

GatorOne v2.18 Release Note

Release Oct 2025

Introduction

Version 2.18 of GatorOne is intended to operate the Gator® instrument.

This document is intended for current Gator Bio customers who have a Gator instrument and use the GatorOne software for assay setup and data analysis.

Product Number: 600001

Supported Instruments: Gator® Pilot, Gator® Prime and Gator® Plus (all serial numbers)

Supported operating systems: Windows 10

Important note: This software supports downward compatibility only. Data collected using Version 2.18 cannot be imported into V2.16 or earlier versions. However, all data from previous versions can be seamlessly imported and analyzed in Version 2.18.

Highlighted Features:

- Kinetics or EP Data Combination

Release Note Contents:

- Changes Since Last Release
- Upgrade Instruction

1.0 SELECTED CHANGES SINCE LAST RELEASE

1.1 Assay Setup New Features

- 1.1.1 In the Epitope Binning assay setup, add a toggle option to show sample names in the plate layout. When enabled, export the plate layout as an Excel file that includes sample names and color-coded step types for easy printing and pipetting.

96 Plate

96 Plate

Sandwich Tandem

Show Name: ☒ On

Export

(B) Buffer

(L) Loading

(A) Association1

(A) Association2

(A) Activation

(Q) Quench

	1	2	3	4	5	6	7	8	9	10	11	12
A	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	909	(Q)	Trl
B	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	820	(Q)	Trl
C	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	MF4	(Q)	Trl
D	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	3C7	(Q)	Trl
E	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	19C7	(Q)	Trl
F	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	500	(Q)	Trl
G	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	BE10	(Q)	Trl
H	(B)	909	820	MF4	3C7	19C7	500	BE10	18A11	18A11	(Q)	Trl

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	Sample Plate																												
2	Sample																												
3	A	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	909	Quench	Trl																
4	B	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	820	Quench	Trl																
5	C	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	MF4	Quench	Trl																
6	D	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	3C7	Quench	Trl																
7	E	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	19C7	Quench	Trl																
8	F	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	500	Quench	Trl																
9	G	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	BE10	Quench	Trl																
10	H	Buffer	909	820	MF4	3C7	19C7	500	BE10	18A11	18A11	Quench	Trl																

- 1.1.2 The K experiment setup now supports cycle reordering, giving users greater flexibility and control in experiment design.

Cycle 1		Position												Step Type	Time (sec)	Speed (rpm)														
Step 1	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Step 2	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Loading	120	1000	X
Step 3	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Add Step																														
Cycle 2		Position												Step Type	Time (sec)	Speed (rpm)														
Step 1	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Step 2	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Loading	120	1000	X
Step 3	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Add Step																														
Cycle 3		Position												Step Type	Time (sec)	Speed (rpm)														
Step 1	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Step 2	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Loading	120	1000	X
Step 3	96	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12	Baseline	120	1000	X
Add Step																														
Add Cycle																														
Regeneration Settings: Off Regeneration Before Assay: Off Threshold Settings: Off																														

1.2 Result & Analysis New Features

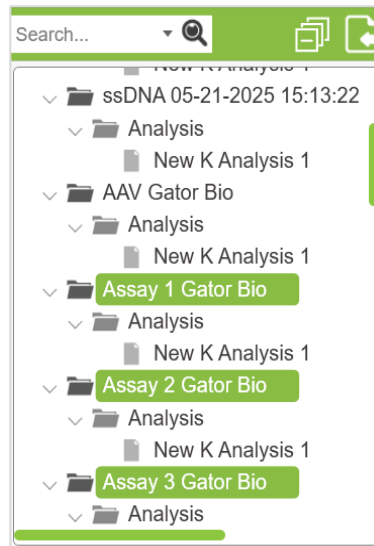
1.2.1 Combine multiple Kinetics or Epitope Binning assay files for batch analysis in a single report, helping to streamline your workflow and reduce analysis time.

To combine files:

- In the navigation panel, hold Ctrl and click to select multiple files.
- Right-click the selection and choose "Combine".
- GatorOne will generate a new assay file named: CombinedResult_mm-dd-yyyy_hh-mm-ss
The assays will be concatenated in the order in which they are selected.

Note:

- For Kinetics, we recommend keeping assay steps and step durations consistent across all selected files to ensure better visualization and comparison.
- For Epitope Binning, aligning pairwise settings and assay step durations is also recommended for clearer interpretation.
- All selected assays must use the same plate format, either 96-well only or 384-well only. If mismatched formats are selected, the software will display a warning message and prevent combining.
- GatorOne supports combining 10 or more experiment files, offering unmatched flexibility for large-scale analysis.
- For the best performance and responsiveness, we recommend keeping combined assays under 128, ensuring a balance between power and usability.
- This function is not available for users operating in CFR Part 11 mode.



1.2.2 Curve Fitting Improvements in BLI Analysis. For more details, see **Appendix**

1.2.3 Reports now display the file location, making it easier for users to find the original data.

	A	B
1		
2	Experiment Summary	
3	Experiment Summary	Value
4	Assay Description	
5	Assay User	
6	Creation Time	MM-DD-YYYY HH-MM-SS
7	Modification Time	MM-DD-YYYY HH-MM-SS
8	Result Path	C:\GatorOne\Release\Data\Result\K Result\Gator Bio MM-DD-YYYY hh-mm-ss
9	Result Name	GB MM-DD-YYYY HH-MM-SS
10	Analysis Name	AssociationBeginLocalFull
11	History Analysis record Name	
12	Current Login User	
13	Product Version :	2.7.4.0905
14	Loading Threshold :	On
15	Signal Value :	1.2 nm
16	Apply To :	All Channel

1.3 Result & Analysis Amendment

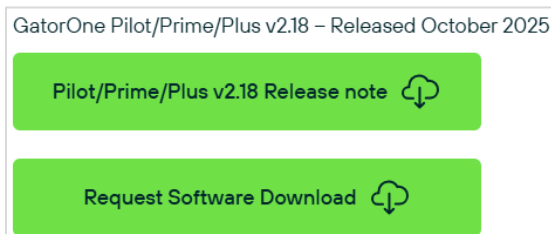
1.3.1 Improved accuracy with corrected Chi-square values.

1.3.2 Seamless data handling with resolved Excel export warning in Quantitation report.

1.3.3 The % recovery calculation is now omitted when no known concentration is provided for quantitation.

2.0 UPGRADE INSTRUCTIONS

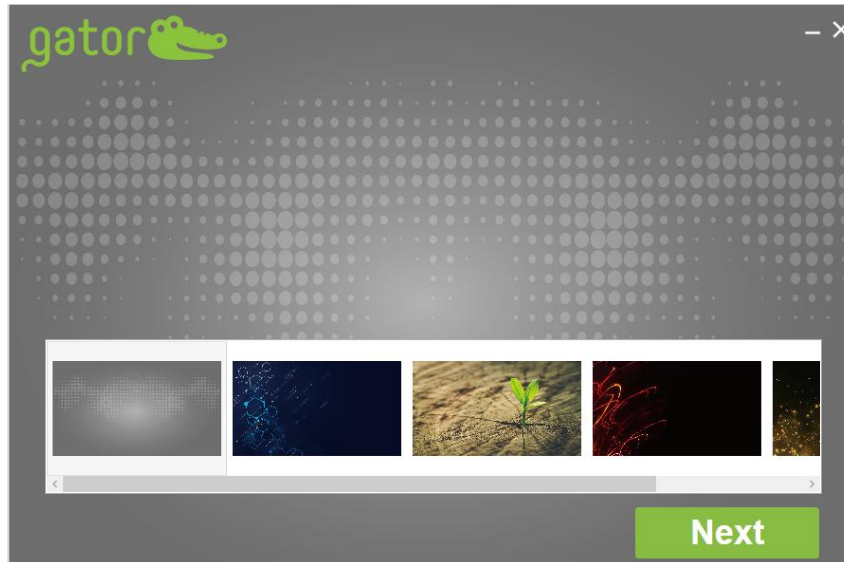
- 2.1** (For US customers only) Visit www.gatorbio.com. In the upper-right corner, click “Shop” and log in using a valid email and password, then proceed to Step 2.3.
- 2.2** If you do not have access through “Shop”, navigate to the “Products” tab, click “Software”, select “Request Software Download.” Complete the form and click “Submit”, then proceed to Step 2.5.

A screenshot of the "Download GatorOne Software" form. On the left, there is a heading "Download GatorOne Software" and a small image of a person in a lab coat. The form itself has several fields: "First Name*" (Gator), "Last Name*" (Bio), "Company*" (Gator Bio), "Email*" (info@gatorbio.com), "Country*" (United States), "State*" (California), and "Postal Code*" (94303). There are checkboxes for "Instrument*" with "Gator Prime" selected. A "Software Requested" dropdown menu is set to "Gator Pilot / Prime / Plus". At the bottom is a green "Submit" button. A small disclaimer at the bottom right states: "Gator Bio Inc. needs the contact information you provide to better connect you with our products and services. You may unsubscribe from these communications at any time. For information on how to unsubscribe, as well as our privacy practices and commitment to protecting your privacy, please review our Privacy Policy."

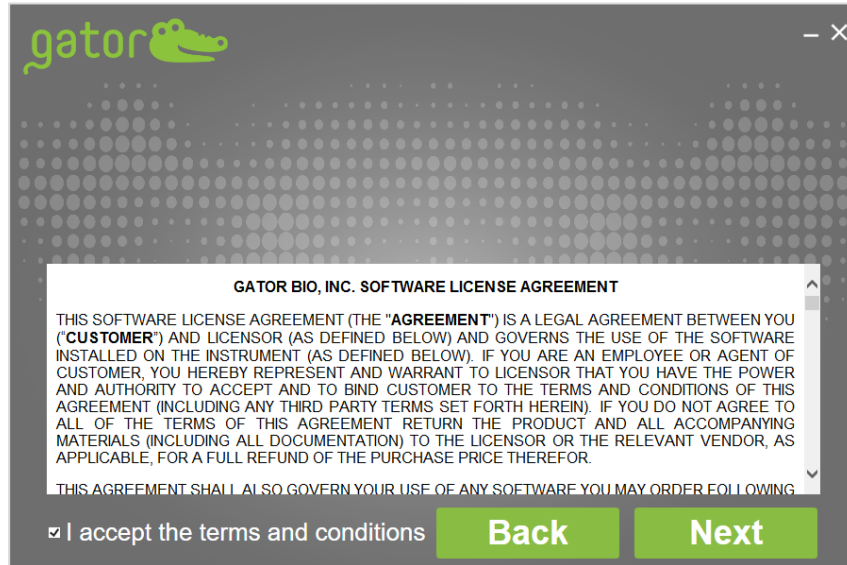
- 2.3** Click “Add to Cart” or “Add to Quote”, then go to your cart (upper-right corner) to proceed with checkout.
- 2.4** Complete the order form and submit. You will see an “Order Received” confirmation, and a Gator Bio representative will follow up.
- 2.5** For questions about eligibility for a complimentary software upgrade, contact Gator Bio Support at support@gatorbio.com, your regional Gator Bio representative, or your authorized distributor, or use the request form from Step 2.2.
- 2.5.1** After submitting the request form or receiving order approval, please follow up with your Gator Bio representative and provide the Installation ID displayed

during software installation or upgrade. The representative will verify your eligibility and provide a valid Serial Number, which you can use during the installation or upgrade at Step 2.12.

- 2.6** After submission, you will receive a download link from Gator Bio. Click the link to download the software ZIP package.
- 2.7** Right-click the downloaded ZIP file and select “Extract” to unzip it using the Windows extraction tool.
- 2.8** Move the extracted .exe file to the C:\ Drive on the computer connected to your Gator instrument.
- 2.9** Close the GatorOne software, then right-click the installer (.exe) and select “Run as administrator” to begin the upgrade.
- 2.10** Select one of the five color themes for the software and then click Next.



- 2.11** Read through the Software License Agreement and check the box to agree. Click Next.



GATOR BIO, INC. SOFTWARE LICENSE AGREEMENT

THIS SOFTWARE LICENSE AGREEMENT (THE "AGREEMENT") IS A LEGAL AGREEMENT BETWEEN YOU ("CUSTOMER") AND LICENSOR (AS DEFINED BELOW) AND GOVERNS THE USE OF THE SOFTWARE INSTALLED ON THE INSTRUMENT (AS DEFINED BELOW). IF YOU ARE AN EMPLOYEE OR AGENT OF CUSTOMER, YOU HEREBY REPRESENT AND WARRANT TO LICENSOR THAT YOU HAVE THE POWER AND AUTHORITY TO ACCEPT AND TO BIND CUSTOMER TO THE TERMS AND CONDITIONS OF THIS AGREEMENT (INCLUDING ANY THIRD PARTY TERMS SET FORTH HEREIN). IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT RETURN THE PRODUCT AND ALL ACCOMPANYING MATERIALS (INCLUDING ALL DOCUMENTATION) TO THE LICENSOR OR THE RELEVANT VENDOR, AS APPLICABLE, FOR A FULL REFUND OF THE PURCHASE PRICE THEREFOR.

THIS AGREEMENT SHALL ALSO GOVERN YOUR USE OF ANY SOFTWARE YOU MAY ORDER FOLLOWING

☒ I accept the terms and conditions

Back **Next**

2.12 Choose the correct **Gator model** from the drop-down list at the bottom left to upgrade or install the GatorOne Software.

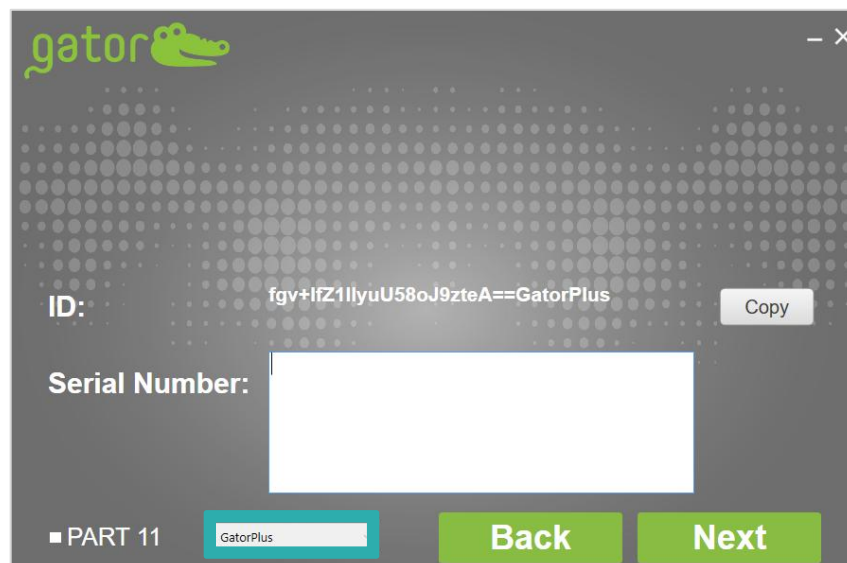
Note: A **new Serial Number** is required for both upgrades and new installations. Please obtain this from your Gator Bio representative after eligibility verification.

2.12.1 Click the "Copy" button and share the Serial Number with your Gator Bio representative if requested.

2.12.2 Enter the Serial Number in the field provided.

2.12.3 Click Next to continue.

2.12.4 Important: Do not check the "PART 11" box unless you are installing the CFR Part 11–compliant package.



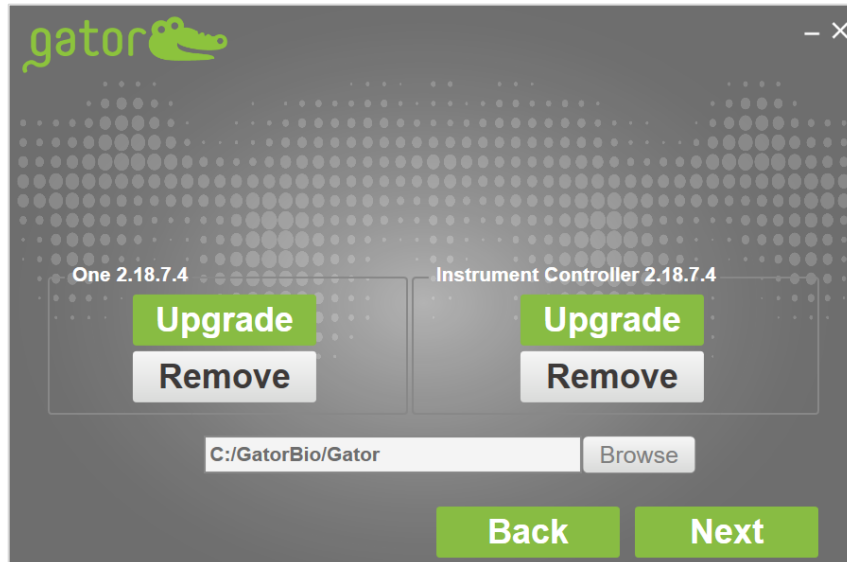
ID: fgv+lfZ1llyuU58oJ9zteA==GatorPlus **Copy**

Serial Number:

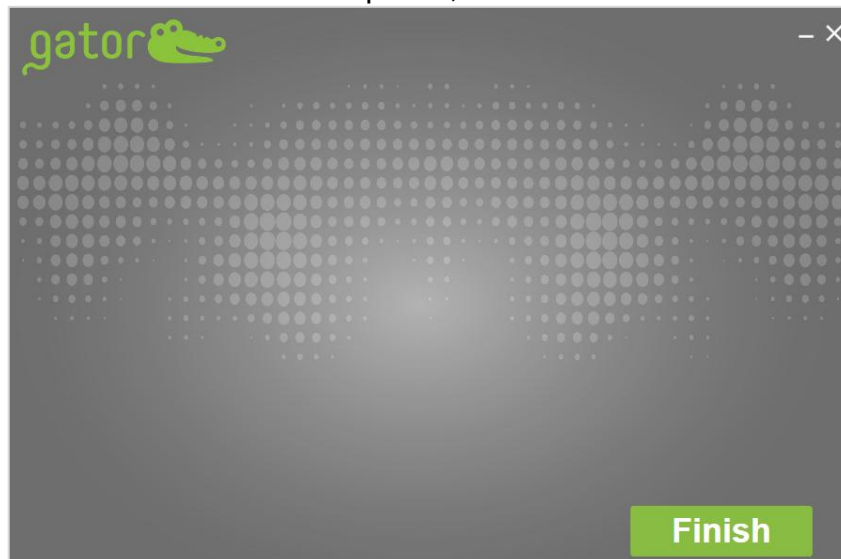
☐ **PART 11**

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- 2.13** Leave the default setting to Upgrade both GatorOne and GatorController, then click Next.



- 2.14** When the installation completes, click Finish to close the installer.



3.0 APPENDIX

The latest updates to our curve fitting algorithms provide greater robustness and reliability across a wide range of experimental conditions. These improvements ensure that users obtain accurate kinetic results even in challenging datasets, while preserving legacy fitting modes for direct comparison and continuity with previous studies.

Key Enhancements

- Reliable Handling of Fast-Rate Curves

Calculations are now constrained within a defined confidence range, ensuring stable, consistent, and trustworthy results.

Example:

Fast-Rate, Enhanced Off



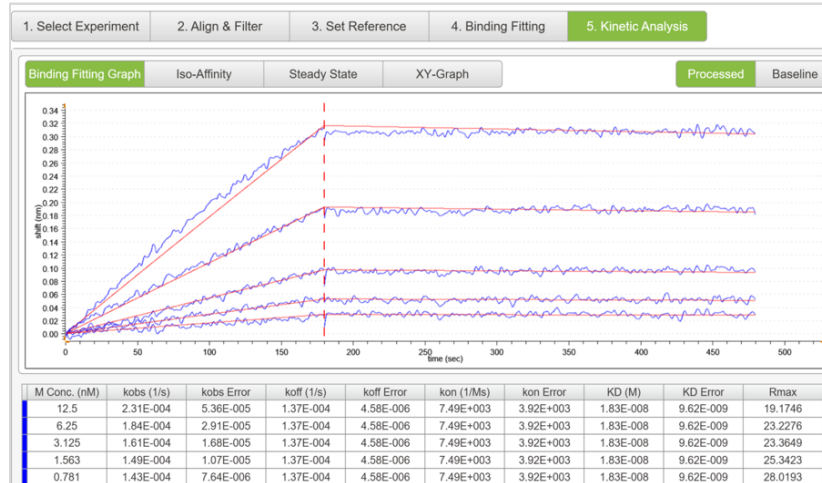
Fast-Rate, Enhanced On



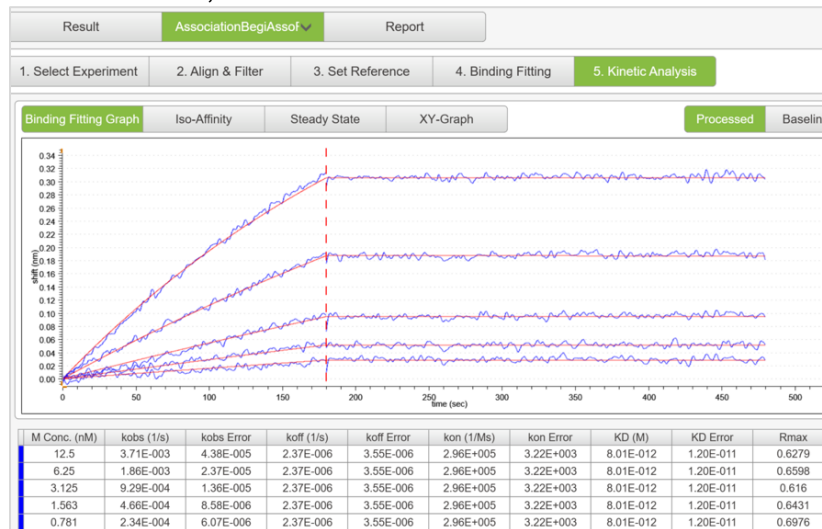
- **Stability in Underdetermined Systems**
Linear or near-linear curves are managed with controlled limits, avoiding infinite or non-physical outputs.

Example:

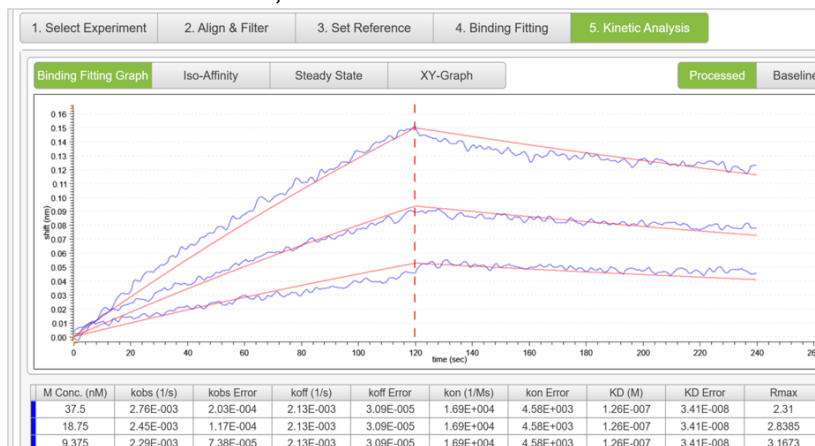
Linear Curves, Enhanced Off



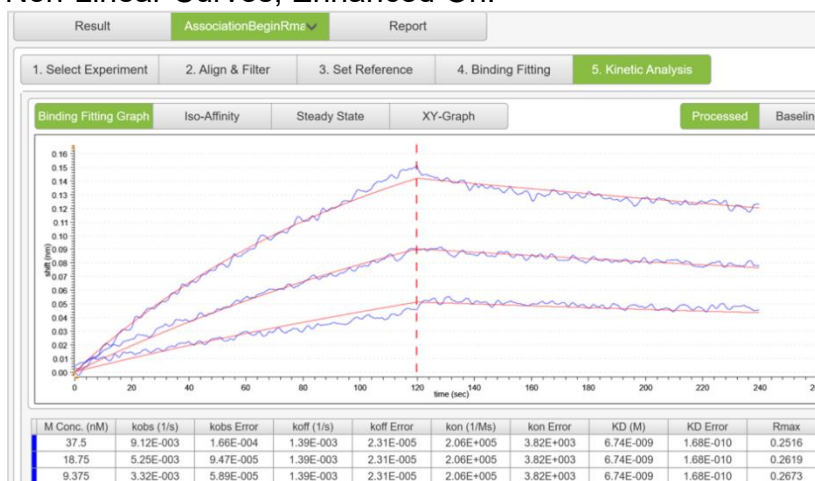
Linear Curves, Enhanced On



Example Non-Linear Curves, Enhanced Off:



Non-Linear Curves, Enhanced On:



- Improved Global Fitting with Data Screening
Poorly fitting datasets are automatically flagged and filtered, improving the accuracy and reliability of global fitting.
- Legacy Fitting Preserved for Continuity
Original fitting methods remain available, enabling direct comparison with historical data and a smooth transition to the improved workflow.

The screenshot shows the 'Parameters' dialog box with the following settings:

- Data to Include:** 'Both' is selected.
- Binding Model:** 'Model:' is followed by '1:1', '2:1', 'Mass', and '1:2'.
- Fitting:**
 - 'Type:' has 'Local' selected and 'Global' is available.
 - 'Enhanced 1:1 fit (edge-aware)' is turned 'On'.
 - A note states: 'Explores a wider parameter space; processing may take slightly longer.'
- Sub Options:**
 - 'Full' and 'Partial' are buttons, with 'Full' selected.
 - 'Full Stitch' is an unchecked checkbox.
 - 'Average' is a dropdown menu set to '0'.
- Window of Interest:**
 - 'Association:' is set from '0' to '108' secs.
 - 'Dissociation:' is set from '0' to '105' secs.

'Confirm' and 'Cancel' buttons are at the bottom right.

Performance Enhancements

- More reliable kinetic constants across diverse assay conditions.
- Minimized risk of non-physical results in challenging datasets.
- Increased confidence in small molecule and weak binder analysis.
- Improved stability and reproducibility of fitting results.
- More accurate and dependable global fitting for complex datasets.
- Continuity with past results while benefiting from improved fitting accuracy.