Functional Analogues

This reference maps Old XINA tools and features to New XINA workflows. For any given thing you might have done in an Old XINA tool, how can you do it now?

Old XINA Tools

Alerts

Implemented in the *Events* tool

Full support coming soon.

HK

Primarily implemented in the *Mnemonic Plot* tool

The Mnemonic Plot tool functions very similarly to the HK tool, except:

- Any time range can be selected
- The zoom chart is not needed

Old XINA	New XINA
Change the model	*Interface is unchanged.*
Search and select a TID	Use the "Select Time Range" card's TID Search tab.
Select comparison TIDs	Use the Mnemonic Trending tool to select multiple disjoint time ranges.
Change housekeeping bin mode	Change bin sizes or disable altogether in the "Binning" dropdown in the top left. For marker bins, use the Mnemonic Trending tool.
Quick-select an ESOH	Use the Plot Configurations offcanvas in the top right. You can also "favorite" individual mnemonics by clicking their stars in the "Select Mnemonics" card.
Search and select housekeeping channels	Use the "Select Mnemonics" card.
View and manage expected values	Management is most easily done through the Nominal Range Export tool, but can be done in the Mnemonic Plot tool like so: If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". To create a new Nominal Range, click the "+" button at the top right of the table. To edit an existing Nominal Range, click its "Edit" button.

Old XINA	New XINA
Change a y axis's label	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change or disable the "Title Text" and "Apply".
Change a y axis's position, left vs right	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Side" setting and "Apply".
Use a log scale for a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, check the "Log Axis" setting and "Apply".
Provide an explicit maximum or minimum to a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, you change the minimum and maximum and "Apply".
Change a mnemonic to show just the average, min, max, or range of each bin	Open the mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Sub-Channel" to the desired value.
Split a mnemonic to its own axis	*Interface is unchanged.*
Combine two y axes	*Interface is unchanged.*
Add markers and messages to the plot	To search, use the "Select Events" card in the bottom left. Or, if "Show Nearest Event" is enabled in the chart's advanced settings, markers and messages will appear as you hover over the chart. If you click on one, a modal appears, and the top right has a button to pin or unpin it.
Stacked Chart Viewer	Above the chart, click the gear to expand advanced settings, and then enable "Stack Y Axes". If desired, split each mnemonic to its own y axis through the Mnemonic Select card.
Edit or disable the chart's title	Open the chart's settings modal, either through the chart button above the chart or by right-clicking the chart. There, change or disabled the title and "Apply".
Change the x axis mode	*Interface is unchanged,* but there are new options.
Configure an offset for comparison TIDs	*No longer supported; please request if needed.*
With comparison TIDs, use the "difference" reference mode	*No longer supported; please request if needed.* Some related functionality can be achieved through Mnemonic Reference Values.
Display limits for a mnemonic	If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". In that table, toggle the "Plot" button for any ranges to the desired display mode.
Change the zoom mode	Above the chart, click the gear to expand advanced settings, and then use the "Zoom" dropdown.
Show expected values	If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". In that table, toggle the "Plot" button for any ranges to the desired display mode.
Show points	Above the chart, click the gear to expand advanced settings, and then check "Show Points".
Everything to do with the zoom chart	The zoom chart is no longer used. Instead, the entire plot can be binned or unbinned as desired. If you want to minimize data loading, you can use "Automatic"-sized bins, manually zoom in on the chart, and then click "Load Time from View" above the chart.
Step the time window forwards, backwards, or out from the chart	Use the "Expand Time Window" button above the chart to expand the view by 25% in each direction.

Old XINA	New XINA
View statistics for selected mnemonics	Above the chart, click the gear to expand advanced settings, and then check "Show Statistics".

~~HK MK Comparison Trending~~

Deprecated, but largely implemented in the *Mnemonic Trending* tool

HK MK Delta Trending

Implemented in the *Mnemonic Trending* tool

The Mnemonic Trending tool functions very similarly to the various HK Trending tools, in a more generic form. The biggest differences from the HK MK Delta Trending tool are:

- The "end markers" are just the selected markers, like the HK Marker Trending tool.
- The "delta" functionality is now configured per mnemonic, through the mnemonic settings modal.

Old XINA	New XINA
Change the model	*Interface is unchanged.*
Search and select TIDs	*Not yet supported.* Markers can be searched directly, without limiting to particular TIDs.
Search and select the start markers	This is very different. For each mnemonic, open its mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Reference Value Mode" to either select "By Event Definition" to select by Marker ID or "By Event" to select markers individually. Use the appropriate interface to search and select events, and then "Apply".
Search and select the end markers	Use the "Select Intervals" card.
Search and select a TID	Use the "Select Time Range" card's TID Search tab.
Select comparison TIDs	Use the Mnemonic Trending tool to select multiple disjoint time ranges.
Quick-select an ESOH	Use the Plot Configurations offcanvas in the top right. You can also "favorite" individual mnemonics by clicking their stars in the "Select Mnemonics" card.
Search and select housekeeping channels	Use the "Select Mnemonics" card.
View and manage expected values	Management is most easily done through the Nominal Range Export tool, but can be done in the Mnemonic Plot tool like so: If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". To create a new Nominal Range, click the "+" button at the top right of the table. To edit an existing Nominal Range, click its "Edit" button.
Change a y axis's label	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change or disable the "Title Text" and "Apply".

Old XINA	New XINA
Change a y axis's position, left vs right	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Side" setting and "Apply".
Use a log scale for a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, check the "Log Axis" setting and "Apply".
Provide an explicit maximum or minimum to a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, you change the minimum and maximum and "Apply".
Change a mnemonic to show just the average, min, max, or range of each bin	Open the mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Sub-Channel" to the desired value.
Split a mnemonic to its own axis	*Interface is unchanged.*
Combine two y axes	*Interface is unchanged.*
Edit or disable the chart's title	Open the chart's settings modal, either through the chart button above the chart or by right-clicking the chart. There, change or disabled the title and "Apply".
Use the Avg-Range delta mode	For each mnemonic, set up a "Reference Value" with a "Reference Value Channel" of "Avg", and set "Sub-Channels" to "All". To do this, open each mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, make the appropriate changes and "Apply".
Use the Min-Max delta mode	For each mnemonic, set up a "Reference Value" with a "Reference Value Channel" of "Min", and set "Sub-Channels" to "Max". To do this, open each mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, make the appropriate changes and "Apply".
Change the x axis mode	*Interface is unchanged,* but there are new options.
Show expected values	If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". In that table, toggle the "Plot" button for any ranges to the desired display mode.
Show points	Above the chart, click the gear to expand advanced settings, and then check "Show Points".
Click a chart point to view its full data in the HK tool	*Interface is unchanged.*

HK MK Trending

Implemented in the *Mnemonic Trending* tool

The Mnemonic Trending tool functions very similarly to the various HK Trending tools, in a more generic form. The biggest difference from the HK MK Trending tool is that the "reference marker" and reference mode is now configured per mnemonic, through the mnemonic settings modal.

Old XINA	New XINA
Change the model	h
Search and select TIDs	*Not yet supported.* Markers can be searched directly, without limiting to particular TIDs.

Old XINA	New XINA
Search and select markers	Use the "Select Intervals" card.
Search and select a reference marker	This is very different, depending on desired effect. If the "Overlay" ref mode is desired, simply select the marker using the "Select Intervals" card. If the "Diff" ref mode is desired, you must configure a Reference Value: For each mnemonic, open its mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Reference Value Mode" to "By Event". Use the interface to search and select the desired marker, and then "Apply".
Quick-select an ESOH	Use the Plot Configurations offcanvas in the top right. You can also "favorite" individual mnemonics by clicking their stars in the "Select Mnemonics" card.
Search and select housekeeping channels	Use the "Select Mnemonics" card.
View and manage expected values	Management is most easily done through the Nominal Range Export tool, but can be done in the Mnemonic Plot tool like so: If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". To create a new Nominal Range, click the "+" button at the top right of the table. To edit an existing Nominal Range, click its "Edit" button.
Change a y axis's label	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change or disable the "Title Text" and "Apply".
Change a y axis's position, left vs right	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Side" setting and "Apply".
Use a log scale for a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, check the "Log Axis" setting and "Apply".
Provide an explicit maximum or minimum to a y axis	Open the axis's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, you change the minimum and maximum and "Apply".
Change a mnemonic to show just the average, min, max, or range of each bin	Open the mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, change the "Sub-Channel" to the desired value.
Split a mnemonic to its own axis	*Interface is unchanged.*
Combine two y axes	*Interface is unchanged.*
Edit or disable the chart's title	Open the chart's settings modal, either through the chart button above the chart or by right-clicking the chart. There, change or disabled the title and "Apply".
Change the x axis mode	*Interface is unchanged,* but there are new options.
Change the x axis labels	*Not yet supported. Coming soon.*
Use the "Diff" ref mode	For each mnemonic, set up a "Reference Value", with "Reference Value Mode" set to "By Event" and the desired reference event selected, and whatever desired "Reference Value Channel". To do this, open each mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, make the appropriate changes and "Apply".

Old XINA	New XINA
Change the reference "Diff" type between Avg, Min, and Max	For each mnemonic, set up a "Reference Value", with "Reference Value Mode" set to "By Event" and the desired reference event selected, and with "Reference Value Channel" set to "Avg", "Min", or "Max" as desired. To do this, open each mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, make the appropriate changes and "Apply".
Display limits for a mnemonic	If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". In that table, toggle the "Plot" button for any ranges to the desired display mode.
Show expected values	If the Nominal Ranges table is not already visible, above the chart, click the gear to expand advanced settings, and then check "Show Nominal Ranges". In that table, toggle the "Plot" button for any ranges to the desired display mode.
Show points	Above the chart, click the gear to expand advanced settings, and then check "Show Points".
Click a chart point to view its full data in the HK tool	*Interface is unchanged.*

~~HK TID Trending~~

Deprecated, but largely implemented in the *Mnemonic Trending* tool

LTQ

Implemented in the *Spectra Viewer* tool, but the relevant data is now on the Lab 699 XINA instance.

Most LTQ functionality maps directly to the Spectra Viewer. There are many new features, but they can largely be ignored.

Old XINA	New XINA
Change the database	*Interface is unchanged.*
Search and select spectra	Use the "Select Spectra" card.
View spectra	Spectra will be displayed in the second chart: "Spectra", not "Spectra Summary". Enable loading and plotting with the "Load and Plot All Spectra" button at the top of the chart.
Plot MS spectra grouped by MSMS	First, spectra must be grouped appropriately: In the "Group Spectra" card on the bottom left, use the "Group By" dropdown to select an appropriate grouping. Once they're grouped, on the "Spectra" chart card, open the advanced settings by clicking the gear button and then set the "Stack" dropdown to "By Group".

Marker Log

Implemented in the *Events* tool

Full support coming soon.

Marker Log Trending

Implemented in the *Events* tool

Full support coming soon.

Message Log

Implemented in the *Events* tool

Full support coming soon.

Message Log Trending

Implemented in the *Events* tool

Full support coming soon.

MOMA Carousel Tracker

Implemented in the *Carousel* tool

Full support coming soon.

~~MOMA Chromatogram~~

Deprecated, but largely implemented in the *Spectra Viewer* tool

~~MOMA Contamination Trending~~

Deprecated, but largely implemented in the *Spectra Viewer* tool

MOMA DAC Scan Viewer

Implemented in the *Spectra Viewer* tool

The Spectra Viewer tool looks fairly different from the MOMA DAC Scan Viewer, but all functionality is there, plus many new things you can ignore. You'll only care about the top chart, the "Spectra Summary" chart, and can ignore the "Spectra" chart. To behave like the DAC Scan Viewer, set the "Spectra Summary" chart's "X" to "Scan Value", and "Order By" to "Start Time" or "Universal Scan ID". You'll also want the "Group Spectra" card, on the bottom left, to have "Group By" set to "TID", the default.

Old XINA	New XINA
Change the model	Use the "Database" dropdown.
Select a Special Scan ID	In the "Select Spectra" card, use the "Special Scan ID" dropdown.
Select an Ion Selection	Above the "Spectra Summary" chart, set the "Y" to "TIC" or "cTIC" for a Total Ion Count, or to "SIC" or "cSIC" for a Selected Ion Count. For SICs and cSICs, you must configure the value to set its bounds: open the modal by clicking the settings button next to the dropdown, then adjust if desired and "Apply".
Enable count correction	Above the "Spectra Summary" chart, set the "Y" to "cTIC" or "cSIC" to apply correction, or to "TIC" or "SIC" to disable correction.
Enable normalization	Above the "Spectra Summary" chart, click the gear to expand advanced settings, and then check "Normalize".
Search and select spectra by TID	In the "Select Spectra" card, use the "TID" tab.
Add or remove scans	Use the "Select Spectra" card. You might need to remove the SSID filtering.
Suggestion Special Scan IDs and TIDs	*No longer supported,* but similar discovery can be done using the "Select Spectra" card's search interface.

MOMA Diagram

Implemented in the *Diagram* tools

Full support coming soon.

~~MOMA GCMS Chart~~

Deprecated, but largely implemented in the *Mnemonic Plot* tool

MOMA Laser Tool

Implemented in the *Mnemonic Plot* tool

Laser mnemonics coming soon. Some of the below may change.

The laser data is available as mnemonics, so it can be accessed through the Mnemonic Plot and Mnemonic Trending tools. The Mnemonic Plot tool is the closest to the MOMA Laser Tool's capabilities, but either may be useful. For the Mnemonic Plot's chart to look similar to the Laser Burst's chart, above the chart, click the gear to expand advanced settings, and then set "Range Series Type" to "Error Bars".

Old XINA	New XINA
Change the model	*Interface is unchanged.*
Search and select TIDs	Use the "Select Time Range" card's TID Search tab.
Limit the TID list to Laser TIDs	In the "Select Time Range" card's TID Search tab, set the "Laser" filter requirement.
View the TID summary data	In the "Select Time Range" card, if a TID record is selected, use the "expand" button to open the record modal.
Filter to a particular stage within a TID	*Not directly supported*, but you can either search for markers using the "Select Time Range" card's Interval Search tab or zoom in on a desired stage on the chart and use the "Load Time from View" button above the chart.
Show Main Laser Temperatures	Add the relevant mnemonics using the "Select Mnemonics" card, or through the "Plot Configurations" interface available in the top right.
Show TVAC Temperatures	Add the relevant mnemonics using the "Select Mnemonics" card, or through the "Plot Configurations" interface available in the top right.
Show Stage Boundaries	Filter the "Select Events" card in the bottom left to relevant events, and then "Add Search".
Plot # of Pulses in Burst	With "Binning" enabled, add a copy of the Laser mnemonic. Open the mnemonic's settings modal, either through the gear button next to it in the mnemonic selection or by right-clicking the chart. There, set the "Sub-Channels" to "Count" and "Apply".
Plot Raw Pulses	Set "Binning" to "Off".
Plot Pulse Release Time	Add the relevant mnemonics using the "Select Mnemonics" card, or through the "Plot Configurations" interface available in the top right.

MOMA ML Dimensionality Reduction

Implemented in the *MOMA Machine Learning* tool

Full support to come.

MOMA ML Export

Implemented in the *MOMA Machine Learning* tool

Full support to come.

MOMA Ops

Implemented in the *Operations* tool

Full support coming soon.

MOMA Ops Training

Implemented in the *Operations Training* tool

Full support coming soon.

~~MOMA Payload Uplink Tool~~

Deprecated

MOMA Sample Info

Implemented in the *Carousel* tool

Full support coming soon.

~~MOMA Sample Science Trending~~

Deprecated, but largely implemented in the *Spectra Viewer* tool

MOMA Sample Viewer

Implemented in the *Carousel* tool

Full support coming soon.

MOMA Science Trending

Implemented in the *Spectra Viewer* tool

The Spectra Viewer is very similar to the MOMA Science Trending tool, but with greater flexibility. The two charts of the Spectra Viewer directly correspond to the two charts from MOMA Science Trending. The biggest difference is that MOMA Science Trend always groups spectra by TID, but the Spectra Viewer allows many different groupings.

Old XINA	New XINA

Change the model	Use the "Database" dropdown.
Plot spectra with "Bin" or "Mass" calibration	Above the "Spectra" chart, change "X" to "Bin" or "Mass".
Plot spectra with "RF Amp Mon" or "RF Amp DAC" calibration	*No longer supported; please request if needed.*
Set the Trend Mode	Above the "Spectra Summary" chart, change the "X" value.
Set the Trend Data	Above the "Spectra Summary" chart, change the "Y" value.
Set the Sum Mode	*Not yet supported. Coming soon.*
Set the Scan Cutoff Threshold	Open the "Spectra" chart's settings modal, either through the chart button above the chart or by right-clicking the chart. There, under "Transformations", select "?" and set the desired "Threshold", then "Apply".
Limit the TID Search to science TIDs or machine learning TIDs	In the "Select Spectra" card's TID Search tab, use the relevant filter buttons.
Subtract Threshold	*No longer supported; please request if needed.*
Correct Counts	Above either of the "Spectra Summary" and "Spectra" charts, there are various corrected and uncorrected values available.
Selected Ion Counts	Above the "Spectra Summary" chart, set "Y" to SIC or cSIC. Then, you must configure the value to set its bounds: open the modal by clicking the settings button next to the dropdown, then adjust if desired and "Apply".
Search and select TIDs	In the "Select Spectra" card, use the TID tab.
Browse machine learning data	*Not yet supported. Coming soon.*
Plot particular spectra	Above the "Spectra" chart, use the series button--the third, connected to "Load and Plot All Spectra"--to open the series select modal, and click on series or groups to select or deselect them. Alternatively, click on points in the "Spectra Summary" chart.
Search spectra metadata	In the "Select Spectra" card, use the Spectra tab.

~~MOMA Spectra Tool~~

Deprecated, but largely implemented in the *Spectra Viewer* tool

MOMA Timeline

Implemented in the *Mnemonic Plot* tool and *Model Info* interface

Full support coming soon.

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