Analysis :T12 -T13 NITRATION

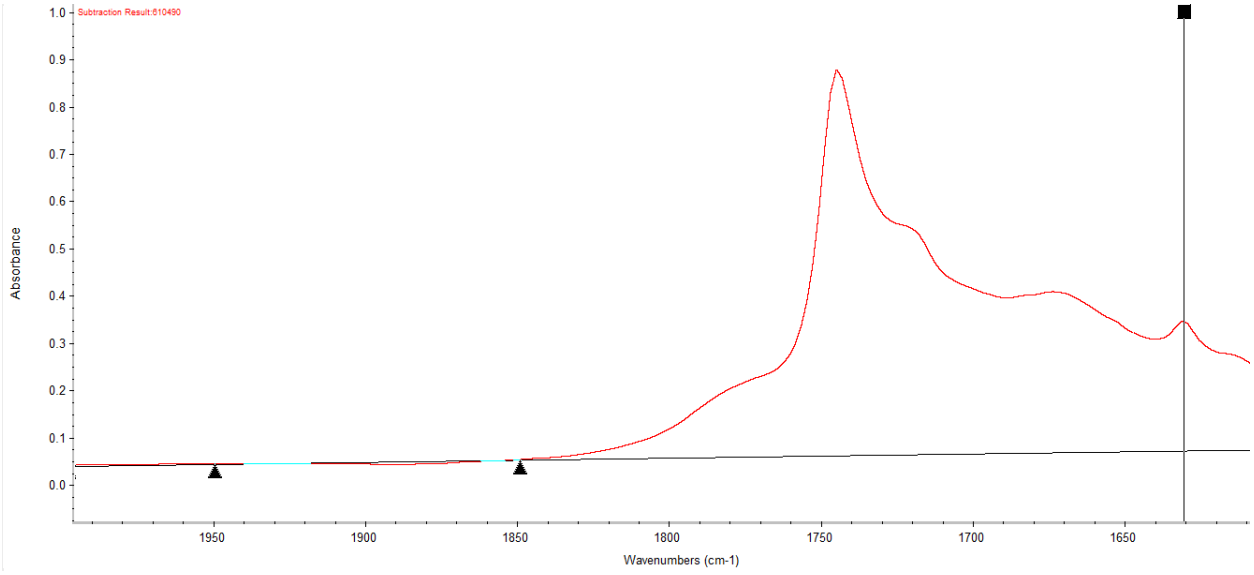
Overview

Nitration peak height and peak area are both measured with this method.

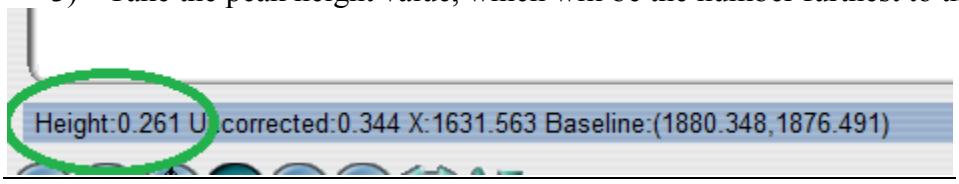
Cell: 0.05mm BaF_2

Peak Height Integration

1) Subtract the new from the used spectra.
2) Select a tangential baseline using 1850 and 1950 cm^{-1}. Select the highest peak in the region of 1620 – 1640 cm^{-1}.



3) Take the peak height value, which will be the number furthest to the left (see below), and

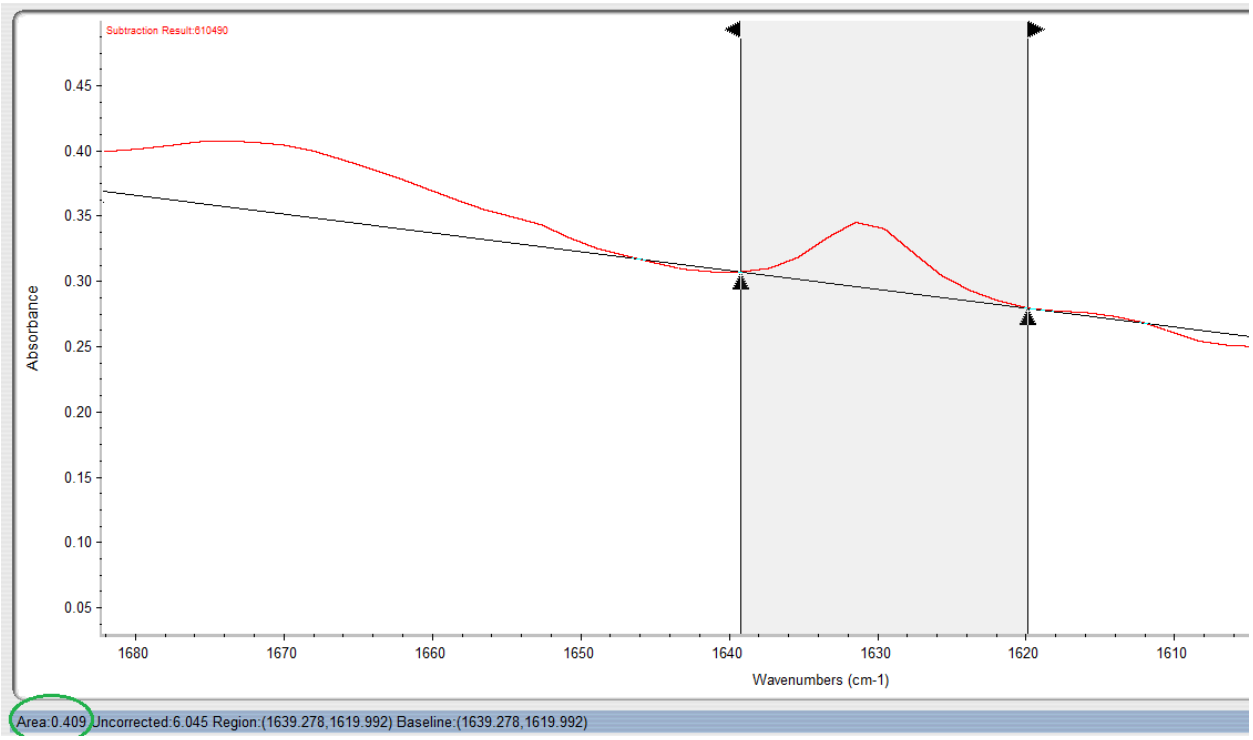


Enter the value in the equation below:

(peak height/cell size, mm)* 10 = XX.XX Abs/cm

Peak Area Integration

On the subtracted spectra, select the nitration baseline end points. *Note: the points are not fixed.*



Enter the peak area into the equation below to obtain the result:

(peak area/cell size, mm)* 10 = XX.XX Abs/cm^2