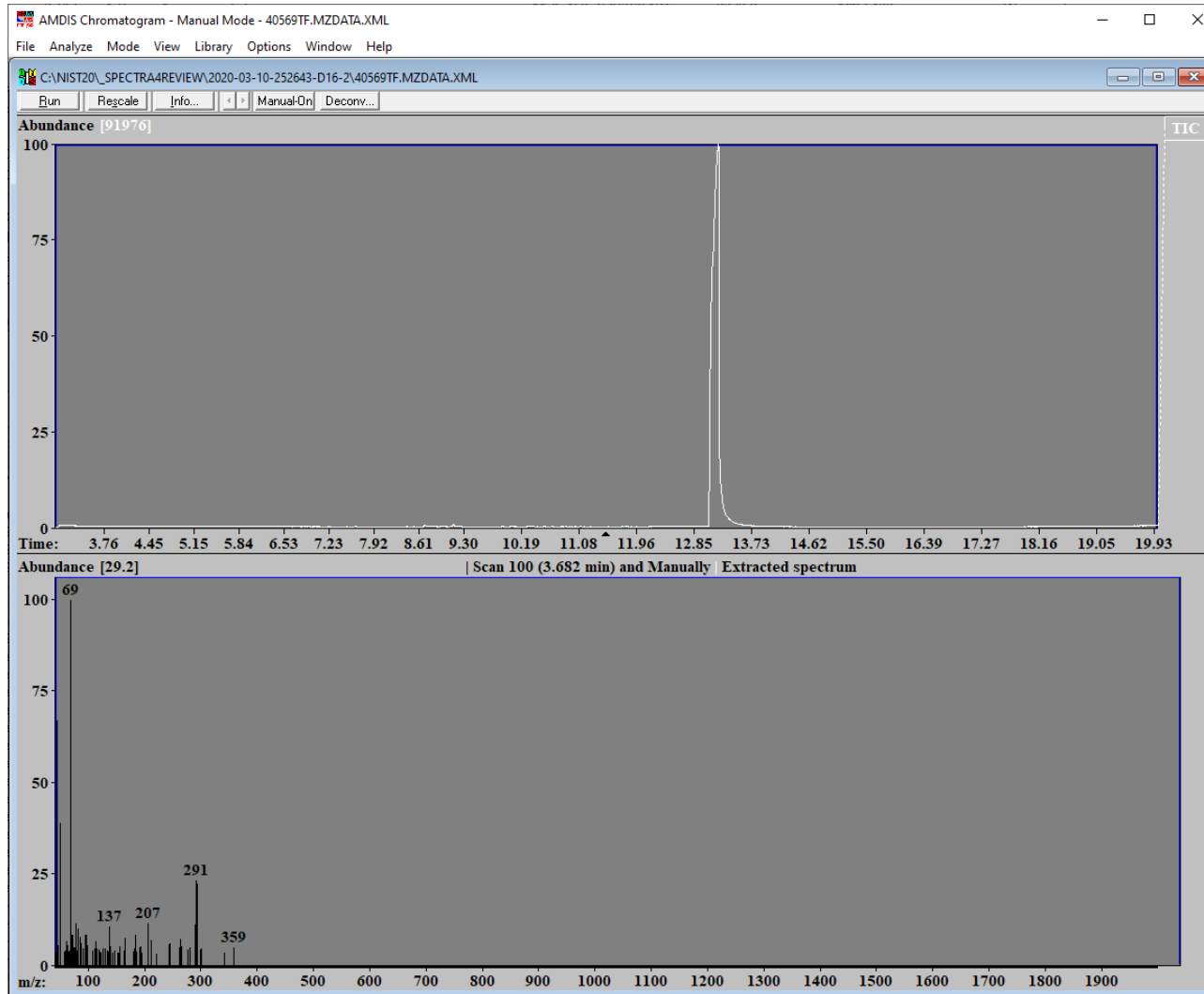


# Calibrating Retention Indices (RI) in AMDIS

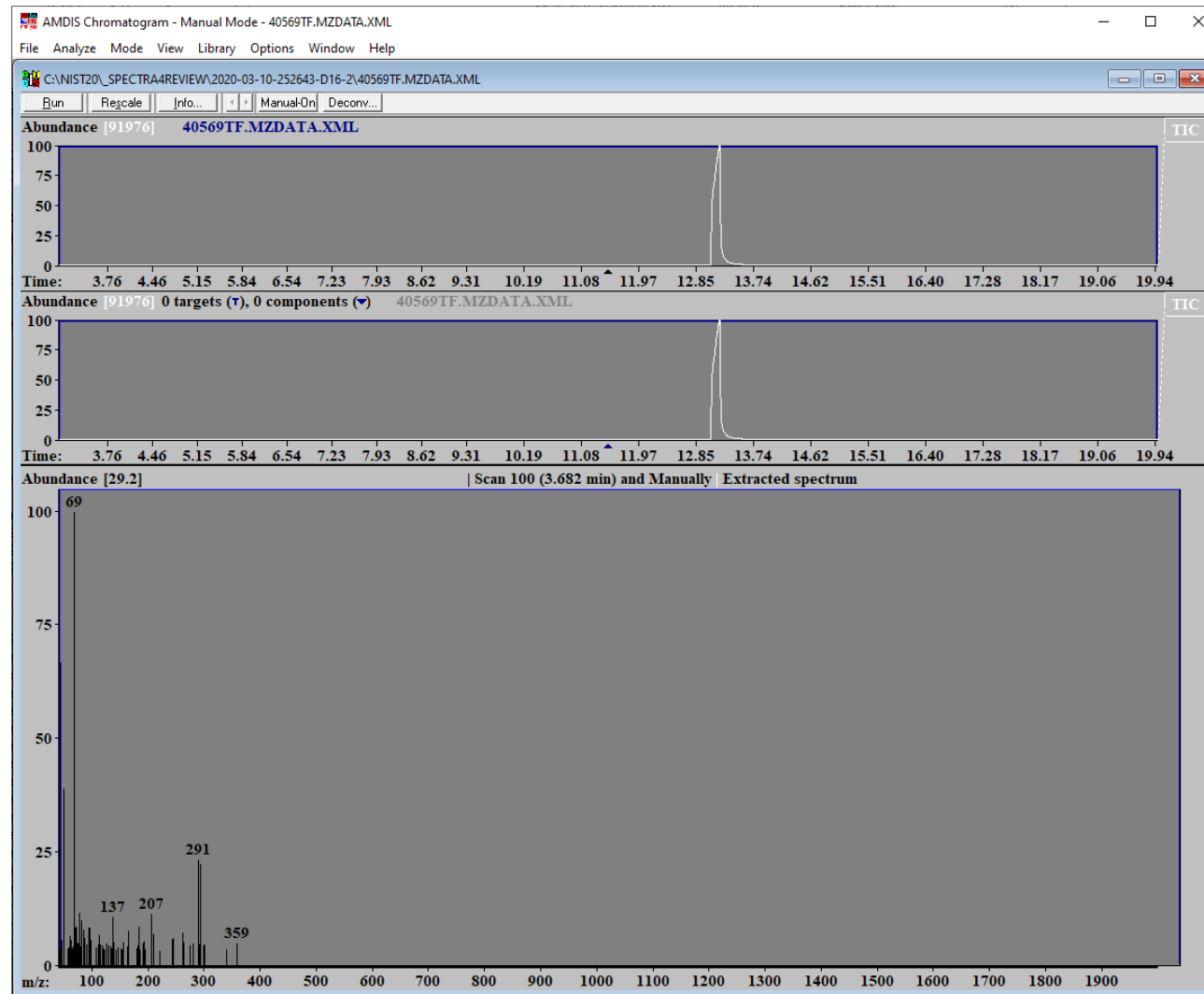
Sanford P. Markey

Nov 19, 2020

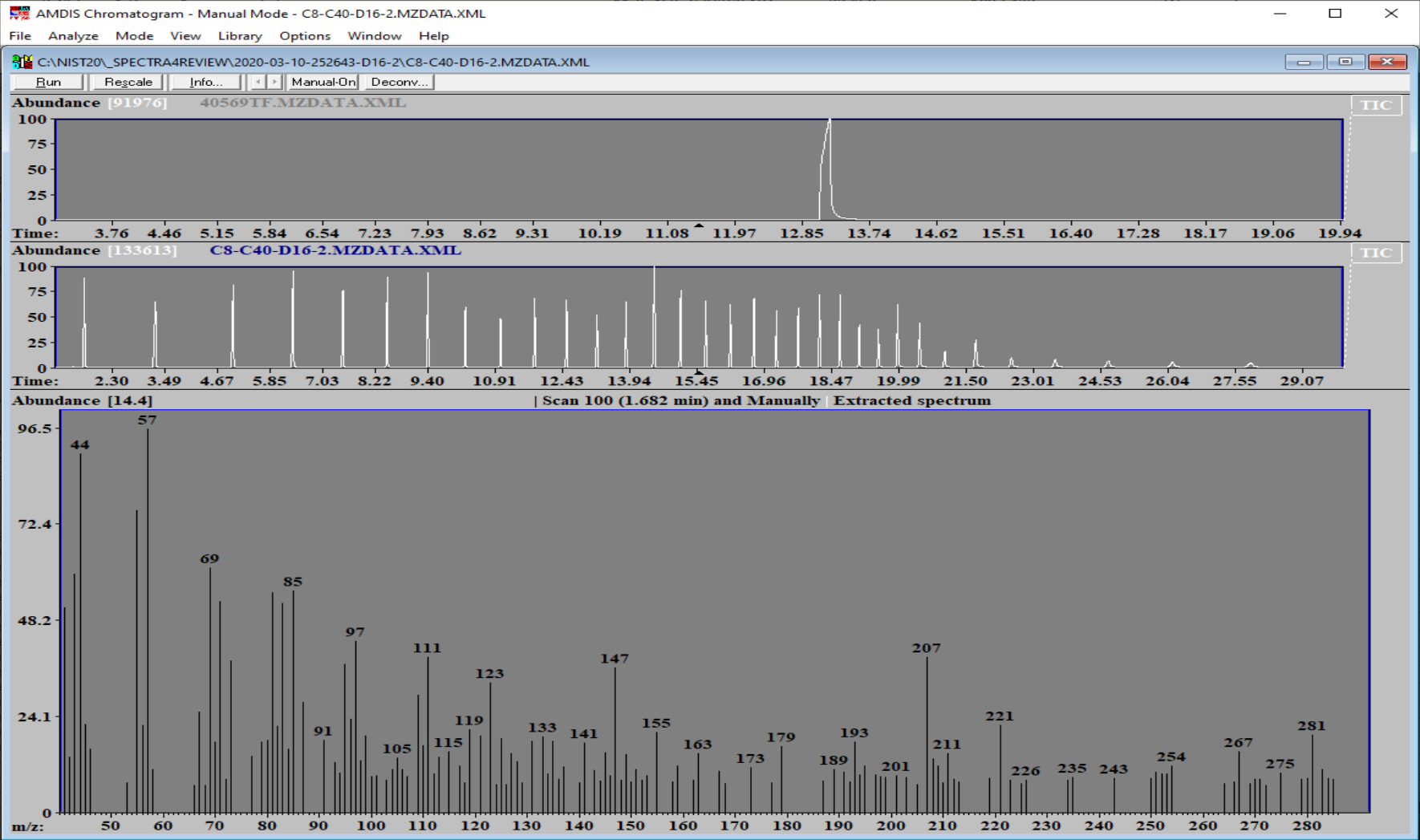
Open file of interest in AMDIS, sample for determination of RI below



Add file to itself so have an extra window  
(under File – select ‘Add Recent Files’)

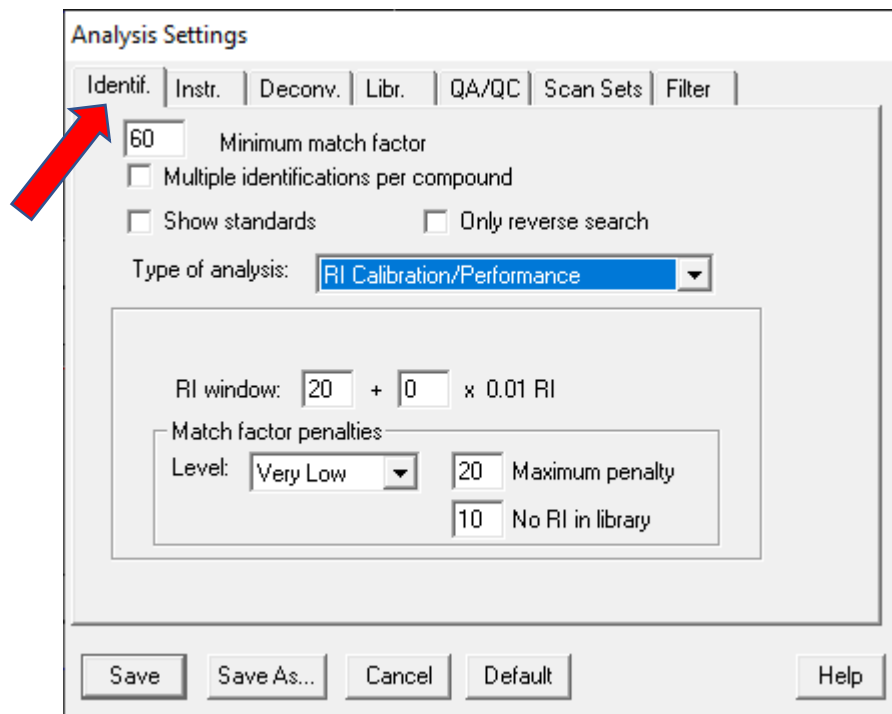


Open appropriate file containing calibration standards in the same data file. Sample on top, hydrocarbon calibration file on bottom



## Highlight Window containing Calibration Data

From **Analyze**, Choose **Settings** and in **Identif** tab,  
Select 



This will create analysis with the calibration data file to produce a correspondence table of RT/RI that will be used to translate all RT (retention times) into RI (retention indices).

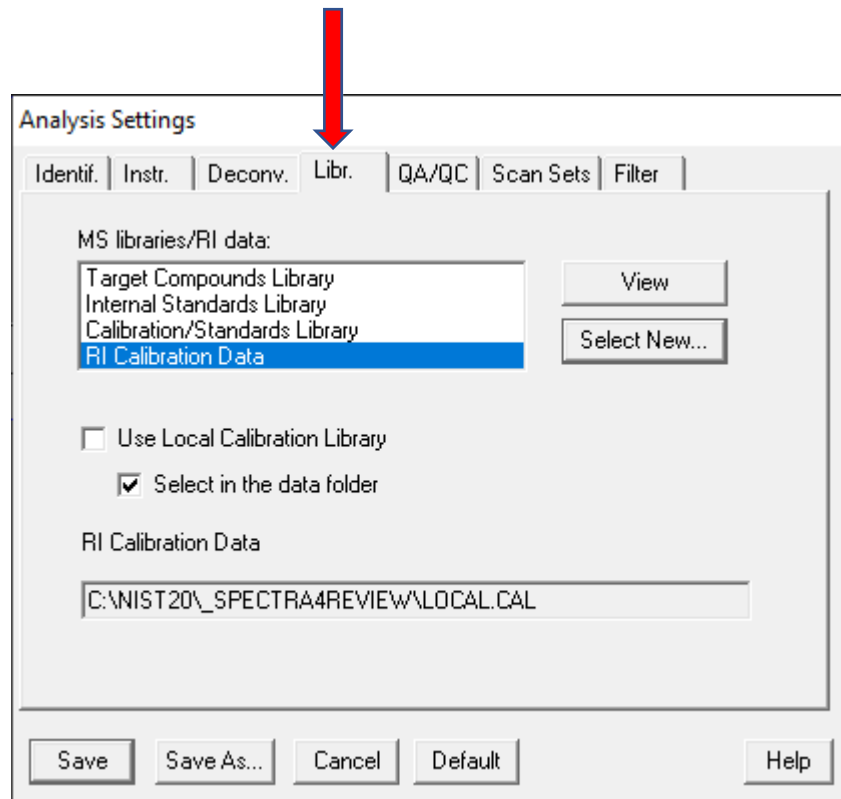
Then Migrate to **Libr.** tab;

Select option **RI Calibration Data**

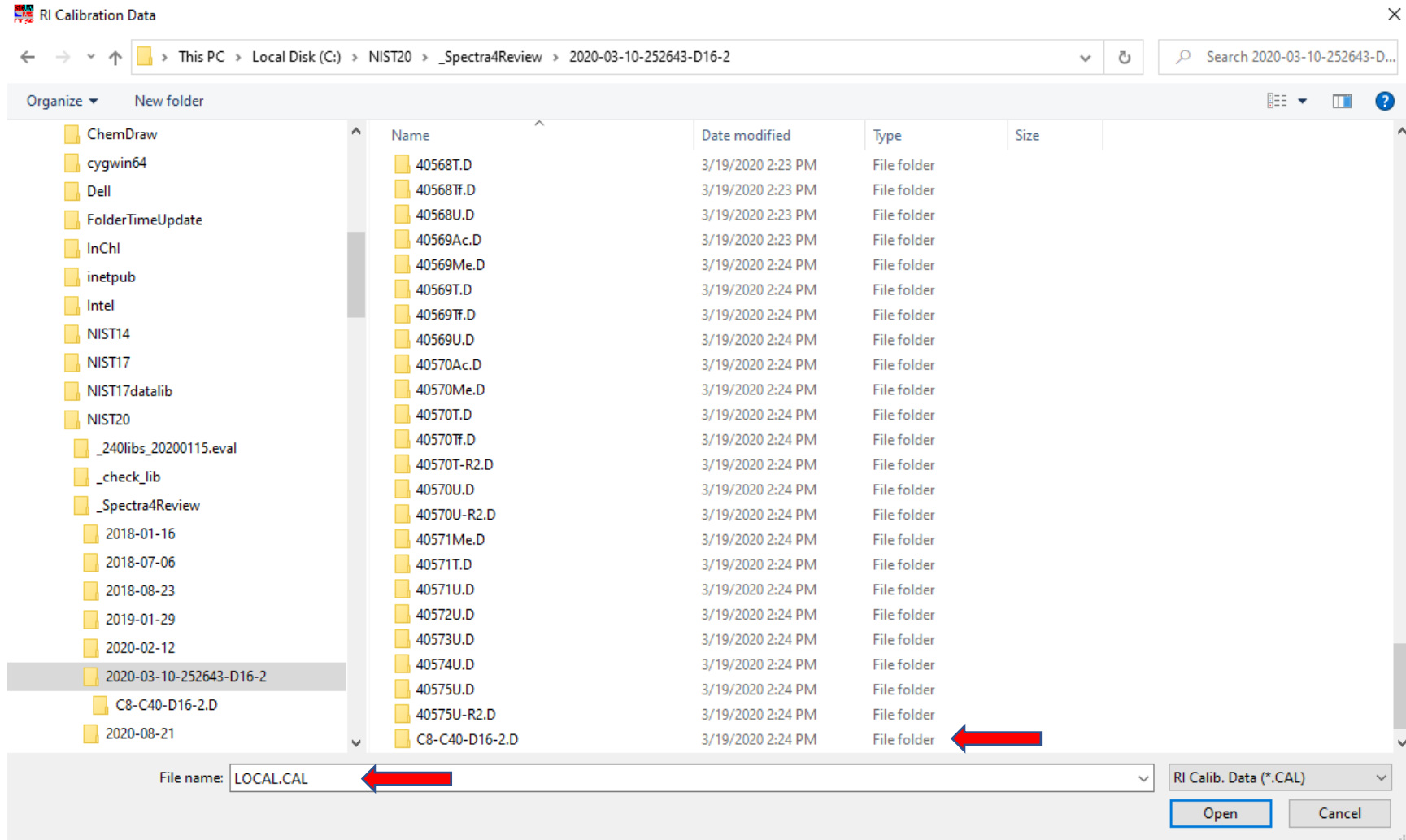
Check box  Select in the data folder

Select New to choose where the results will go;

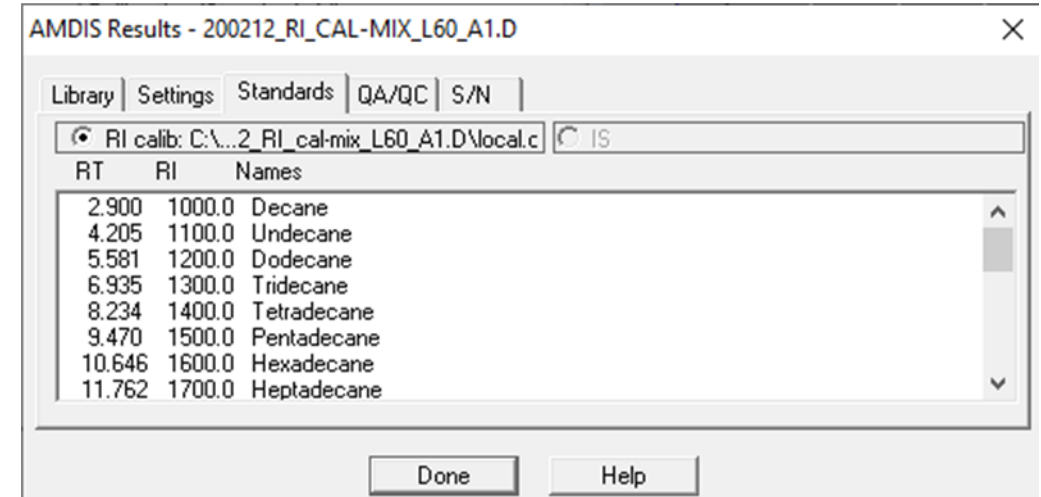
Select Open



Migrate to correct calibration folder and  
Choose or type in local.cal; then Open  
and then when window closes, choose Save and then Run



Once this is done you should be able to select the info button on the top of the screen and see the calibration file under standards



Note the folder location of local.cal so that it can be used for the sample run;

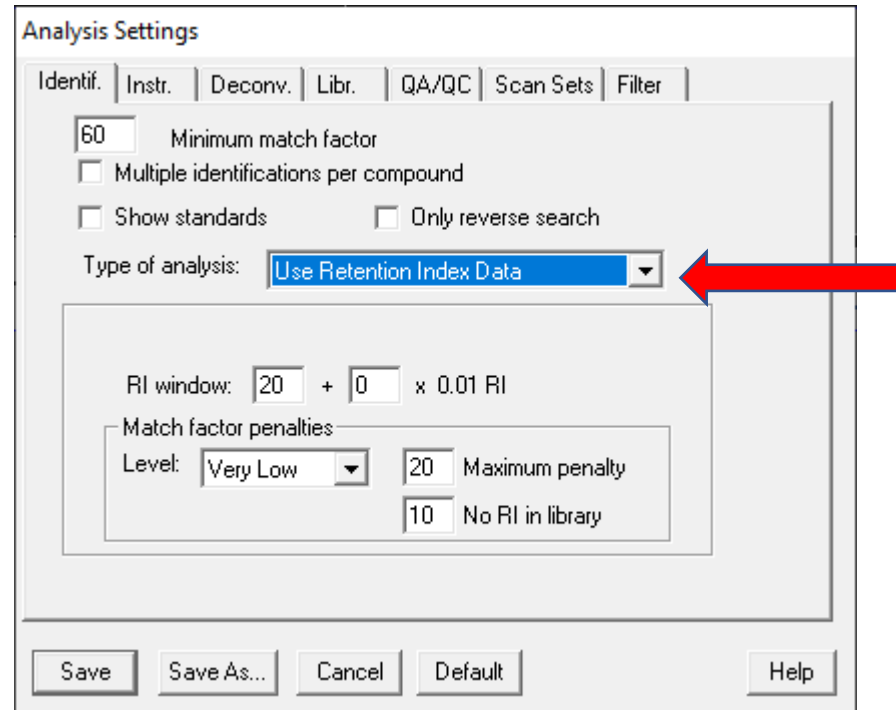
If in doubt, check the folder itself and see that there is a new Local.Cal file with current date in correct folder



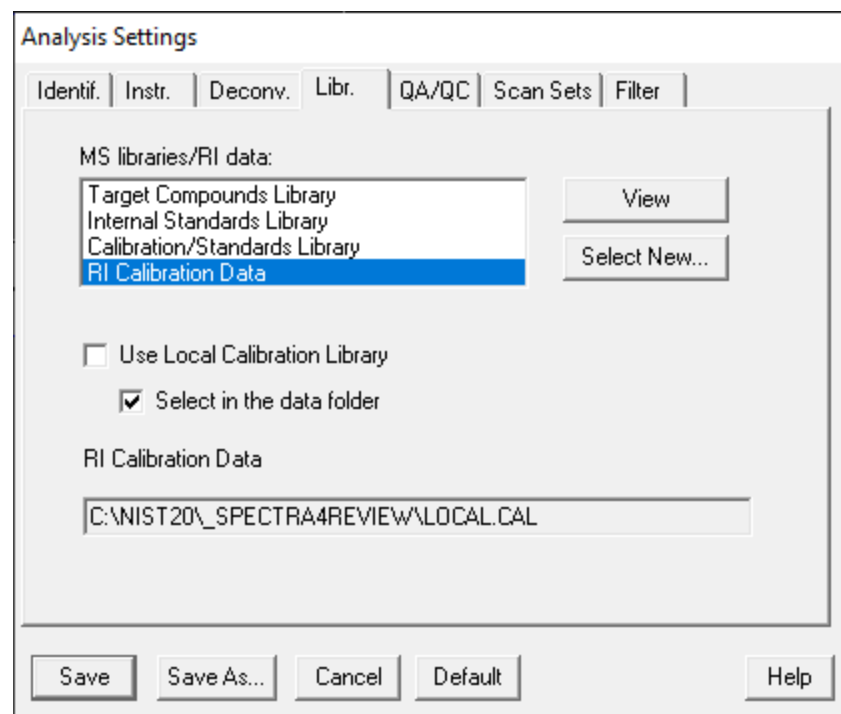
Switch active windows so pointer is in the Compound spectrum, not the Calibration window

Select the Settings dialog **Identif** tab

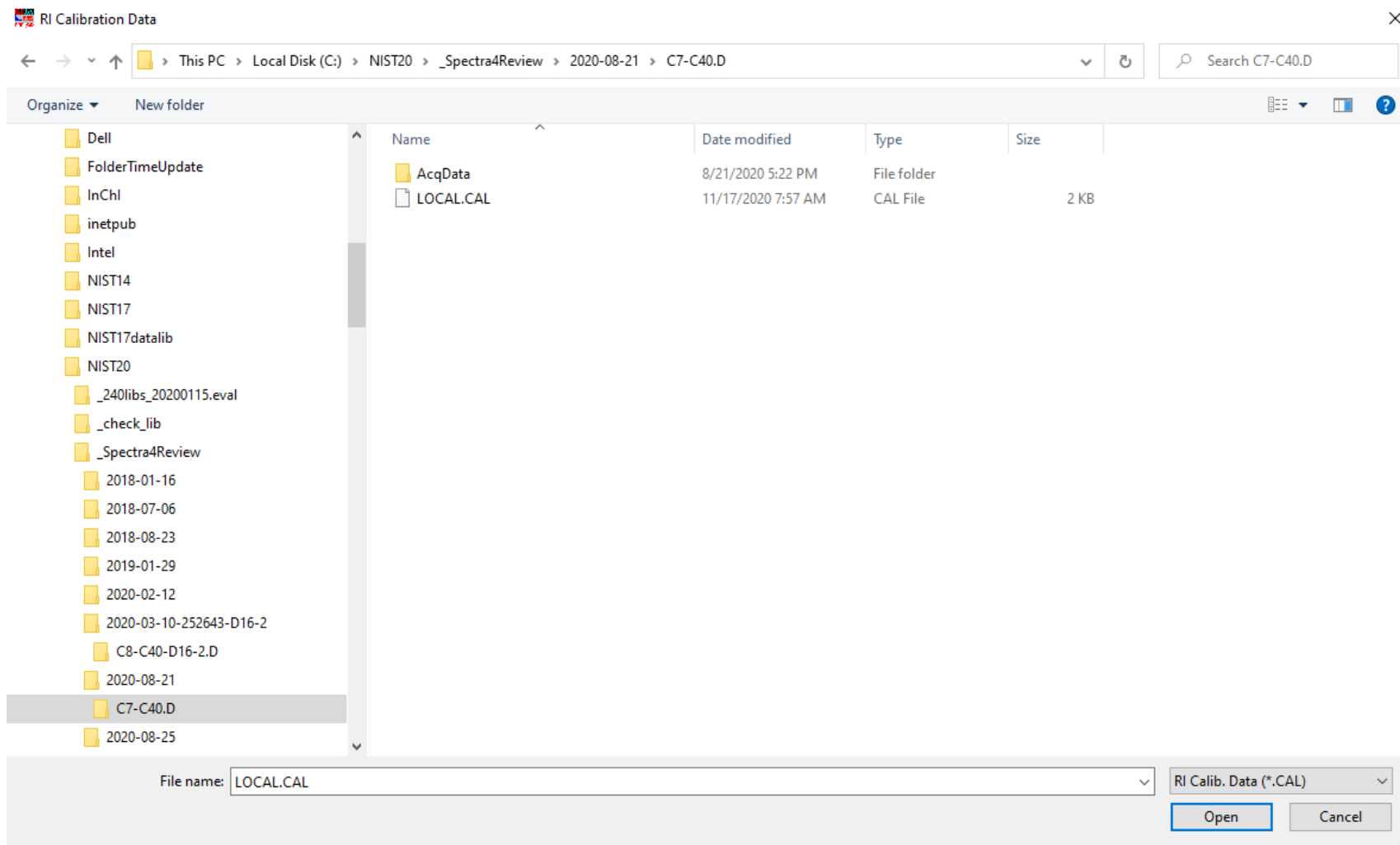
Select Use Retention Index Data

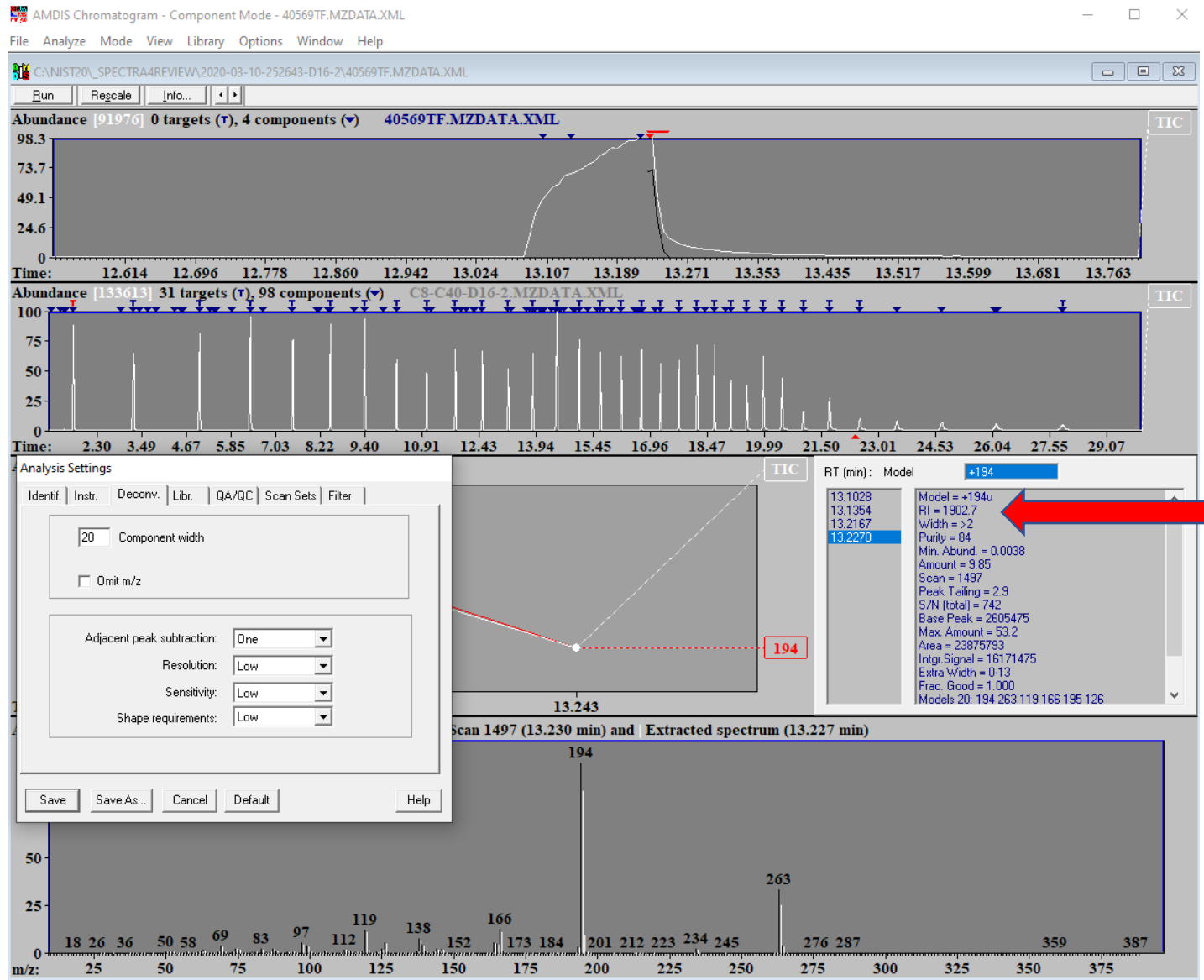


Migrate to the **Libr.** tab, select RI Calibration Data, and Select New



Migrate to same folder where you have placed local.cal; should have correct date; select Open





1902.7 value  
calculated for  
compound in  
top trace from  
series of  
hydrocarbons in  
bottom trace

The unknown file can be Run with chosen Deconvolution Settings, and with correctly applicable RI Cal applied, in this case 1902.7