

User wishes to swap X-axis and Y-axis, to get X-axis for Area and Y-axis for Amount.

Current fields do not allow Amount in Y-value and Area in X-value. This can be done by creating new custom fields.

The screenshot shows the 'Components' tab of a software configuration window. The table below lists peak data. A dropdown menu is open for the 'X Value' column of the first row, showing options: Area, % Area, Height, Corrected Area, % Height, and None.

	Name	Peak Label	Retention Time (min)	RT Window (min)	Peak Match	Channel	Y Value	X Value	Fit	Weighting
1	Acetaminophen	ACE	0.868	0.050	Closest		Area	Amount	Linear	None
2	Impurity 1	IMP1	1.216	0.050	Closest		Area			
3	Impurity 2	IMP2	1.496	0.050	Closest		Height			
4	Caffeine	CAF	1.657	0.050	Closest		Corrected Area		Linear	None
5	Acetanilide	ACA	2.095	0.050	Closest		% Height		Linear	None
6	Acetylsalicylic Acid	ASA	2.788	0.050	Closest		None		Linear	None
7	Impurity 3	IMP3	2.844	0.050	Closest		Area	Amount	Linear	None


The screenshot shows the same software configuration window. The dropdown menu for the 'X Value' column is now open, showing options: Amount and Concentration.

	Name	Peak Label	Retention Time (min)	RT Window (min)	Peak Match	Channel	Y Value	X Value	Fit	Weighting
1	Acetaminophen	ACE	0.868	0.050	Closest		Area	Amount	Linear	None
2	Impurity 1	IMP1	1.216	0.050	Closest			Amount		
3	Impurity 2	IMP2	1.496	0.050	Closest			Concentration		
4	Caffeine	CAF	1.657	0.050	Closest		Area	Amount	Linear	None
5	Acetanilide	ACA	2.095	0.050	Closest		Area	Amount	Linear	None
6	Acetylsalicylic Acid	ASA	2.788	0.050	Closest		Area	Amount	Linear	None
7	Impurity 3	IMP3	2.844	0.050	Closest					

PROCEDURE

1. Select the project that requires the new custom fields to be created. Under Empower > Configuration > Properties > Custom fields > New
2. To create new custom fields for Area, select "Field Type: Peak" and "Data Type: Real (0.0)". Only by selecting "Peak", then the new custom field will appear in Processing Method's drop down list.

New Custom Field Wizard - Data and Type Selection



Select whether the field describes the Sample, the Component, the Sample Set, the Result, each Peak or each Slice in a distribution in a result.

Field Type

Sample
 Result
 Peak
 Sample Set
 Component

Select the type of data that will be entered in, or generated by, the custom field.


Data Type

Integer (0)
 Text
 Bool
 Real (0.0)
 Date
 Enum

< Back Next > Cancel Help

3. Leave the selections default and click Next.

New Custom Field Wizard - Source Selection



Select the source of the data:

Data Source

Keyboard
 External
 Calculated

Data entry is required.

Default Value :

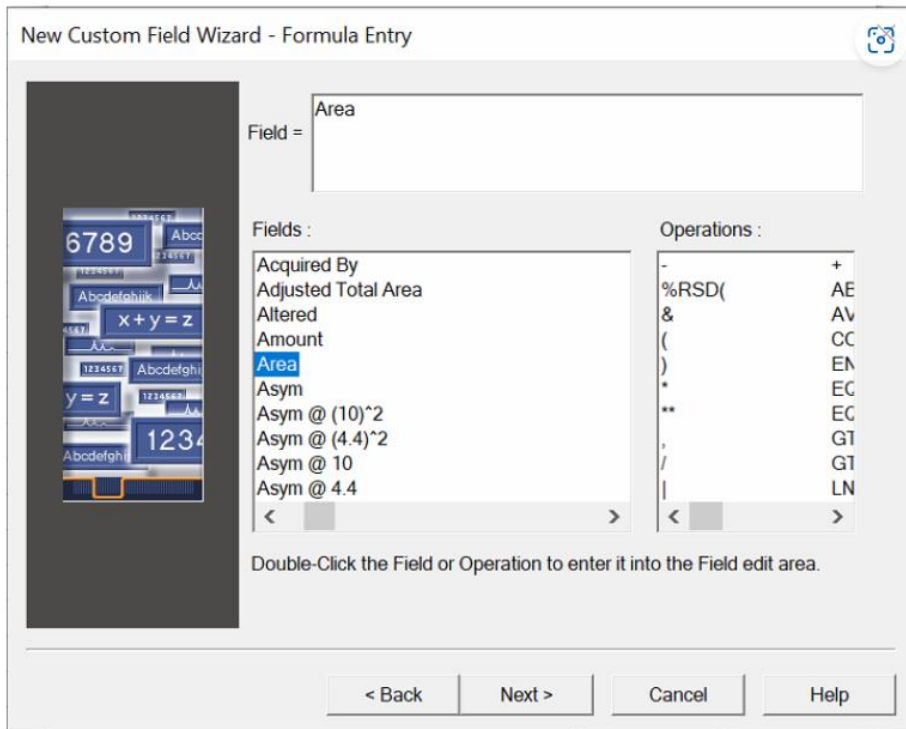
Search Order: Result Set First All or Nothing Use As:

Sample Type: All

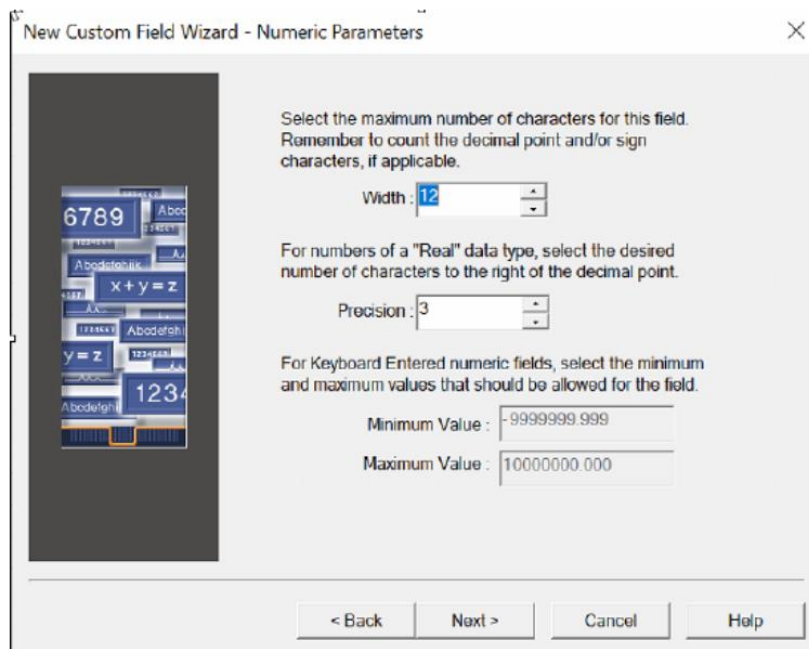
Peak Type: All Missing Peak

< Back Next > Cancel Help

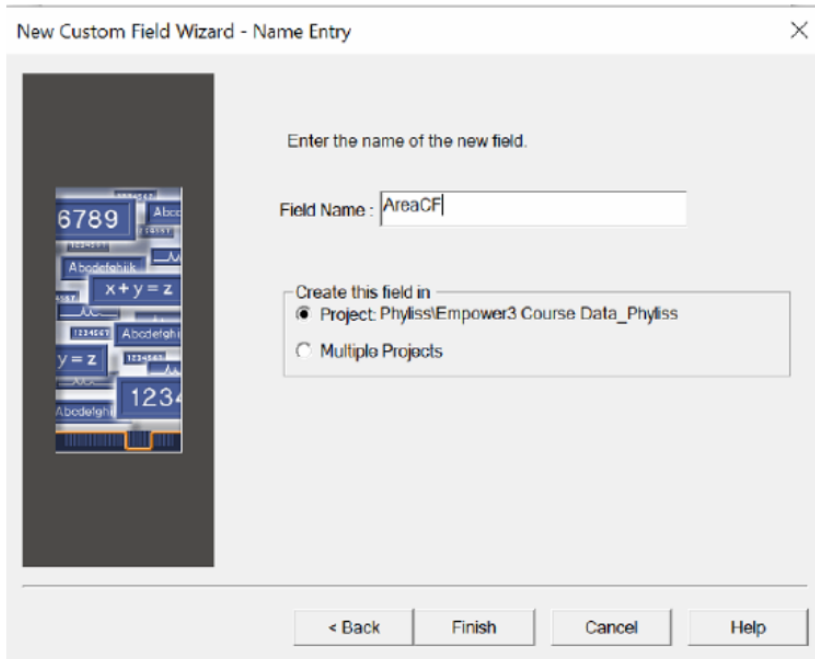
4. Select Field = Area



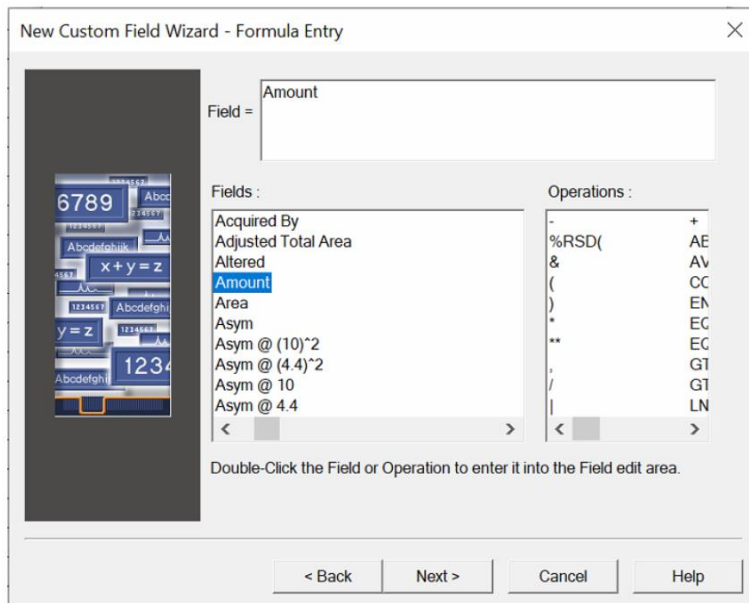
5. The width represents how many characters. Precision represents the number of decimal places. A negative sign and decimal place is counted as a character.
This will affect the accuracy of the calibration curve.

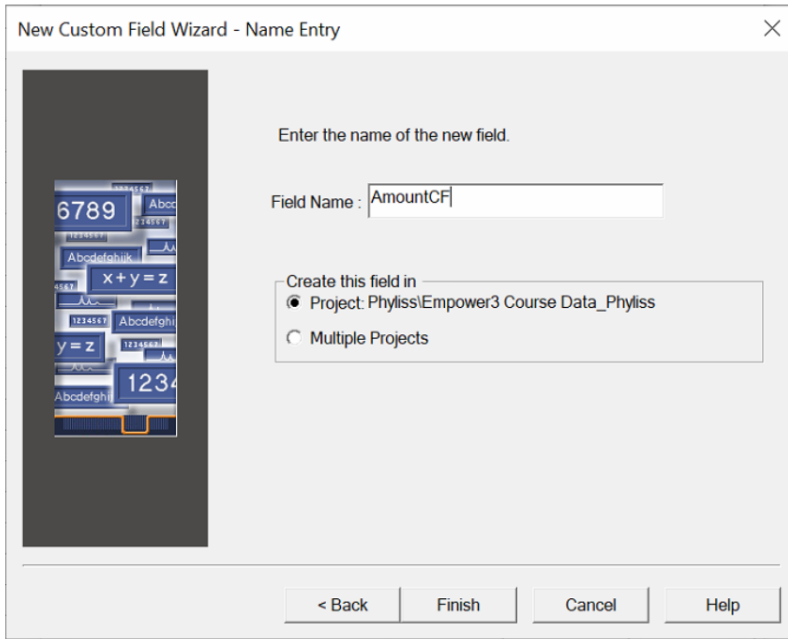


6. Enter the name of the field. Give a different name so it is not confused with the original field. In this case, AreaCF stands for Area Custom Field. Click Finish.

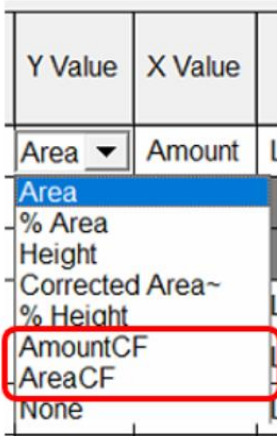


- Repeat Step 2 to 5 with the same parameters to create another custom field for Amount. In this case, AmountCF





- Return to Result Set > Processing Method > Components
The new custom fields now appear in the drop down list.
Select AmountCF for Y-value and AreaCF for X-value.



AG Standard 2 in Empower3 Course Data as Alyssa/Administrator - Review - [LC Processing Method]

File Edit View Tools Plot Process Navigate Options Window Help

Integration Smoothing/Offset Components Impurity Peak Ratios (MS Ion Ratios) Default Amounts/Purity Named Groups Timed Groups Suitability Limits Noise and Drift

Average By: None Update RT: Never

RT Window (%): 5.00 CCalRel1: Acetaminophen

Include Internal Std Amounts in % Amount Calculation

Sample Value Type: Amount Auto Peak Label: RT Reference Used to Name Unnamed Peaks by RRT:

Name	Component Type	Peak Label	Retention Time (min)	RT Window (min)	Peak Match	3D Channel Name (Description)	Channel	Y Value	X Value	Fit	Weighting	Internal Std	RT Reference	Rel RT Reference	RR
1	Acetaminophen		0.870	0.044	Closest			AmountCF	AreaCF	Linear	None				
2	Caffeine		1.660	0.083	Closest			AmountCF	AreaCF	Linear	None				
3	Acetanilide		2.100	0.105	Closest			AmountCF	AreaCF	Linear	None				
4	Acetylsalicylic Acid		2.780	0.139	Closest			AmountCF	AreaCF	Linear	None				
5	Phenacetin		3.100	0.155	Closest			AmountCF	AreaCF	Linear	None				

9. Reprocess and calibrate all the standards.

AG Standard 2 in Empower3 Course Data as Alyssa/Administrator - Review - [LC Processing Method]

File Edit View Tools Plot Process Navigate Options Window Help

Integration Smoothing/Offset **Components** Impurity Peak Ratios (MS Ion Ratios) DefaultAmounts/Purity Named Groups Timed Groups Suitability Limits Noise and Drift

Average By: None Update RT: Never
 RT Window (%): 5.00 CcRef1: Acetaminophen
 Include Internal Std Amounts in % Amount Calculation
 Sample Value Type: Amount Auto Peak Label: RT Reference Used to Name Unnamed Peaks by RRT: []

	Name	Component Type	Peak Label	Retention Time (min)	RT Window (min)	Peak Match	3D Channel Name (Description)	Channel	Y Value	X Value	Fit	Weighting
1	Acetaminophen			0.870	0.044	Closest			AmountCF	AreaCF	Linear	None
2	Caffeine			1.660	0.083	Closest			AmountCF	AreaCF	Linear	None
3	Acetanilide			2.100	0.105	Closest			AmountCF	AreaCF	Linear	None
4	Acetylsalicylic Acid			2.780	0.139	Closest			AmountCF	AreaCF	Linear	None
5	Phenacetin			3.100	0.155	Closest			AmountCF	AreaCF	Linear	None

10. Open calibration curve. The Amount appears in Y-axis and Area is in X-axis.

