I am using version 3 of the unit tester module to test the dataSmoother function in MSRESOLVE.

I am making a test1.py file using the inputs from UnitTestDataSmoother

Default Variables in test1.py:

Headers = [34,35]

dataSmootherChoice = ‘timerange’

dataSmootherTimeRadius = 2

dataSmootherPointRadius = 2

headersToConfineTo = []

polynomialOrder = 2

* Running test1.py yielded expected results

To make the function easier to interpret I have simplified the input array to [0,1,2] with the abscissa as an array of [0,1,2] and will input polynomial order of 1 in test2.py. This should output smoothedData as an array of 2 columns and 3 rows with each value mapped to the same value.

* After running the unit tester with test2.py, the output was as expected with some minor rounding errors.

Now I am going to test it with polynomial order 2 in test3.py and I am going to change the headersToConfineTo to [34] with the headers available being [34,35]

* Only the first column was changed as expectd

Test4.py I am going to use a headerToConfineTo that is not available

* Neither column was changed and a print statement was issued saying “You choose to smooth mass data which doesn’t exist in ‘chosenMassFragments’”

Test5.py manipulates dataSmootherTimeRadius and test6.py manipulates dataSmootherPointRadius