Widely-Targeted Volatilomics (WTV) 2.0



1 General Introduction

WTV 2.0 is an open-source software with a user-friendly graphical interface, which provides a one-stop solution for the entire process of gas chromatography-mass spectrometry (GC-MS) based widely targeted volatilomics. WTV 2.0 including three modules: the *library builder* manages the library integration and deduplication, the *method generator* selects characteristic qualitative ions and generates Selective Ion Monitoring (SIM) mode acquisition method, the *data analyzer* performs the qualitative and semi-quantitative analysis of widely-targeted data.

1.1 Library builder

Library builder focusing on integrating mass spectral libraries and retention time information. It identifies and removes duplicates based on compound names, synonyms, and CAS numbers. Additionally, it performs retention time (RT) correction based on imported retention index (RI) calibration data. In addition, unknown signals in subsequent analysis can be incorporated into the library, and through similarity calculations, it prevents the import of redundant signals. The *library builder* provides the foundation for subsequent acquisition method development and data analysis.

1.2 Method generator

Method generator is responsible for development of widely targeted acquisition methods. The software selects minimum characteristic qualitative ions for each compound in the library, and allocates the selected ions into SIM segments to develop the comprehensive SIM (cSIM) acquisition method with high sensitivity and high coverage. The method generator can be also applied in the development of traditional targeted or widely-targeted acquisition methods with low coverage.

1.3 Data analyzer

Data analyzer is tailored for qualitative and semi-quantitative analysis of cSIM data. It offers a comprehensive workflow that encompasses smoothing, peak detection, peak adjustment (baseline correction and apex point correction, etc.), deconvolution, component perception, and qualitative and semi-quantitative analysis. The software provides a variety of parameter options to accommodate diverse requirements for data analysis. It also features a user-friendly interface, facilitating users to inspect analysis results and conduct data mining.

2 Using the Software

2.1 Building a Compound Library (MSP) for Detection and Identification (LibraryBuilder.exe)

2.1.1 Data Preparation

MSP file(s)

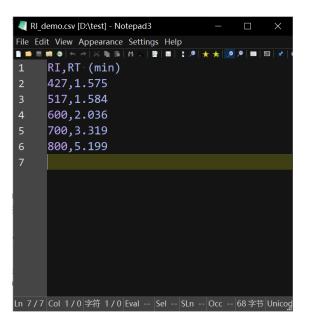
Prepare MSP files that contains mass spectrometry information and theoretical retention times for substances.

Retention Time Information

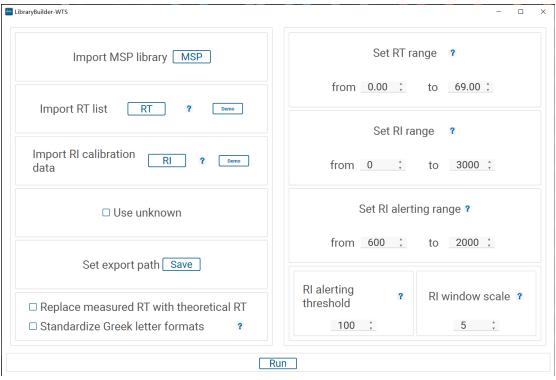
Using actual measured retention times (RT)

Using RI calibration

| | Α | В | |
|---|--|--------|--------------------------------|
| 1 | Name | RT | |
| 2 | Acetaldehyde | 1.496 | |
| 3 | Methanethiol | 1.526 | |
| 4 | Ethane | 1.5523 | |
| 5 | Ethyl Chloride | 1.555 | |
| 6 | Formaldehyde | 1.559 | - J X |
| 7 | Propene | 1.5612 | ^ |
| 8 | Methyl Alcohol | 1.5677 | |
| 9 | Methyl formate | 1.5695 | |
| 10 | Ethylene oxide | 1.5727 | |
| 11 | Dimethylamine | 1.5753 | lar=1823/7/28 |
| 12 | Ethylamine | 1.5773 | 1ar=1823///28 |
| 13 | 2-Propenal | 1.5779 | |
| 14 | Ethyl formate | 1.5791 | |
| 15 | Butane, 2-methyl- | 1.5798 | |
| 16 | Ethyl ether | 1.5808 | |
| 75477 8 75478 8 75479 9 75480 75481 75482 75483 75484 75485 | 7, 747, 768, 4473, 197, 208, 767, 2014, 7, 1, 749, 27, 284; 7, 79; 77, 79, 79, 18; 80, 21; 81, 274, 82, 706; 83, 228; 84, 167; 85, 170; 86, 23; 93, 89, 44, 15; 95, 247; 96, 337; 77, 197, 98, 99; 99, 69; 100, 7; 108, 5; 109, 114; 110, 127; 111, 90; 112, 69; 113, 127, 7; 137, 327, 328, 828, 139, 5; 151, 152, 64; 153, 8; 154, 117; 155, 17; 170, 20; 180, 30, 181, 5; | 20; | (OTE 8) CRITE NO STOTEON (INC. |



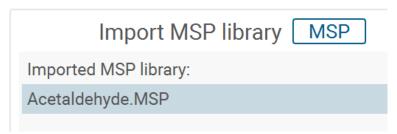
2.1.2 Parameter Configuration



Import MSP library

To input an MSP file, simply click the 'MSP' button and select the desired MSP file.

Once selected, the interface will display all the selected file directories, confirming a successful input.



Import RT list: import a list of compounds and their RT.

Import RI calibration data: import RI calibration data.

Use unknown: You can use this feature when you need to enhance signals from compounds that cannot be qualitatively identified.

When you wish to use this feature, simply select the white box to highlight it, and the hidden menu will become visible.



Within the hidden menu, input the corresponding information for the unknown item.

Set export path

Click the 'Save' button, choose a saving path, and the processed results will be saved to this directory.

Replace measured RT with theoretical RT

Selecting this option will replace measured retention times outside the set theoretical retention time window with the theoretical retention time.

Standardize Greek letter formats

This option allows for a unified representation of Greek letters. Eg: ".alpha." -> "alpha"

Set RT range

Once configured, the output retention times will be constrained within this range.

Set RI range

Once configured, the output retention index will be constrained within this range.

Set RI alerting range

Only unreasonable RT (Retention Time) values outside the configured range will trigger a warning.

RI alerting threshold

Compound will be marked if the difference between the measured RI and the database Rl exceeds this threshold.

RI window scale

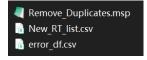
The larger this value, the larger the RI error threshold when the RI is larger. Setting it to 0 disables this feature. For more specific and detailed information, please refer to the official documentation of the AMDIS software.

Tips:

Any file directory entered can be deleted by double-clicking the entered entry.

2.1.3 Results and Reports

After configuring all parameters, click the 'Run' button. The program will automatically generate three result files.

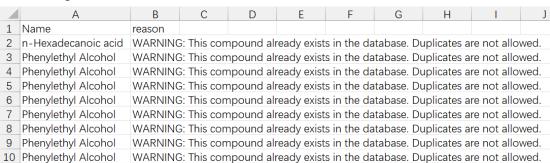


The MSP result file:

The RT (Retention Time) result file

| △ A | В | С | D | E |
|----------------------------|---------------|--------|---|-----------------|
| 1 Name | RT | RI_msp | RI_input | Alert |
| 342 5-Nonanol | 21.528 | 1092 | 109 | 5 |
| 343 2-Furanmethanol, pr | opar 21.5884 | 1096 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 844 Fenchone | 21.5884 | 1096 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 845 Pyrazine, 2-methoxy- | -3-(1 21.6555 | 1097 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 846 2-Undecene, (E)- | 21.6555 | 1097 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 847 7-Octen-4-ol, 2-me | thyl- 21.6555 | 1097 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 848 o-Guaiacol | 21.689 | | 109 | 7 |
| 849 Guaicol | 21.7 | | 109 | 8 |
| 850 Pentanoic acid, butyl | este 21.7227 | 1098 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 851 3-(Methylthio)propar | noic 21.7227 | 1098 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 852 trans-Linalool oxide | furar 21.743 | 1086 | 109 | 8 |
| 853 3-Nonanol | 21.754 | 1095 | 109 | 8 |
| 854 4-Nonanol | 21.808 | 1088 | 109 | 9 |
| 855 2H-Pyran-2-one, tet | rahyc 21.817 | 1092 | 109 | 9 |
| 856 Methyl benzoate | 21.87 | | 110 | 0 |
| 857 Benzoic acid, methyl | ester 21.915 | | 110 | 1 |
| 858 Butanoic acid, 2-met | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 859 6-Nonenal, (Z)- | 21.9263 | 1101 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 860 2-Cyclohexen-1-one | 4,4 21.9263 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 861 Furan, 3-(4-methyl-3 | 3-per 21.9263 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 862 2-Nonanone | 21.94 | 1092 | 110 | 1 |
| 863 Caryophyllenyl alcohol | ol 21.95 | | 110 | 1 |
| 3-Hexen-1-ol, propa | noat 21.962 | 1100 | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 865 (Z,Z)-3,6-Nonadiena | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 866 2-Undecene, (Z)- | 21.9955 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 867 Diallyl disulphide | 21.999 | 1081 | 110 | |
| 868 Thujone | 22.0648 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 869 (E)-1-Allyl-2-(prop-: | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 870 1-Nonen-4-ol | 22.0648 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 871 Decane, 2,6,8-trimet | , | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 872 2,2,6-Trimethyl-3-ke | | | 110 | |
| B73 Butanoic acid, 2-met | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 874 Ethanone, 1-(4,5-dih | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 875 3-Cyclohexene-1-m | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| B76 Disulfide, dipropyl | 22.3418 | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 377 1,3,8-p-Menthatrien | | | 110 | |
| 378 Unknown S | 22.376 | | 110 | |
| B79 Propanoic acid, hexyl | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 380 2H-Pyran-3(4H)-one | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 881 2,6,6-Trimethylbicycl | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 882 Phenol, 2,6-dimethyl | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 883 Pentanoic acid, 3-me | | | The content of the retention time actually detected was not retrieved | rt_is_in_silico |
| 884 Filifolone | 22.42 | | 110 | - |
| 885 Hexanoic acid, propy | l est 22.445 | 1094 | 110 | 8 |

The warning information file



Warning information including:

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# Names Population Population Property | Company | Compa
```

WARNING: The compound was not found in the provided MSP file.

WARNING: This compound already exists in the database. Duplicates are not allowed.

WARNING: The RT value is out of the valid range.

WARNING: The synonym name has been changed to NIST Preferred Name.



| | Α | В |
|----|----------------|--------|
| 1 | Name | RT |
| 2 | Acetaldehyde | 1.496 |
| 3 | Methanethiol | 1.526 |
| 4 | Ethane | 1.5523 |
| 5 | Ethyl Chloride | 1.555 |
| 6 | Formaldehyde | 1.559 |
| 7 | Propene | 1.5612 |
| 8 | Methyl Alcohol | 1.5677 |
| 9 | Methyl formate | 1.5695 |
| 10 | Ethylene oxide | 1.5727 |
| 11 | Dimethylamine | 1.5753 |
| 12 | Ethylamine | 1.5773 |

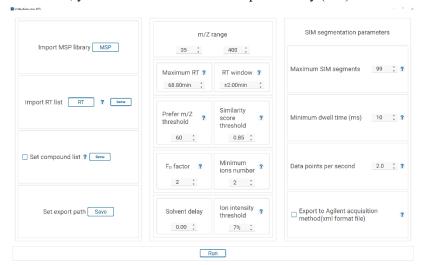
2.2 Generating a Widely-Targeted SIM Method for Compound Detection (MethodGenerator.exe)

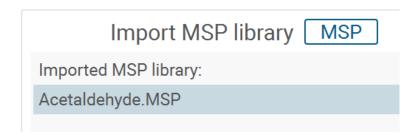
2.2.1 Data Preparation

Before using this software, it is necessary to prepare two input files. The input files can directly utilize the corresponding result files generated by LibraryBuilder.

These input files should include the compound names and their corresponding RT (Retention Time) information.

In addition, you should also have a Mass Spectrometry (MS) information file in the MSP format.





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| The Company |
```

2.2.2 Parameter Configuration

Import MSP library

To input an MSP file, simply click the 'MSP' button and select the desired MSP file.

Once selected, the interface will display all the selected file directories, confirming a successful input.

Import RT list: Import a list of compounds and their RT.

Set compound list: This feature is used when you want to detect only a subset of compounds included in the MSP file, rather than all of them. If you choose this option, the generated target will only include the compounds mentioned in the TXT file.

Set export path:

Click the 'Save' button, choose a saving path, and the processed results will be saved to this directory. m/z range:

The qualitative ions will be selected from within this range.

Maximum RT: Enter the end time of the temperature ramp program.

RT window: When selecting qualitative ions, target compounds are compared for similarity with substances within the user-defined RT (Retention Time) window.

Prefer m/z threshold: M/Z values below this threshold will be assigned a lower weight in the calculation of the weighted score. The default threshold is set to 60.

Similarity score threshold: When the similarity score is below the threshold of 0.85, two spectra are considered distinguishable. The default threshold is set to 0.85.

 \mathbf{F}_R factor: The 'Ratio of Peak Pairs' term is considered in the similarity score calculation only if the number of ions is greater than the specified threshold. The \mathbf{F}_R factor is typically set to be consistent with the minimum number of ions. For more specific and detailed information, please refer to the official documentation of the AMDIS software.

Minimum ions number: This represents the minimum number of ions required for the selection of qualitative ions.

Solvent delay: Enter the start time for mass spectrometry detection, also known as the solvent delay time

Ion intensity threshold: Ions with abundances lower than the maximum ion abundance multiplied by this threshold value will be excluded from the selection of qualitative ions.

SIM segmentation parameters:

Maximum SIM segments: The maximum number of segments allowed in the SIM (Selected Ion Monitoring) acquisition method. Default: 99.

Minimum dwell time (ms): The allowed minimum dwell time. Default: 10 ms.

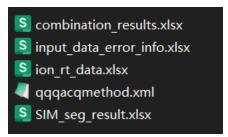
Data points per second: Adjust the number of data points per second. If the calculated dwell time based on the specified data points per second falls below the minimum dwell time, the data points per second will be decreased to ensure that the dwell time remains greater than or equal to the minimum dwell time. The default setting is 2.

Export to Agilent data acquisition method (xml format file): Select this option to export the XML-formatted file used by Agilent data acquisition software.

```
| Remain | Remain | Remains | Remain
```

2.2.3 Generated Widely-Targeted SIM Method

combination_results: This displays the combined information of target compounds after merging.



input_data_error_info: This file highlights discrepancies in the input data that led to improper identification and analysis.

ion rt data: This file displays the results of the final compounds and their qualitative ions.

The content of this file is identical to the 'combination results' file, but it is in a different format to

| | RT | Ion_Combination | Note | Similar_Compound_List | SCL_Note |
|--------------|--------|-----------------|------|-----------------------|----------|
| Acetaldehyde | 1. 496 | [43, 44] | | ['Methyl formate'] | |
| Methanethiol | 1. 526 | [47, 48] | | | |

make it more user-friendly for other purposes.

SIM_seg_result: This file presents the results of the SIM segments.

qqqacqmethod.xml: The XML-formatted file used by Agilent data acquisition software.

| | RT | ion |
|----------------|---------|-----|
| Acetaldehyde | 1. 496 | 43 |
| Acetaldehyde | 1. 496 | 44 |
| Methanethiol | 1.526 | 47 |
| Methanethiol | 1.526 | 48 |
| Ethyl Chloride | 1. 555 | 64 |
| Ethyl Chloride | 1. 555 | 66 |
| Propene | 1. 5612 | 41 |
| Propene | 1. 5612 | 40 |
| Propene | 1. 5612 | 37 |
| Propene | 1. 5612 | 39 |

2.3 Data Analysis

2.3.1 Data Preparation

2.3.1.1 Mass Spectrometry File Format Conversion

Before data analysis, we need converse raw data to open formats (.mzML/.cdf) by open access application.

Data conversion to open format (.mzML)

Conversion with MSConvert

Download and install ProteoWizard from here

(http://proteowizard.sourceforge.net/downloads.shtml) .

After installation, from the Start Menu, click the ProteoWizard folder and open MSConvert.

Click Browse and select file(s) for conversion. Then click Add to add them to the MSConvert workflow.

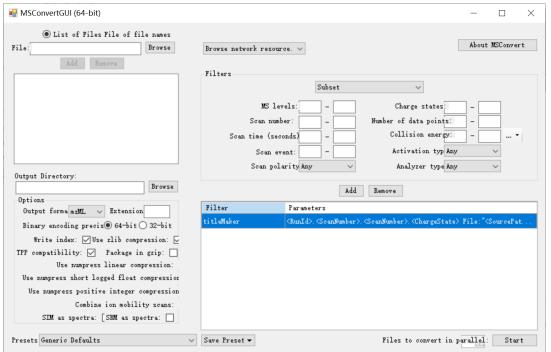
Choose an Output Directory

Under Options, choose mzML (prefered) or mzXML for output format, 32-bit for binary encoding precision, SIM as spectra and uncheck Use zlib compression.

Click Add to add the filter.

Save the parameters for the next conversion. This will save you some time and prevent misconfiguration. In Presets (left bottom), click on Save Presets, and select "Save as default for the format".

Click on Start. Check your folder for the new .mzML files. Verify that these files open properly in Insilicos or TOPP View (OpenMS http://www.openms.de/).

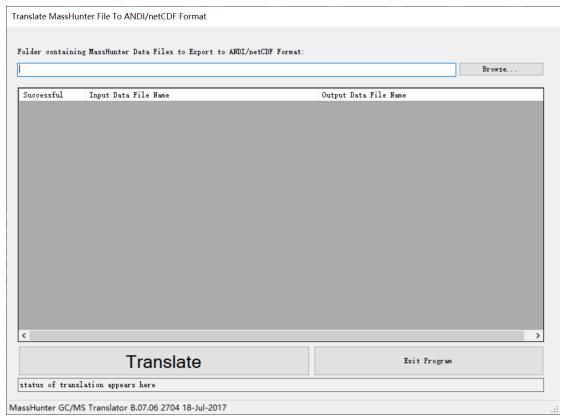


Data conversion to open format (.cdf)

Agilent: Click Browse and select folder containing file(s) for conversion.

Click Translate

The CDF files are generated in the same folder as the raw data files.



For data processing methods from other vendors, please refer to the relevant data conversion instructions.

2.3.1.2 Compound Library (MSP) for identification

Input an MSP file that contains all the target metabolites. The input files can directly utilize the

```
Remore Duplicates.mp [Chient | Notepad3] - 7

**Remore Duplicates.mp [Chient | Notepad3] - 7

**Fat2 | 126 30; 139 10; 140 10; 154 10; 182 130; 7

**Fat53 | 133 10; 7

**Fat54 | Name: Tridecanal | 7

**Fat55 | InChIKey: BGHHAVMRVXCGR-UHFFFAOYSA-N | 7

**Fat56 | Synon: Tridecylaldehyde | 7

**Fat57 | Synon: Tridecylaldehyde | 7

**Fat58 | Synon: Tridecanal Jehyde | 7

**Fat66 | Synon: Index | SemiStdNP=1512/5/55 StdNP=1491/3/39 StdPolar=1823/7/28 | 7

**Fat66 | ExactNass: 198.198365 | 7

**Fat67 | CASe: 10486-19-8; NIST#: 8800 | 7

**Fat68 | Delta: 52925 | 7

**Fat78 | Day 131 12; 39 112; 40 23; 7

**Fat79 | 13 7; 18 14; 26 13; 27 181; 28 56; 7

**Fat79 | 27 376; 30 10; 31 12; 39 112; 40 23; 7

**Fat79 | 47 732; 42 180; 43 932; 44 362; 45 146; 7

**Fat78 | 57 297; 68 443; 69 389; 70 304; 71 349; 7

**Fat78 | 7 2 37; 63 41; 64 147; 55 666; 56 332; 7

**Fat79 | 7 2 37; 63 40; 69 389; 70 304; 71 349; 7

**Fat78 | 7 2 37; 63 40; 69 389; 70 304; 71 349; 7

**Fat78 | 7 2 37; 63 40; 69 389; 70 304; 71 349; 7

**Fat78 | 7 2 37; 63 443; 69 389; 70 304; 71 349; 7

**Fat78 | 7 2 37; 63 443; 83 382; 84 167; 85 170; 8

**Fat78 | 12 3 76; 12 4 87; 125 47; 126 31; 127 7; 7

**Fat88 | 123 76; 124 87; 125 47; 126 31; 127 7; 7

**Fat88 | 123 76; 124 87; 125 47; 126 31; 127 7; 7

**Fat88 | 123 76; 124 87; 125 47; 126 31; 127 7; 7

**Fat88 | 123 76; 124 87; 125 47; 126 31; 127 7; 7

**Fat88 | 13 8; 154 117; 155 17; 170 20; 180 30; 7

**Fat89 | 14 15; 15 15; 17; 170 20; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30; 180 30
```

corresponding result files generated by LibraryBuilder.

2.3.1.3 Optional: Retention Time Information

To identify compounds using actual measured retention times (RT), you will need the required files. The input files can directly utilize the corresponding result files generated by LibraryBuilder.

| | А | В |
|----|-------------------|--------|
| 1 | Name | RT |
| 3 | Acetaldehyde | 1.496 |
| 3 | Methanethiol | 1.526 |
| 4 | Ethane | 1.5523 |
| 5 | Ethyl Chloride | 1.555 |
| 6 | Formaldehyde | 1.559 |
| 7 | Propene | 1.5612 |
| 8 | Methyl Alcohol | 1.5677 |
| 9 | Methyl formate | 1.5695 |
| 10 | Ethylene oxide | 1.5727 |
| 11 | Dimethylamine | 1.5753 |
| 12 | Ethylamine | 1.5773 |
| 13 | 2-Propenal | 1.5779 |
| 14 | Ethyl formate | 1.5791 |
| 15 | Butane, 2-methyl- | 1.5798 |
| 16 | Ethyl ether | 1.5808 |

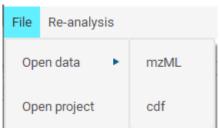
To identify compounds using Kovats Index calculation, you will need the necessary files.

| | Α | В |
|----|-----|----------|
| 1 | Num | RT (min) |
| 2 | 8 | 5.219 |
| 3 | 9 | 9.34 |
| 4 | 10 | 15.177 |
| 5 | 11 | 21.877 |
| 6 | 12 | 28.764 |
| 7 | 13 | 35.514 |
| 8 | 14 | 41.988 |
| 9 | 15 | 48.144 |
| 10 | 16 | 53.937 |
| 11 | 17 | 59.401 |
| 12 | 18 | 63.787 |
| 13 | 19 | 64.851 |
| 14 | 20 | 65.484 |

2.3.2 Parameter Configuration

2.3.2.1 Data Import

Select the appropriate option based on the transformed file format.



2.3.2.2 Peak Detection

Smoothing factor:

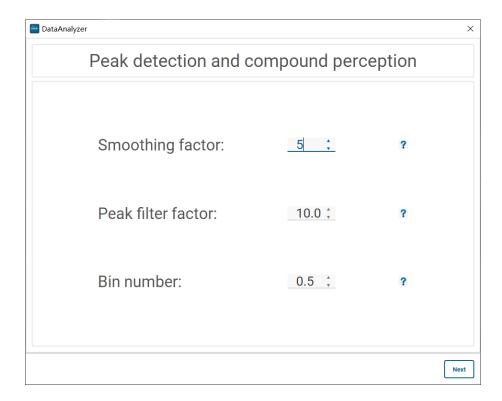
A high smooth factor can make the peaks smoother, but it may also lead to the loss of low-abundance peaks. The default value is set to 5.

Peak filter factor:

A high peak filter factor can remove low-abundance peaks. If this value exceeds 10, it will significantly extend the program's runtime. The default setting is 10.

Bin number:

When using a low data point acquisition mode, such as two points per second, it is recommended to set a wide peak grouping width, for example, 0.5. For more specific and detailed information, please refer to the official documentation of the AMDIS software.



2.3.2.3 Qualitative Analysis

In RI mode

Library search window: Configure the retrieval target compound window in RI mode. The program will compare all compounds within the specified matching window.

Maximum RI: The maximum RI (Retention Index) value.

Peak group Match weight: Peak group forward retrieval matching score weight.

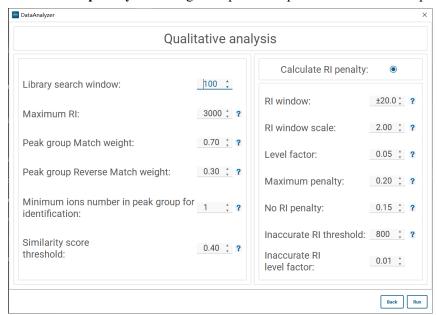
Peak group Reverse Match weight: Peak group reverse retrieval matching score weight

Minimum ions number in peak group for identification:

The minimum number of ions required for a peak group.

Similarity score threshold: The integrated similarity score threshold, where only compounds with scores above this threshold will be considered as candidate compounds.

Calculate RI penalty: Selecting this option will penalize candidate compounds with a significant



difference in RI values.

RI window: Set the RI window range in which no penalty will be applied.

RI window scale: The RI penalty window will be scaled linearly by this factor. Setting it to 0 disables this feature. The default value is 2.

Level factor: A higher number indicates a more severe penalty.

Maximum penalty: Set the maximum penalty score.

Inaccurate RI threshold: RI values below this threshold will be affected by the Inaccurate RI level factor.

Inaccurate RI level factor: The specified range for the Inaccurate RI threshold mentioned above is used for the following purposes.

In RT mode

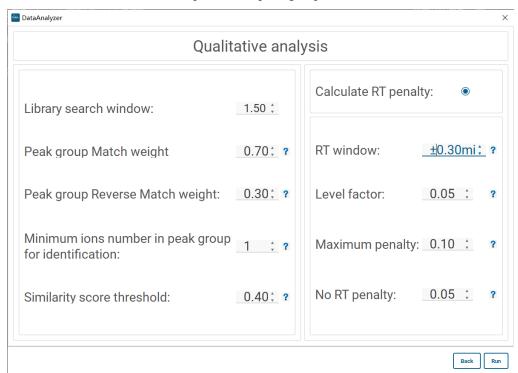
Library search window: Configure the retrieval target compound window in RT mode. The program will compare all compounds within the specified matching window.

Peak group Match weight: Peak group forward retrieval matching score weight.

Peak group Reverse Match weight: Peak group reverse retrieval matching score weight.

Minimum ions number in peak group for identification:

The minimum number of ions required for a peak group.



Similarity score threshold: The integrated similarity score threshold, where only compounds with scores above this threshold will be considered as candidate compounds.

Calculate RT penalty: Selecting this option will penalize candidate compounds with a significant difference in RT values.

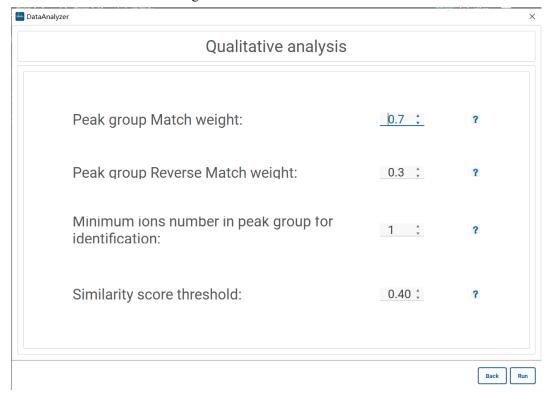
RT window: Set the RT window range in which no penalty will be applied.

Level factor: A higher number indicates a more severe penalty.

Maximum penalty: Set the maximum penalty score.

No RT penalty: Peak groups with retention times (RT) lower than this value will not receive a penalty for mismatch.

Choose the mode for not entering retention time information.



Peak group Match weight: Peak group forward retrieval matching score weight.

Peak group Reverse Match weight: Peak group reverse retrieval matching score weight.

Minimum ions number in peak group for identification:

The minimum number of ions required for a peak group.

Similarity score threshold: The integrated similarity score threshold, where only compounds with scores above this threshold will be considered as candidate compounds.

2.3.3 Main Workspace Overview

