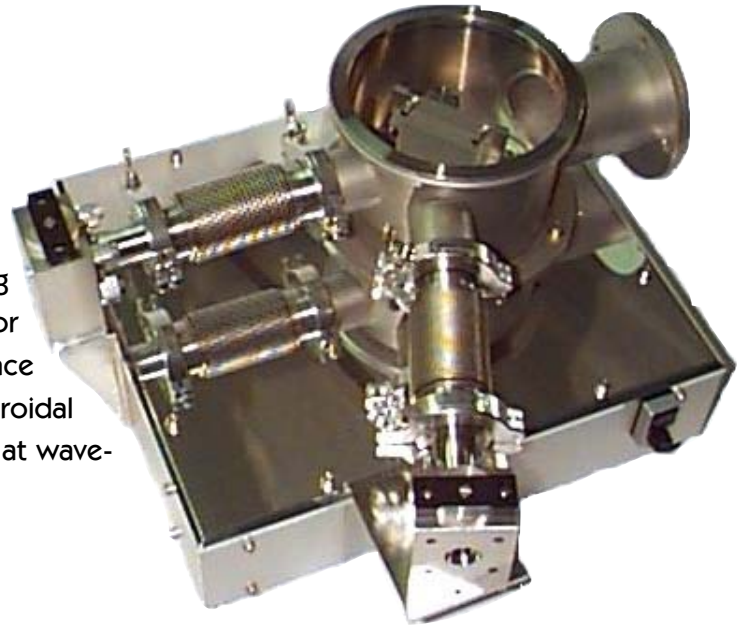


Vacuum Toroidal Monograph: VTM300

The HORIBA Jobin Yvon VTM300 system gives you a unique opportunity to enhance your spectroscopic capability to the Vacuum Ultra Violet region. The system combines the HORIBA Jobin Yvon expertise in the following areas:

- ❑ **Spectroscopy System Development**
- ❑ **Vacuum Design**
- ❑ **Toroidal Aberration Corrected Gratings**

The VTM300 offers unique performance in the UV and VUV wavelength range. Equipped with an aberration corrected holographic toroidal grating (1200 g/mm) the VTM300 allows monochromator or spectrograph operation with the same grating hence the instrument name monograph. Due to this toroidal grating the VTM300 presents a unique throughput at wavelengths of 100 nm and below.



VTM300 Key Features:

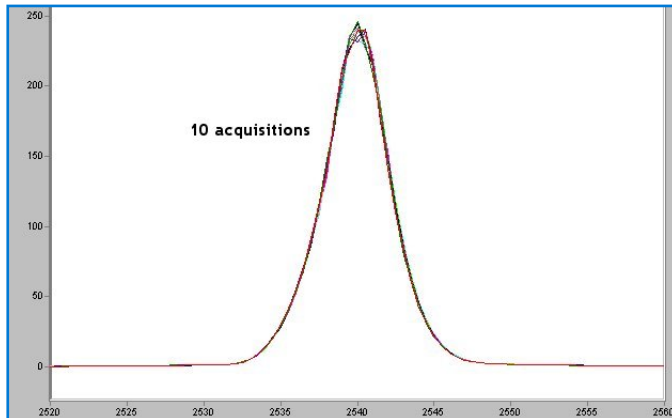
- ❑ Toroidal aberration corrected grating.
- ❑ High throughput.
- ❑ Interchangeable kinematic grating mounts
- ❑ Focal length 300 mm
- ❑ Deviation 70 degrees
- ❑ Spectral wavelength range 60-300 nm
- ❑ Spectral resolution < 4 Angstrom
- ❑ High repeatability
- ❑ Monochromator and/or Spectrograph.
- ❑ 2-dimensional detector adapter
- ❑ 25 mm flat field
- ❑ Removable entrance and exit slits
- ❑ High vacuum compatible (10^{-6} mbar)
- ❑ Adjustable or fixed entrance and exit slits
- ❑ Aperture: f/7.5
- ❑ Stepping motor drive

For over 25 years HORIBA Jobin Yvon has been supplying mirrors, diffraction gratings, beamline components, monochromators and spectrographs to the soft X-ray and UV community. Our capabilities include excellent polishing, form error control and coating technologies applicable to a wide range of substrate materials. This is in part demonstrated by our consistent supply of mirrors and diffraction gratings to the worldwide synchrotron community, our ultra-modern manufacturing facility, and also in our long-standing ISA 9000 certification.

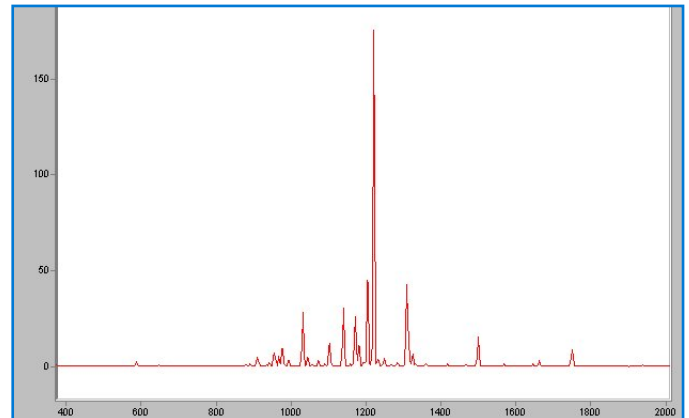
Gratings & OEM Division

VTM300 examples of performance:

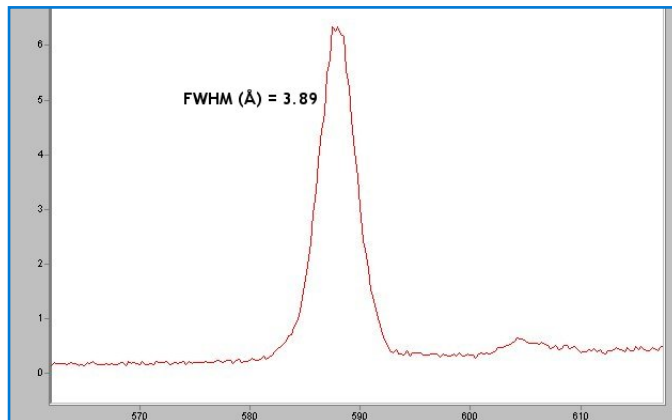
Repeatability test with 253.6 nm Hg line



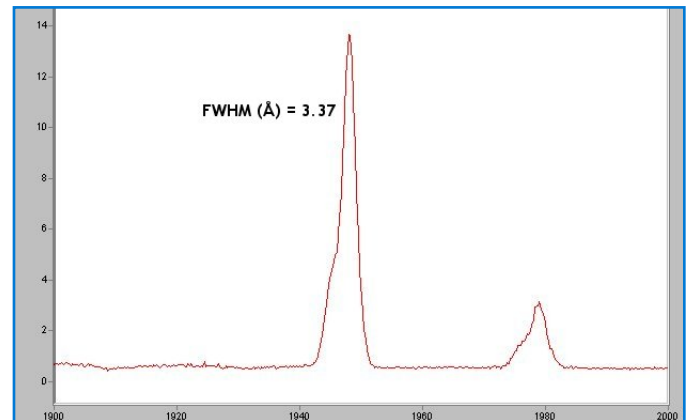
Helium Full Range Scan



Helium Line 58.4 nm



Mercury Line 194.2 nm



HORIBA Jobin Yvon your partner in Spectroscopy

Since our formation in 1819 by JB.Soleil, Jobin Yvon has been at the forefront of many optical and spectroscopic instrumentation. The company is committed to the design and manufacture of high quality optics, diffraction gratings and monochromator/

spectrograph systems from Soft X-ray to infrared. Please contact one of the HORIBA Jobin Yvon offices for further information on our products and/or for a consultation with our optical engineers.

We are pleased to work with you to find a suitable solution to your requirements.

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