



EFSA CONTAMINANTS REPORTING TOOLS

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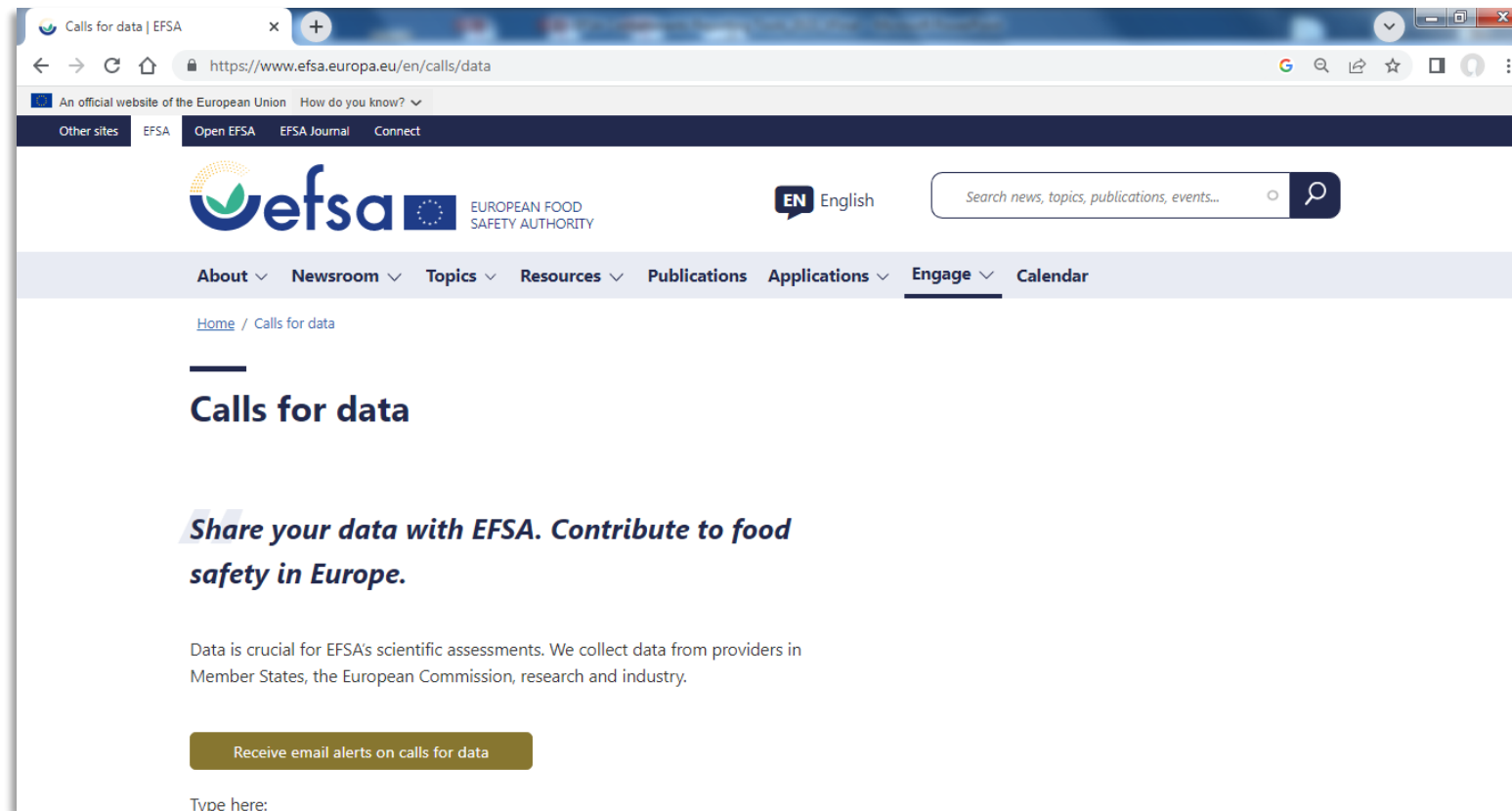
FRAMEWORK

- Member States have the responsibility to transmit to EFSA all the data produced in the context of the official control of food and feed chain;

Share your data with EFSA. Contribute to food safety in Europe.

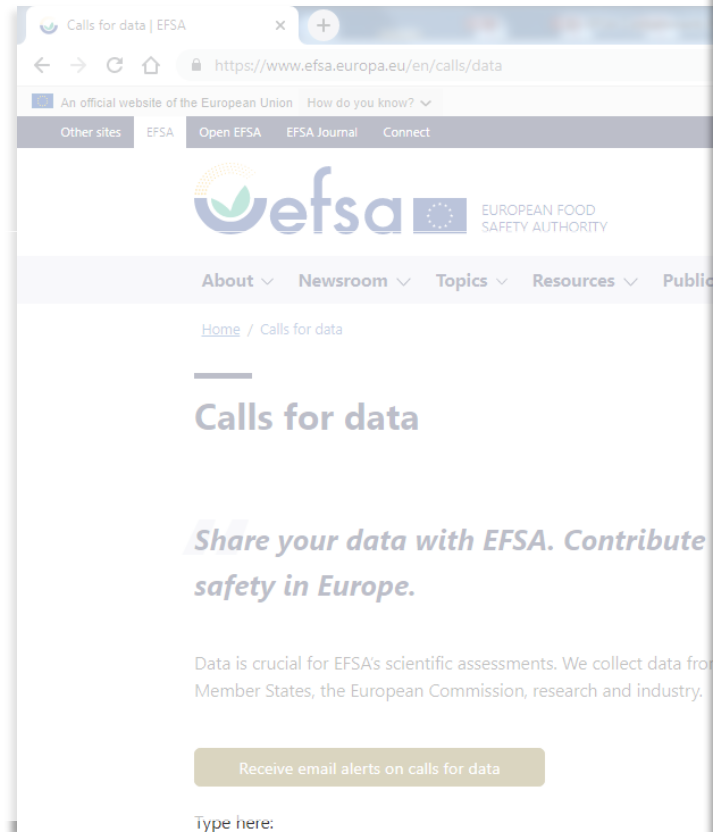
EFSA _ CALLS FOR DATA

- EFSA gathers data through continuous calls to multiple providers in Member States



EFSA _ CALLS FOR DATA

- EFSA gathers data through continuous calls for data from Member States



Home / Calls for data

Calls for data

Type here:
- None -

Results 1 - 10 of 78

- Call for data for the re-evaluation of gluconic acid (E 574) and related food additives (E 575-579)**
Deadline: 31 December 2023 Ongoing
- Call for collection of data on phthalates, structurally similar substances and replacement substances migrating from or occurring in food contact materials (Plasticisers_FCM_2023)**
Deadline: 31 August 2023 Ongoing
- Call for continuous collection of chemical contaminants occurrence data in food and feed**
Deadline: 31 August 2023 Ongoing
- Call for data on genotoxicity data on maltitol (E 965 i)**
Deadline: 24 July 2023 Ongoing
- Open call for food additive occurrence data in food and beverages intended for human consumption**
Deadline: 30 June 2023 Expired

ember

EFSA _ CALLS FOR DATA

The screenshot shows the EFSA website header with navigation links: Other sites, EFSA, Open EFSA, EFSA Journal, Connect. The EFSA logo and 'EUROPEAN FOOD SAFETY AUTHORITY' are visible. A search bar contains the text 'Search news, topics, publications, events...'. The main navigation menu includes About, Newsroom, Topics, Resources, Publications, Applications, Engage, and Calendar. The breadcrumb trail is 'Home / Calls for data / Call for continuous collection of chemical contaminants occurrence data in food and feed'. The main heading is 'Call for continuous collection of chemical contaminants occurrence data in food and feed'. Below the heading, it states 'Published: 8 March 2023', 'Deadline: 31 August 2023 - 23:59 (CEST)', and 'Ongoing'. There are social media share icons for Twitter, Facebook, and LinkedIn. A 'Contents' section lists 'Documents' and 'Related topic(s)'. A 'Background' section is partially visible, starting with 'In the receive available data a feed.'

- EFSA will only accept data in SSD2 format;
- Data must be submitted in electronic format (XML) to the EFSA Data Collection Framework (DCF).

EXCEL REPORTING TOOLS

- **Excel reporting tools for generating XML files for chemical monitoring**
 - Excel workbooks specifically customized to support data providers in compiling and reporting chemical monitoring residues data (chemical contaminants, additives, pesticides, and veterinary medicinal product residues) to EFSA according to the SSD2 controlled terminologies;

EXCEL REPORTING TOOLS

- Simple and usable tools that allow Member States to create files in line with the SSD2 (Standard Sample Description 2) data model* and to generate XML* files with the correct structure for harmonised data transmission to EFSA via the DCF (Data Collection Framework);

[Chemical monitoring reporting guidance: 2023 data collection]

[Detailed description of the SSD2 data model - Standard Sample Description ver. 2.0]

[Technical details and specifications for valid SSD2 XML files - Guidance on Data Exchange version 2.0]

EXCEL REPORTING TOOLS

- Comprehensive tools that allow data elements to be filled in more easily, according to the specific catalogue of controlled terminologies;
- This tools also allow data elements to be validated locally and immediately, to check if the controlled terminology catalogues are correctly applied, **improving the overall quality, consistency and integrity of the data** submitted to EFSA.

EXCEL REPORTING TOOLS - TYPES

- EFSA made available **three types of Excel reporting tools** for XML creation with chemical monitoring data:
 - △ **Excel tool FLAT for SSD2 data collection**
 - △ **Excel tool WITH METHODS for SSD2 data collection**
 - △ **Excel simplified tool for SSD2 data collection**

EXCEL REPORTING TOOLS - TYPES

- The **Excel tool FLAT** and the **Excel tool WITH METHODS** include 57 of the 98 SSD2 fields. They contain all the SSD2 mandatory fields and the most relevant optional fields to a valid XML file creation;
- The **Excel tool FLAT** and the **Excel tool WITH METHODS** have in common several functionalities, including internal validation procedure and the XML creation procedure, despite the data reporting schema of the tools is completely different;

EXCEL REPORTING TOOLS - TYPES

- The **Excel tool FLAT** is used to report contaminants and additives;

and

- The **Excel tool WITH METHODS** can be used for reporting screening results, mainly in the residues of pesticides and of veterinary medicinal products domains.

EXCEL REPORTING TOOLS - TYPES

- The **Excel simplified tool** (not considered in this presentation) contains the minimum reporting requirements to achieve a valid file transmission;
- It is primarily aimed to data providers with little experience of compiling and sending data to EFSA.

EXCEL REPORTING TOOLS - STRUCTURE

- The **Excel tool FLAT** is conceived for a simpler usage with a straightforward structure of the input: each record includes samples attributes, laboratory information and analytical results on the same line of a database that has the flat structure of an ordinary Excel table;
- The **Excel tool WITH METHODS** has the input information related to samples, analytical methods and positive detections saved in three separated types of worksheets;

EXCEL REPORTING TOOLS - STRUCTURE

- The Excel reporting tools **do not contain all the data elements of the SSD2 data model** but only those mandatory, dependent mandatory and relevant for chemical monitoring data collection;
 - > This SSD2 data elements are listed in the ***“Chemical monitoring reporting guidance: 2023 data collection”***;
- The content of some data elements must be in accordance to specific catalogues of controlled terminologies, while for others it's free of control.

EXCEL TOOL FLAT - WORKSHEETS

- The mandatory and relevant SSD2 data elements are included as columns in the same worksheet.

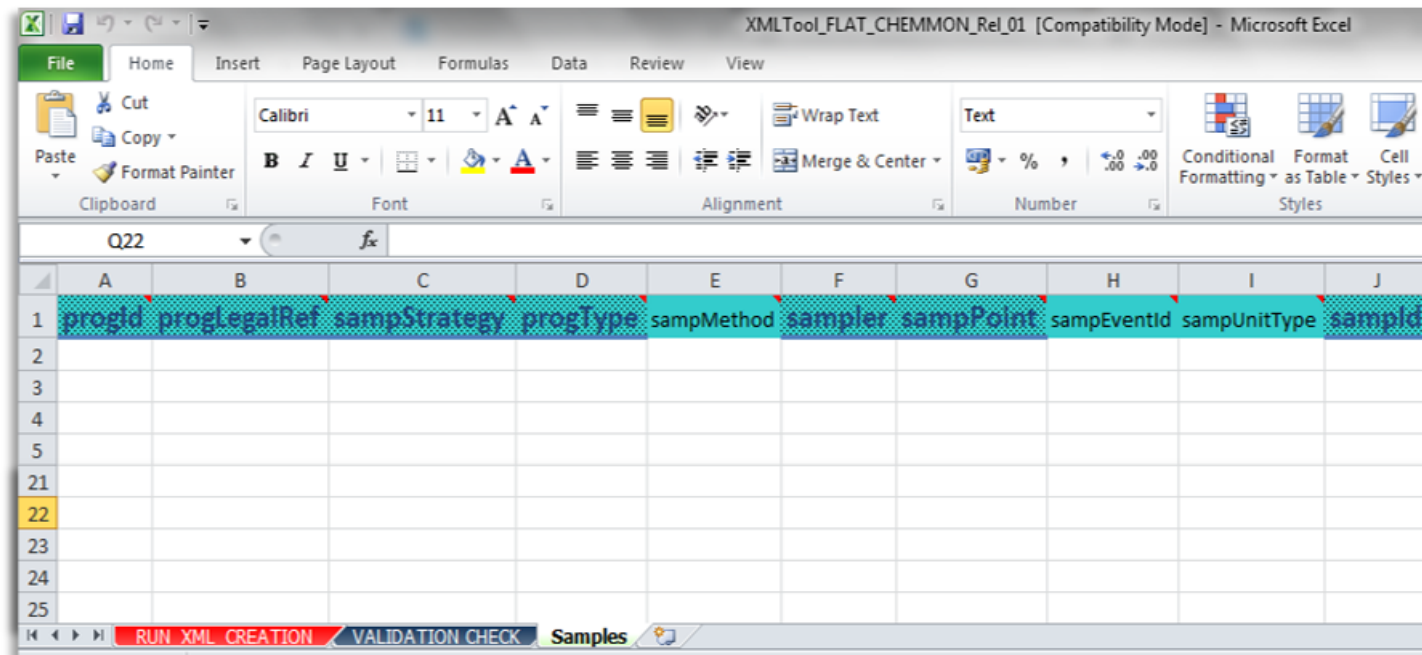
The screenshot displays the Microsoft Excel interface with the following data elements in the worksheet columns:

Column	Data Element
A	progId
B	progLegalRef
C	sampStrategy
D	progType
E	sampMethod
F	sampler
G	sampPoint
H	sampEventId
I	sampUnitType
J	sampId
K	sampCountry
L	sampY
M	sampM
N	sampD
O	sampInfo.Orig
P	sampInfo.OrigSampId
Q	sampMatType
R	sampMatCode
S	sampMatText
T	origCountry
U	origFishAreaCode
V	analysisY
W	anMatCode
X	anPortSeq
Y	labId
Z	labAccred
AA	labCountry
AB	paramType
AC	paramCode
AD	paramText
AE	anMethRefId
AF	anMethType
AG	anMethCode
AH	anMethText
AI	resId
AJ	accredProc
AK	resUnit
AL	resLOD
AM	resLOQ
AN	CCalpha
AO	CCbeta
AP	resVal
AQ	resValRec
AR	resValRecCorr
AS	exprResPerc.moistPerc
AT	exprResPerc.fatPerc
AU	exprResType
AV	resQualValue
AW	resType
AX	resValUncert
AY	resInfo.notSummed
AZ	evalLowLimit
BA	evalLimitType
BB	evalCode
BC	actTakenCode
BD	evalInfo.conclusion
BE	evalInfo.com
	evalInfo.resAsses

The callout box labeled "Samples worksheet" points to the "Samples" tab in the Excel window's bottom pane.

EXCEL TOOL FLAT - WORKSHEETS

- The FLAT Excel reporting tool consists of three worksheets:



- **Samples:** the worksheet compiled with all the data to be converted in XML format;

EXCEL TOOL FLAT - WORKSHEETS

- **VALIDATION CHECK:** a console for running the validation procedure that checks if the controlled terminology catalogues are correctly applied in the Samples worksheet and returns a list of cells that failed the control;
- **RUN_XML_CREATION:** a console to run the code that automatically generates the XML file and returns the feedback on the files created.

EXCEL TOOL WITH METHODS - WORKSHEETS

- In the **Excel Tool With Methods** the SSD2 data elements are divided in three groups and included as columns over three different main types of worksheets.

Samples worksheet

progId	sampStrategy	progType	sampMethod	sampler	sampPoint	sampEventId	sampUnitType	sample	sampCountry
--------	--------------	----------	------------	---------	-----------	-------------	--------------	--------	-------------

Methods worksheets

paramType	paramCode	paramText	anMethRefId	anMethType	anMethCode	anMethText
-----------	-----------	-----------	-------------	------------	------------	------------

Results worksheet

resType	resVal	resValRec	resValRecCorr	exprResPerc.moistPerc	exprResPerc.fatPerc	exprResType	resInfo	evalLowLimit	evalLimitType	evalCode	actTakenCode	evalInfo.conclusion	evalInfo.com	evalInfo.resAsses
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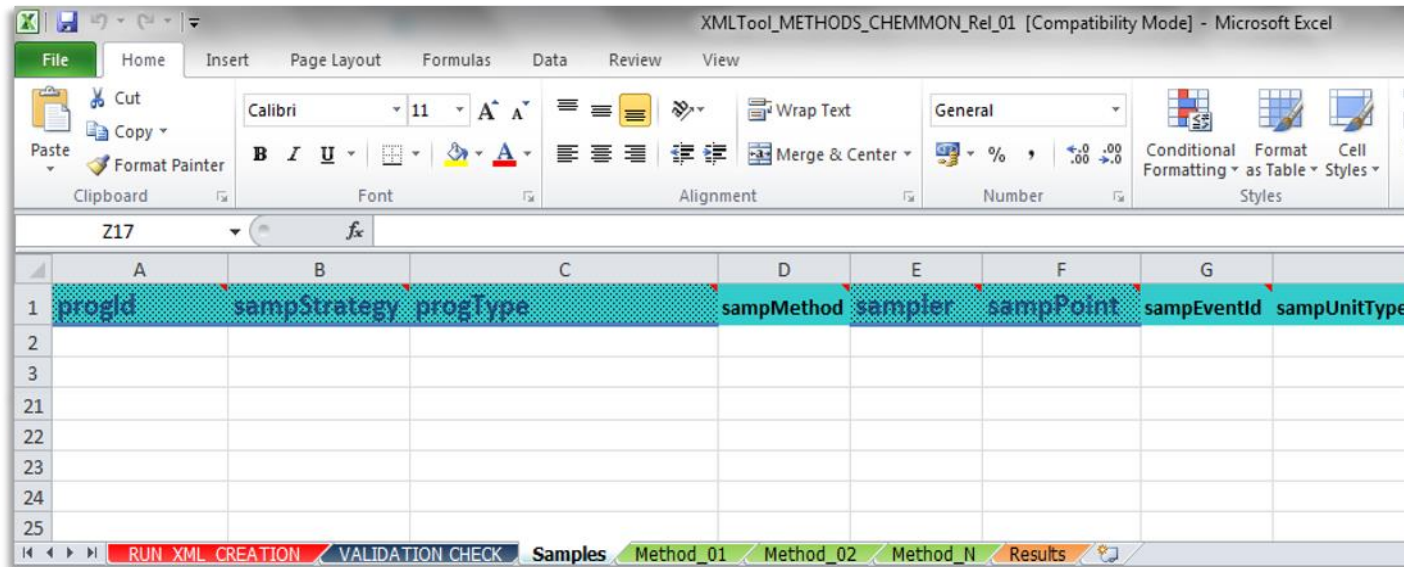
Not an SSD2 field but selector of methods sheets

These fields are repeated on purpose (see the explanation later in this document)

These fields are repeated here on purpose (see the explanation later in this document)

EXCEL TOOL WITH METHODS - WORKSHEETS

- The **WITH METHODS** reporting tool consists of five different types of worksheets:



The screenshot shows a Microsoft Excel window titled "XMLTool_METHODS_CHEMMON_Rel_01 [Compatibility Mode] - Microsoft Excel". The ribbon includes File, Home, Insert, Page Layout, Formulas, Data, Review, and View. The Home ribbon is active, showing options for Clipboard, Font, Alignment, Number, and Styles. The worksheet grid shows columns A through G. Row 1 is highlighted in blue and contains the following headers: A: progId, B: sampStrategy, C: progType, D: sampMethod, E: sampler, F: sampPoint, G: sampEventId, H: sampUnitType. The bottom of the window shows a sheet tab bar with tabs for "RUN XML CREATION", "VALIDATION CHECK", "Samples", "Method_01", "Method_02", "Method_N", and "Results".

	A	B	C	D	E	F	G	H
1	progId	sampStrategy	progType	sampMethod	sampler	sampPoint	sampEventId	sampUnitType
2								
3								
21								
22								
23								
24								
25								

- **Samples:** working area for reporting information at sample level. All the samples reported are listed and described once in this worksheet;

EXCEL TOOL WITH METHODS - WORKSHEETS

- **Methods:** working area for reporting the descriptors of a single laboratory method. This type of worksheet will be replicated as many times as the laboratory methods reported;
- **Results:** working area for reporting positive detections. Each positive result reported in this table has to be linked to a sample and to a specific substance reported in one of the laboratory methods sheets;
- **VALIDATION CHECK:** a console for running the validation procedure that checks if the controlled terminology catalogues are correctly applied in the Samples worksheet and returns a list of cells that failed the control;
 - **RUN_XML_CREATION:** a console to run the code that automatically generates the XML file and returns the feedback on the files created.

EXCEL REPORTING TOOLS - STRUCTURE

- The data reporting schema of the tools and the order of the data elements follows the order of the “**Chemical monitoring reporting guidance: 2023 data collection**” for an easier reference;
- Colours, font and special labels in the headers are meant to provide additional support to the user when compiling the data:
 - Background colours are meant to evidence the SSD2 section to which each field belongs.

Section_code	Section	Color
A	Local organization	(Not included)
B	Sampling programme	
C	Sampling event	
D	Sample taken	
E	Matrix sampled	
F	Sample analysed	
G	Matrix analysed	
H	Sample analysed portion	
I	Isolate	(Not included)
J	Laboratory	
K	Parameter	
L	Analytical Method	
M	Result	
N	Evaluation	

EXCEL REPORTING TOOLS - STRUCTURE

- Darker background colours and larger/bold font of the header names are meant to identify the fields that are mandatory or dependent mandatory;
- The Mandatory/Optional status of each field is also reported in special labels associated to each column header (specified in line 5).

progType	sampMethod	sampler	sampPoint	sampEventId	sampUnitType	sampId
Mandatory	Optional	Mandatory	Mandatory	Optional	Optional	Mandatory

sampMatCode
SSD2 Code: E.02 - SSD2 Element: sampMatCode - Description: Coded description of the matrix of th - Controlled Terminology: MTX - Reporting is: Mandatory - SSD2 Format: CompoundType - In SSD1 it was: EFSAProdCode, prodProdMeth, pro - Operational notes:

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- Chemical monitoring data to be reported in XML can be easily prepared in the Excel tools;
- All the SSD2 mandatory fields and most relevant optional fields are already included in the tools;
- The reporting hierarchies of all the SSD2 controlled terminology catalogues are embedded in the reporting tools;

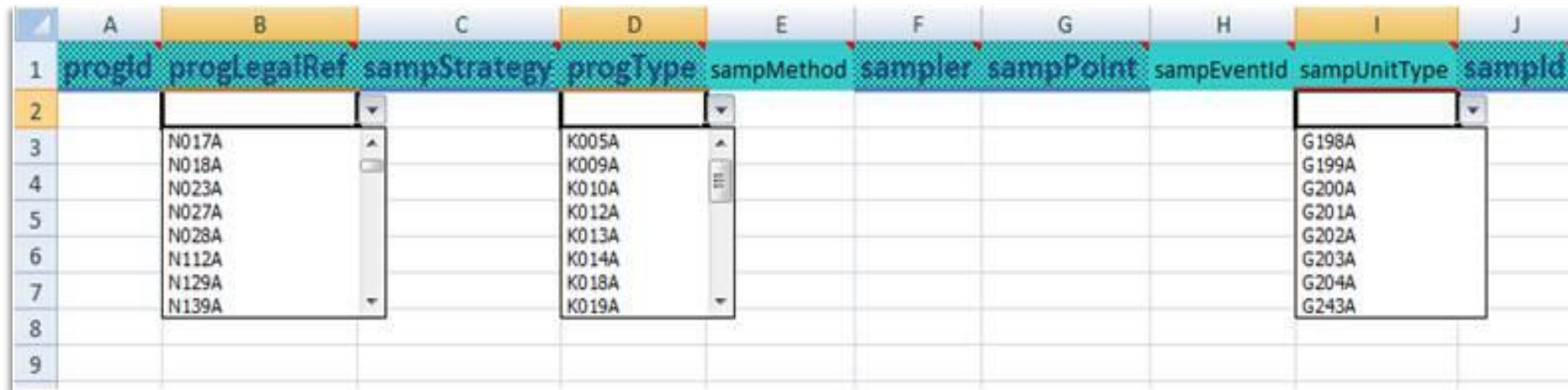
EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- Descriptive comments are present on each header of the Excel tools spreadsheets;

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	progId	progLegalRef	sampStrategy	- SSD2 Code: B.03 - SSD2 Element: sampStrategy - Description: Sampling strategy - Controlled Terminology: SAMPSTR - Reporting is: Mandatory - SSD2 Format: xs:string (5) - In SSD1 it was: progSampStrategy - Operational notes: Classifies the samples according to the methodology applied for the sample selection. It makes possible to analyse the random samples separately from the targeted or suspect samples(objective, selective or suspect). e.g. random sampling has to be reported for the EU-coordinated pesticides monitoring programme. Specific examples in the guidance.				sampEventId	sampUnitType	- SSD2 Code: C.02 - SSD2 Element: sampUnitType - Description: Sampling unit type - Controlled Terminology: SAMPUNTYP - Reporting is: Optional - SSD2 Format: xs:string (5) - In SSD1 it was: - Operational notes: Defines the type of sampling unit taken at the sampling event and indicates if the sample contains material from multiple individuals or lots (a batch, an animal, a flock, a herd)				sampD	sampInfo.Orig
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- The valid reportable SSD2 codes can be selected from validation drop-down lists that are present in every cell related to SSD2 variables with a controlled terminology;



The screenshot shows an Excel spreadsheet with columns A through J. The first row (row 1) contains the following headers: A: progId, B: progLegalRef, C: sampStrategy, D: progType, E: sampMethod, F: sampler, G: sampPoint, H: sampEventId, I: sampUnitType, J: sampId. The second row (row 2) has three drop-down lists open in columns B, D, and I. The drop-down list in column B shows the following options: N017A, N018A, N023A, N027A, N028A, N112A, N129A, N139A. The drop-down list in column D shows the following options: K005A, K009A, K010A, K012A, K013A, K014A, K018A, K019A. The drop-down list in column I shows the following options: G198A, G199A, G200A, G201A, G202A, G203A, G204A, G243A.

Each drop-down list is performing the double role of guided input for the user and validation rule.

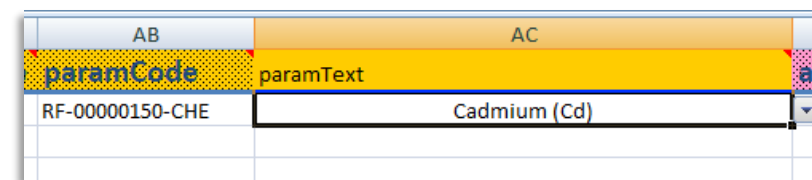
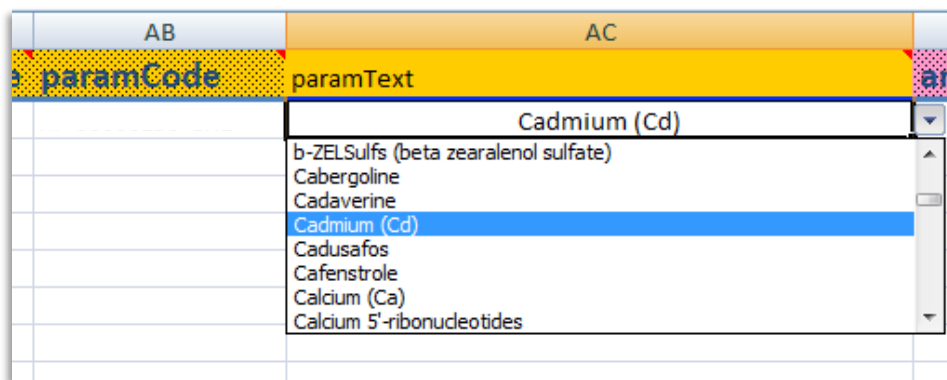
EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- Each cell can also be populated entering the codes manually or by copying-pasting codes from another worksheet, with the possibility to run the catalogues validation afterwards;

→ This option is still in use (and will be used in future Calls) for a significant part of the Portuguese data.

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- The “*paramCode*” can be retrieved by selecting the names* of substances from a specific dropdown list;



* The option to select the analysed chemicals (“*paramCode*”) by name and not by code was a request of the users.

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- An exception was introduced in the Excel Tools using the “*paramText*” field as a space to list chemical names that, once selected, are converted in codes in the “*paramCode*” cell;
- This also works in the opposite way - selecting a “*paramCode*”, the tool automatically returns the name in the “*paramText*” column;

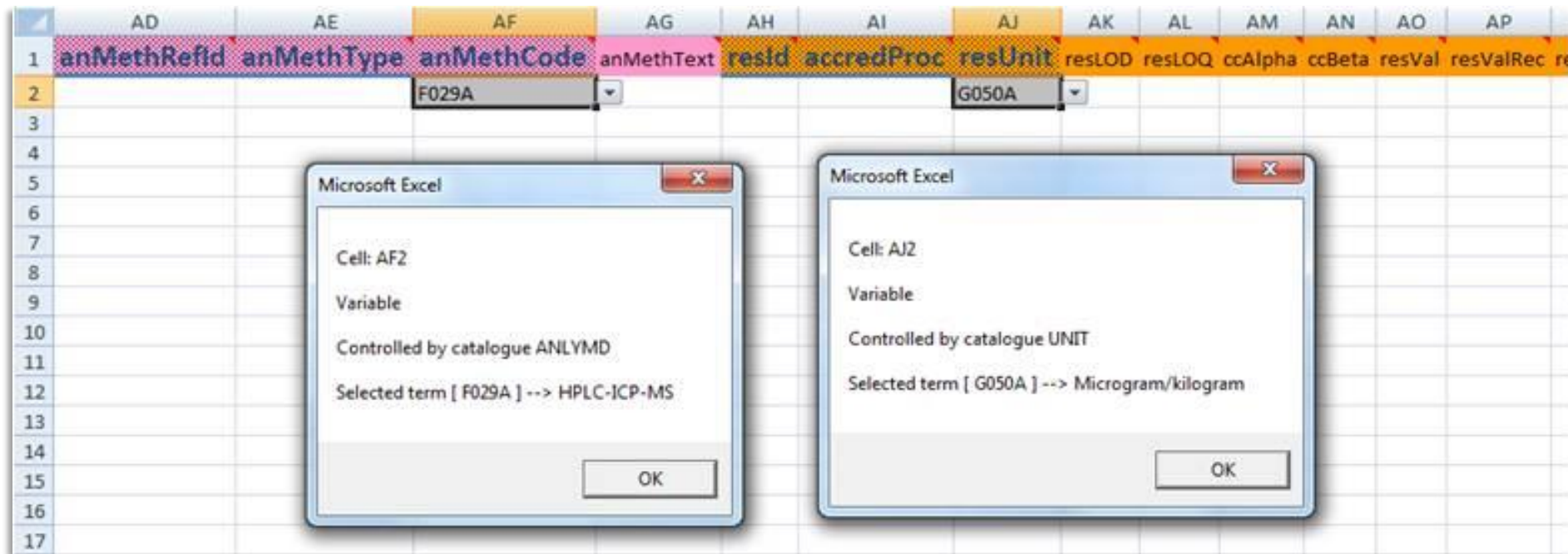
AB	AC
paramCode	paramText
RF-00000174-CHE	
RF-00000173-TOX	
RF-00000173-VET	
RF-00000174-ADD	
RF-00000174-CHE	
RF-00000174-ORG	
RF-00000174-TOX	
RF-00000174-VET	
RF-00000175-ADD	



AB	AC
paramCode	paramText
RF-00000174-CHE	Lead (Pb)

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- The Excel Tools include a helpful functionality for decoding codes already entered in the cells. A double click on the cells with controlled terminology returns the corresponding catalogue description of the code in that cell;



EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- It provides a **validation check functionality*** together with other useful controls, that parses the entire content of the worksheets re-applying the validation criteria in all the cells where the rules were overwritten;

Violation of the controlled terminologies in the SAMPLES worksheet are listed below
(double click on each position to jump directly to the related cells)

Samples	Meth_MULTI	Meth_Dithiocarbamates	Meth_Mepiquat	Meth_Fosetyl
C3	H4	D2		
E3	A7	E2		
S3	G9			
B4	A16			
S4				
B5				

Violation of the controlled terminologies in the SAMPLES worksheet are listed below
(double click on each position to jump directly to the related cells)

SampleStrategy	DrugType	SampleMethod	SampleType	SamplePoint
ST10A	K005A	N009A	CX02A	E100A
ST20A	K005A	N009A	CX02A	E100A
ST20A	K005A	N009A	CX02A	E100A
ST20A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST10A	K005A	N009A	CX02A	E100A
ST20A	K005A	N009A	CX02A	E100A

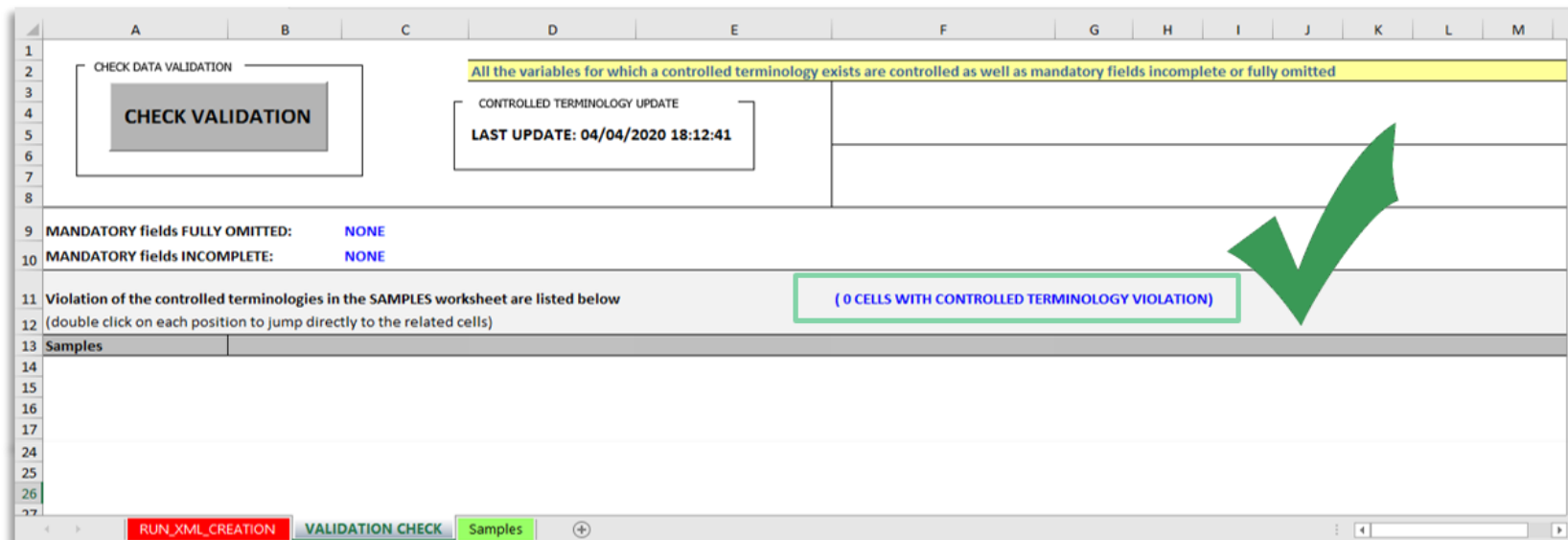
Incomplete mandatory fields
Listed here

MANDATORY fields FULLY OMITTED [n.1 in Samples]: sampY, [n.4 in Meth_MULTI]: anMethRefid, anMethType, anMethCode, anMethText, [n.3 in Meth_Dithiocarbamates]: anMethRefid, anMethType, anMethCode, anMethText, [n.2 in Meth_Mepiquat]: anMethRefid, anMethType, anMethCode, anMethText, [n.1 in Meth_Fosetyl]: anMethRefid, anMethType, anMethCode, anMethText

MANDATORY fields INCOMPLETE: [n.4 in Samples]: sampler, sampPoint, sampY, sampMatCode, [n.4 in Meth_MULTI]: anMethRefid, anMethType, anMethCode, anMethText, [n.3 in Meth_Dithiocarbamates]: anMethRefid, anMethType, anMethCode, anMethText, [n.2 in Meth_Mepiquat]: anMethRefid, anMethType, anMethCode, anMethText, [n.1 in Meth_Fosetyl]: anMethRefid, anMethType, anMethCode, anMethText

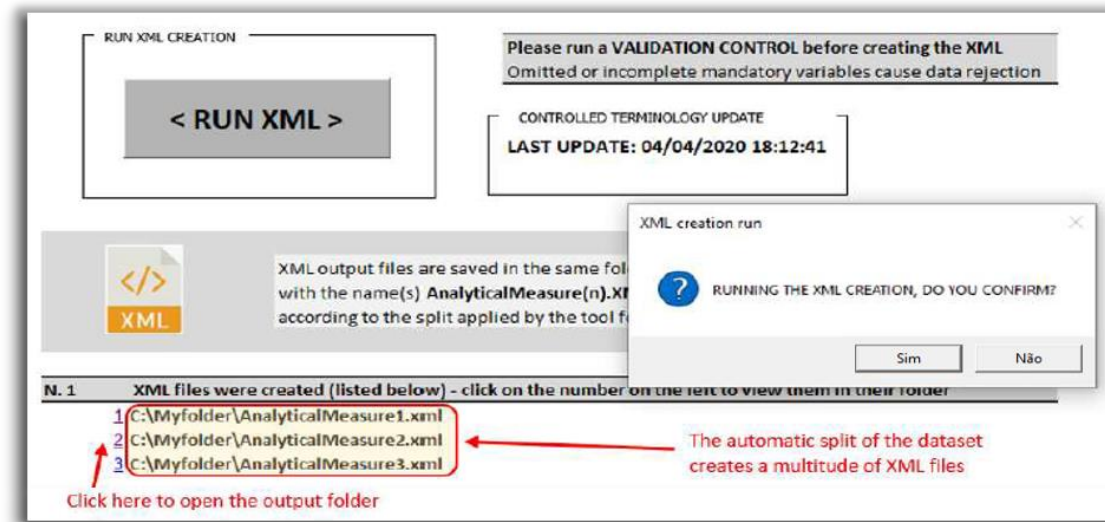
EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- It is strongly recommended to run the validation check procedure frequently in order to have the controlled terminology drop-down always updated and to identify possible mistakes during the data compilation, in particular before running the XML creation procedure;



EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- The last step to be performed with the reporting tools is the export of the data compiled in the XML files;



The tools automatically split the dataset inserted in the workbooks and creates XML files of suitable size (max 20.000 records per file) for the upload to the DCF.

EXCEL REPORTING TOOLS - MAIN FUNCTIONALITIES

- Example of subset of data elements from a XML file generated with the SSD2 Excel Tool FLAT:

```
<?xml version="1.0" encoding="UTF-8"?>
<dataset xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <result>
    <progId>
      <![CDATA[PTxPT]]>
    </progId>
    <progLegalRef>N247A</progLegalRef>
    <sampStrategy>ST20A</sampStrategy>
    <progType>K005A</progType>
    <sampler>CX02A</sampler>
    <sampPoint>E300A</sampPoint>
    <sampUnitType>G199A</sampUnitType>
    <sampId>
      <![CDATA[2021010002]]>
    </sampId>
    <sampCountry>PT</sampCountry>
    <sampY>2020</sampY>
    <sampM>9</sampM>
    <sampD>30</sampD>
    <sampMatType>S000A</sampMatType>
    <sampMatCode>A02GM#source=A0BXM$part=A0EME</sampMatCode>
    <sampMatText>
      <![CDATA[Aquicultura - Moluscos (PNCR)#Músculo]]>
    </sampMatText>
    <origCountry>PT</origCountry>
    <analysisY>2020</analysisY>
    <labId>
      <![CDATA[IPMA]]>
    </labId>
    <labAccred>L001A</labAccred>
    <labCountry>PT</labCountry>
    <paramType>P005A</paramType>
    <paramCode>RF-00000150-CHE</paramCode>
    <paramText>Cadmium (Cd)</paramText>
    <anMethRefId>
      <![CDATA[EN 14084:2003]]>
    </anMethRefId>
    <anMethType>AT08A</anMethType>
    <anMethCode>F052A</anMethCode>
    <anMethText>AAS</anMethText>
  </result>
</dataset>
```

QUESTIONS & ANSWERS



The Excel reporting tools allow Member States to create files in line with the SSD2 (Standard Sample Description 2) data model and to generate ...

- XML files?
- XHTML files?
- HTML files?

...with the correct structure for harmonised data transmission to EFSA via the DCF.

QUESTIONS & ANSWERS



The Excel reporting tools allow Member States to create files in line with the SSD2 (Standard Sample Description 2) data model and to generate ...

- ✓ - XML files?
- XHTML files?
- HTML files?

...with the correct structure for harmonised data transmission to EFSA via the DCF.

QUESTIONS & ANSWERS



The Excel reporting tools contain:

- the data elements of the SSD2 data model that are mandatory and dependent mandatory?
- the data elements of the SSD2 data model that are mandatory, dependent mandatory and relevant for chemical monitoring data collection?
- all the data elements of the SSD2 data model?

QUESTIONS & ANSWERS



The Excel reporting tools contain:

- the data elements of the SSD2 data model that are mandatory and dependent mandatory?
- ✓ - the data elements of the SSD2 data model that are mandatory, dependent mandatory and relevant for chemical monitoring data collection?
- all the data elements of the SSD2 data model?

QUESTIONS & ANSWERS



In both Excel reporting tools (Excel Tool FLAT & Excel Tool WITH METHODS) the valid reportable SSD2 codes can be selected from validation drop-down lists that are present:

- in every cell related to SSD2 variables that are mandatory?
- in every cell related to SSD2 variables that are mandatory and dependent mandatory?
- in every cell related to SSD2 variables with a controlled terminology?

QUESTIONS & ANSWERS



In both Excel reporting tools (Excel Tool FLAT & Excel Tool WITH METHODS) the valid reportable SSD2 codes can be selected from validation drop-down lists that are present:

- in every cell related to SSD2 variables that are mandatory?
- in every cell related to SSD2 variables that are mandatory and dependent mandatory?



- in every cell related to SSD2 variables with a controlled terminology?

**Thank you for your
attention!**

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