

PF011.18 - Website Instruction Manual QUASIMEME



Versie : 002
Eigenaar : Coördinator Quasimeme
Autorisator : Vark, Winnie van

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Wageningen Evaluating Programmes For Analytical Laboratories



WEPAL WEBSITE INSTRUCTION MANUAL (June 2019)

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1 Introduction

The WEPAL Website offers participants several features, which we will gradually increase in the coming years.

The website features 2 major uses. First, participants can submit results including method indicating code (MIC) to WEPAL. Second, participants can download electronic documents, like global reports, labspecific reports (Z-score lists) and instruction manuals, from the website.

This 'Instruction Manual' will help you with the different features and the easiest way to start working with them.

In Chapter 2 of this 'Instruction Manual' the system requirements for the use of the WEPAL Website are given.

Chapter 3 to 9 deal with the different features.

Please let us know if you have any suggestions to improve the WEPAL Website.

1.1. What's new in version 2019-1

- 1.1.1 One click data-entry access.
E.g. When you only join the first round of a certain exercise, the system will not ask you to make a choice and it will switch automatically to the next field.
- 1.1.2 E-mail notification button Data Entry
When switched to ON, you'll get automatically an e-mail when you entered data and you leave the Data Entry form. Default notification is set OFF.
- 1.1.3 Zscores report
The Z-scores reports are generated and uploaded to the section Reports instead of the section closed results as it was in the past.

Winnie van Vark
Manager WEPAL

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2 System requirements

- Personal computer
- The website can be used with Google Chrome, Firefox, Internet Explorer and Safari
- An internet-connection

Note: Lower version of Internet Explorer (version 8 or lower) might have problems with the colouring during result submitting. Results are still saved, but the colour green or red might not be visible, or less visible.

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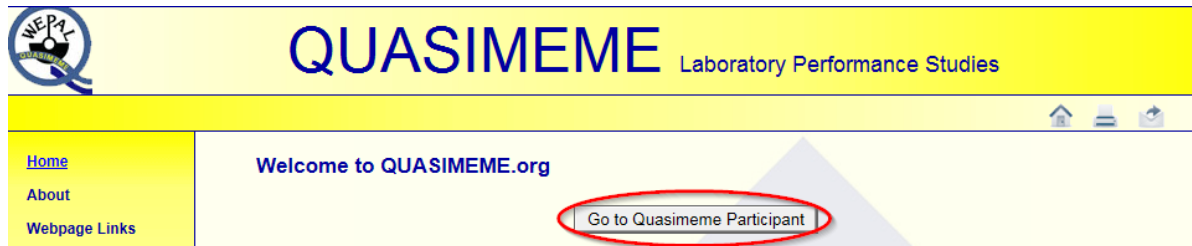
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3 How to access the WEPAL Website

Start the website by going to www.quasimeme.org and clicking on “go to Quasimeme Participant” or go directly to participants.wepal.nl

You will see the following screen:



The website participants.wepal.nl will pop up and request for login:

Wepal/Quasimeme Data-Entry and Reports facility



Username	<input type="text"/>
Password	<input type="password"/>
[Forgot password]	<input type="button" value="Login"/>

Enter your username and password which is provided by WEPAL.

Press Login. You will be directed to the News Page:

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4 News Page

QUASIMEME Laboratory Performance Studies

Welcome [Winnie van Vark](#) | [Logout](#)

Data Entry

- Data Entry
- Closed Results

Reports

- Reports
- Z-scores

My Participation

- Current Registration
- Client Details

News

- Latest News
- Archive

Documents

- Questionnaire
- Help Website
- General Documents
 - Protocols per round
 - Changes in Protocols
 - Report Terms Explanation
- Determinands list
- MIC Code List
- Workshops and Interlaboratory Studies
 - LP Study : Chlorinated Paraffins
 - LP Study : PFASs
- Brochures
- Reports Archive

News

06-05-2019
Welcome

Welcome at the members website of Quasimeme



Don't show this message next time

[Go to Data Entry](#)

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The latest news is shown on the start page. You can choose to remove this information by clicking “Don’t show this message next time”. In the left column under News you can find the latest news and the archived News items. In addition, you can get access to all other sections which are relevant to you in the left column, either you activate the blue “Go To Data Entry” button in the middle of the screen.

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5 Data Entry

By clicking on the “Data Entry” button on the left hand side you reach our data entry feature:

QUASIMEME Laboratory Performance Studies

Welcome [User Name] | Logout

Data Entry

Data Submission Form

My Account

Client number [Field] E-mail [Field]
Institute [Field] Telephone [Field]

Filter

Program [BT1] Year [2019]
Round [1] Labcode [Field]
Dataset [1] Methodgroup [Metals]

Import CSV Print Reported Values E-mail notifications: OFF

Data Entry MIC Entry

Changes in green are saved automatically, errors in red are not saved.
Use arrow keys or TAB for navigation through the cells.
Please keep note of the significance for small numbers (0.0001234 instead of 0.0001).

Last saved: not available

Element	Unit	QTM122BT	QTM123BT	MIC
Aluminium	mg/kg	[Field]	[Field]	[Field]
Antimony	µg/kg	[Field]	[Field]	[Field]
Arsenic	mg/kg	[Field]	[Field]	[Field]
Barium	µg/kg	[Field]	[Field]	[Field]
Beryllium	µg/kg	[Field]	[Field]	[Field]
Bismuth	µg/kg	[Field]	[Field]	[Field]

5.1 How to submit results

First choose the right program/ round/ method group/ dataset:

- Choose a program from the dropdown bar.
- Choose the year from the dropdown bar.
- Choose the round from the dropdown bar.
- Participants who participate with 2 or more datasets in one program have to select the correct dataset. If you have only one dataset, this field is not visible.
- Choose the method group from the dropdown bar.
- Fill in the results. *Please note: Units (mg/kg, g/kg, etc.) can't be changed. Calculate your result to match the correct units.*
- Entered results will show up green or red. Green results are saved and submitted. Red results are not saved. Check red results for errors (For example: A letter, comma or > is used)
- Choose another method group if you want to submit results from a different method group. *Please note: No additional saving is needed. Green results are saved and submitted to WEPAAL*
- If you want to submit results from a different PT program, Just repeat from step a.

Note:

Supervisors have the additional option to choose different lab codes.

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Laboratory Performance Studies

Welcome [Frédérique Brouwer](#) | [Logout](#)

Data Entry

Data Entry
Closed Results

Reports

Reports
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Current Registration
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Report Terms Explanation
Determinands list
MIC Code List
Workshops and Interlaboratory Studies
LP Study : Chlorinated Paraffins
LP Study : PFASs
Brochures
Reports Archive

Data Submission Form

My Account

Client number	<input type="text"/>	E-mail	<input type="text"/>
Institute	<input type="text"/>	Telephone	<input type="text"/>

Filter

Program

Year

Round

Labcode

Dataset

Methodgroup

Data Entry | **MIC Entry**

Changes in green are saved automatically, errors in red are not saved.
Use arrow keys or TAB for navigation through the cells.
Please keep note of the significance for small numbers (0.0001234 instead of 0.0001).

Last saved: 06-05-2019 14:06
Antimony µg/kg = 5.7

Element	Unit	QTM122BT	QTM123BT	MIC
Aluminium	mg/kg	12.43	14.01	
Antimony	µg/kg	<5	5.7	
Arsenic	mg/kg	-5	>15	
Barium	µg/kg			
Beryllium	µg/kg			
Bismuth	µg/kg			

Notes for data entry:

- a. Decimals are entered by point separation. (for example: 6.48 instead of 6,48)
- b. Smaller than results can be entered by using "<" (for example: <6.48)
- c. Results of "0" can be entered in the result sheet but won't be used in our statistics.
- d. Units (mg/kg, g/kg, etc.) can't be changed. Calculate your result to match the correct units.
- e. The codes under MIC are the codes of the former period, new members have to submit the MIC codes first, see paragraph 5.3
- f. More information about MIC Codes abbreviations can be found in the MIC forms that can be found under documents – MIC Code list.

5.2 Notification Reported Values

After entering results, you can receive automatically an email with the reported values. To receive this report, you have to switch the 'E-mail notifications' to ON. After you leave the Data Entry form, you'll get an email to the given email address.

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5.3 MIC entry

After you entered your results, you can enter the companion MIC (method indicating code). You only have to do this once, the MIC's will be stored and shown on the data submission form in the next period.

- a. Choose the method group and dataset.
- b. Click on MIC Entry (next to Data Entry).
- c. Select "- ADD NEW MIC -" behind your MIC in the list box in the right corner.
- d. Tick off the parameters analysed according to the same method or "select all" when only one method is applied.
- e. Choose the right MIC codes from the drop down bar at the right side and click "Commit".
- f. When the appropriate MIC code is not in the list, please choose Z and indicate the method your laboratory has used.
- g. Repeat the procedure for parameters determined with another procedure.
- h. The MIC is valid for these and future results until it is changed.

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Laboratory Performance Studies

Welcome [User] | Logout

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MIC Code List
Workshops and Interlaboratory Studies
 LP Study : Chlorinated Paraffins
 LP Study : PFASs
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Reports Archive

Data Submission Form

My Account

Client number [redacted] E-mail [redacted]
 Institute [redacted] Telephone [redacted]

Filter

Program BT1
 Year 2019
 Round 1
 Labcode [redacted]
 Dataset 1
 Methodgroup Metals

Data Entry
MIC Entry

- Disabled elements in red require data entry first.
- Disabled elements in black belong to the selected MIC and can only be overwritten by adding another MIC

Your MIC - ADD NEW MIC -

	Element	Used MIC
<input checked="" type="checkbox"/>	Aluminium	
<input checked="" type="checkbox"/>	Antimony	
<input type="checkbox"/>	Arsenic	
<input type="checkbox"/>	Barium	
<input type="checkbox"/>	Beryllium	
<input type="checkbox"/>	Bismuth	
<input type="checkbox"/>	Cadmium	
<input type="checkbox"/>	Calcium	
<input type="checkbox"/>	Cerium	
<input type="checkbox"/>	Cesium	

Add New MIC

Homogenisation of sample material
[B] Blender

Digestion of sample
[AR] Aqua Regia

System used for digestion
[MW] Microwave

Preservation extract
[NA] Nitric Acid

Detection method
[AA] FAAS without background correction using air/acetylene

Commit

Note: For elements in red enter results first (go back to "Data Entry")

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5.4 Your MIC

You can select one of the MIC's from the list box in the right corner after Your MIC. The corresponding elements are shown – see check marks in front of the elements.

QUASIMEME Laboratory Performance Studies

Welcome [username] | Logout

Data Entry

Data Submission Form

My Account

Client number [redacted] E-mail [redacted]
 Institute [redacted] Telephone [redacted]

Filter

Program
 Year
 Round
 Labcode
 Dataset
 Methodgroup

E-mail notifications: OFF

Data Entry | **MIC Entry**

• Disabled elements in red require data entry first.
 • Disabled elements in black belong to the selected MIC and can only be overwritten by adding another MIC

Select All

Element	Used MIC
<input checked="" type="checkbox"/> Aluminium	[.B AR MW NA AA]
<input checked="" type="checkbox"/> Antimony	[.B AR MW NA AA]
<input type="checkbox"/> Arsenic	
<input type="checkbox"/> Barium	
<input type="checkbox"/> Beryllium	
<input type="checkbox"/> Bismuth	
<input type="checkbox"/> Cadmium	
<input type="checkbox"/> Calcium	
<input type="checkbox"/> Cerium	
<input type="checkbox"/> Cesium	

Your MIC [.B|AR|MW|NA|AA] (results) ▼

MIC: [.B|AR|MW|NA|AA]

Homogenisation of sample material
 [B] - Blender

Digestion of sample
 [AR] - Aqua Regia

System used for digestion
 [MW] - Microwave

Preservation extract
 [NA] - Nitric Acid

Detection method
 [AA] - FAAS without background correction using air/acetylene

- When you applied the same method to other elements, tick them off and enter “Commit”. The new MIC is shown behind the elements.

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- b. When a MIC code is not in use anymore it will disappear from the list.
- c. To enter a new MIC combination select – ADD NEW MIC – (see chapter 5.3-c)
- d. In the database the date you enter a (new) MIC is stored. When you download results or reports from the past, the MIC's valid in the requested period appear.

Attention:

- The next round this MIC will be used as default for this method. If you don't change your MIC, you have to fill it once.
- You can find an overview of the MIC's in the MIC code list (left column of the web form)

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5.5 Print Results as PDF

An overview of all submitted results can be downloaded by clicking 'Print Reported Values'

The screenshot shows the 'Data Submission Form' interface. On the left is a navigation menu with categories like 'Data Entry', 'Reports', 'My Participation', 'News', and 'Documents'. The main area contains a 'My Account' section with fields for Client number, Institute, E-mail, and Telephone. Below this is a 'Filter' section with dropdowns for Program (BT1), Year (2019), Round (1), Labcode, Dataset (1), and Methodgroup (Metals). At the bottom of the filter section, there are three buttons: 'Import CSV', 'Print Reported Values' (circled in red), and 'E-mail notifications: OFF'. Below the buttons is a 'Data Entry' section with tabs for 'Data Entry' and 'MIC Entry'. A yellow message box states: 'Changes in green are saved automatically, errors in red are not saved. Use arrow keys or TAB for navigation through the cells. Please keep note of the significance for small numbers (0.0001234 instead of 0.0001).'. To the right of this message, it says 'Last saved: 06-05-2019 14:06' and 'Antimony µg/kg = 5.7'. Below the message is a table with columns: Element, Unit, QTM122BT, QTM123BT, and MIC. The table contains data for Aluminium, Antimony, Arsenic, Barium, Beryllium, and Bismuth.

Element	Unit	QTM122BT	QTM123BT	MIC
Aluminium	mg/kg	12.43	14.01	[.B AR MW NA AA]
Antimony	µg/kg	<5	5.7	[.B AR MW NA AA]
Arsenic	mg/kg			
Barium	µg/kg			
Beryllium	µg/kg			
Bismuth	µg/kg			

At the bottom of the screen you will find a message:

The dialog box asks: 'Do you want to open or save result-BT1-2019-1-...pdf (3.16 KB) from participants.wepal.nl?'. It has buttons for 'Open', 'Save', and 'Cancel'.

You can open or save this file.

This file gives you an overview of the results and MIC's in the way they are saved in the WEPAL database.

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5.6 How to submit results using import CSV

- Warning: Entering a new .csv file will remove all data already present for the current round!
There's is no roll back possible!
- Press "Import .csv" button

The screenshot shows the QUASIMEME Laboratory Performance Studies website interface. The header includes the logo and the text 'QUASIMEME Laboratory Performance Studies'. Below the header is a navigation menu with categories: Data Entry, Reports, My Participation, News, and Documents. The main content area is titled 'Data Submission Form' and contains a 'My Account' section with fields for Client number, Institute, E-mail, and Telephone. Below this is a 'Filter' section with dropdown menus for Program (BT1), Year (2019), Round (1), Labcode, Dataset (1), and Methodgroup. At the bottom of the form, there are three buttons: 'Import CSV' (circled in red), 'Print Reported Values', and 'E-mail notifications: OFF'. The footer of the page reads '© Wepal / Quasimeme | Release 20191'.

- Press Browse and select *.csv file
- Press Validate import

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QUASIMEME Laboratory Performance Studies

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LP Study : PFASs
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CSV Import

Please take note of the following procedure:

1. Data that is already entered for the current round, will be removed
2. Check that a header is included
3. Check if all data is valid
4. Check if the determinand number is in accordance with the methodgroup
5. If data is invalid, no value will be imported
6. Submit the imported data
7. MIC can only be added after a successful import with the tab MIC Entry

Note: The determinand numbers per methodgroup can be found in the navigation menu at the left handside (Determinands list)

Conditions for a valid import:

1. The filename should have the extension .CSV to import the file
2. A header can be handsome as reminder of the column sequence
3. The first row will always be skipped as data
4. The data is separated by a comma (,) or semicolon (;)
5. Data from an Excel sheet should be saved as .CSV with the option: File, Save as, .CSV

Example of a valid format:

Header: Element Number, Sample Number, Result Value
Format 3 columns (decimals as dot)

- Line 1: Element Number, Sample Number, Result Value
- Line 2: 55, 1, 4.19
- Line 3: 55, 2, 4.21
- Line 4: 55, 3, 4.22
- Line 5: 55, 4, 4.18

Program: BT1 Year: 2019 Round: 1

CSV:

<< Back 1 Validate import

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Conditions for a valid import:

- a. The filename should have the extension .csv to import the file.
- b. Please read the instructions for a valid format carefully:
- c. Required in the first row is a header (which can be handsome as reminder of the column sequence). This first row will always be skipped as data
- d. The data is separated by a comma (,) or semicolon (;)
- e. If you have an Excel sheet, you have to save it as .csv with the option: File, Save as, .CSV
- f. If data is invalid, the whole dataset will be ignored and the button 'Import' is not visible:

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The screenshot shows the QUASIMEME Laboratory Performance Studies interface. The 'Data Entry' menu is selected, and the 'CSV Import' page is active. A red error message states: 'One or more validation errors were detected. Please import a valid CSV file.' Below this is a table with the following data:

Element	QTM122BT	QTM123BT	Validation
3 - Copper	2.234	2.510	Validation OK
6 - Aluminium	-3.334	4	Invalid sample value (Sample 1)
5 - Cadmium	<4	4.479	Validation OK
389 - Unknown element name	<4	4	Invalid element number

A '<< Back' button is visible at the bottom left of the table area.

g. If format is invalid or not of type *.CSV :

The screenshot shows the QUASIMEME Laboratory Performance Studies interface. The 'Data Entry' menu is selected, and the 'CSV Import' page is active. A red error message states: 'An error occurred. Please import a valid CSV file.' Below this is a list of error details:

- The uploaded file must be of the mimetype CSV
- The CSV file must contain a comma (,) or semicolon (;) as delimiter
- The CSV file must be in a three-column or four-column format

A '<< Back' button is visible at the bottom left of the error message area.

h. Submit the imported data

The screenshot shows the QUASIMEME Laboratory Performance Studies interface. The 'Data Entry' menu is selected, and the 'CSV Import' page is active. A green success message states: 'Validation check is OK. Click on the "Import" button below to import the data.' Below this is a table with the following data:

Element	QTM122BT	QTM123BT	Validation
3 - Copper	2.234	2.510	Validation OK
6 - Aluminium	3.334	4	Validation OK
5 - Cadmium	<4	4.479	Validation OK
39 - Beryllium	<4	4	Validation OK

'<< Back' and 'Import' buttons are visible at the bottom left of the table area.

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Note:

Check the right element number on the website on the participants website (menu Documents, Determinands list).

5.7 Notes for data entry

- Decimals are entered by point separation. (for example: 6.48 instead of 6,48) Smaller than results can be entered by using "<" (for example: <6.48)
- Results of "0" can be entered in the result sheet but won't be used in our statistics.
- Units (mg/kg, g/kg, etc.) can't be changed. Calculate your result to match the correct units.
- It is not possible to submit the MIC using the .CSV import module.
- Enter the MIC's afterwards manually according to paragraph 5.3.

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6 Closed Results

By clicking on the “Closed Results” button on the left hand side you reach your submitted results from all participated exercises, which were finalized with the publication of the global report.

The screenshot shows the 'Closed Results' page on the QUASIMEME website. The page has a yellow header with the logo and 'QUASIMEME Laboratory Performance Studies'. Below the header is a navigation menu with categories like 'Data Entry', 'Reports', 'My Participation', 'News', and 'Documents'. The main content area is titled 'Closed Results' and includes a 'My Account' section with fields for Client number, Institute, E-mail, and Telephone. Below this is a filter section with dropdown menus for Program (BT1), Year (2018), Round (1), Labcode, Dataset (1), and Methodgroup (Metals). There is a 'Print Reported Values' button. A red warning banner states 'Program BT1 is expired'. Below the banner is a table of results for various elements.

Element	Unit	QTM118BT	QTM119BT	MIC
Arsenic	mg/kg	9.45	2.33	[.- NA MW . - IM]
Cadmium	µg/kg	31.89	19.13	[.- NA MW . - IM]
Chromium	µg/kg	102.69	118.67	[.- NA MW . - IM]
Copper	µg/kg	2406.26	854.61	[.- NA MW . - IM]
Iron	mg/kg	63.37	20.31	[.- NA MW . - IM]
Lead	µg/kg	18.11	18.87	[.- NA MW . - IM]
Manganese	µg/kg	1100.38	4379.51	[.- NA MW . - IM]

6.1 How to view closed results

- Choose a program from the dropdown bar.
- Choose the year from the dropdown bar.
- Choose the round from the dropdown bar.
- All results from the participated period are shown. In red it is mentioned that the period is expired. It is not possible to add or adjust the submitted results.
- If you want to view results from a different PT program or period, Just repeat from step a.
- To get an overview of all data submitted you can download the results form by clicking on:



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7 Reports and Labspecific Reports (.CSV)

This section contains the global reports and the labspecific reports (z-score lists). By clicking on the “Reports” button on the left hand side you get a list of all reports from participated periods and programs.

You can also download a .csv (comma separated values) file containing a ‘lab specific report’ for use in your own QMS system.

7.1 How to download global reports

- Choose a program from the dropdown bar. All reports from this PT schemes will be visible.
- If needed: You can make a sub-selection by choosing the year from the dropdown bar.
- If needed: You can make a sub-selection by choosing the period from the dropdown bar.
- All reports from the selection are shown and can be downloaded. Reports are in *.pdf format, Labspecific reports in .csv format.
- If you want to download reports from a different PT program, year or period, Just repeat from step a, b or c.

Type	Name
	BT1-2018-1.pdf
	BT1-2018-2.pdf
	BT1-2017-1.pdf
	BT1-2017-2.pdf
	BT1-2016-1.pdf
	BT1-2016-2.pdf
	BT1-2015-1.pdf
	BT1-2015-2.pdf
	R2014_1 BT1.pdf
	BT1-2014-1.pdf
	BT1-2014-2.pdf
	R73 Ex1029 BT1.pdf
	R72 Ex1008 BT1.pdf

7.2 How to download labspecific reports

- Choose a program from the dropdown bar.

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- You can make a sub-selection by choosing the year from the dropdown bar.
- If needed: You can make a sub-selection by choosing the period from the dropdown bar.
- All results from the participated periods are shown.
- If you want to view results from a different PT program or period, just repeat from step a.
- If the Z-scores files are not listed, an extra button is popped up for selecting the report manually with the button 'Print Z-scores and Results'.

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- Determinands list
- MIC Code List
- Workshops and Interlaboratory Studies
 - LP Study : Chlorinated Paraffins
 - LP Study : PFASs
- Brochures
- Reports Archive

Z-scores

My Account

Client number [redacted] E-mail [redacted]

Institute [redacted] Telephone [redacted]

Filter

Program

Year

Round

Type	Name
	ZSCORE-2018-1-BT1-3.pdf
	ZSCORE-2018-2-BT1-3.pdf
	2018-1-BT1-.csv
	2018-2-BT1-.csv

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7.3 Notes for z-scores

- Some results have 1 or 2 stars. These stars are based on the evaluation done in the global reports.
- For the evaluation of results the Z-score is used.
- Questionable results $2 < |Z| < 3$ are marked as stragglers (*).
- Deviating results with $|Z| > 3$ are marked as outliers (**).

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8 My Participation

In My Participation you can find your Laboratory account information about your current registration and personal contact information

8.1 Current Registration

In current registration you can find the PT Program and periods in which your lab is participating including Labcode and number of sample sets. If there are more laboratories in your company, you can select the registration for each laboratory by selecting the corresponding client name for that lab.

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LP Study : PFASs

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Current Registration

Labcode	Program	Round 1	Round 2	No. of Samplesets	No. of Datasets	Start period	End period
Client1	BT1	X	X	1	1	1993.1	
Client1	BT2	X	X	1	1	1993.1	
Client1	BT4	X	X	1	1	1996.1	
Client1	BT9	X	X	1	1	2011.1	
Client1	BT10	X	X	1	1	2018.1	
Client1	DE13	X		1	1	2018.1	
Client1	MS1	X	X	1	2	2014.1	
Client1	MS2	X	X	1	2	1993.1	
Client1	MS3	X	X	1	2	1994.1	
Client1	MS6	X	X	1	1	2007.1	
Client1	MS7	X	X	1	2	2011.1	
Client1	MS8	X	0	1	1	2019.1	

Round details: X = participation 0 = no participation

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8.2 Client Details

In client details you can find all the information concerning addresses for delivery, postal and invoices. If this information is changed, you can submit this form by clicking the button 'Request for change'.

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Client Details

Client Number :

Client Name :

E-mail :

VAT Number :

Location :

Phone :

Delivery Address	Postal Address
Company Name : <input type="text"/>	Company Name : <input type="text"/>
Client Name : <input type="text"/>	Client Name : <input type="text"/>
Address : <input type="text"/>	Address : <input type="text"/>
Postal Code : <input type="text"/>	Postal Code : <input type="text"/>
City : <input type="text"/>	City : <input type="text"/>
State : <input type="text"/>	State : <input type="text"/>
Country : <input type="text"/>	Country : <input type="text"/>

Invoice Address

Company Name :

Client Name :

Address :

Postal Code :

City :

State :

Country :

Request for change

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9 Documents

Below the News (latest and archive) there is a list of documents. By pressing the different document subjects you can download useful documents.

For example:

- Instruction Manual PT Scheme (Manual PT Scheme)
- Instruction Manual of the QUASIMEME Website (Help Website)
- List of determinants
- MIC code list
- General Documents

9.1 How to download these reports

- Choose a subject from the left hand side.
- Downloads will directly be visible or the download is placed in a sub-folder.
- If sub-folders are visible, simply click on the sub-folder
(Sometimes the downloaded files are archived by year in a sub-folder.)

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- Workshops and Interlaboratory Studies
 - LP Study : Chlorinated Paraffins
 - LP Study : PFASs
- Brochures**
- Reports Archive

Type	Name
	2019_Application Form.docx
	Brochure quasimeme 2019.pdf

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10 Addresses

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