

## Results Table

In the **Result** tab of the **Workspace** you can view statistics associated with the regions created in the **Plots** area. You can copy statistics for use in other applications, export statistics to CSV and XML files and print statistics using the options on the **VenturiOne Menu**.

Selecting the **Results** tab, displays the results table associated with the regions in all the workspaces in the playlist. When you select the **Results** tab the **Ribbon** switches to the **Statistics** tab.

Each region created in the **Workspace** generates a results row in the **Results** table. For a quadrant region four rows are created, one for each quadrant.

Results								
Drag a column header here to group by that column.								
X Parameter	Y Parameter	Gate	Region	Count	%Gated	X Var	Y SD	
SS	FS	Ungated	A	2618	55.7614	5187.3415	62.3188	
SS	FS	Ungated	B	2618	55.7614	5187.3415	62.3188	
SS	FS	Ungated	C	2618	55.7614	5187.3415	62.3188	
SS	FS	Ungated	D	2618	55.7614	5187.3415	62.3188	
SS	FS	D	E1	659	25.1719	4136.2788	43.8315	
SS	FS	D	E2	55	2.1008	451.3657	41.1433	
SS	FS	D	E3	1887	72.0779	3059.0024	34.1520	
SS	FS	D	E4	17	0.6494	577.0956	37.4281	
SS	FS	D	F1	938	35.8289	4501.1147	46.5650	
SS	FS	D	F2	54	2.0626	424.3498	44.6279	
SS	FS	D	F3	1618	61.8029	2907.6162	29.6078	
SS	FS	D	F4	8	0.3056	427.3571	33.6611	
SS		Ungated	G	3459	73.6741	8670.1276		
SS	FS	Ungated	A	577	12.2897	4968.5392	103.8612	
SS	FS	Ungated	B	577	12.2897	4968.5392	103.8612	
SS	FS	Ungated	C	577	12.2897	4968.5392	103.8612	
SS	FS	Ungated	D	577	12.2897	4968.5392	103.8612	

Results for all files within a **Playlist** will be displayed if **Background Calculation** is enabled, otherwise only results for the current file will be displayed.

Only the statistics selected in the **Statistics** tab are displayed in the table. Each statistic is displayed in a separate column in the table.

The width of the columns can be changed by dragging the column dividers.

The heading for each column is the name (from the **Statistics** tab) of the statistic displayed in this column.

When an unchecked box is checked the respective column is inserted in the table.

You can re-order the columns by dragging and dropping their headers.

Columns can be removed from the table by un-checking the check box in the **Statistics** tab. Columns, except for the **Error Message** column, can also be removed by dragging a column header off the column header area.

If a statistical value cannot be calculated, **ERROR** will be displayed instead of a numerical value.

If a value is not applicable to the row it is left blank. Not applicable items are:

- DNA Statistics for a non-cell cycle region.
- Y values for a linear region.
- Count, Percents, Intensity and Variation statistics for a cell cycle plot.

The table can be sorted by any column in an ascending or descending order by clicking the column title.

## Selecting Results Rows

You can select results rows in the following ways:

- Left or right mouse click on a results row selects it.
- Holding down the Ctrl key or Shift key allows multiple rows to be selected.
- Ctrl+A selects all the rows in the table.
- Ctrl+Shift+End selects all rows from the currently selected one to the end of the table.
- Ctrl+Shift+Home selects all rows from the currently selected one to the top of the table.

Selected rows are highlighted in blue.

Selected rows can then be copied for pasting in to other applications e.g. Microsoft Excel

## DNA Plots Results Representation

Each DNA cell cycle plot generates a results row in the **Results** table and results for the DNA statistics selected on the **Statistics** tab are displayed. For a cell cycle plot an additional **Error Message** column is added to the **Results** table. The message reported by the Cell Cycle Analysis, denoting whether the algorithm experienced any problems, is displayed in this column.

The possible **Error Messages** that can be displayed in the results table are listed below:

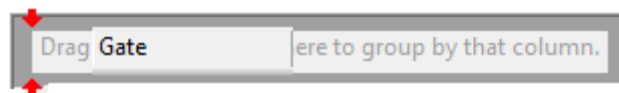
- Successful Fit (None – Fit OK)
- Difficulty fitting G1 peak, used your estimate (1 – User Pk1)
- Difficulty fitting G2/M peak, used your estimate (2 – User Pk2)
- Poor histogram, used less accurate method of fit (3 - Poor Fit)
- G1 CV out of range. Re-try using new estimate of G1 channel (4 - CV1 Range)
- G2 CV out of range. Re-try using new estimate of G2 channel (5 – CV2 Range)

- Large discrepancy of CVs. Fit may be in error (6 – CV Comp)
- Difficulty fitting G1 and G2 peaks, used your estimates (7 – User Peaks)
- G1 and G2 CVs out of range. Re-try using new estimates of G1 and G2 channels (8 – CVs Range)
- Could not estimate G2 more than G1 estimate. Could not fit histogram (9 – No Fit)
- Estimate of G1 and G2 too close to each other. (10 – No Fit)
- Estimate of G1 too close to lower noise level. (11 – No Fit)
- Estimate of G2 too close to upper noise level (12 – No Fit)
- Estimate of G1 and G2 too close to noise levels (13 – No Fit)
- Cell Cycle Exception happened (101 – No Fit)
- Histogram length and input channels inconsistent, no fit computed (102 – No Fit)
- Start Channel greater than End Channel, no fit computed (103 – No Fit)
- G1 estimate out of range, no fit computed (104 – No Fit)
- G2 estimate out of range, no fit computed (105 – No Fit)
- G1 and G2 estimates out of range, no fit computed (106 – No Fit)
- Histogram length less than or equal zero, no fit computed (107 – No Fit)
- Histogram events less than 500, no fit computed (108 – No Fit)
- Lower noise level higher than upper noise level, no fit computed (109 – No Fit)
- Error (Default)

## Grouping of Results by Column Headers

Results can be grouped by the values displayed in the column headers. You can do this by dragging a column header from the results table onto the group control labeled **Drag a column header here to group by that column.**

When the header is dragged, two red arrows indicate where the column header will be placed on the **Drag a column header here to group by that column** control:

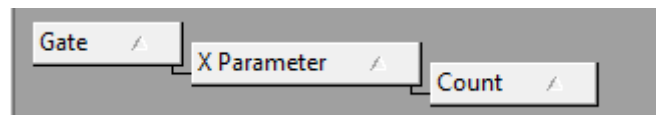


When a header is dragged onto the group control the header is moved there (and removed from the table). If **Ctrl** key is held down while a header is dragged it is copied rather than moved.

Below is an example of results grouped by **Gate**:

Gate										
X Parameter	Y Parameter	Region	Count	%Gated	X Peak	Y Peak	X Mean	Y Mean	X Var	Y Var
Gate: A										
FL1 Log	FS	B	8121	68.3528	1.2593	753.0...	2.0437	680.08...	10....	611...
Gate: C										
FL3 Log	FS	D	4820	46.1376	6.0233	642.0...	3.1244	472.12...	7.4...	121...
FL5 Log	FS	E	4486	42.9406	0.4599	450.0...	0.5214	471.10...	1.7...	125...
Gate: Ungated										
SS	FS	A	11881	43.4533	1023....	710.0...	580.61...	686.79...	536...	134...
FL2 Log	FS	C	10447	38.2086	0.6531	753.0...	1.1581	574.76...	0.9...	255...

More than one header can be placed in the group control and results will be grouped by all the headers there. The headers are linked by arrows denoting the sort order:





The sort order can be changed by dragging a header to a different position.

The sorting can be changed between ascending and descending by clicking the arrow on the header.

Below is an example of results grouped by **File Name** and **Gate**:

Filename		Gate		Region	X Parameter	Y Parameter	Count	%Gated
[-] Filename: file 1.LMD								
[-] Gate: Ungated								
A	SS Lin	FS Lin	6996	29.53				
[-] Gate: A								
D	FL1 Log - CD8		1200	17.15				
E	FL2 Log - CD4		2425	34.66				
[-] Filename: file 2.LMD								
[-] Gate: Ungated								
A	SS Lin	FS Lin	6996	29.53				
[-] Gate: A								
D	FL1 Log - CD8		1200	17.15				
E	FL2 Log - CD4		2425	34.66				

The information displayed in the groups can be collapsed by clicking on the  button and can be expanded by clicking the  button.

A header can be removed from the grouping by dragging it back to its position in the results table. When a column header is dragged back to the results table, two red arrows indicate where the header will be placed. The header can also be dragged off the table and it will be removed from the group control.

## Column Header Context Menu

Right click on any column header to display the column header pop-up menu that contains all the statistics from the **Statistics** tab.

A checked statistic denotes that the corresponding header is displayed in the results table.