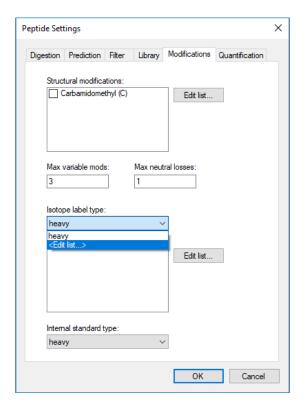
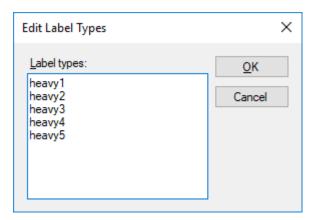
# Isotopolog Calibration Curve

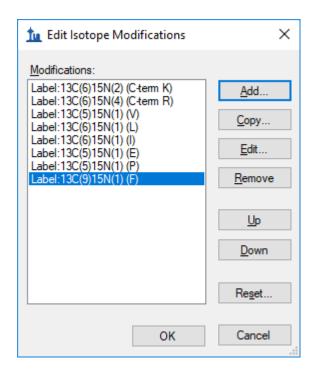
Nicholas Shulman Sept 10, 2019

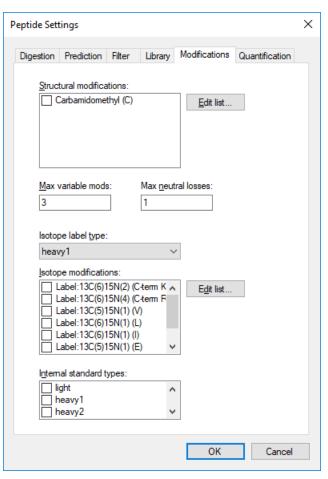
### Define 5 label types



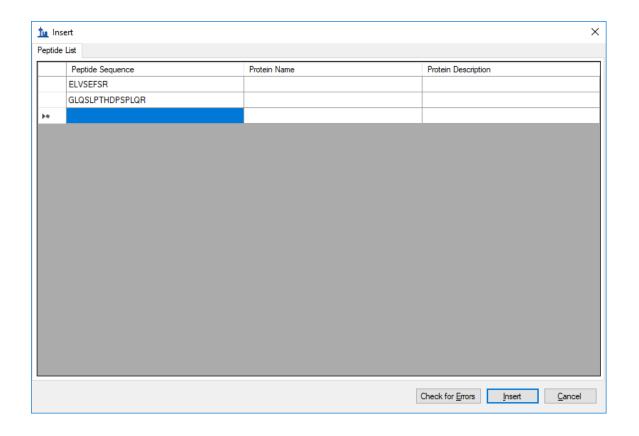


### Add necessary isotope modifications

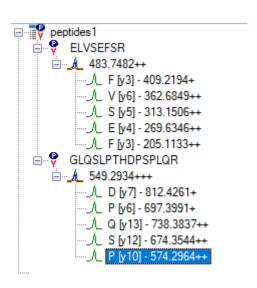




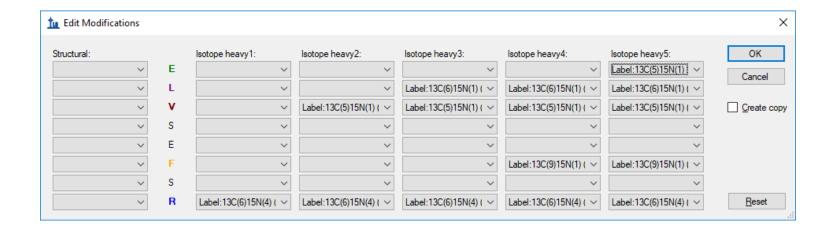
#### Edit > Insert Peptides

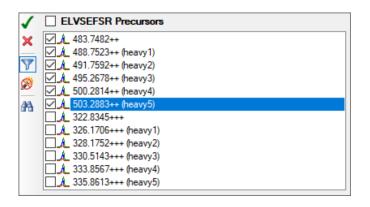


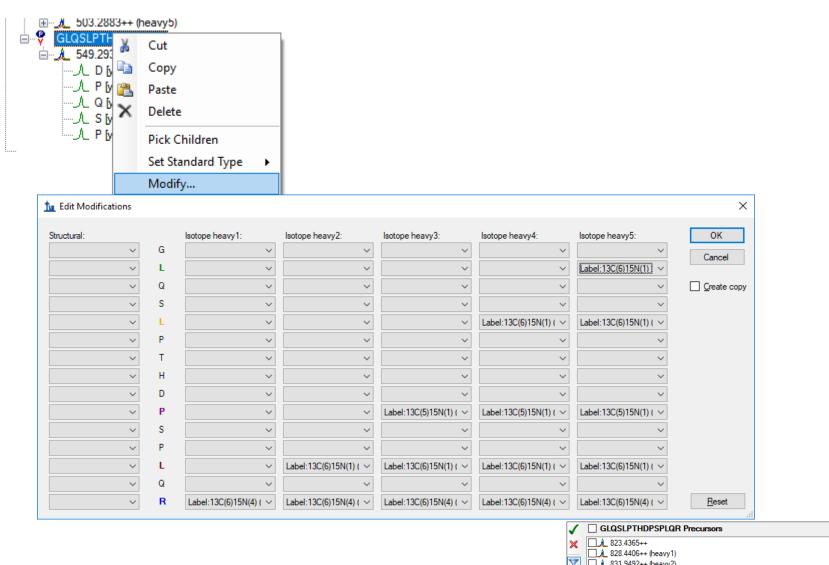
### Choose appropriate precursors and transitions

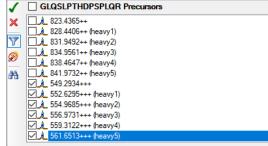


#### Modify the peptides

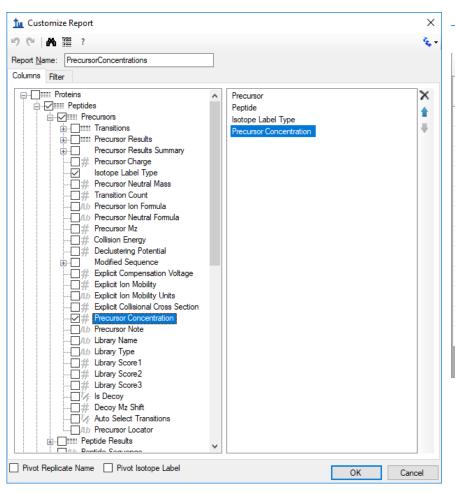






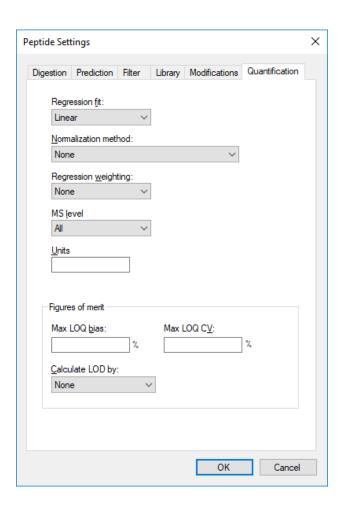


#### Set the Precursor Concentrations

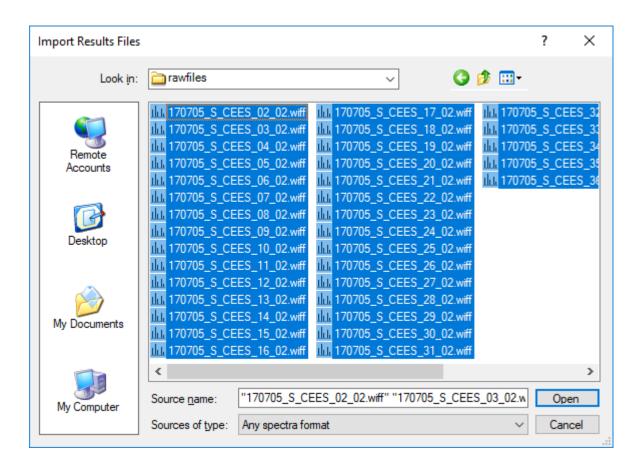


Document Grid: PrecursorConcentrations x					
Reports ▼   🗸 ▼   4   12 of 12			▶ N   <b>X</b>   🖺	Export Actions •	F
	Precursor	Peptide	Isotope Label Type	Precursor Concentration	
	483.7482++	ELVSEFSR	light		
	488.7523++ (he	ELVSEFSR	heavy1	200	
	491.7592++ (he	ELVSEFSR	heavy2	100	
	495.2678++ (he	ELVSEFSR	heavy3	20	
	500.2814++ (he	ELVSEFSR	heavy4	10	
	503.2883++ (he	ELVSEFSR	heavy5	2	
	<u>549.2934+++</u>	GLQSLPTHDPS	light		
	552.6295+++ (h	GLQSLPTHDPS	heavy1	200	
	554.9685+++ (h	GLQSLPTHDPS	heavy2	100	
	556.9731+++ (h	GLQSLPTHDPS	heavy3	20	
	559.3122+++ (h	GLQSLPTHDPS	heavy4	10	
<b>•</b>	561.6513+++ (h	GLQSLPTHDPS	heavy5	2	

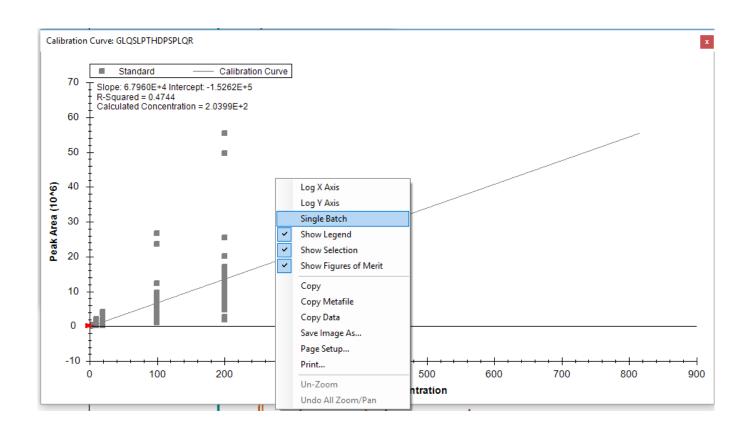
#### Set Quantification Regression fit



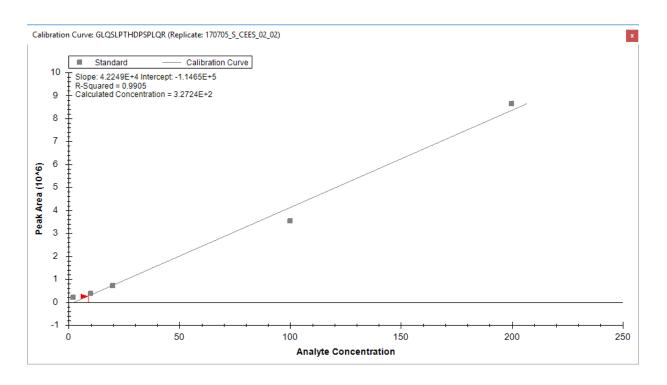
#### Import Results



### View Calibration Curve, and choose "Single Batch"



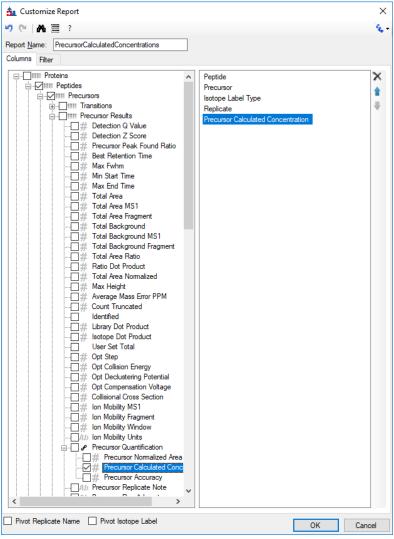
#### See calibration curve



#### Things that need to be fixed:

- Any precursors for which we have not specified a concentration for should be drawn on the graph as "Unknown" instead of "Standard".
- 2. The Calculated Concentration should reflect the currently selected precursor in the Targets tree. (Currently it shows a concentration calculated from the nonsensical sum of all of the transition areas across all precursors.)

## View Calculated Concentrations (requires Skyline-Daily)





Bug: Precursor Calculated Concentration is not calculated for precursors that have no specified Precursor Concentration