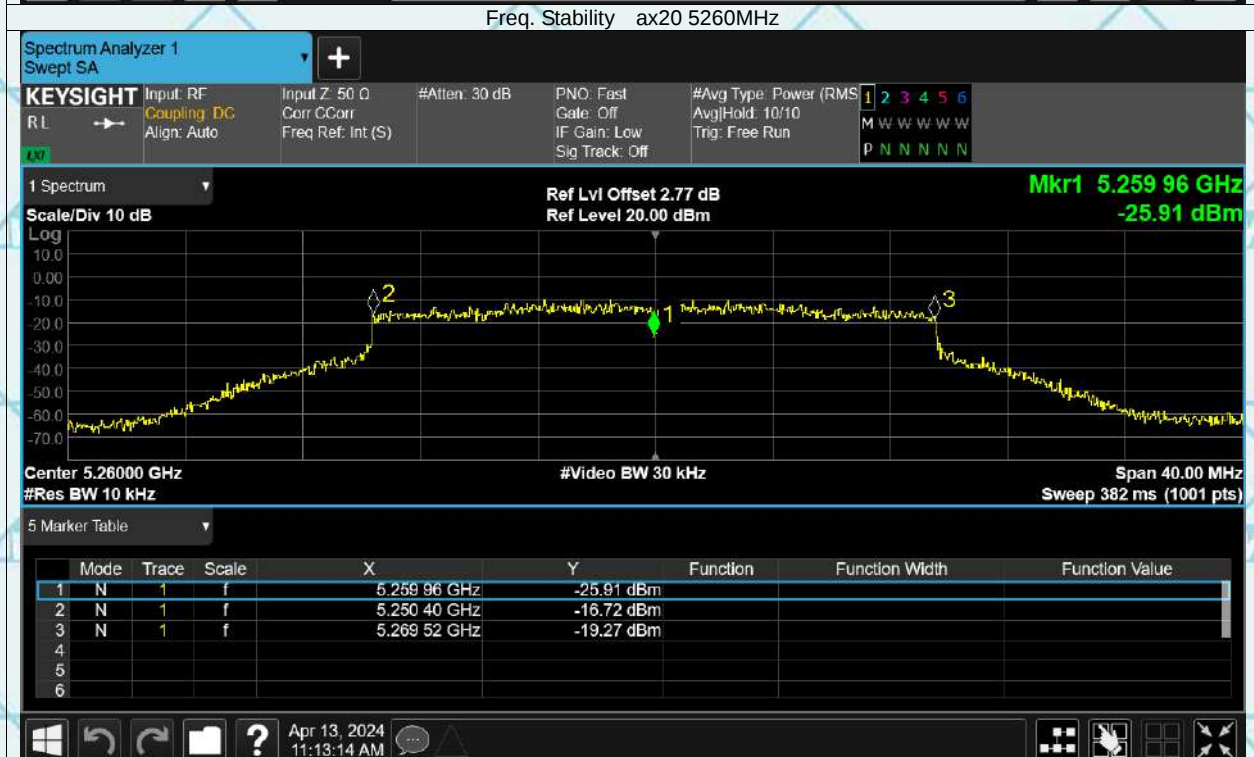
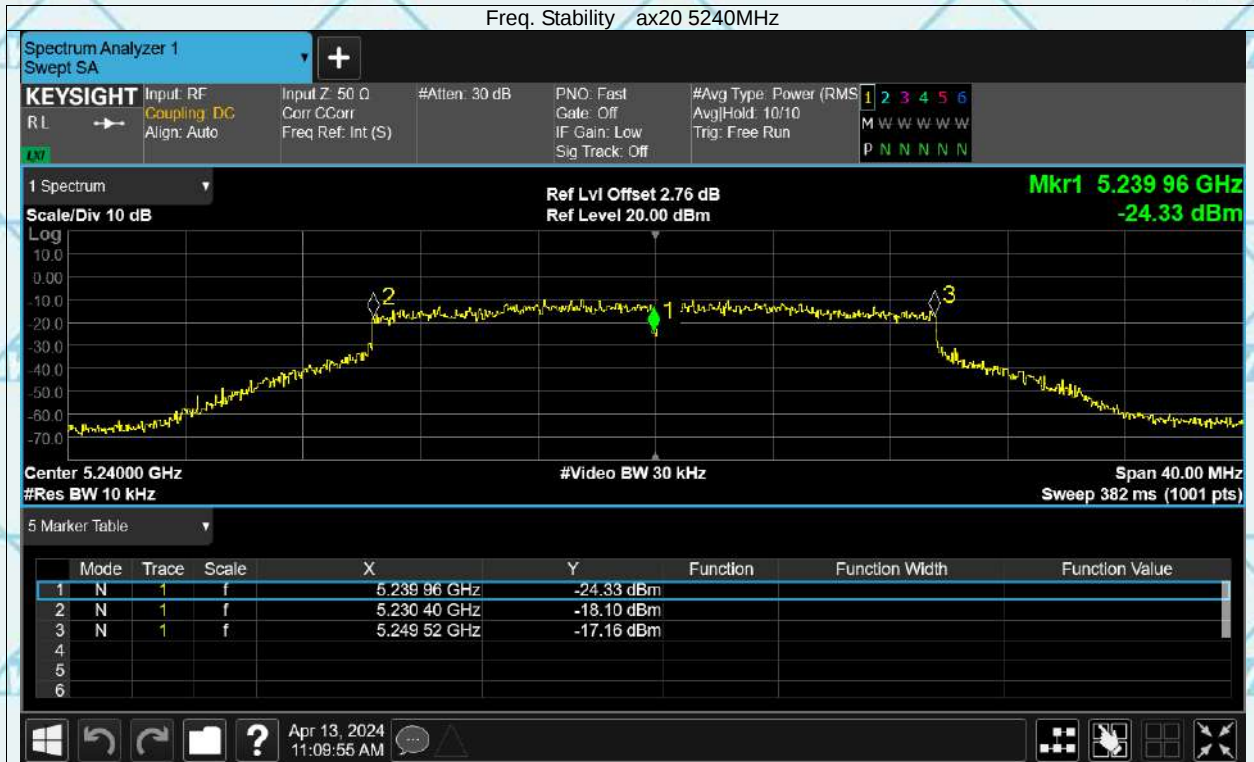
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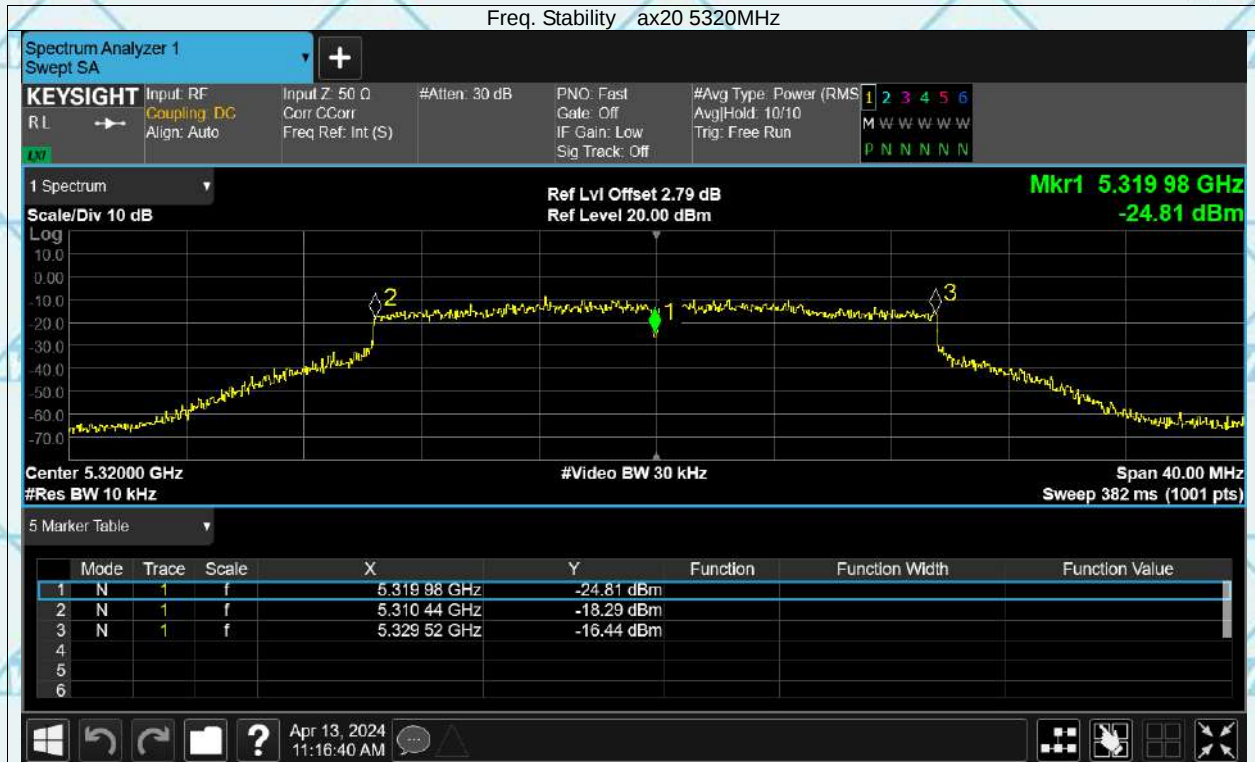
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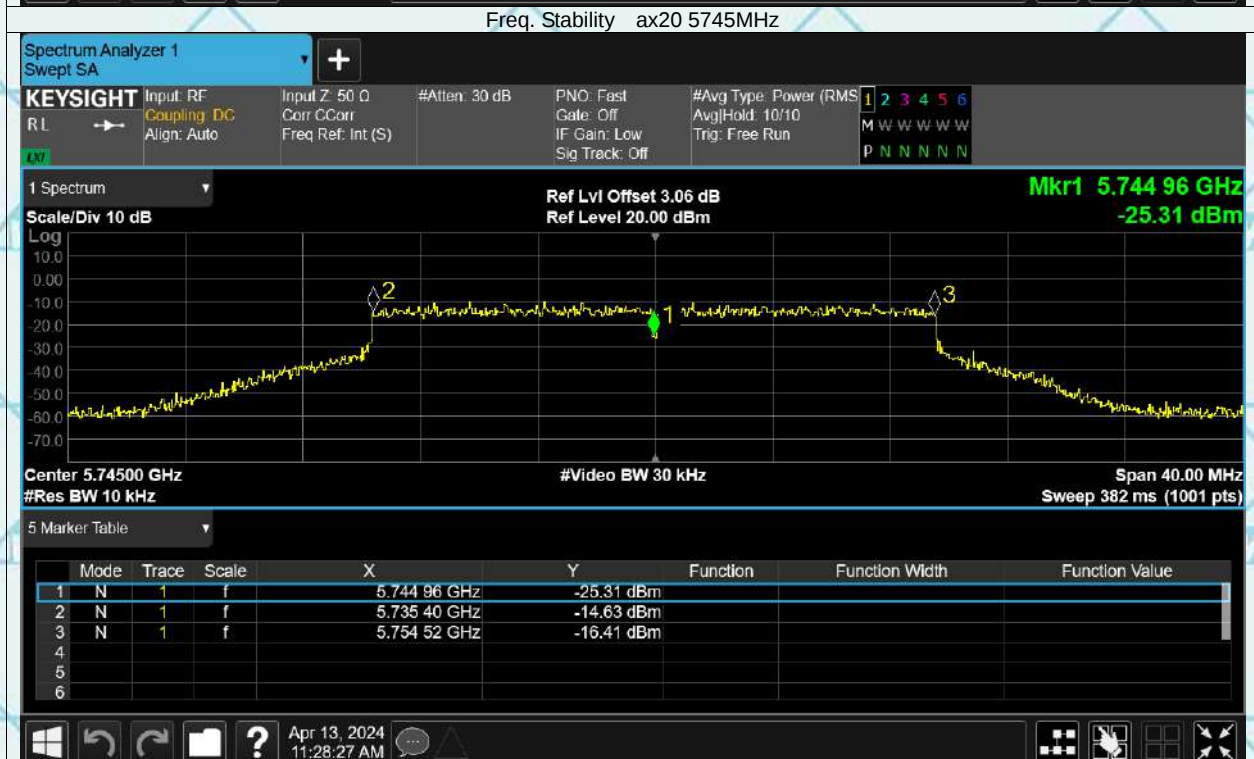
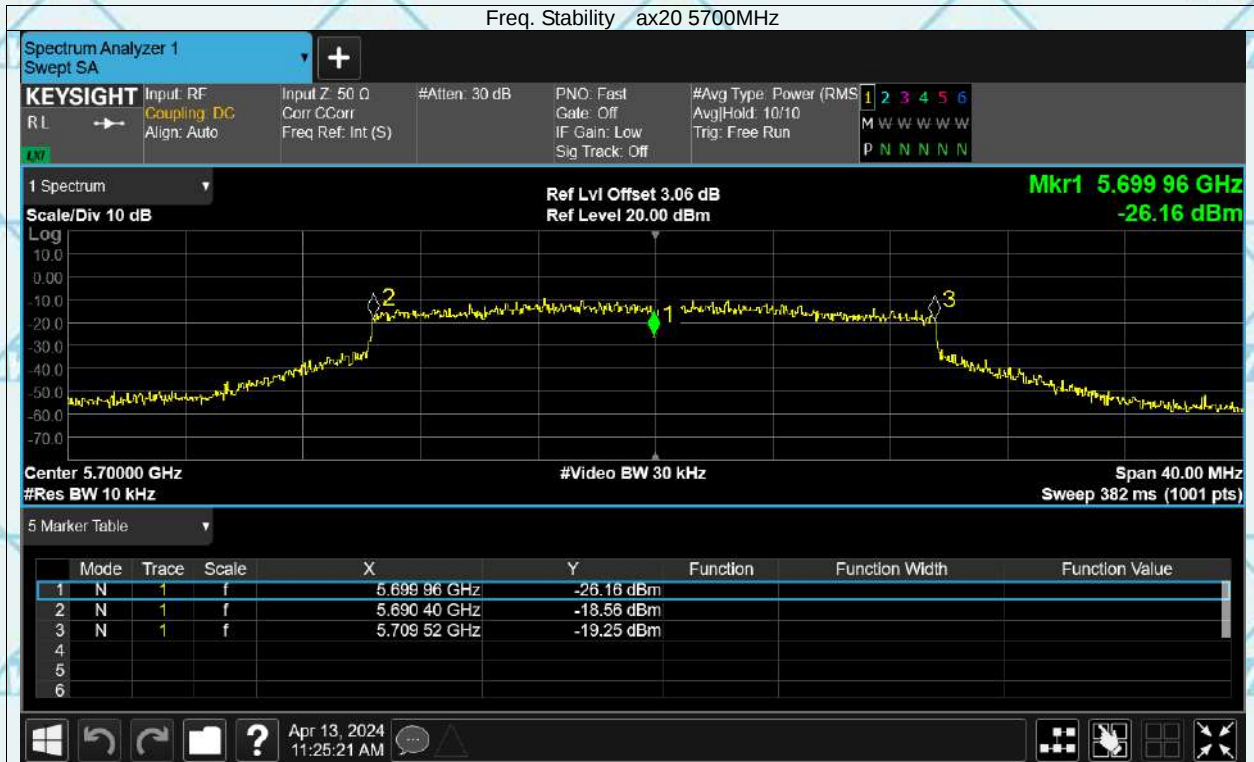
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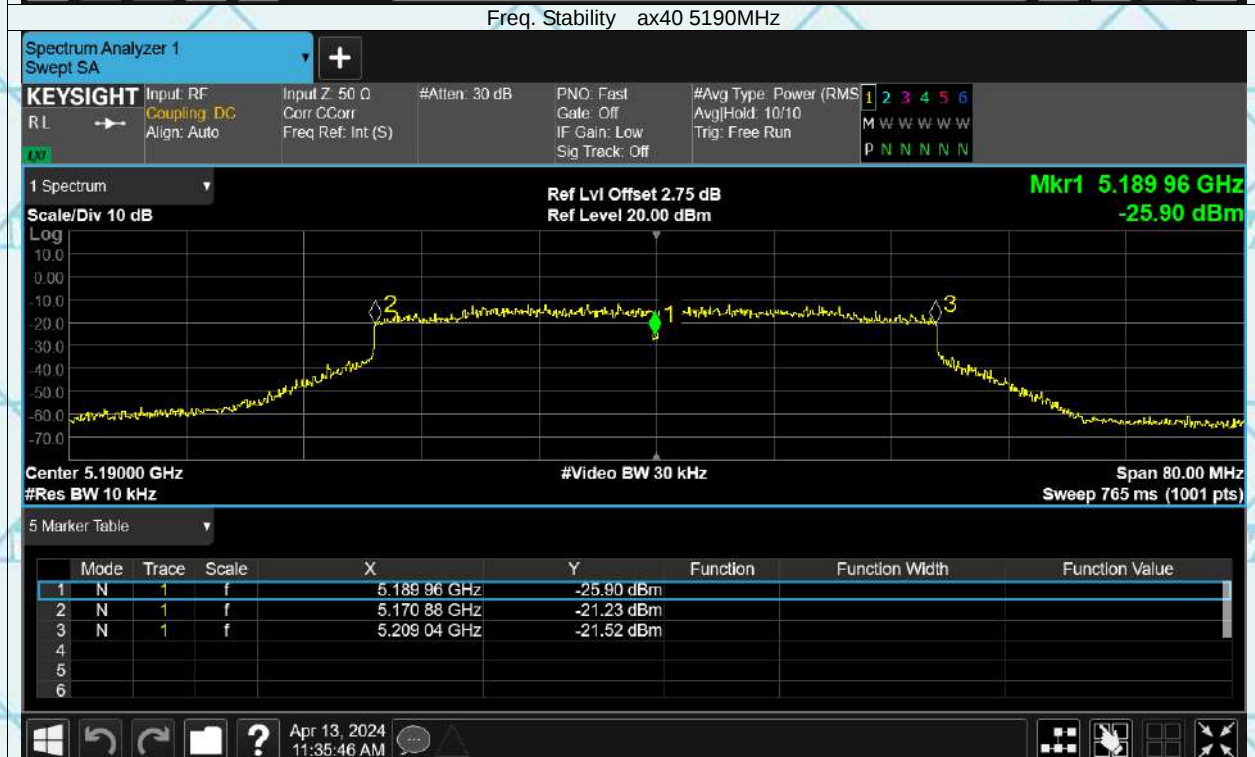
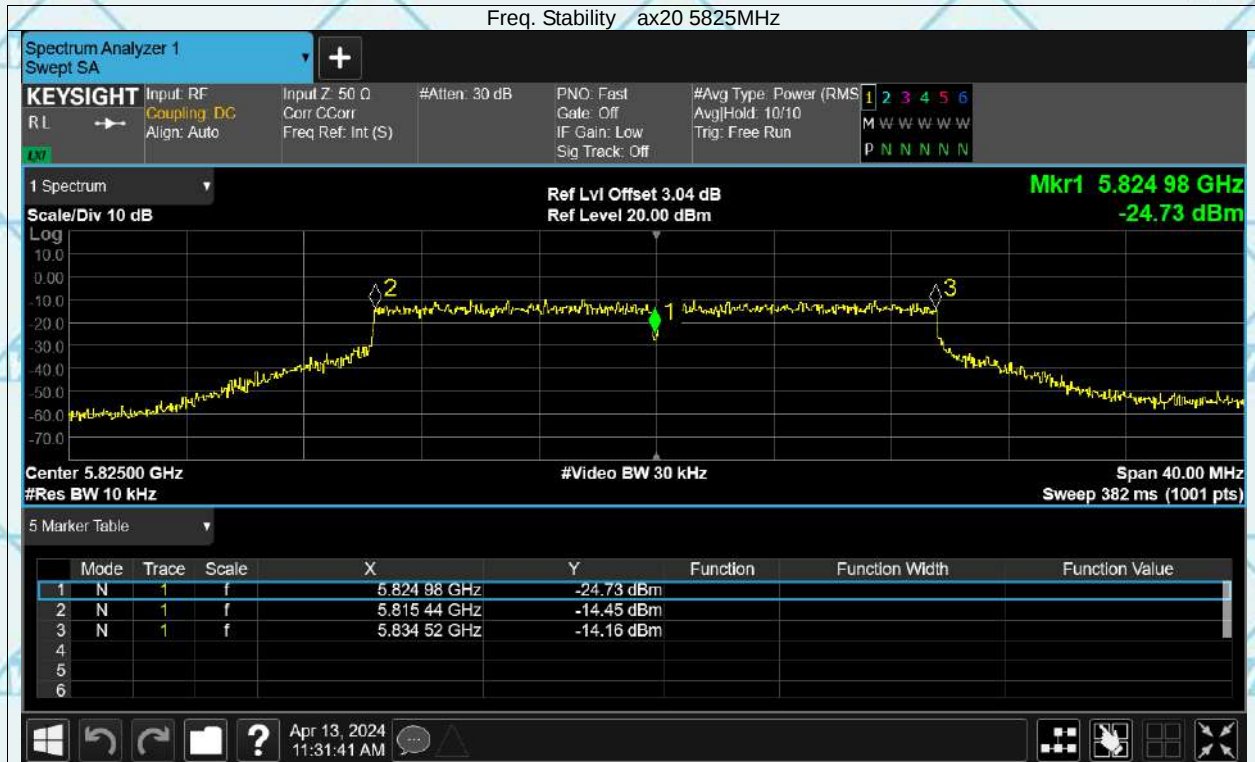
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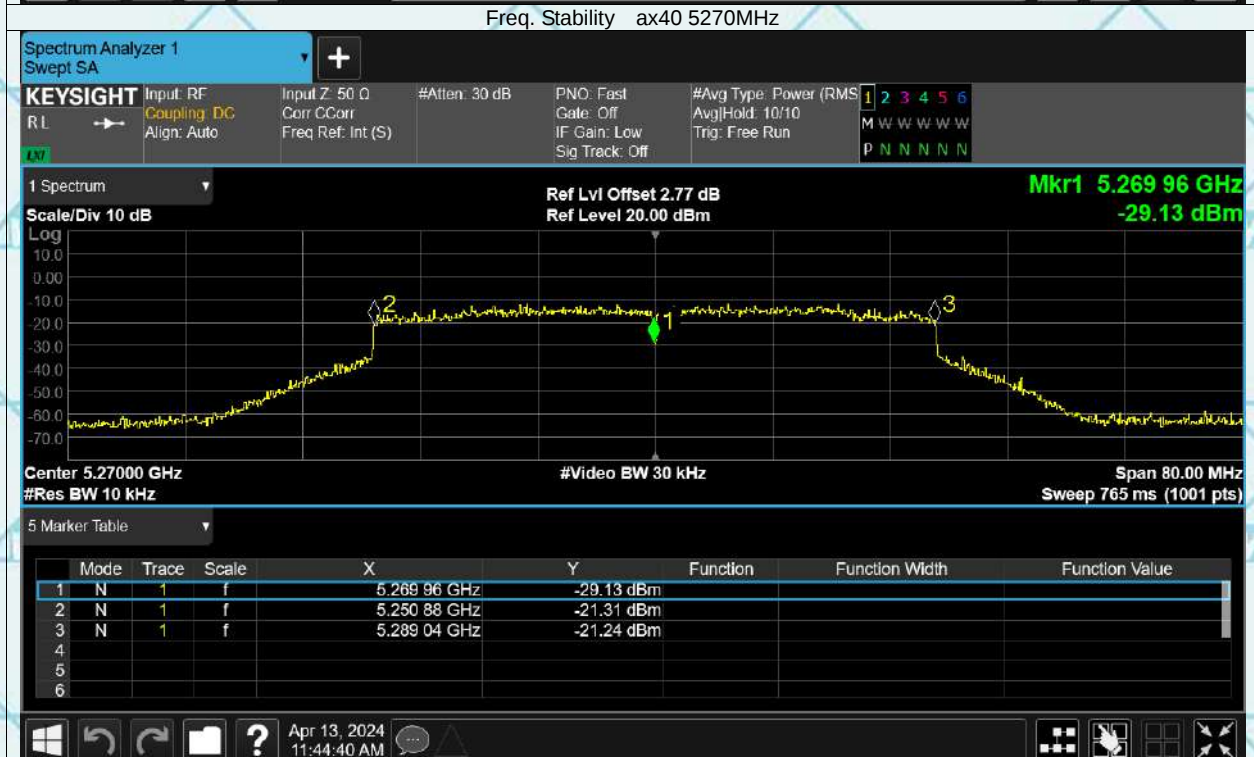
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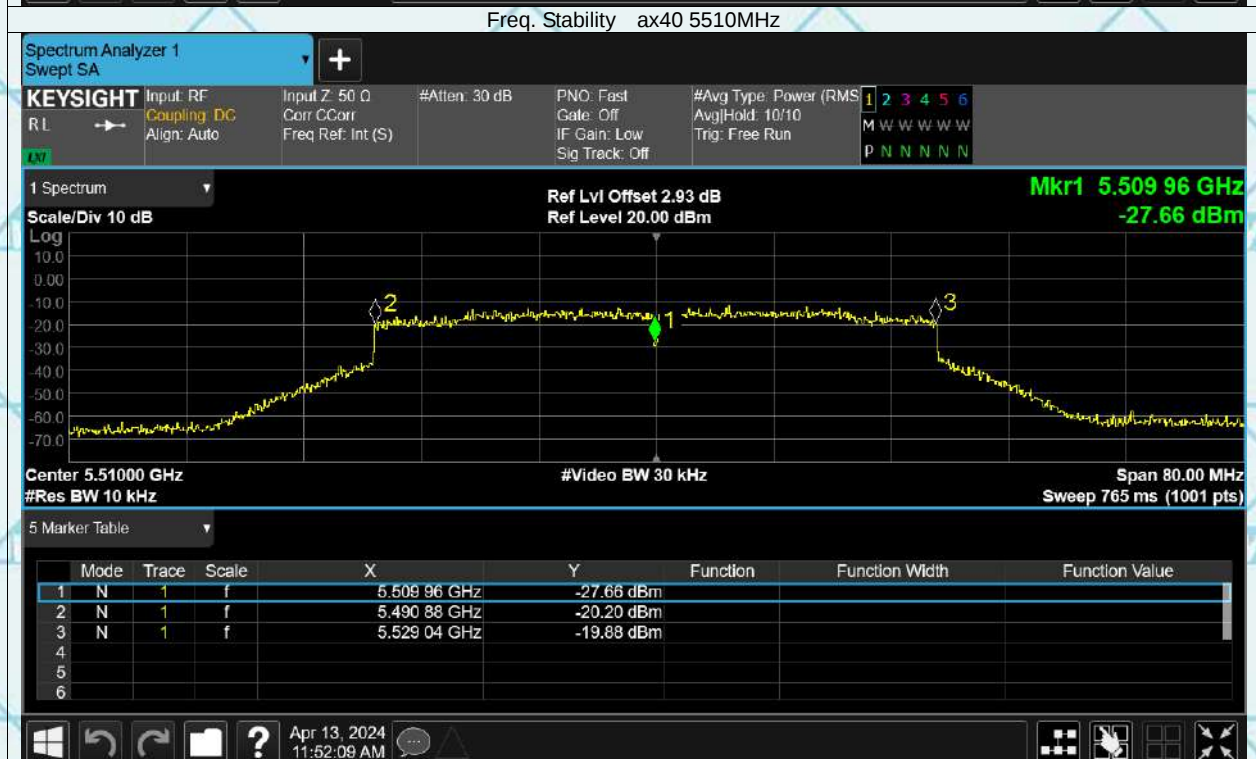
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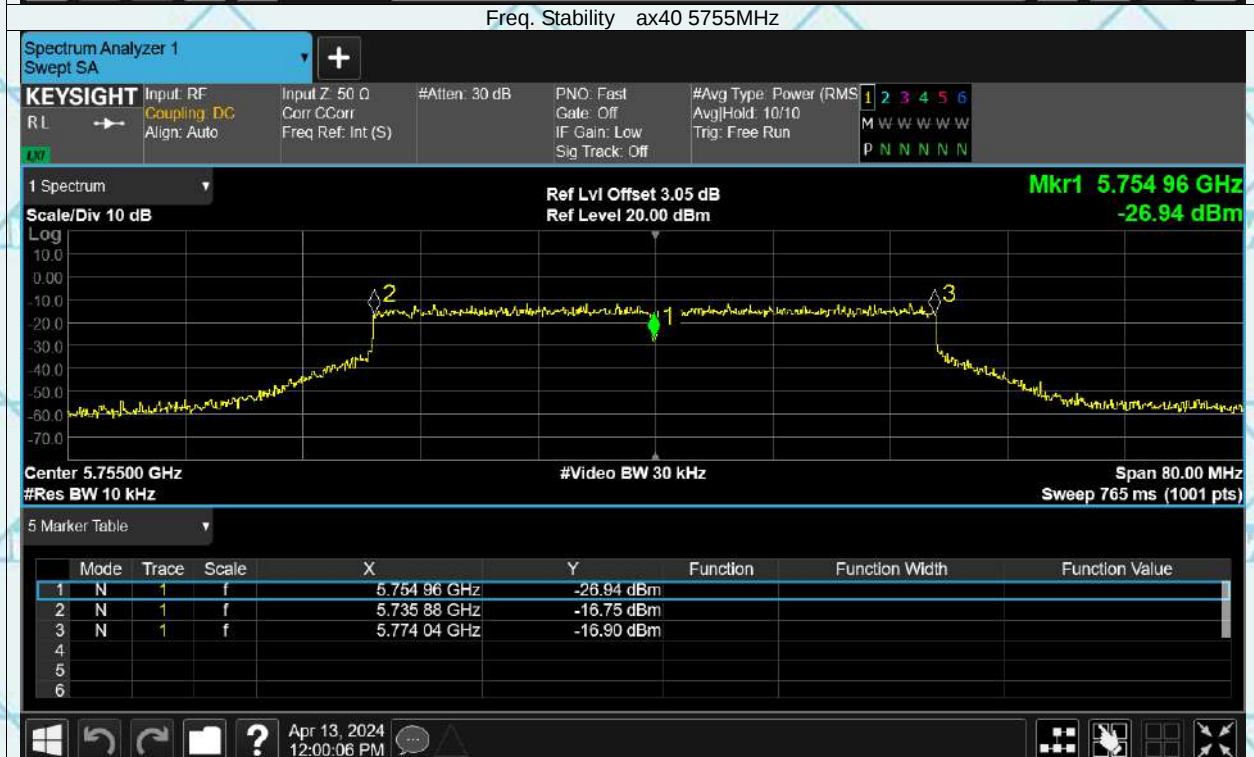
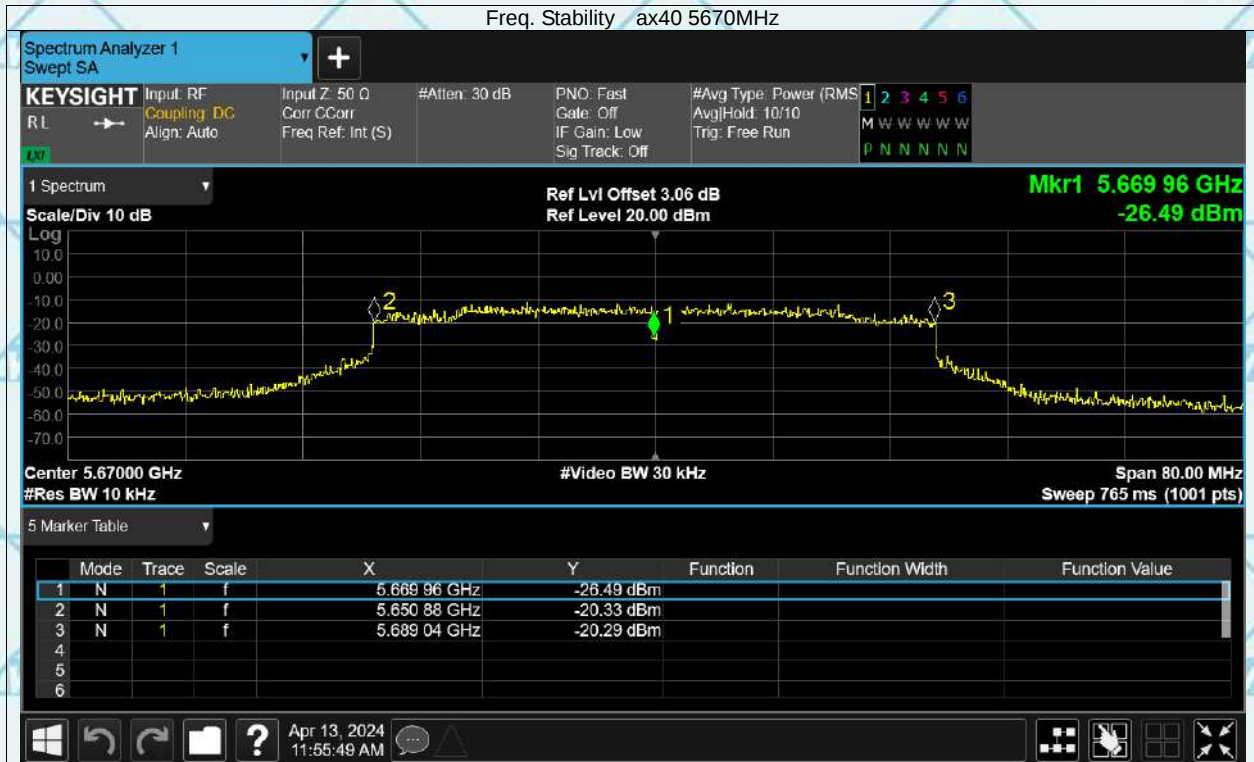
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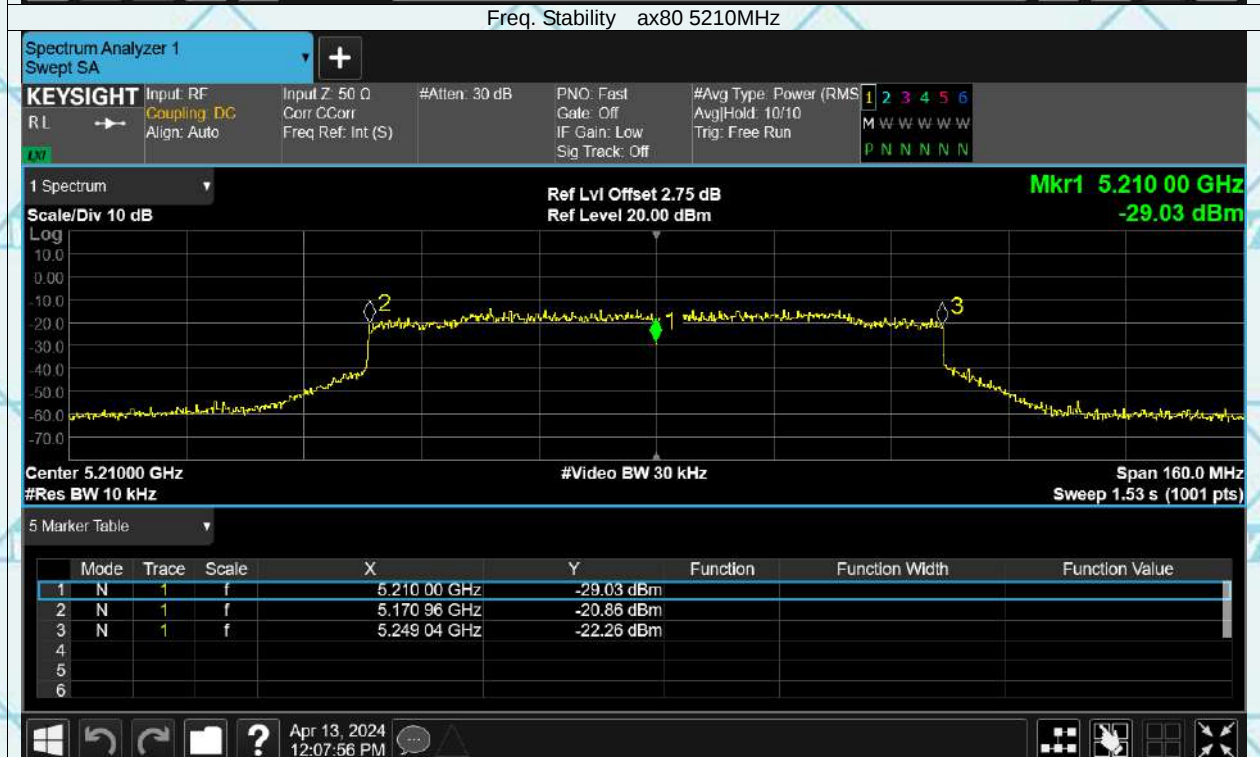
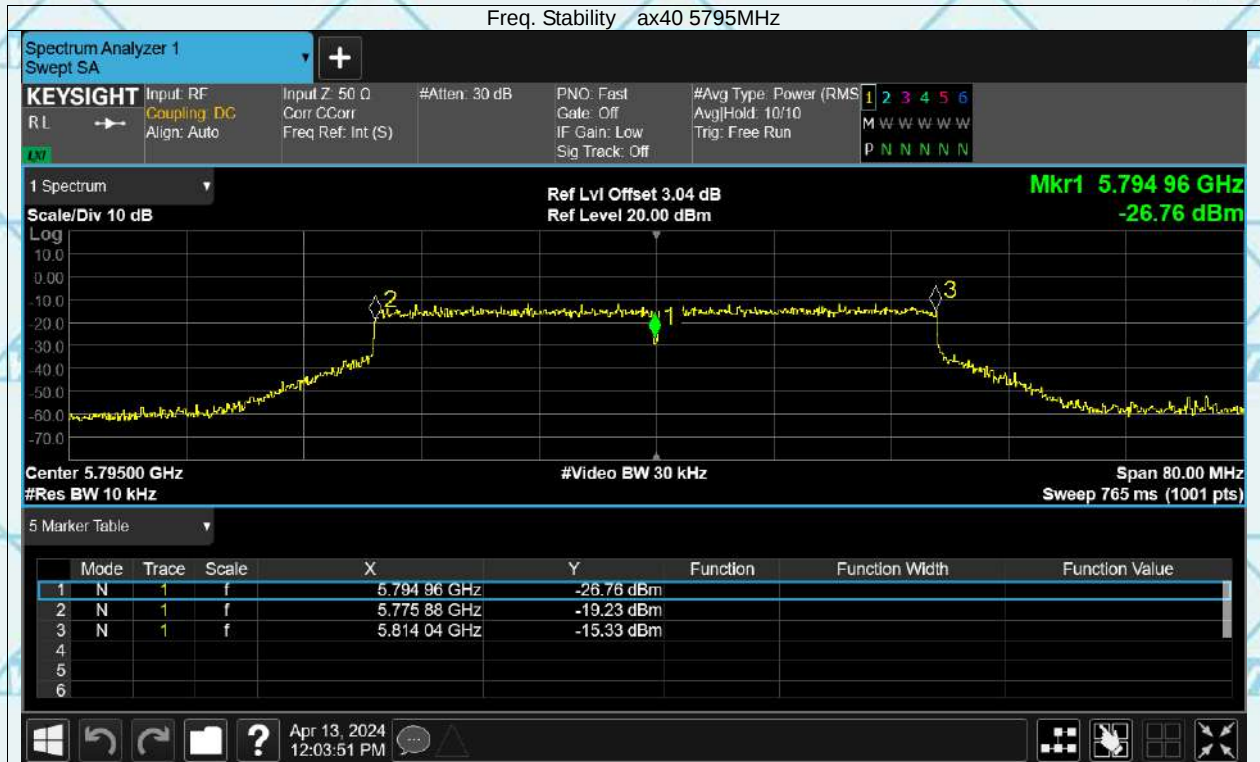
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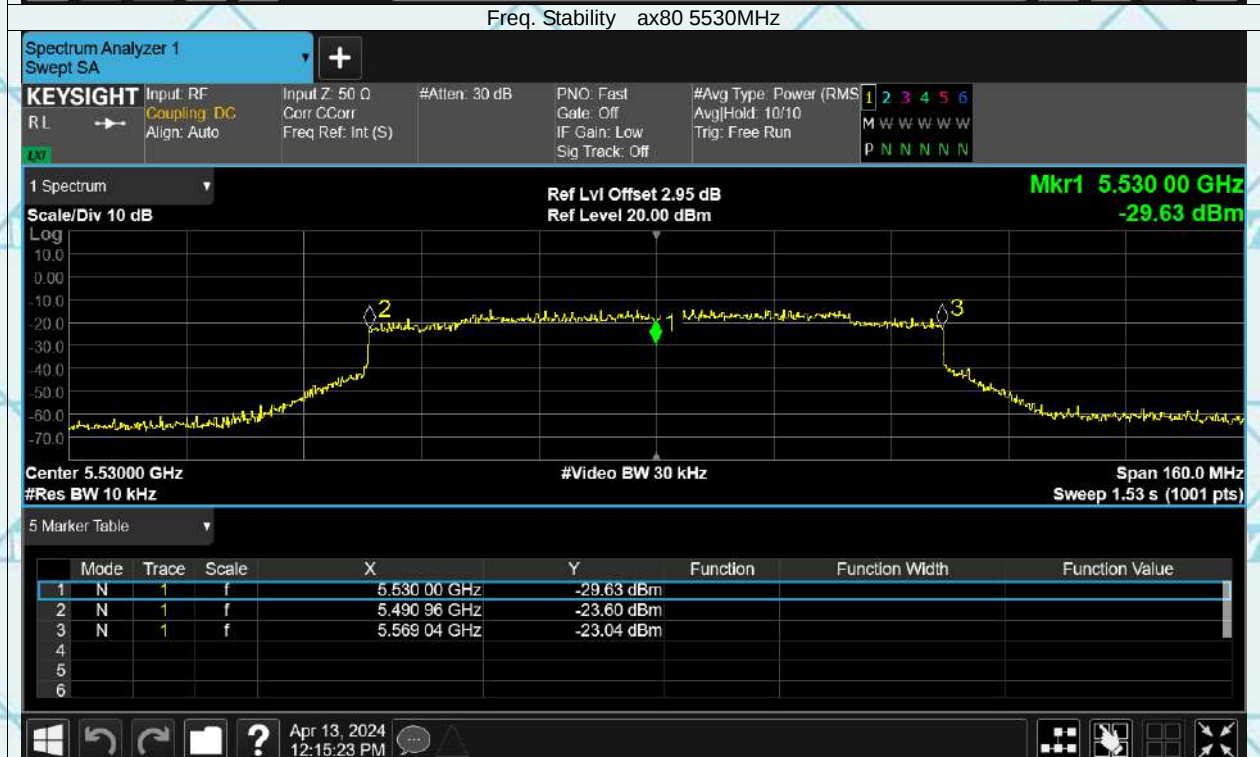
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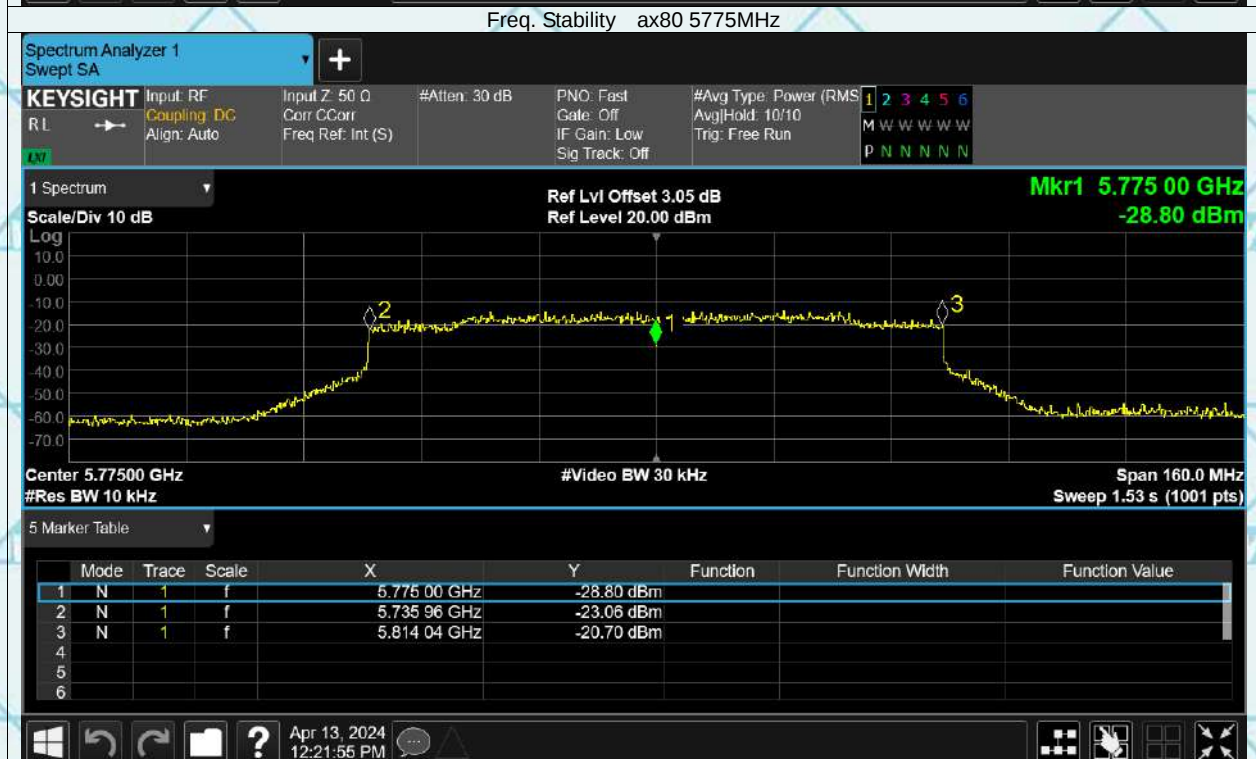
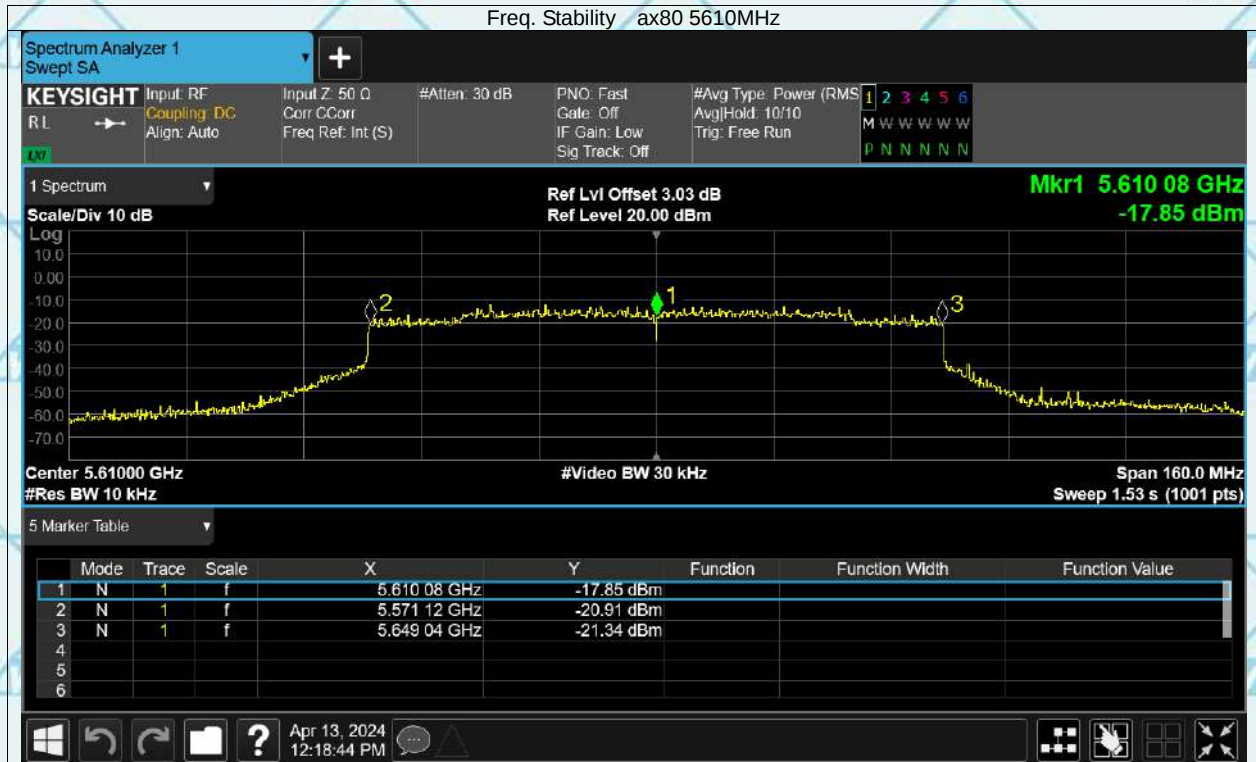
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7.8 BAND EDGE EMISSIONS

7.8.1 TEST EQUIPMENT

Please refer to Section 5 this report.

Test Procedure

Band Edge Emissions Measurement:

- Test Method:
- a.) The EUT was tested according to ANSI C63.10.
 - b.) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 1.5 m. All set up is according to ANSI C63.10.
 - c.) The frequency spectrum from 9 kHz to 40 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 KHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
 - d.) The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
 - e.) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
 - f.) Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.10.

Band Edge Emissions Measurement:

Test Equipment Setting:

- | | |
|---|--|
| a) Attenuation: Auto | d) RBW/VBW (Emission in non-restricted band) |
| b) Span Frequency: 100 MHz | 1MHz / 3MHz for peak |
| c) RBW/VBW (Emission in restricted band): | |
| 1MHz / 3MHz for Peak, | |
| 1MHz / 1/T for Average | |

7.8.2 TEST SETUP

Same as section 3.4 of this report

7.8.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.8.4 EUT OPERATING CONDITION

Same as section 3.4 of this report.





7.8.5 LIMIT

Spurious Radiated Emission & Band Edge Emissions Measurement:

Limit: For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation.

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed the general radiated emission limits specified in section 15.209(a)

Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

7.8.6 TEST RESULT

Band Edge and Fundamental Emissions

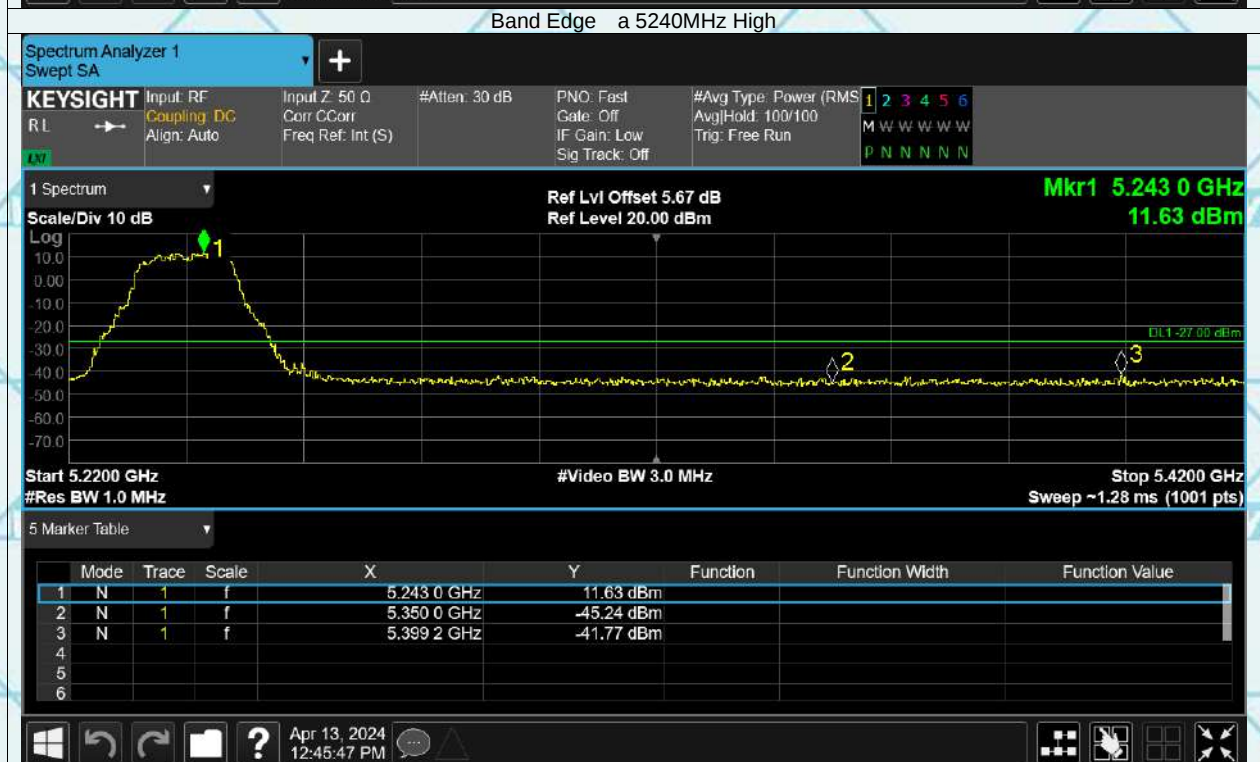
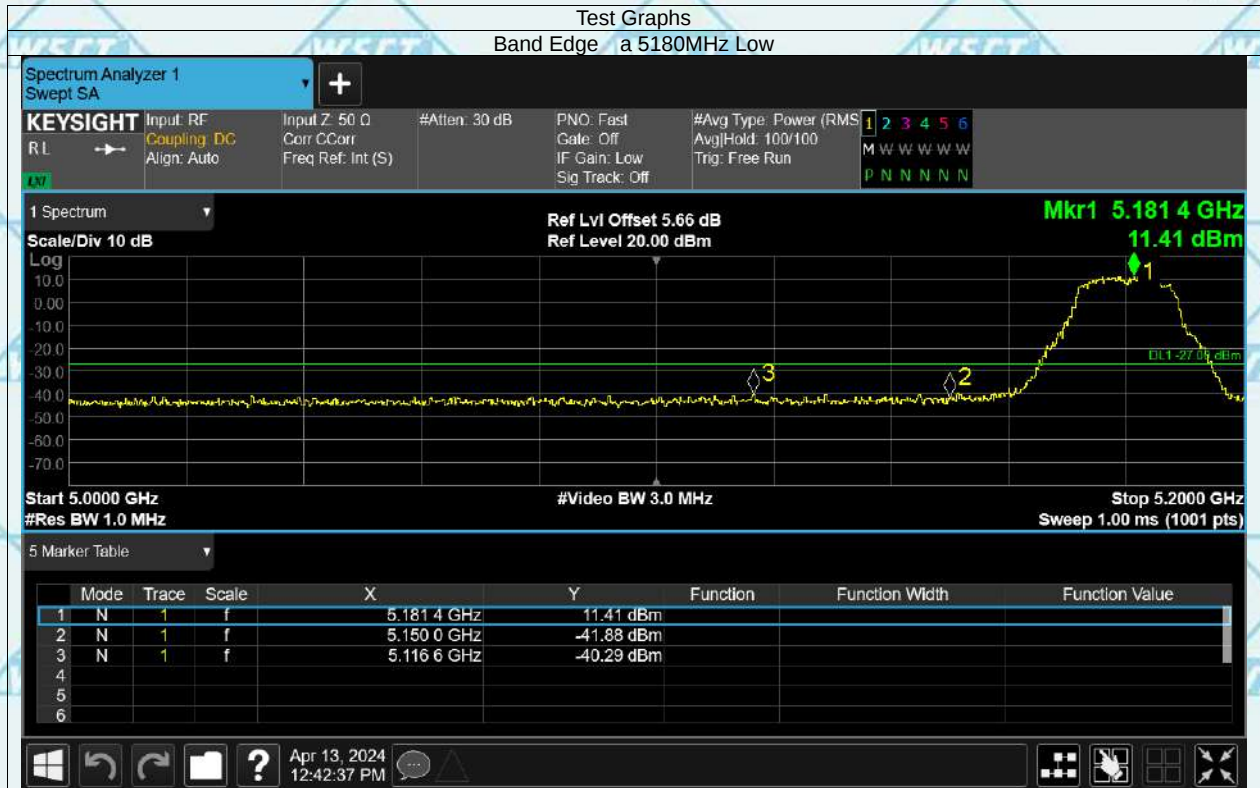
Product:	EUT-Sample	Test Mode:	20MHzIEEE 802.11a/n/ac/ax
Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C
Test Voltage:	DC 11.61V	Humidity:	56%RH
Test Result:	PASS		





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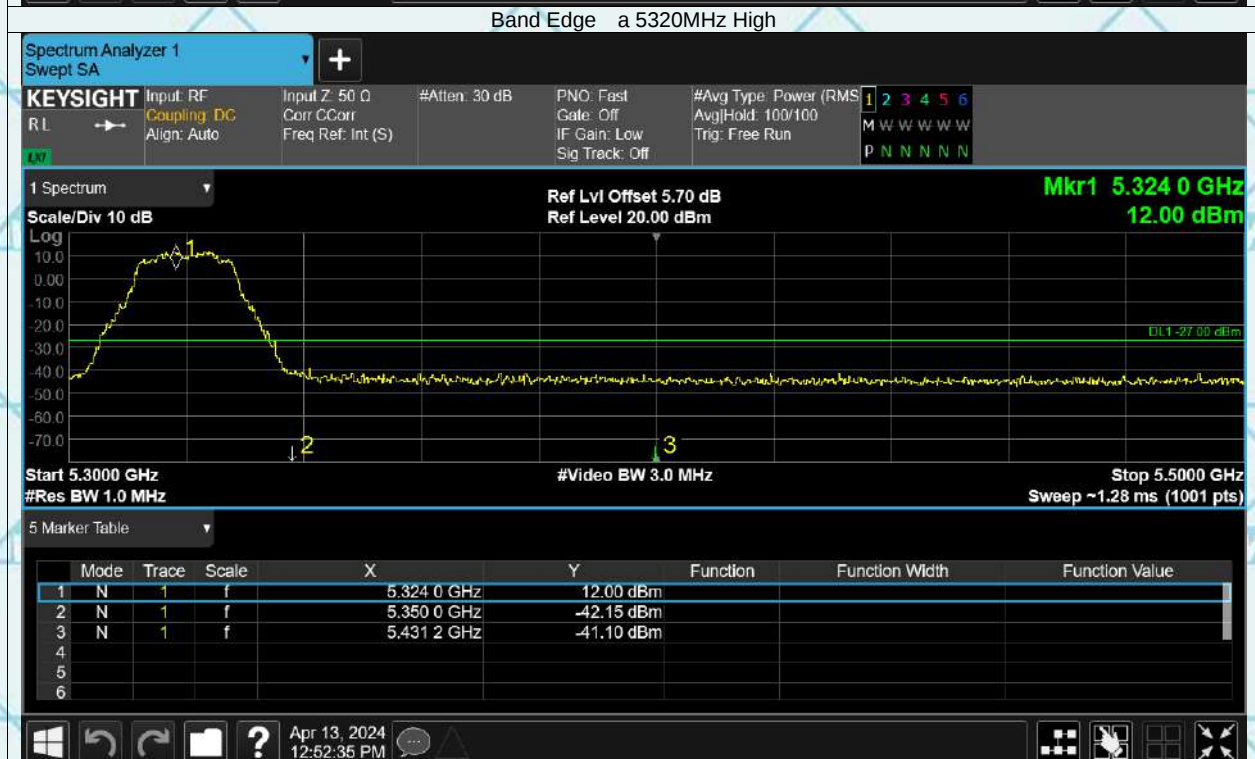
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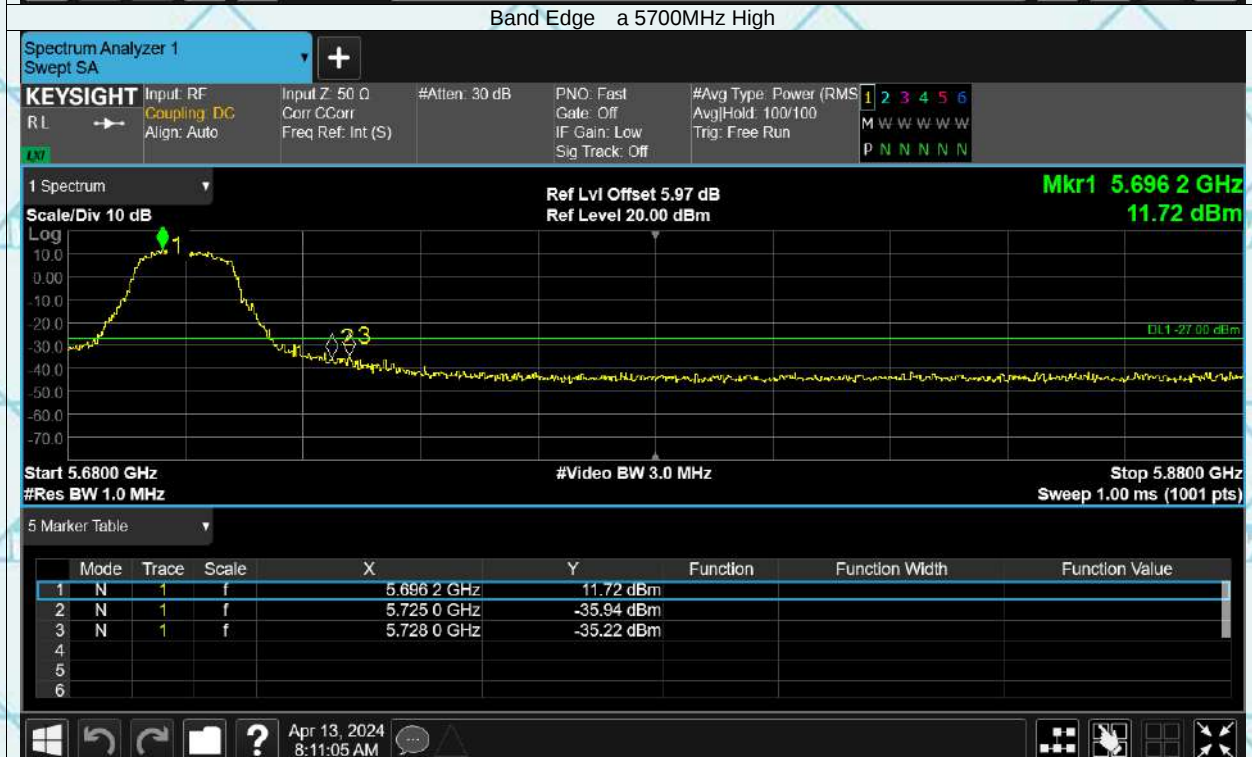
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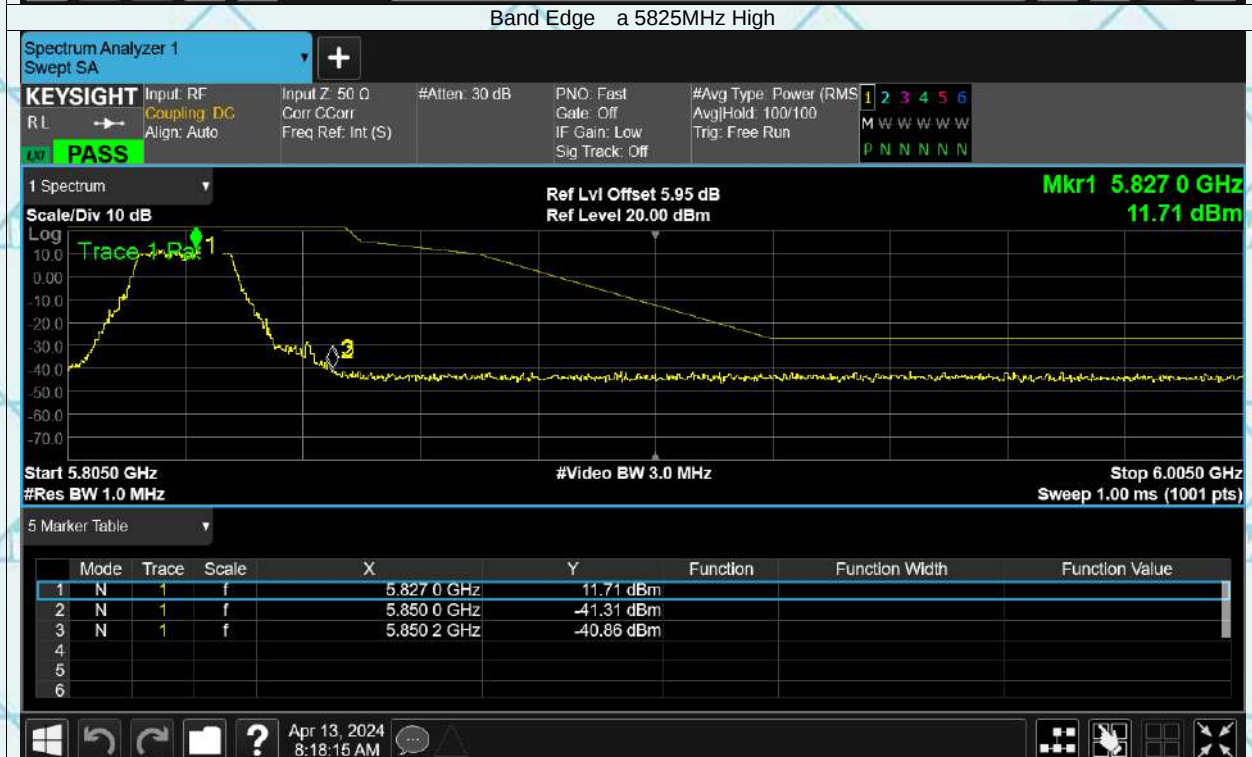
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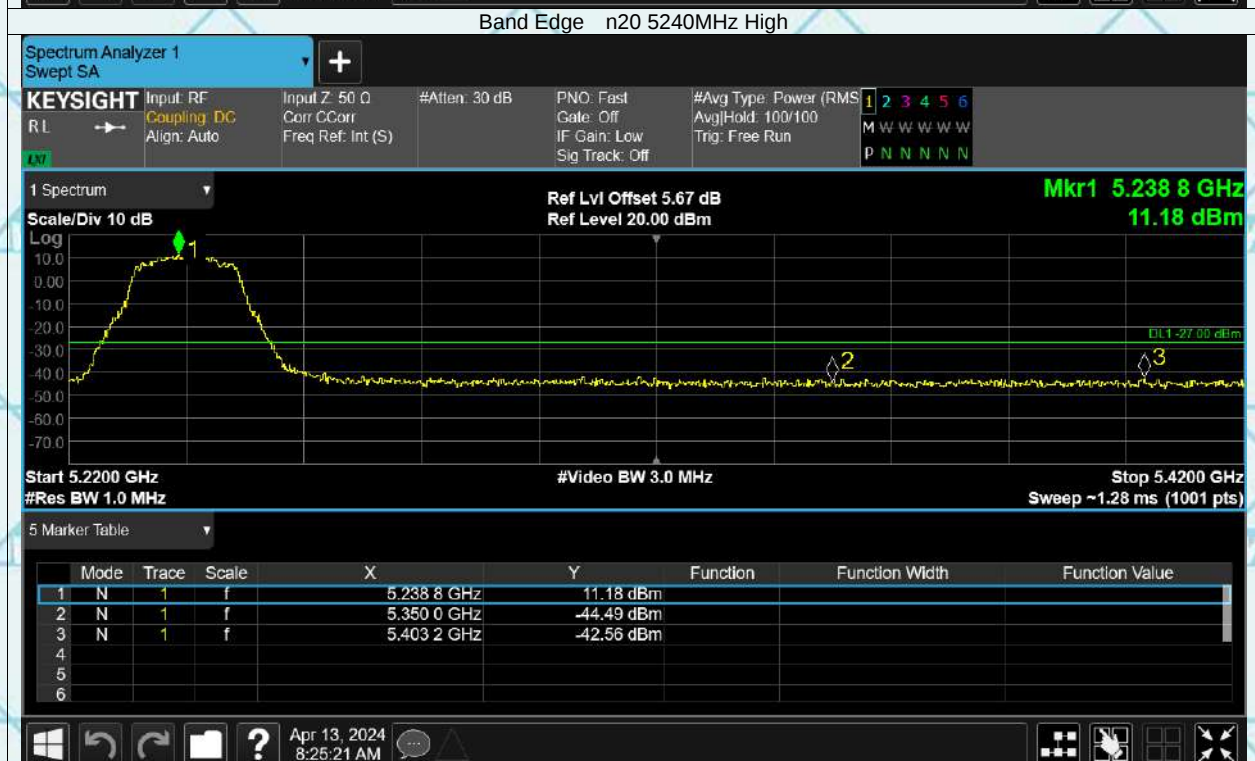
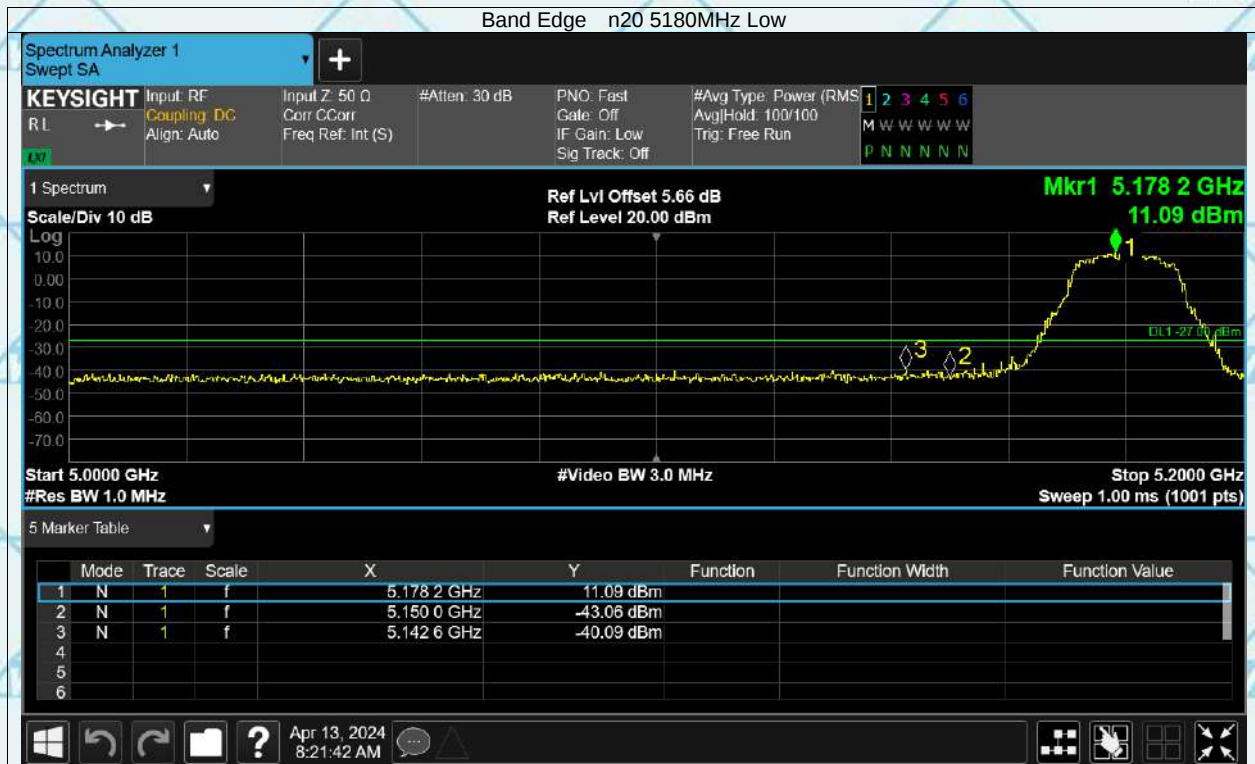
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