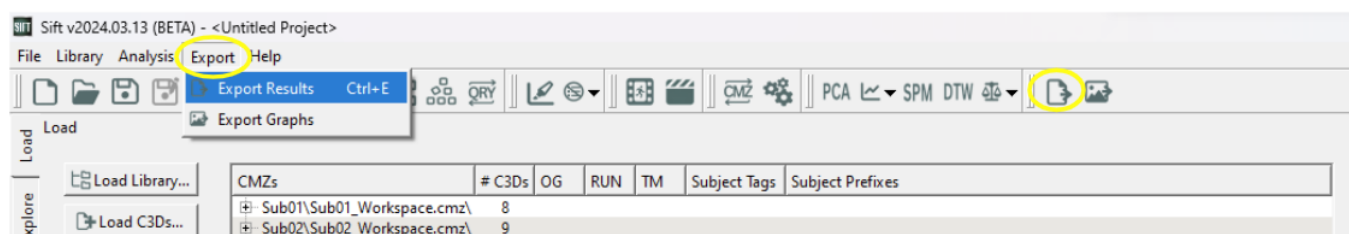


Export Results Dialog

The export results dialog allows the user to export a variety of data (group data, summary statistics, registered curves, [Principal Component Analysis \(PCA\)](#) results, [Dynamic Time Warping \(DTW\)](#) results and [Statistical Parametric Mapping \(SPM\)](#) results) to text files in Standard ASCII, Transposed ASCII, SPSS ASCII and P2D format. The export results dialog  can be found on the toolbar and under the Export menu.



Dialog Overview

The export results dialog is split up into three sections.

1. Export Settings
2. Definition
3. Export Results Options

The screenshot shows the 'Sift' application window with the 'Export Settings File' dialog box open. The dialog is divided into three main sections, each highlighted with a red border and a number:

- Export Settings File (1.)**: This section contains a text input field labeled 'Export Settings File:' with the value 'Load Export Settings'. To the right are three icons: a folder, a save icon, and a delete icon. Below this is a section titled 'Export text files to folder and filenames:' with a text input field labeled 'Export text files to folder:' and a 'Browse' button. At the bottom of this section are three icons: a plus sign, a minus sign, and a pencil.
- Definition (2.)**: This section contains several dropdown menus and checkboxes. The 'Export Type' dropdown is set to 'Data'. The 'Input Data' dropdown is set to 'Active Plot Data'. The 'Number Points Normalized to:' text input field contains the value '101'. Below these are six checkboxes, all of which are unchecked: 'Group Mean', 'Group Std. Dev.', 'Workspace Mean', 'Workspace Std. Dev.', 'All Sequences (Normalized)', and 'All Sequences (Time Based)'.
- Export Result Options (3.)**: This section contains a dropdown menu for 'Export Format' set to 'Transposed ASCII', a text input field for 'Precision' set to '4', a 'Generate Preview' button, a text input field for 'Results File Name', and a 'Browse' button. At the bottom of the dialog are two buttons: 'Cancel' and 'Export Results'.

Export Settings Section

Selecting export settings allows you to save premade selections for exporting, saving time customizing your exports. Export setting files are saved as standard text file.

Field	Description
Export Settings File	Here you can browse your library to load in an Export Settings File.
Export text files to folder and filenames	Here you can customize where you want your exports to be saved and specify the folder and the filenames.

Definition Section

This section defines what data (signals, metrics, calculated values, and summary statistics) you want to be exported in the text file. Changing the export type, changes the different options to be exported.

Export Type: Data

The export type data allows you to export all information related to queries. The key here is your **Input Data**, which allows you to choose what data you want to be exported. There are four different options to choose from:

1. All Queried Data - this will export all data that has been queried from the library
2. All Plotted Data - this will export all data that has been visualized on one of the Explore Page's plots

3. Active Plot Data - this will only export data that is on the Explore Page's active plot
4. Highlighted Data - this will only export data that is highlighted

Field	Description
All Workspaces in Group or Selected Workspaces	Choosing Selected Workspaces will only export workspaces that are selected in the groups and workspaces widget .
Number Points Normalized to	This will normalize the data to the number selected. The standard it to keep is at 101, which queries are typically normalized to.
Group Mean	Checking this box will export the groups mean.
Group Std. Dev.	Checking this box will export the groups standard deviation.
Workspace Mean	Checking this box will export the workspaces mean.
Workspace Std. Dev.	Checking this box will export the workspace standard deviation.
All Sequences (Normalized)	Checking this box will export each normalized trace within the selected groups. This option also allows you to export the Events (Normalized) , which exports the occurrence of each event within the signal.
All Sequences (Time Based)	Checking this box will export each raw trace within the selected groups. This option also allows you to export the Events (Time Based) , which exports the occurrence of each event within the signal.

Export Type: Summary Statistics

Definition

Export Type

Summary Statistics

Input Data

All Plotted Data

☒ All Workspaces in Group
☐ Selected Workspaces

Calculate results for

Groups

☒ Mean
☐ Std. Dev.

☒ Minimum
☐ Std. Dev.
☐ Event Point

☒ Maximum
☐ Std. Dev.
☐ Event Point

☒ Extra Options

☐ Add metrics columns

☐ Use normalized data to calculate metrics

The export type data allows you to export all information related to queries. Again the **Input Data** field allows you to choose what data you want to be exported:

1. All Queried Data - this will export all data that has been queried from the library
2. All Plotted Data - this will export all data that has been visualized on one of the Explore Page's plots
3. Active Plot Data - this will only export data that is on the Explore Page's active plot
4. Highlighted Data - this will only export data that is highlighted

Field	Description
All Workspaces in Group or Selected Workspaces	Choosing Selected Workspaces will only export workspaces that are selected in the groups and workspaces widget .
Calculate results for	This allows you to choose what you want the summary statistics to be calculated for. There are three options: Groups, Workspaces, and Instances.
Mean	This calculates the means of the data you chose. Checking this box also allows you to calculate the Std. Dev. of the means.
Minimum	This calculates the minimums of the data you chose. Checking this box also allows you to calculate the Std. Dev. of the minimums, and to export the Event Point of the minimums.
Maximum	This calculates the maximums of the data you chose. Checking this box also allows you to calculate the Std. Dev. of the maximums, and to export the Event Point of the maximums.
Extra Options	Checking extra option will only give results if previous options are checked, however this allows you the option to Add metric columns , and to Use normalized data to calculate metrics .

Export Type: PCA Results

Definition

Export Type

Input PCA

☒ Workspace Scores

☒ Group Scores ☐ Group Scores Std. Dev.

☒ Variance Explained

☒ Eigenvectors

☒ Mean +/- 1 SD ☐ Mean +/- 5 and 95 %

Outlier Detection

☒ LOF ☐ Threshold

☒ SPE ☐ Parameters ☐ Threshold

☒ Mahalanobis Distance ☐ Parameters ☐ Threshold

☒ K-Means

This option allows you to export [PCA](#) results.

Field	Description
Workspaces Scores	This will export the workspace score for each groups workspace run in the PCA.
Group Scores	This will export the group score for each group run in the PCA.
Group Scores Std. Dev.	This will export the standard deviation of the group score for each group run in the PCA.
Variance Explained	This will export the variance explained for each PC run in the PCA.
Eigenvectors	This will export the data points of the eigenvectors for each PC.
Mean +/- 1 SD	This will export the mean and +/- 1 standard deviation of the reconstructed PCs.

Field	Description
Mean +/- 5 and 95%	This will export the mean, the 5th and the 95th reconstruction of the PC.
Outlier Detection	
LOF	This will export the outliers from the LOF test.
SPE	This will export the outliers from the SPE test.
Mahalanobis Distance	This will export the outliers from the Mahalanobis test.
K-Means	This will export the outliers from the K-Means test.

Checking the **Parameters** box will export the specific parameters used to run the SPE or Mah outlier tests. Similarly, clicking on the **Threshold** box will include the threshold distances for either LOF, SPE, or Mah in the export.

Export Type: Registered Curves

Definition

Export Type
Registered Curves

Input Data
All Plotted Data

☐ Registered Curves

☐ Warping Functions

☐ Landmark Means

☐ Landmarks for all Traces

This option will allow you to export all the information related to [curve registration](#). Again the **Input Data** field allows you to choose what data you want to be exported:

1. All Queried Data - this will export all data that has been queried from the library
2. All Plotted Data - this will export all data that has been visualized on one of the Explore Page's plots
3. Active Plot Data - this will only export data that is on the Explore Page's active plot
4. Highlighted Data - this will only export data that is highlighted

Field	Description
Registered Curves	Checking this box will export all the traces of the registered groups.
Warping Functions	Checking this box will export the warping function for each trace in the registered groups.
Landmark Means	Checking this box will export the mean locations of the landmarks the groups were registered to.
Landmarks for all Traces	Checking this box will export the original location of each landmark for each trace.

Export Type: Dynamic Time Warping

Definition

Export Type Dynamic Time Warping

☐ Found Anomalies/Traces

☐ Cost Functions

This option will export the results from [DTW](#).

Field	Description
Found Anomalies/Traces	Checking this box will export the traces that were found in DTW .
Cost Functions	Checking this box will export the cost functions of the traces that were found in DTW .

Export Type: Statistical Parametric Mapping / SPM

Definition

Export Type Statistical Parametric Mapping

☐ SPM B Matrix

☐ SPM Residual Matrix

☐ SPM's

This option allows you to export results from the [SPM analysis module](#).

Field	Description
SPM B Matrix	This will export the traces in the B plot.
SPM Residual Matrix	This will export the traces in the Residuals plot.
SPMs	This will export the SPM curve.

Export Type: Normal Database

Definition

Export Type Normal Database

Input Data All Plotted Data

This option allows you to export queried ND signals

Export Type: Statistical Test Results

Definition

Export Type

Statistical Test Results

☐ Test Information

☐ Group Results

☐ Test Results

This option will export the results from the summary statistics dialog

Field	Description
Test Information	Displays the test name along with the type of statistical test and the significance level
Group Results	For each group and overall the following results will be shown: Mean, Standard Deviation, Standard Error, N
Test Results	Will display: Degrees of Freedom, Pooled Standard Deviation, T Stat, Null Hypothesis

Export Result Options Section

Export Result Options

Export Format

Transposed ASCII

Precision

4

Generate Preview

Results File Name

Browse

Cancel

Export Results

This section allows you to customize how you want the data to look in the exports and to show a preview.

Field	
Export Format	This allows you to pick the format of the text file you want. There are four types of formats: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV, JSON, and XML.
Precision	This is the number of digits after the decimal point.
Generate Preview	Pressing this button will generate a preview of the export data. This is a good way to check everything is to your liking.
Browse	This allows you to browse your computer's hard drive to select where you want to export your data to.

When the Generate Preview button is clicked, a pop-up window will appear displaying a preview of what is to be exported:

Export Preview											
1	2	3	4	5	6	7	8	9	10	11	12
Item	X	Y	Z	X	Y	Z	X	Y	Z	X	Y
1	10.870	10.8810	10.2258	0.200	0.2407	0.211	-1.2208	0.0056	0.7758	0.0023	0.0006
2	10.8786	10.1028	10.1889	0.201	-0.0896	0.0812	-6.7337	-0.8476	0.3027	0.0098	0.0008
3	10.9721	9.2425	10.0077	0.1775	-1.8524	0.1171	-12.4380	-3.4884	0.2750	0.0103	0.0006
4	11.1577	8.2552	14.7533	7.9604	-0.2655	0.4571	-17.0733	-7.2051	0.3677	0.0155	0.0008
5	12.2636	7.7168	14.8714	8.7188	-0.1866	0.8213	-21.7821	-18.4887	0.1980	0.0214	0.0006
6	12.1620	6.1918	14.0385	7.4210	-5.2859	0.1342	-34.2797	-12.3423	0.3055	0.0277	0.0000
7	12.1142	5.1180	13.0282	3.7191	-6.3055	0.1861	-17.8819	-12.1700	0.0514	0.0347	-0.0007
8	12.7806	4.2985	10.0391	-2.9887	-6.2075	0.7188	-18.7383	-8.9629	0.8827	0.0430	-0.0011
9	13.4710	3.0502	12.4011	-16.7763	-5.7879	-8.2211	-54.4534	-6.8913	0.7405	0.0534	-0.0016
10	14.4478	1.7118	11.8728	-11.0312	-6.0186	-6.2083	-62.8316	-1.4821	0.4758	0.0637	-0.0015
11	15.6188	2.7914	11.0843	-12.6871	-0.8190	-8.2188	-120.8786	-1.4841	0.5005	0.0798	-0.0010
12	16.9714	2.5854	10.8893	-45.3853	-2.2174	0.1124	-154.2749	-8.8238	0.0507	0.0953	0.0000
13	16.4612	2.0884	10.4888	-18.0881	-0.8976	0.7683	-150.8483	-1.3851	1.2713	0.1112	0.0010
14	16.8677	2.4681	10.7188	-73.6790	0.3274	1.7383	-254.4471	-2.7823	1.8718	0.1362	0.0016
15	21.3220	2.5805	8.8718	-67.5189	1.5525	2.6549	-291.2738	-3.1745	1.8071	0.1386	0.0012
16	22.7230	2.8687	8.9271	-102.8818	2.7824	4.2111	-177.7817	-6.2886	1.7680	0.1911	-0.0004
17	24.0119	2.7954	8.5287	-116.7731	3.8293	3.4752	-329.5820	-5.2508	1.1114	0.1988	-0.0024
18	23.2184	2.8889	8.1274	-130.0813	4.8910	6.6754	-112.8435	-6.7133	0.3289	0.1886	-0.0052
19	26.2781	3.0045	8.0844	-143.0940	6.1208	7.7845	-188.8838	-6.8987	-1.4917	0.1708	-0.0088
20	27.1234	3.1810	8.6288	-154.7361	7.6378	8.6302	-254.0405	-7.6489	-3.1901	0.1730	-0.0130
21	27.7812	3.2775	8.7275	-164.8148	8.1881	9.1484	-188.1786	-8.3889	-6.0188	0.1736	-0.0112
22	28.0881	3.5882	8.9128	-175.2375	10.7542	9.9946	-105.8121	-8.8873	-8.8181	0.1688	-0.0114
23	28.2887	3.8279	8.5233	-178.5422	12.4438	9.6152	-7.1136	-8.2854	-6.6275	0.1644	-0.0234
24	28.2319	4.0889	8.3717	-183.9830	14.1701	9.1189	181.2886	-6.7627	-1.0280	0.1584	-0.0288
25	27.8881	4.3238	8.7971	-191.1414	15.7489	8.8452	229.9867	-7.4623	-7.2373	0.1484	-0.0114
26	27.3812	4.5025	8.8747	-194.2183	17.3175	8.0889	207.2005	-5.2388	-7.3858	0.1345	-0.0330
27	26.8884	4.8815	8.2718	-198.8889	18.7883	7.1118	488.5587	-2.7648	-1.8888	0.1214	-0.0383
28	25.2848	5.0888	8.4788	-173.1986	20.8758	6.0511	547.1988	1.6954	-7.7342	0.1075	-0.0152
29	23.7848	5.2889	10.0551	-167.2795	21.7788	4.9055	627.4702	0.0382	-6.6508	0.0833	-0.0321
30	21.9820	5.4888	10.9761	-157.4318	21.8917	3.7843	881.8762	10.3219	-6.7838	0.0798	-0.0308
31	19.8737	5.5824	11.1848	-146.1572	22.3912	2.7321	719.8252	14.6477	-4.1985	0.0664	-0.0287
32	17.5138	5.6506	11.8592	-133.0810	22.3884	1.8212	719.3740	18.4643	-1.2963	0.0544	-0.0386
33	14.9793	5.6888	12.9879	-120.1888	21.8888	1.0780	887.8844	21.8837	-0.0011	0.0438	-0.0341
34	12.2480	5.5583	13.2887	-108.8830	21.1811	0.4816	855.8258	21.1348	-0.0150	0.0347	-0.0214
35	8.1788	5.4058	14.1882	-88.3836	18.8888	0.0888	584.8888	21.8880	0.0475	0.0388	-0.0188
36	6.4418	5.1887	14.8888	-80.3830	18.1035	-0.2779	525.5888	22.3218	0.4082	0.0305	-0.0188
37	3.4848	4.8888	15.1127	-67.8756	16.1288	-0.4773	446.5248	20.3283	0.8888	0.0152	-0.0148
38	0.8881	4.8856	16.4288	-56.1788	13.8881	-0.4781	387.2887	17.3217	0.8827	0.0108	-0.0148
39	-2.7777	4.5575	17.8888	-43.5438	11.5213	-0.2188	291.3448	13.8888	0.8296	0.0083	-0.0102

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