

**BIOLOGICAL HEALTH RISKS
QUALITY OF LABORATORIES**

**CLINICAL BIOLOGY COMMISSION
COMMITTEE OF EXPERTS**

**EXTERNAL QUALITY ASSESSMENT
IN CLINICAL BIOLOGY**

ANNUAL REPORT

Trace elements

2022

Sciensano/Trace elements/13

Biological health risks
Quality of laboratories
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A copy of the report was sent to the experts on: 20/01/2023

Authorisation to release report: By **Bernard China, scheme coordinator**, on 10/03/2023.

A handwritten signature in black ink, appearing to read 'Bernard China', is written over a light blue horizontal line. The signature is cursive and somewhat stylized.

All the reports are also available on our webpage:

https://www.wiv-isp.be/QML/activities/external_quality/rapports/_nl/rapports_annee.htm

https://www.wiv-isp.be/QML/activities/external_quality/rapports/_fr/rapports_annee.htm

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STATISTICS

Participants at these surveys were originated from Belgium, France, Italy, Spain, the Netherlands and Australia. In order to evaluate the Belgian labs, the results of all the participants were considered and the following statistics were performed.

The target value is the median per method (M_m) if $N_m \geq 6$ or the global median (M_g) when $N_m < 6$ and $N_g \geq 6$. If $N_g < 6$, no evaluation was possible.

For a specific element and a particular sample, M_m is the median of the participants using the same method and M_g is the median of all the participants. In the same way, N_m is the number of encoded results per method and N_g is the number of encoded.

The spread of the data was estimated using a robust standard deviation (SD): $SD = (P_{75} - P_{25})/1.349$

For a specific element and a particular sample, SD_m is the standard deviation of the encoded results per method and SD_g is the standard deviation of all encoded results.

In individual reports, your Z score was calculated per element and per sample.

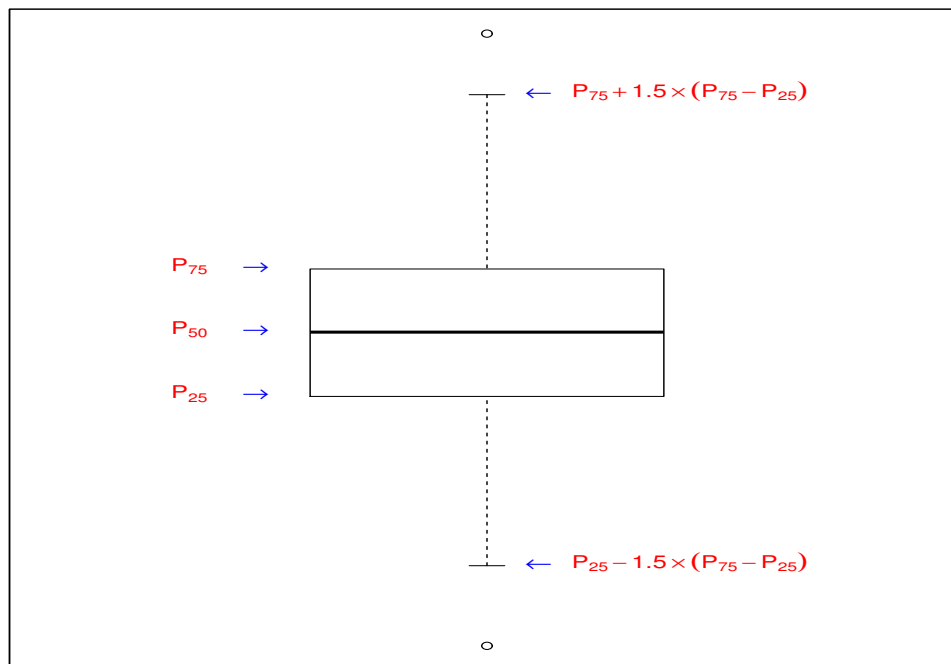
$$Z = \begin{cases} (R - M_m)/SD_m & \text{when } N_m \geq 6 \\ (R - M_g)/SD_g & \text{when } N_m < 6 \text{ and } N_g \geq 6 \end{cases}$$

Where, R is your result.

When $|Z| > 3$ the result was considered as an outlier.

GRAPHICAL REPRESENTATION

For a specific element and a particular sample, The box plot includes all the results for all the labs (Belgian and non Belgian). The results of the Belgian labs are indicated by method (using a colour code) on the graph.



- a rectangle that ranges from the percentile 25 (P_{25}) to the percentile 75 (P_{75})
- a central line that shows the median of the results (P_{50})
- a lower limit corresponding to $P_{25} - 1.5 * (P_{75} - P_{25})$
- an upper limit corresponding to $P_{75} + 1.5 * (P_{75} - P_{25})$

ABBREVIATIONS

We use the following abbreviations throughout the report:

- ETAAS: Electro thermal Atomic Absorption Spectrometry
- FAAS : Flame Atomic Absorption Spectrometry
- GA: All results for all methods
- ICP-MS : Inductively Coupled Plasma Mass Spectrometry
- MA: All results per method
- N: Number of results for all participants from all countries
- NBE : Number of results from Belgian labs eventually followed by a number in brackets referring to the number of labs evaluated using global statistics
- NC: Number of citations ($|Z| > 3$)
- NE: Number of not evaluated results
- NG: Number of good answers ($|Z| \leq 3$)
- SD: Standard deviation

THE SAMPLES AND THE DATA PROCESSING

24 samples per matrix (Serum, whole blood, urine) were sent to the lab under dry ice.

The samples were purchased by SKML, Winterwijk, Netherlands.

Two samples must be analyzed per month from April 2022 to March 2023. The results were encoded via the web page: www.trace-elements.eu.

The laboratories obtained from this site an individual report, a monthly report and an annual report.

Sciensano produced individual annual reports and this global annual report.

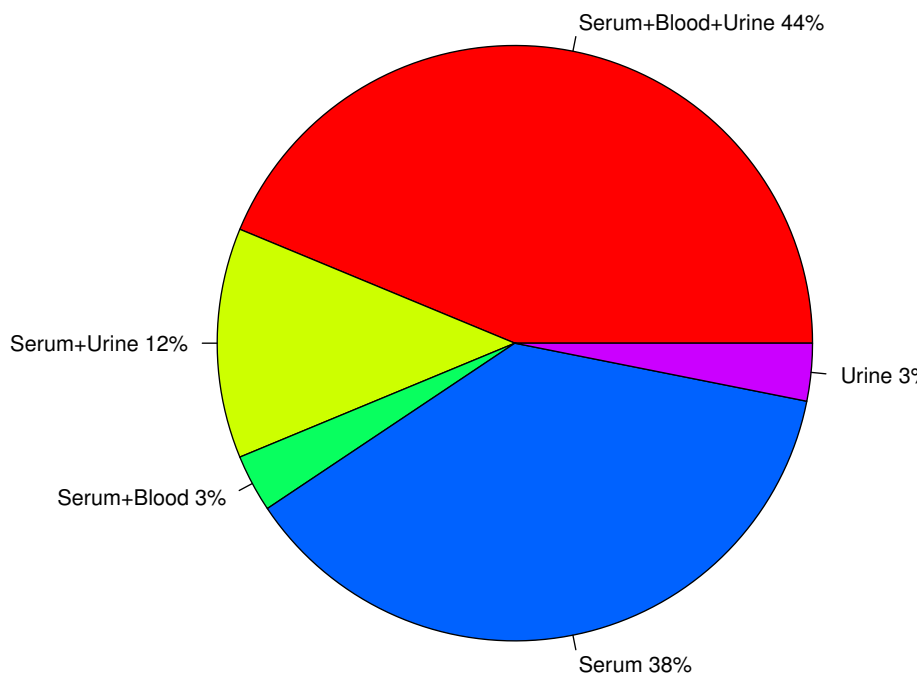
Pay attention that in this report, the sample numbers 2021.1 to 2021.24 correspond to the samples from January (1 and 2) to December (23 and 24) which is different from the SKML identification.

Month	SKML ID (on tubes)	ID in the present report
January	2021.19	2022.01
January	2021.20	2022.02
February	2021.21	2022.03
February	2021.22	2022.04
March	2021.23	2022.05
March	2021.24	2022.06
April	2022.01	2022.07
April	2022.02	2022.08
May	2022.03	2022.09
May	2022.04	2022.10
June	2022.05	2022.11
June	2022.06	2022.12
July	2022.07	2022.13
July	2022.08	2022.14
August	2022.09	2022.15
August	2022.10	2022.16
September	2022.11	2022.17
September	2022.12	2022.18
October	2022.13	2022.19
October	2022.14	2022.20
November	2022.15	2022.21
November	2022.16	2022.22
December	2022.17	2022.23
December	2022.18	2022.24

PARTICIPATION

- 169 participants from 6 countries, 32 of which are belgian, participated to the EQA
- 14 belgian laboratories for serum, blood and urine
- 4 belgian laboratories for serum and urine
- 1 belgian laboratory for serum and blood
- 12 belgian laboratories for serum alone
- 1 belgian laboratory for urine alone

Repartition (%) of the belgian participants according to the matrix analysed



1 TRACE ELEMENTS IN URINE

1.1 PARTICIPATION

19 laboratories participated to the EQA for urine matrix.

Parameter	N labs	Recorded results	Expected number of results	percentage of
Al	4	76	96	79.2 %
As	6	130	144	90.3 %
Be	2	46	48	95.8 %
Cd	9	198	240	91.7 %
Co	8	175	216	91.1 %
Cr	8	175	216	91.1 %
Cu	11	213	288	80.7 %
Hg	5	110	120	91.7 %
I	6	142	144	98.6 %
Mg	7	154	192	91.7 %
Mn	8	175	216	91.1 %
Ni	8	172	216	89.6 %
Pb	9	200	240	92.6 %
Sb	4	94	96	97.9 %
Se	6	130	144	90.3 %
Tl	6	127	144	88.2 %
V	5	106	120	88.3 %
Zn	11	224	288	84.8 %
Total		2647	3168	83.55

1.2 GLOBAL RESULTS

STAT	Element	Total number of results	Number of evaluated results	Number of Z citations	% citations
MA	Al	76	76	2	2.6
MA	As	130	130	2	1.5
MA	Be	46	46	2	4.3
MA	Cd	198	150	6	4
MA+GA	Cd	198	198 (+48)	24 (+18)	12.1
MA	Co	175	151	13	8.6
MA+GA	Co	175	175 (+24)	29 (+16)	16.6
MA	Cr	175	153	7	4.6
MA+GA	Cr	175	175 (+22)	16 (+9)	9.1
MA	Cu	213	205	20	9.8
MA+GA	Cu	213	213 (+8)	28 (+8)	13.2
MA	Hg	110	93	7	7.5
MA+GA	Hg	110	110 (+17)	7	6.4
MA	I	142	118	1	0.8
MA+GA	I	142	142 (+24)	17 (+16)	12
MA	Mg	154	148	9	6.1
MA+GA	Mg	154	154 (+6)	9	5.8
MA	Mn	175	151	4	2.6
MA+GA	Mn	175	175 (+24)	15 (+11)	8.6
MA	Ni	172	150	17	11.3
MA+GA	Ni	172	172 (+22)	27 (+10)	15.7
MA	Pb	200	182	13	7.1
MA+GA	Pb	200	200 (+18)	25 (+12)	12.5
MA	Sb	94	94	15	16
MA	Se	130	130	18	13.8
MA	Tl	127	127	9	7.1
MA	V	106	106	8	7.5
MA	Zn	224	224	23	10.3

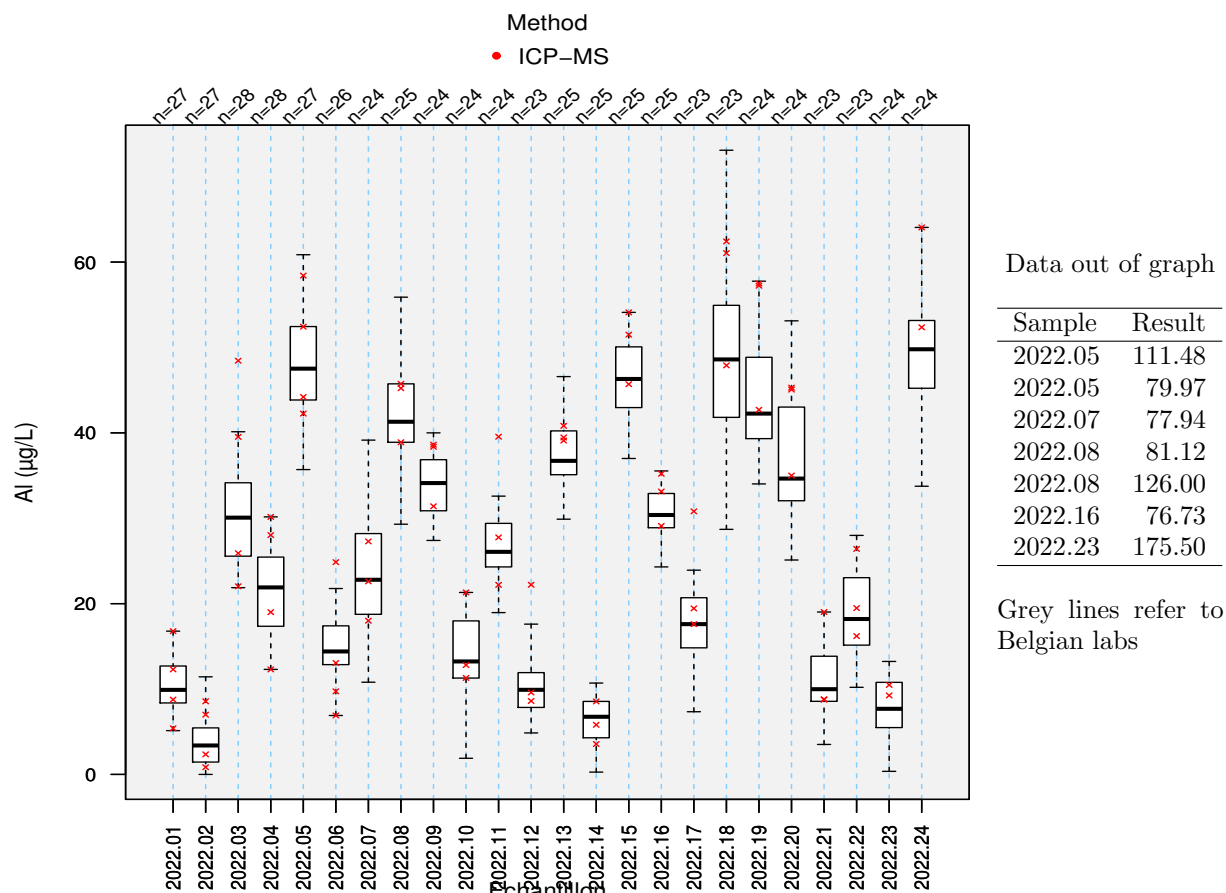
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STAT	Element	Total number of results	Number of evaluated results	Number of Z citations	% citations
Total	MA+GA	2647	2647	276	10.4
	MA	2647	2434	176	7.2

1.3 RESULTS PER ELEMENT

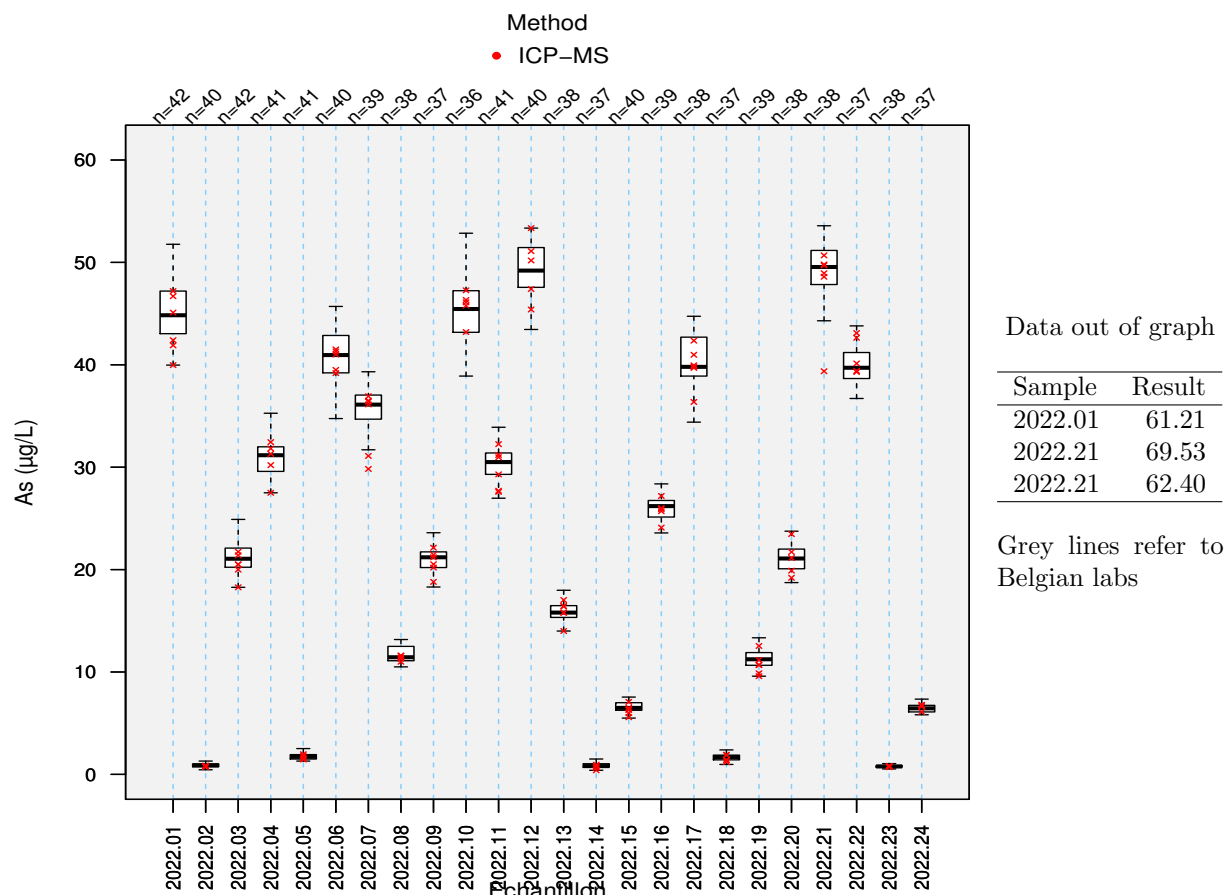
1.3.1 Al

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	9.99	3.25	25	4	4	0	0
2022.02	ICP-MS	3.38	3.51	25	4	4	0	0
2022.03	ICP-MS	30.07	6.52	26	4	4	0	0
2022.04	ICP-MS	21.46	5.87	26	4	4	0	0
2022.05	ICP-MS	46.72	6.65	25	4	4	0	0
2022.06	ICP-MS	14.54	3.91	24	4	4	0	0
2022.07	ICP-MS	22.76	7.44	22	3	3	0	0
2022.08	ICP-MS	39.56	5.19	23	3	3	0	0
2022.09	ICP-MS	34.12	3.04	22	3	3	0	0
2022.10	ICP-MS	13.35	4.93	22	3	3	0	0
2022.11	ICP-MS	25.87	4.07	22	3	2	1	0
2022.12	ICP-MS	9.99	2.82	21	3	2	1	0
2022.13	ICP-MS	36.37	3.57	23	3	3	0	0
2022.14	ICP-MS	5.89	2.98	23	3	3	0	0
2022.15	ICP-MS	46.53	5.42	23	3	3	0	0
2022.16	ICP-MS	30.51	2.92	23	3	3	0	0
2022.17	ICP-MS	17.66	4.4	21	3	3	0	0
2022.18	ICP-MS	48.6	11.59	21	3	3	0	0
2022.19	ICP-MS	42.41	6.82	22	3	3	0	0
2022.20	ICP-MS	35.32	7.61	22	3	3	0	0
2022.21	ICP-MS	9.98	4.91	21	3	3	0	0
2022.22	ICP-MS	18.2	5.36	21	3	3	0	0
2022.23	ICP-MS	7.69	4.15	22	2	2	0	0
2022.24	ICP-MS	50.5	6.2	22	2	2	0	0



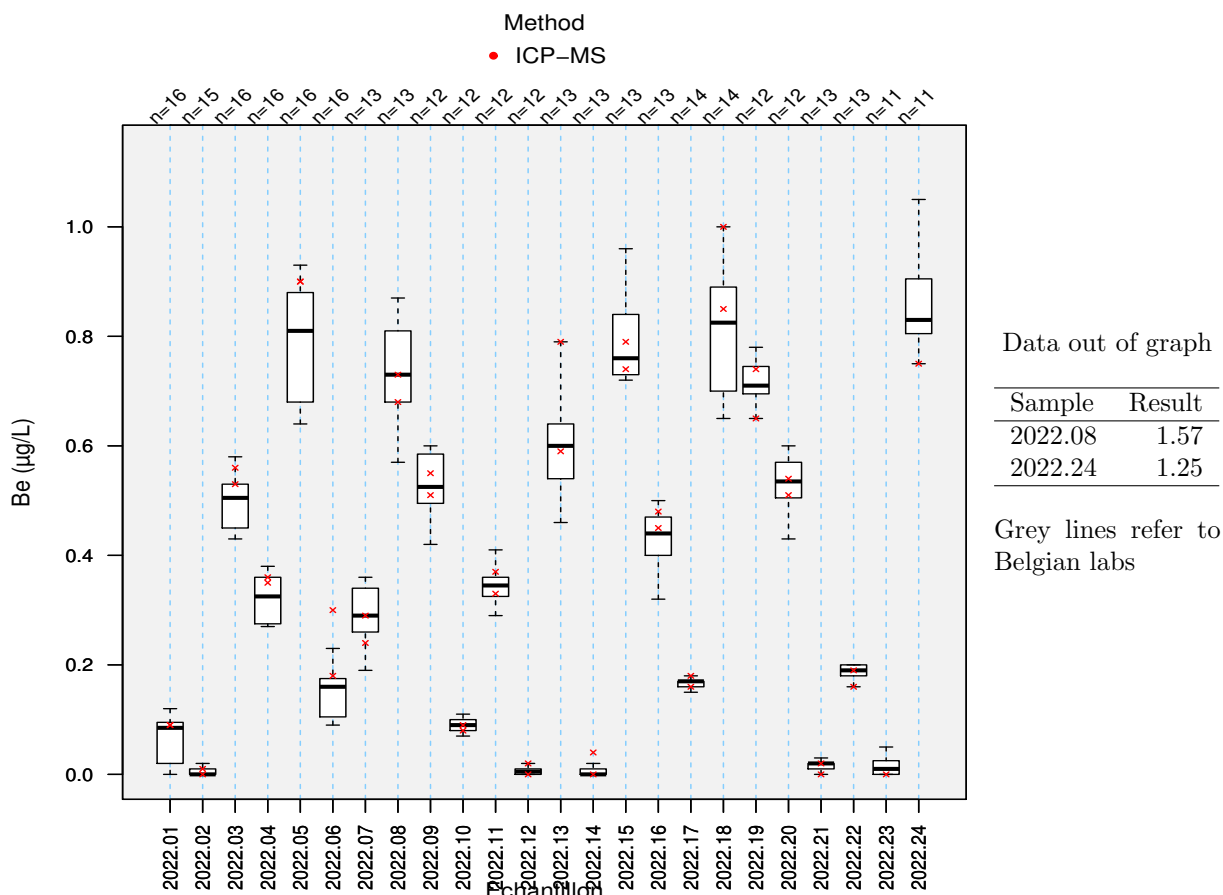
1.3.2 As

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	44.99	2.99	40	6	6	0	0
2022.02	ICP-MS	0.88	0.19	38	5	5	0	0
2022.03	ICP-MS	21.06	1.44	40	6	6	0	0
2022.04	ICP-MS	31.22	1.79	39	5	5	0	0
2022.05	ICP-MS	1.72	0.33	40	6	6	0	0
2022.06	ICP-MS	41	2.68	39	5	5	0	0
2022.07	ICP-MS	36.11	1.7	37	6	5	1	0
2022.08	ICP-MS	11.43	0.81	36	5	5	0	0
2022.09	ICP-MS	21.2	1.17	35	6	6	0	0
2022.10	ICP-MS	45.45	2.87	34	5	5	0	0
2022.11	ICP-MS	30.57	1.64	39	6	6	0	0
2022.12	ICP-MS	49.4	2.65	38	5	5	0	0
2022.13	ICP-MS	15.79	0.86	36	6	6	0	0
2022.14	ICP-MS	0.81	0.22	35	5	5	0	0
2022.15	ICP-MS	6.46	0.46	38	6	6	0	0
2022.16	ICP-MS	26.17	1.39	37	5	5	0	0
2022.17	ICP-MS	39.88	2.82	36	6	6	0	0
2022.18	ICP-MS	1.7	0.3	35	5	5	0	0
2022.19	ICP-MS	11.24	0.86	37	6	6	0	0
2022.20	ICP-MS	21.09	1.22	36	5	5	0	0
2022.21	ICP-MS	49.55	2.05	36	6	5	1	0
2022.22	ICP-MS	39.71	2.03	35	5	5	0	0
2022.23	ICP-MS	0.78	0.09	36	5	5	0	0
2022.24	ICP-MS	6.45	0.47	35	4	4	0	0



1.3.3 Be

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	0.08	0.05	16	2	2	0	0
2022.02	ICP-MS	0	0.01	15	2	2	0	0
2022.03	ICP-MS	0.5	0.05	16	2	2	0	0
2022.04	ICP-MS	0.32	0.06	16	2	2	0	0
2022.05	ICP-MS	0.81	0.13	16	2	2	0	0
2022.06	ICP-MS	0.16	0.04	16	2	1	1	0
2022.07	ICP-MS	0.29	0.06	13	2	2	0	0
2022.08	ICP-MS	0.73	0.1	13	2	2	0	0
2022.09	ICP-MS	0.52	0.06	12	2	2	0	0
2022.10	ICP-MS	0.09	0.01	12	2	2	0	0
2022.11	ICP-MS	0.34	0.02	12	2	2	0	0
2022.12	ICP-MS	0	0.01	12	2	2	0	0
2022.13	ICP-MS	0.6	0.07	13	2	2	0	0
2022.14	ICP-MS	0	0.01	13	2	1	1	0
2022.15	ICP-MS	0.76	0.08	13	2	2	0	0
2022.16	ICP-MS	0.44	0.05	13	2	2	0	0
2022.17	ICP-MS	0.17	0.01	14	2	2	0	0
2022.18	ICP-MS	0.82	0.12	14	2	2	0	0
2022.19	ICP-MS	0.71	0.03	12	2	2	0	0
2022.20	ICP-MS	0.54	0.04	12	2	2	0	0
2022.21	ICP-MS	0.02	0.01	13	2	2	0	0
2022.22	ICP-MS	0.19	0.01	13	2	2	0	0
2022.23	ICP-MS	0.01	0.02	11	1	1	0	0
2022.24	ICP-MS	0.83	0.07	11	1	1	0	0

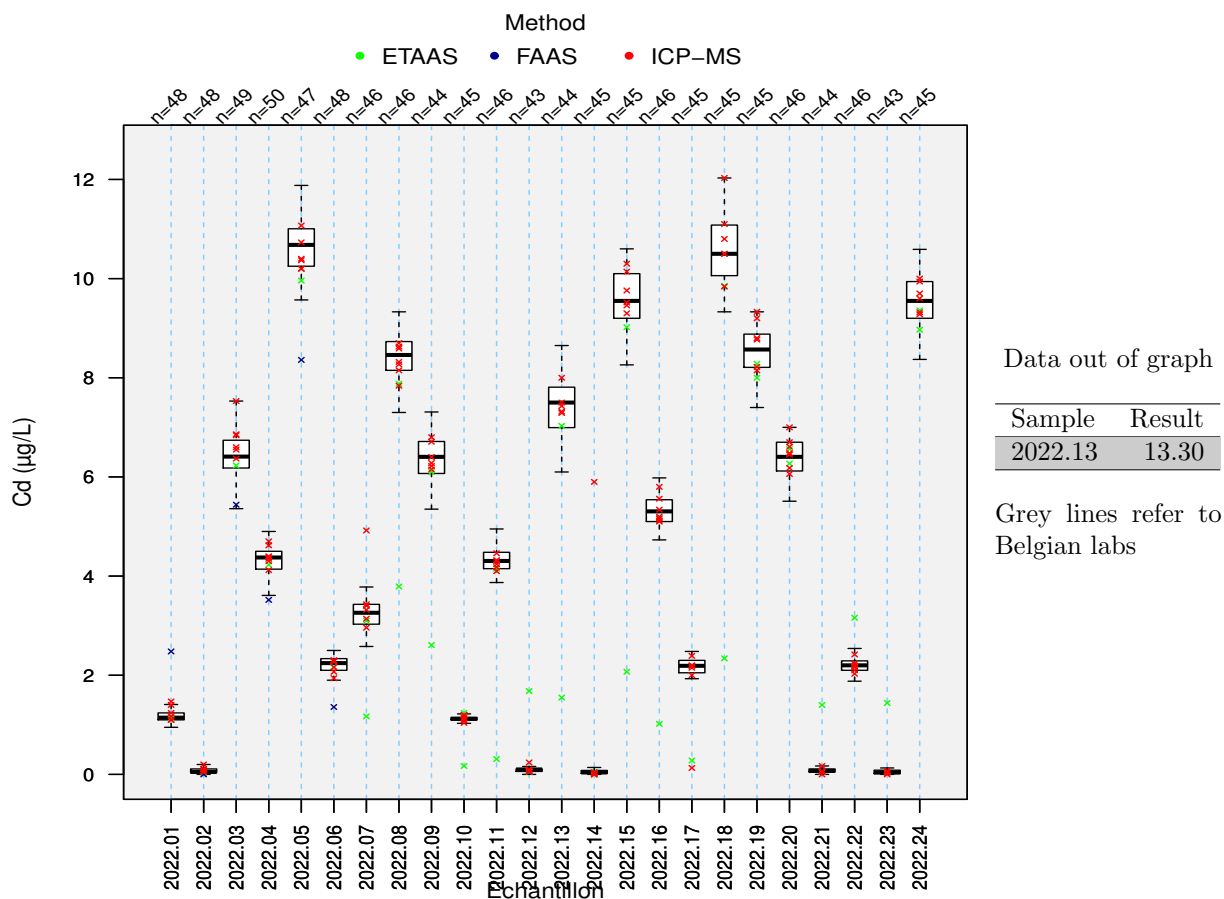


1.3.4 Cd

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	1.13	0.15	3	1	0	0	1
2022.01	FAAS	2.48	0	1	1	0	0	1
2022.01	ICP-MS	1.15	0.1	44	6	5	1	0
2022.01	Global	1.15	0.1	48	8	6	2	0
2022.02	ETAAS	0.02	0.01	3	1	0	0	1
2022.02	FAAS	0	0	1	1	0	0	1
2022.02	ICP-MS	0.06	0.05	44	7	7	0	0
2022.02	Global	0.05	0.05	48	9	9	0	0
2022.03	ETAAS	6.41	0.21	3	1	0	0	1
2022.03	FAAS	5.44	0	1	1	0	0	1
2022.03	ICP-MS	6.41	0.42	45	6	6	0	0
2022.03	Global	6.41	0.42	49	8	8	0	0
2022.04	ETAAS	4.27	0.35	3	1	0	0	1
2022.04	FAAS	3.52	0	1	1	0	0	1
2022.04	ICP-MS	4.38	0.26	46	7	7	0	0
2022.04	Global	4.38	0.26	50	9	8	1	0
2022.05	ETAAS	9.77	0.14	2	1	0	0	1
2022.05	FAAS	8.36	0	1	1	0	0	1
2022.05	ICP-MS	10.7	0.52	44	6	6	0	0
2022.05	Global	10.68	0.56	47	8	7	1	0
2022.06	ETAAS	2.16	0.01	2	1	0	0	1
2022.06	FAAS	1.36	0	1	1	0	0	1
2022.06	ICP-MS	2.25	0.18	45	7	7	0	0
2022.06	Global	2.25	0.17	48	9	8	1	0
2022.07	ETAAS	3.29	1.67	4	2	0	0	2
2022.07	ICP-MS	3.26	0.27	42	6	5	1	0
2022.07	Global	3.26	0.28	46	8	6	2	0
2022.08	ETAAS	8.27	1.4	4	2	0	0	2
2022.08	ICP-MS	8.46	0.4	42	7	7	0	0
2022.08	Global	8.46	0.42	46	9	8	1	0
2022.09	ETAAS	6.27	0.93	4	2	0	0	2
2022.09	ICP-MS	6.41	0.5	40	6	6	0	0
2022.09	Global	6.41	0.48	44	8	7	1	0
2022.10	ETAAS	1.18	0.27	4	2	0	0	2
2022.10	ICP-MS	1.12	0.04	41	7	7	0	0
2022.10	Global	1.12	0.04	45	9	8	1	0
2022.11	ETAAS	4.35	1.08	4	2	0	0	2
2022.11	ICP-MS	4.3	0.23	42	6	6	0	0
2022.11	Global	4.3	0.24	46	8	7	1	0
2022.12	ETAAS	0.08	0.34	4	2	0	0	2
2022.12	ICP-MS	0.1	0.04	39	6	5	1	0
2022.12	Global	0.1	0.04	43	8	6	2	0
2022.13	ETAAS	7.29	1.52	4	2	0	0	2
2022.13	ICP-MS	7.5	0.52	40	6	5	1	0
2022.13	Global	7.5	0.57	44	8	6	2	0
2022.14	ETAAS	0.02	0.04	4	2	0	0	2
2022.14	ICP-MS	0.04	0.06	41	7	6	1	0
2022.14	Global	0.04	0.04	45	9	8	1	0
2022.15	ETAAS	9.02	1.39	4	2	0	0	2
2022.15	ICP-MS	9.65	0.67	41	6	6	0	0
2022.15	Global	9.55	0.67	45	8	7	1	0
2022.16	ETAAS	5.21	0.92	4	2	0	0	2
2022.16	ICP-MS	5.34	0.32	42	7	7	0	0
2022.16	Global	5.3	0.32	46	9	8	1	0
2022.17	ETAAS	2.16	0.37	4	2	0	0	2
2022.17	ICP-MS	2.19	0.19	41	6	5	1	0
2022.17	Global	2.19	0.19	45	8	6	2	0
2022.18	ETAAS	9.96	1.68	4	2	0	0	2
2022.18	ICP-MS	10.5	0.64	41	6	6	0	0
2022.18	Global	10.5	0.76	45	8	7	1	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.19	ETAAS	8.25	0.18	4	2	0	0	2
2022.19	ICP-MS	8.71	0.51	41	6	6	0	0
2022.19	Global	8.57	0.5	45	8	8	0	0
2022.20	ETAAS	6.41	0.28	4	2	0	0	2
2022.20	ICP-MS	6.41	0.42	42	7	7	0	0
2022.20	Global	6.41	0.42	46	9	9	0	0
2022.21	ETAAS	0.05	0.26	4	2	0	0	2
2022.21	ICP-MS	0.07	0.04	40	5	5	0	0
2022.21	Global	0.07	0.04	44	7	6	1	0
2022.22	ETAAS	2.29	0.23	4	2	0	0	2
2022.22	ICP-MS	2.19	0.17	42	7	7	0	0
2022.22	Global	2.2	0.14	46	9	8	1	0
2022.23	ETAAS	0.07	0.29	4	2	0	0	2
2022.23	ICP-MS	0.04	0.04	39	4	4	0	0
2022.23	Global	0.04	0.05	43	6	5	1	0
2022.24	ETAAS	9.4	0.13	4	2	0	0	2
2022.24	ICP-MS	9.6	0.56	41	6	6	0	0
2022.24	Global	9.55	0.55	45	8	8	0	0

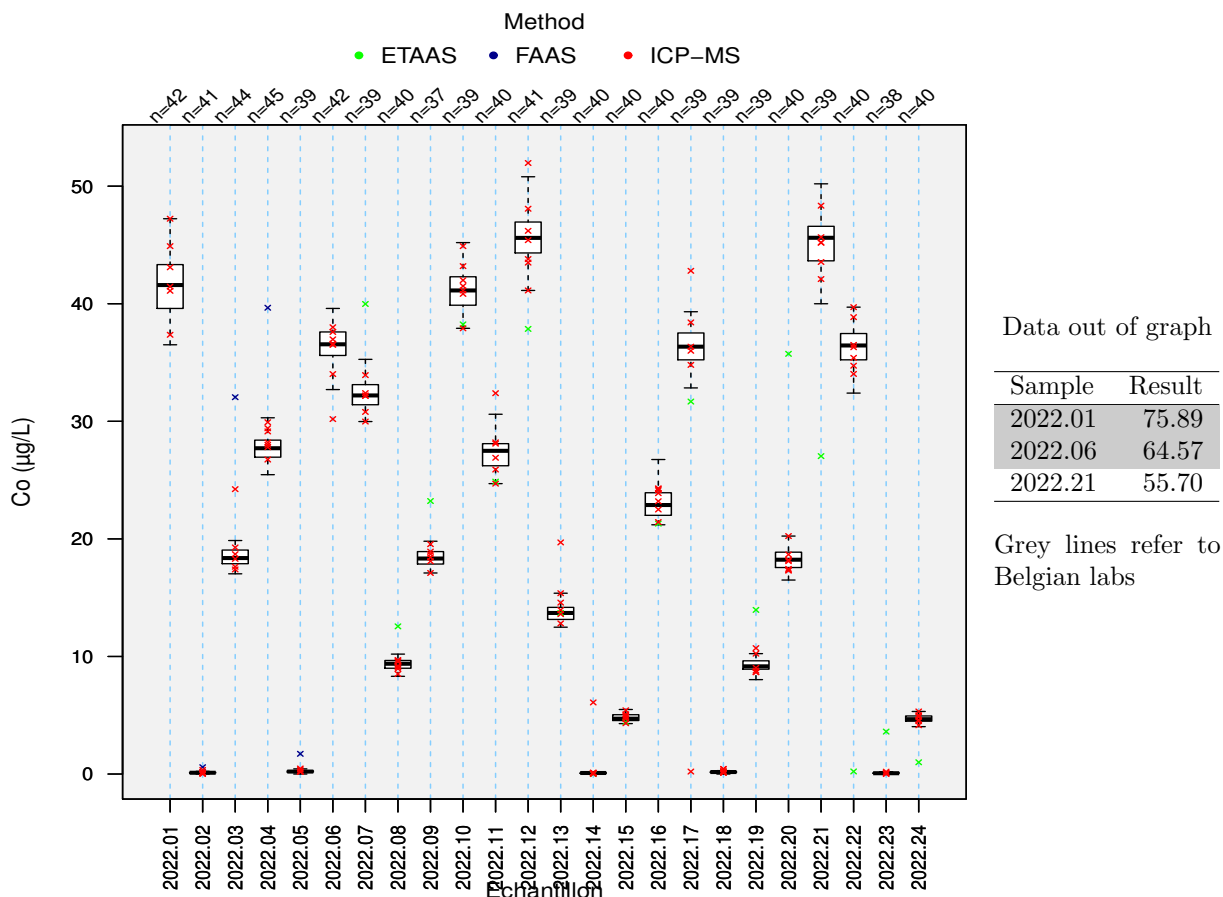


1.3.5 Co

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	FAAS	75.89	0	1	1	0	0	1
2022.01	ICP-MS	41.59	2.67	40	6	6	0	0
2022.01	Global	41.59	2.65	42	7	6	1	0
2022.02	FAAS	0.58	0	1	1	0	0	1
2022.02	ICP-MS	0.11	0.04	39	7	6	1	0
2022.02	Global	0.11	0.04	41	8	6	2	0
2022.03	FAAS	32.05	0	1	1	0	0	1
2022.03	ICP-MS	18.37	0.81	42	6	5	1	0
2022.03	Global	18.37	0.84	44	7	5	2	0
2022.04	FAAS	39.66	0	1	1	0	0	1
2022.04	ICP-MS	27.7	1.14	43	7	7	0	0
2022.04	Global	27.71	1.07	45	8	7	1	0
2022.05	FAAS	1.72	0	1	1	0	0	1
2022.05	ICP-MS	0.2	0.08	38	5	4	1	0
2022.05	Global	0.21	0.09	39	6	5	1	0
2022.06	FAAS	64.57	0	1	1	0	0	1
2022.06	ICP-MS	36.5	1.43	41	7	6	1	0
2022.06	Global	36.55	1.46	42	8	6	2	0
2022.07	ETAAS	35.49	3.33	2	1	0	0	1
2022.07	ICP-MS	32.2	1.13	37	6	6	0	0
2022.07	Global	32.2	1.27	39	7	6	1	0
2022.08	ETAAS	11.29	0.94	2	1	0	0	1
2022.08	ICP-MS	9.34	0.45	38	7	7	0	0
2022.08	Global	9.38	0.46	40	8	7	1	0
2022.09	ETAAS	20.8	1.79	2	1	0	0	1
2022.09	ICP-MS	18.32	0.74	35	6	6	0	0
2022.09	Global	18.33	0.79	37	7	6	1	0
2022.10	ETAAS	38.8	0.42	2	1	0	0	1
2022.10	ICP-MS	41.3	1.79	37	7	7	0	0
2022.10	Global	41.13	1.79	39	8	8	0	0
2022.11	ETAAS	26.34	1.09	2	1	0	0	1
2022.11	ICP-MS	27.49	1.38	38	6	5	1	0
2022.11	Global	27.49	1.39	40	7	6	1	0
2022.12	ETAAS	41.44	2.65	2	1	0	0	1
2022.12	ICP-MS	45.97	2	39	7	7	0	0
2022.12	Global	45.6	1.95	41	8	6	2	0
2022.13	ETAAS	13.54	0.12	2	1	0	0	1
2022.13	ICP-MS	13.85	0.87	37	6	5	1	0
2022.13	Global	13.7	0.76	39	7	6	1	0
2022.14	ETAAS	0	0	2	1	0	0	1
2022.14	ICP-MS	0.09	0.04	38	7	6	1	0
2022.14	Global	0.09	0.05	40	8	7	1	0
2022.15	ETAAS	4.43	1.86	3	1	0	0	1
2022.15	ICP-MS	4.71	0.33	37	6	6	0	0
2022.15	Global	4.71	0.36	40	7	7	0	0
2022.16	ETAAS	21.3	2.02	3	1	0	0	1
2022.16	ICP-MS	22.9	1.29	37	7	7	0	0
2022.16	Global	22.88	1.39	40	8	8	0	0
2022.17	ETAAS	33.66	1.47	2	1	0	0	1
2022.17	ICP-MS	36.48	1.61	37	6	4	2	0
2022.17	Global	36.35	1.69	39	7	5	2	0
2022.18	ETAAS	0.08	0.06	2	1	0	0	1
2022.18	ICP-MS	0.18	0.07	37	6	4	2	0
2022.18	Global	0.17	0.06	39	7	5	2	0
2022.19	ETAAS	11.7	1.68	2	1	0	0	1
2022.19	ICP-MS	9.08	0.53	37	6	5	1	0
2022.19	Global	9.16	0.53	39	7	6	1	0
2022.20	ETAAS	27.07	6.43	2	1	0	0	1
2022.20	ICP-MS	18.21	0.98	38	7	7	0	0
2022.20	Global	18.23	0.92	40	8	7	1	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.21	ETAAS	36.33	6.88	2	1	0	0	1
2022.21	ICP-MS	45.65	2.13	37	6	6	0	0
2022.21	Global	45.61	2.18	39	7	6	1	0
2022.22	ETAAS	18.59	13.61	2	1	0	0	1
2022.22	ICP-MS	36.45	1.7	38	7	7	0	0
2022.22	Global	36.45	1.58	40	8	7	1	0
2022.23	ETAAS	1.8	1.34	2	1	0	0	1
2022.23	ICP-MS	0.07	0.04	36	4	3	1	0
2022.23	Global	0.07	0.04	38	5	3	2	0
2022.24	ETAAS	3.06	1.53	2	1	0	0	1
2022.24	ICP-MS	4.66	0.29	38	6	6	0	0
2022.24	Global	4.66	0.31	40	7	6	1	0

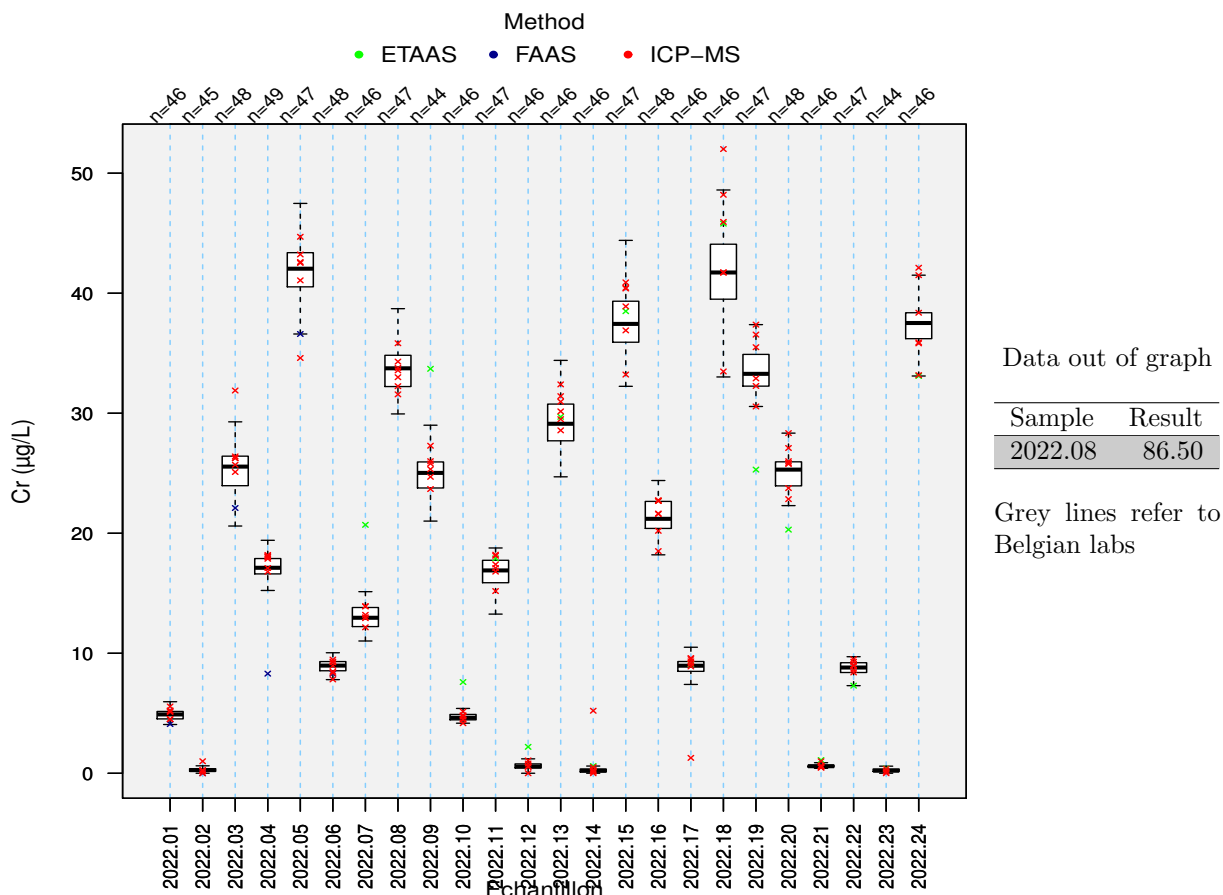


1.3.6 Cr

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	FAAS	4.1	0	1	1	0	0	1
2022.01	ICP-MS	4.91	0.45	41	6	6	0	0
2022.01	Global	4.9	0.45	46	7	7	0	0
2022.02	FAAS	0	0	1	1	0	0	1
2022.02	ICP-MS	0.28	0.22	40	7	6	1	0
2022.02	Global	0.26	0.16	45	8	7	1	0
2022.03	FAAS	22.1	0	1	1	0	0	1
2022.03	ICP-MS	25.64	1.9	43	6	5	1	0
2022.03	Global	25.55	1.8	48	7	6	1	0
2022.04	FAAS	8.3	0	1	1	0	0	1
2022.04	ICP-MS	17.25	1.04	44	7	7	0	0
2022.04	Global	17.12	0.95	49	8	7	1	0
2022.05	FAAS	36.6	0	1	1	0	0	1
2022.05	ICP-MS	42.03	1.99	42	6	5	1	0
2022.05	Global	42.04	2.11	47	7	6	1	0
2022.06	FAAS	8.3	0	1	1	0	0	1
2022.06	ICP-MS	8.98	0.47	43	7	7	0	0
2022.06	Global	8.97	0.56	48	8	8	0	0
2022.07	ETAAS	13.57	1.7	5	1	0	0	1
2022.07	ICP-MS	12.96	1.01	40	6	6	0	0
2022.07	Global	12.96	1.12	46	7	6	1	0
2022.08	ETAAS	34.24	3.65	5	1	0	0	1
2022.08	ICP-MS	33.74	1.93	41	7	7	0	0
2022.08	Global	33.74	1.93	47	8	7	1	0
2022.09	ETAAS	26.11	2.22	5	1	0	0	1
2022.09	ICP-MS	24.83	1.42	38	6	6	0	0
2022.09	Global	25.02	1.56	44	7	6	1	0
2022.10	ETAAS	4.84	1.1	5	1	0	0	1
2022.10	ICP-MS	4.61	0.28	40	7	7	0	0
2022.10	Global	4.62	0.33	46	8	7	1	0
2022.11	ETAAS	17.68	1.7	5	1	0	0	1
2022.11	ICP-MS	16.88	1.04	42	6	6	0	0
2022.11	Global	16.9	1.39	47	7	7	0	0
2022.12	ETAAS	0.52	0.39	5	1	0	0	1
2022.12	ICP-MS	0.57	0.23	41	6	6	0	0
2022.12	Global	0.56	0.25	46	7	6	1	0
2022.13	ETAAS	30.48	0.85	5	1	0	0	1
2022.13	ICP-MS	28.98	2.23	41	6	6	0	0
2022.13	Global	29.12	2.25	46	7	7	0	0
2022.14	ETAAS	0.3	0.15	4	1	0	0	1
2022.14	ICP-MS	0.2	0.17	42	7	6	1	0
2022.14	Global	0.22	0.17	46	8	7	1	0
2022.15	ETAAS	36.63	1.61	6	1	1	0	0
2022.15	ICP-MS	37.5	3.25	41	6	6	0	0
2022.16	ETAAS	20.86	1.85	6	1	1	0	0
2022.16	ICP-MS	21.32	1.68	42	7	7	0	0
2022.17	ETAAS	9.1	0.07	5	1	0	0	1
2022.17	ICP-MS	8.94	0.62	41	6	5	1	0
2022.17	Global	8.96	0.6	46	7	6	1	0
2022.18	ETAAS	43.39	2.58	5	1	0	0	1
2022.18	ICP-MS	41.7	3.07	41	6	5	1	0
2022.18	Global	41.73	3.26	46	7	6	1	0
2022.19	ETAAS	33.28	0.43	5	1	0	0	1
2022.19	ICP-MS	33.61	2.16	41	6	6	0	0
2022.19	Global	33.28	1.96	47	7	6	1	0
2022.20	ETAAS	24.22	1.02	5	1	0	0	1
2022.20	ICP-MS	25.39	1.41	42	7	7	0	0
2022.20	Global	25.3	1.46	48	8	7	1	0
2022.21	ETAAS	0.6	0.12	5	1	0	0	1
2022.21	ICP-MS	0.58	0.1	41	6	5	1	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.21	Global	0.58	0.11	46	7	5	2	0
2022.22	ETAAS	8.58	0.58	5	1	0	0	1
2022.22	ICP-MS	8.86	0.59	42	7	7	0	0
2022.22	Global	8.81	0.6	47	8	8	0	0
2022.23	ETAAS	0.21	0.07	5	1	0	0	1
2022.23	ICP-MS	0.22	0.15	39	4	4	0	0
2022.23	Global	0.22	0.15	44	5	5	0	0
2022.24	ETAAS	37.7	1.07	5	1	0	0	1
2022.24	ICP-MS	37.4	1.62	41	6	6	0	0
2022.24	Global	37.52	1.59	46	7	7	0	0



1.3.7 Cu

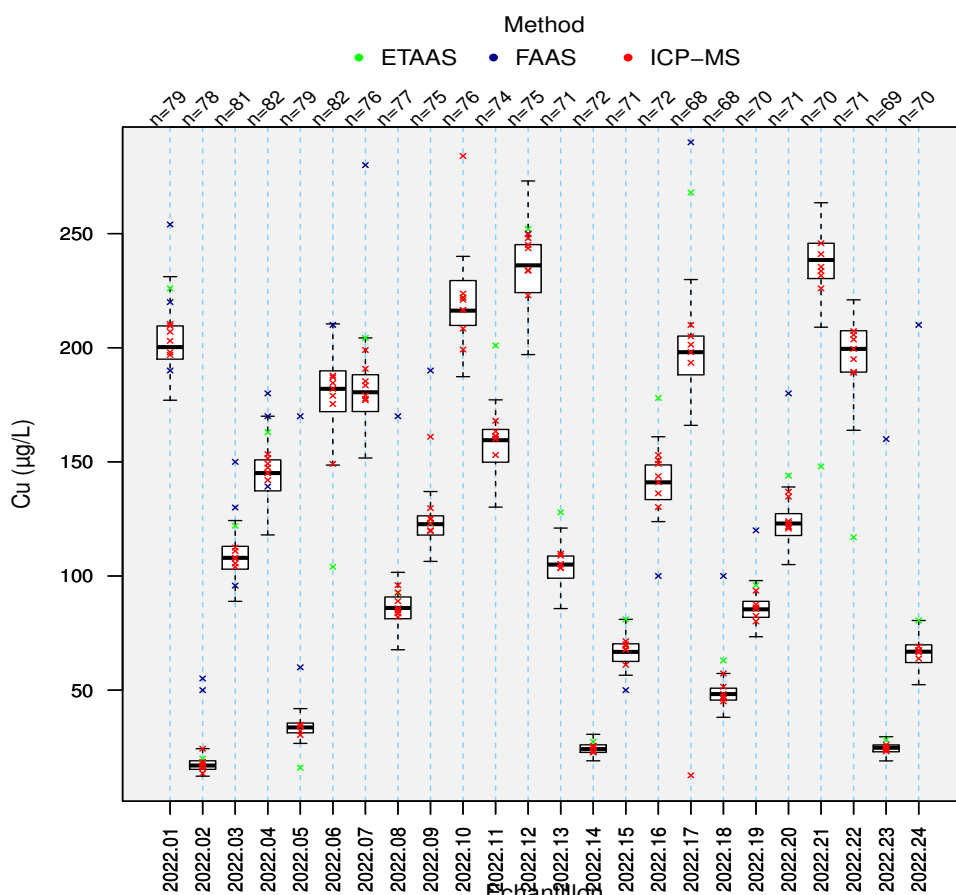
Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	203.84	17.42	13	1	1	0	0
2022.01	FAAS	209.69	28	10	3	3	0	0
2022.01	ICP-MS	199.39	8.47	53	6	6	0	0
2022.02	ETAAS	17.3	2.93	13	1	1	0	0
2022.02	FAAS	25.96	19.89	10	3	3	0	0
2022.02	ICP-MS	16.65	2.17	52	7	6	1	0
2022.03	ETAAS	102.8	14.93	13	1	1	0	0
2022.03	FAAS	116.3	30.92	10	3	3	0	0
2022.03	ICP-MS	107.95	4.05	54	6	6	0	0
2022.04	ETAAS	137.7	12.24	13	1	1	0	0
2022.04	FAAS	154.16	26.54	10	3	3	0	0
2022.04	ICP-MS	145.19	7.24	55	7	7	0	0
2022.05	ETAAS	32.39	4.68	11	1	0	1	0
2022.05	FAAS	47.95	25.59	8	2	1	1	0
2022.05	ICP-MS	33.08	2.65	56	6	6	0	0
2022.06	ETAAS	174.31	18.65	12	1	0	1	0
2022.06	FAAS	189.23	25.42	9	2	1	1	0
2022.06	ICP-MS	182	9.79	57	7	6	1	0
2022.07	ETAAS	178.3	14.05	12	1	1	0	0
2022.07	FAAS	175.58	25.67	6	1	0	1	0
2022.07	ICP-MS	181	10.37	55	7	7	0	0
2022.08	ETAAS	81.47	10.95	12	1	1	0	0
2022.08	FAAS	85.72	37.57	6	1	1	0	0
2022.08	ICP-MS	86.68	5.62	56	8	8	0	0
2022.09	ETAAS	122.46	4.2	12	1	1	0	0
2022.09	FAAS	126.05	19.92	6	1	0	1	0
2022.09	ICP-MS	122.85	5.62	54	7	6	1	0
2022.10	ETAAS	218.16	18.17	12	1	1	0	0
2022.10	FAAS	234.39	18.26	6	1	0	1	0
2022.10	ICP-MS	216	11.61	55	8	7	1	0
2022.11	ETAAS	154.22	12.64	12	1	0	1	0
2022.11	FAAS	165.72	10.24	6	1	1	0	0
2022.11	ICP-MS	160	9.26	53	6	6	0	0
2022.12	ETAAS	236.86	13.83	12	1	1	0	0
2022.12	FAAS	254.32	9.57	6	1	1	0	0
2022.12	ICP-MS	234.16	13.97	54	7	7	0	0
2022.13	ETAAS	104.1	10.16	13	1	1	0	0
2022.13	ICP-MS	105	3.66	50	6	6	0	0
2022.14	ETAAS	23.7	4.75	13	1	1	0	0
2022.14	ICP-MS	24.76	1.9	51	7	7	0	0
2022.15	ETAAS	63.6	4.6	13	1	0	1	0
2022.15	FAAS	64.77	9.27	6	1	1	0	0
2022.15	ICP-MS	67.06	5.65	50	6	6	0	0
2022.16	ETAAS	137	10.53	13	1	0	1	0
2022.16	FAAS	143.19	13.06	6	1	0	1	0
2022.16	ICP-MS	141.61	11.2	51	7	7	0	0
2022.17	ETAAS	198	22.16	13	1	0	1	0
2022.17	FAAS	218.68	22	4	1	0	0	1
2022.17	ICP-MS	196.56	13.04	48	6	5	1	0
2022.17	Global	198.05	12.49	68	8	5	3	0
2022.18	ETAAS	50.1	3.37	13	1	0	1	0
2022.18	FAAS	49.59	25.66	4	1	0	0	1
2022.18	ICP-MS	47.48	3.45	48	6	6	0	0
2022.18	Global	48.28	3.82	68	8	6	2	0
2022.19	ETAAS	85.41	14.07	12	1	1	0	0
2022.19	FAAS	89.54	6.75	5	1	0	0	1
2022.19	ICP-MS	85.4	4.12	50	6	6	0	0
2022.19	Global	85.4	5.09	70	8	7	1	0
2022.20	ETAAS	124.15	22.04	12	1	1	0	0
2022.20	FAAS	127.64	10.78	5	1	0	0	1

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.20	ICP-MS	123	6.42	51	7	7	0	0
2022.20	Global	123	7.1	71	9	8	1	0
2022.21	ETAAS	235.91	27.44	12	1	0	1	0
2022.21	FAAS	250	12.71	5	1	0	0	1
2022.21	ICP-MS	238.44	11.17	50	6	6	0	0
2022.21	Global	238.44	11.42	70	8	6	2	0
2022.22	ETAAS	200.78	15.88	12	1	0	1	0
2022.22	FAAS	203	17.89	5	1	0	0	1
2022.22	ICP-MS	199.39	13.18	51	7	7	0	0
2022.22	Global	199.5	13.42	71	9	7	2	0
2022.23	ETAAS	23.13	2.18	12	1	1	0	0
2022.23	FAAS	27.94	4.26	5	1	0	0	1
2022.23	ICP-MS	24.75	1.85	49	5	5	0	0
2022.23	Global	24.75	2.22	69	7	6	1	0
2022.24	ETAAS	63.48	6.3	12	1	1	0	0
2022.24	FAAS	74.3	9.3	5	1	0	0	1
2022.24	ICP-MS	66.84	4.17	50	6	6	0	0
2022.24	Global	66.84	5.64	70	8	7	1	0

Data out of graph

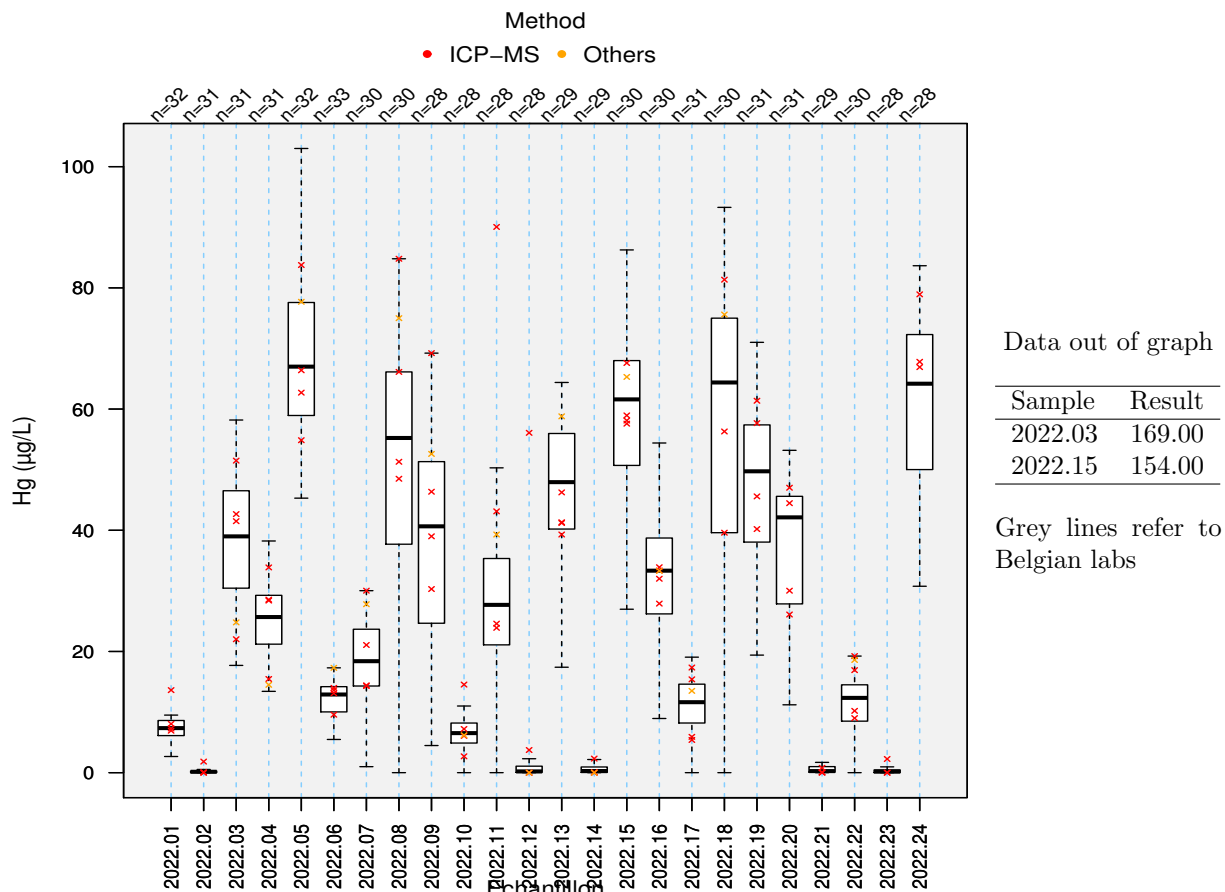
Sample	Result
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2022.02	0.00
2022.02	0.00
2022.02	0.00
2022.05	0.00
2022.06	360.00
2022.08	0.00
2022.09	0.00
2022.10	310.00
2022.13	0.00
2022.14	5.72
2022.14	9.40
2022.14	0.00
2022.15	10.80
2022.15	330.00
2022.15	0.00
2022.16	25763.86
2022.16	5.67
2022.17	290.00
2022.18	0.00
2022.19	0.00
2022.20	306.30
2022.20	0.00
2022.21	490.00
2022.21	0.00
2022.22	450.00
2022.22	0.00
2022.23	0.00
2022.24	0.00



Grey lines refer to Belgian labs

1.3.8 Hg

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	7.3	1.76	29	4	3	1	0
2022.02	ICP-MS	0.15	0.26	28	4	3	1	0
2022.03	ICP-MS	39.72	11	27	4	4	0	0
2022.03	Others	30.82	4.94	3	1	0	0	1
2022.03	Global	38.99	11.92	31	5	5	0	0
2022.04	ICP-MS	26.2	5.97	27	4	4	0	0
2022.04	Others	21.67	4.05	3	1	0	0	1
2022.04	Global	25.68	5.97	31	5	5	0	0
2022.05	ICP-MS	66.4	12.43	28	4	4	0	0
2022.05	Others	67.96	3.68	3	1	0	0	1
2022.05	Global	67	13.32	32	5	5	0	0
2022.06	ICP-MS	12.24	2.91	29	4	4	0	0
2022.06	Others	15.57	1.89	3	1	0	0	1
2022.06	Global	12.9	3.08	33	5	5	0	0
2022.07	ICP-MS	18.02	5.33	26	4	4	0	0
2022.07	Others	18.41	6.68	3	1	0	0	1
2022.07	Global	18.39	6.55	30	5	5	0	0
2022.08	ICP-MS	53.23	16.58	26	4	4	0	0
2022.08	Others	58.91	15.42	3	1	0	0	1
2022.08	Global	55.23	19.66	30	5	5	0	0
2022.09	ICP-MS	39.09	17.38	24	4	4	0	0
2022.09	Others	46.43	13.31	3	1	0	0	1
2022.09	Global	40.65	19.4	28	5	5	0	0
2022.10	ICP-MS	6.53	1.99	24	4	3	1	0
2022.10	Others	6.19	1.57	3	1	0	0	1
2022.10	Global	6.53	2.25	28	5	4	1	0
2022.11	ICP-MS	26.13	8.86	24	4	3	1	0
2022.11	Others	35.57	10.02	3	1	0	0	1
2022.11	Global	27.69	10.29	28	5	4	1	0
2022.12	ICP-MS	0.29	0.81	24	4	2	2	0
2022.12	Others	0.15	0.08	3	1	0	0	1
2022.12	Global	0.21	0.72	28	5	3	2	0
2022.13	ICP-MS	45.34	9.19	25	4	4	0	0
2022.13	Others	57.44	0.75	3	1	0	0	1
2022.13	Global	47.94	11.69	29	5	5	0	0
2022.14	ICP-MS	0.24	0.71	25	4	4	0	0
2022.14	Others	0.42	0.35	3	1	0	0	1
2022.14	Global	0.27	0.67	29	5	4	1	0
2022.15	ICP-MS	59.6	11.37	25	4	4	0	0
2022.15	Others	65.04	11.69	3	1	0	0	1
2022.15	Global	61.59	12.37	30	5	5	0	0
2022.16	ICP-MS	33.1	9.28	25	4	4	0	0
2022.16	Others	33.3	8.57	3	1	0	0	1
2022.16	Global	33.33	8.93	30	5	5	0	0
2022.17	ICP-MS	11.52	4.78	27	4	4	0	0
2022.17	Others	13.5	4.06	3	1	0	0	1
2022.17	Global	11.63	4.75	31	5	5	0	0
2022.18	ICP-MS	57.74	25.33	26	3	3	0	0
2022.18	Others	73.26	14.2	3	1	0	0	1
2022.18	Global	64.39	25.84	30	4	4	0	0
2022.19	ICP-MS	48.63	12.8	28	4	4	0	0
2022.20	ICP-MS	40.92	12.37	28	4	4	0	0
2022.21	ICP-MS	0.3	0.73	26	4	4	0	0
2022.22	ICP-MS	12.02	4.14	26	4	4	0	0
2022.22	Others	14.36	4.51	3	1	0	0	1
2022.22	Global	12.34	4.33	30	5	5	0	0
2022.23	ICP-MS	0.2	0.36	25	3	2	1	0
2022.24	ICP-MS	64.18	13.63	25	3	3	0	0

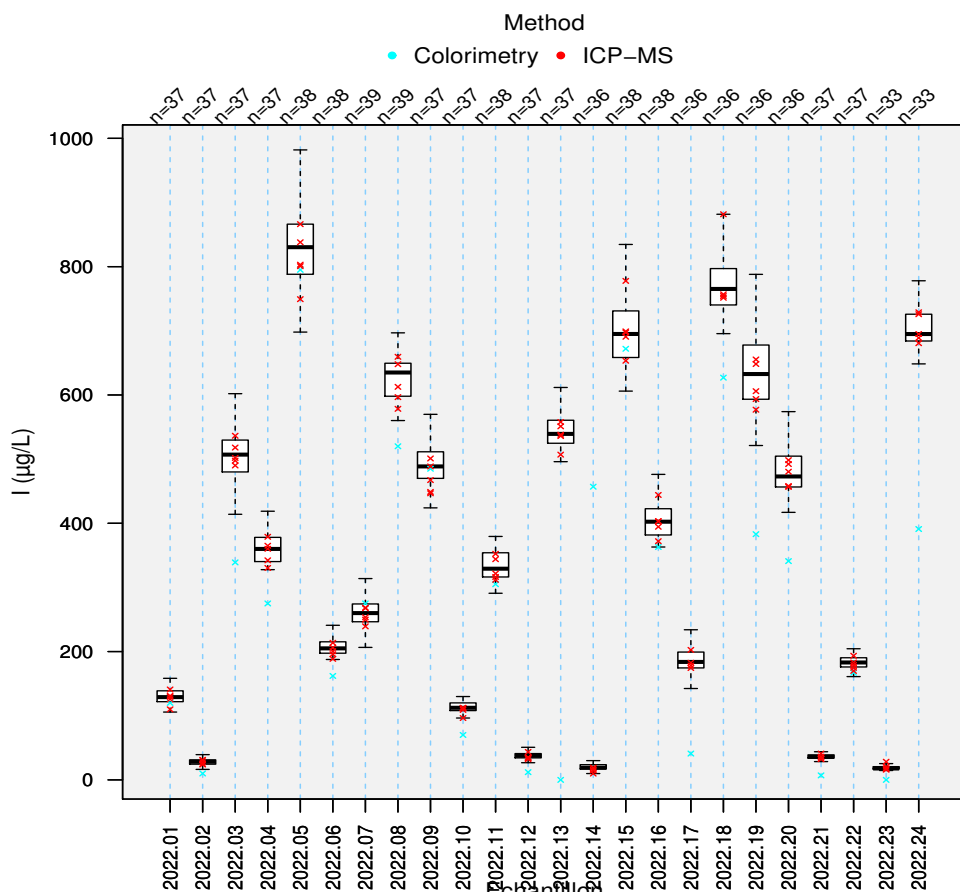


1.3.9 I

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	130	7.41	2	1	0	0	1
2022.01	ICP-MS	129.18	11.4	34	5	5	0	0
2022.01	Global	129	12.55	37	6	6	0	0
2022.02	Colorimetry	22.5	9.27	2	1	0	0	1
2022.02	ICP-MS	28.44	4.6	34	5	5	0	0
2022.02	Global	28.2	5.01	37	6	5	1	0
2022.03	Colorimetry	470.5	97.48	2	1	0	0	1
2022.03	ICP-MS	508	33.64	34	5	5	0	0
2022.03	Global	507	36.83	37	6	5	1	0
2022.04	Colorimetry	325.5	37.44	2	1	0	0	1
2022.04	ICP-MS	360.1	27.59	34	5	5	0	0
2022.04	Global	360	27.95	37	6	5	1	0
2022.05	Colorimetry	746.5	35.95	2	1	0	0	1
2022.05	ICP-MS	832.08	53.41	35	5	5	0	0
2022.05	Global	830.34	56.03	38	6	6	0	0
2022.06	Colorimetry	180.5	13.71	2	1	0	0	1
2022.06	ICP-MS	206	13.6	35	5	5	0	0
2022.06	Global	205	12.84	38	6	5	1	0
2022.07	Colorimetry	259.5	11.49	2	1	0	0	1
2022.07	ICP-MS	260.25	19.66	36	5	5	0	0
2022.07	Global	260	20.57	39	6	6	0	0
2022.08	Colorimetry	583	46.7	2	1	0	0	1
2022.08	ICP-MS	635.63	33.93	36	5	5	0	0
2022.08	Global	635	38.13	39	6	5	1	0
2022.09	Colorimetry	526	30.39	2	1	0	0	1
2022.09	ICP-MS	489.47	31.13	34	5	5	0	0
2022.09	Global	488.6	30.7	37	6	6	0	0
2022.10	Colorimetry	94.5	18.16	2	1	0	0	1
2022.10	ICP-MS	112.25	8.92	34	5	5	0	0
2022.10	Global	112.39	8.9	37	6	5	1	0
2022.11	Colorimetry	301	2.97	2	1	0	0	1
2022.11	ICP-MS	340.73	26.43	35	5	5	0	0
2022.11	Global	329.17	27.57	38	6	6	0	0
2022.12	Colorimetry	28	11.86	2	1	0	0	1
2022.12	ICP-MS	37.8	4.67	34	5	5	0	0
2022.12	Global	37.6	4.96	37	6	5	1	0
2022.13	Colorimetry	272	201.63	2	1	0	0	1
2022.13	ICP-MS	538.72	26.25	34	5	5	0	0
2022.13	Global	539.32	26.59	37	6	5	1	0
2022.14	Colorimetry	239.5	161.23	2	1	0	0	1
2022.14	ICP-MS	18.4	3.39	33	5	5	0	0
2022.14	Global	18.92	4.33	36	6	5	1	0
2022.15	Colorimetry	679	5.19	2	1	0	0	1
2022.15	ICP-MS	697	53.57	35	5	5	0	0
2022.15	Global	695.06	51.56	38	6	6	0	0
2022.16	Colorimetry	373.5	7.78	2	1	0	0	1
2022.16	ICP-MS	403.45	32.57	35	5	5	0	0
2022.16	Global	402.43	29.88	38	6	6	0	0
2022.17	Colorimetry	109	50.41	2	1	0	0	1
2022.17	ICP-MS	186	15.82	33	4	4	0	0
2022.17	Global	183.84	18.12	36	5	4	1	0
2022.18	Colorimetry	688	45.22	2	1	0	0	1
2022.18	ICP-MS	772	38.55	33	4	4	0	0
2022.18	Global	765.25	41.17	36	5	4	1	0
2022.19	Colorimetry	480	71.91	2	1	0	0	1
2022.19	ICP-MS	648.24	53.66	33	5	5	0	0
2022.19	Global	632.62	62.37	36	6	5	1	0
2022.20	Colorimetry	391.5	37.44	2	1	0	0	1
2022.20	ICP-MS	475	36.71	33	5	5	0	0
2022.20	Global	472.97	34.47	36	6	5	1	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.21	Colorimetry	28.5	15.94	2	1	0	0	1
2022.21	ICP-MS	35.83	3.6	34	5	5	0	0
2022.21	Global	35.75	3.72	37	6	5	1	0
2022.22	Colorimetry	181.5	10.75	2	1	0	0	1
2022.22	ICP-MS	184	8.98	34	5	5	0	0
2022.22	Global	183	10.64	37	6	6	0	0
2022.23	Colorimetry	4.5	3.34	2	1	0	0	1
2022.23	ICP-MS	18	2.78	30	5	4	1	0
2022.23	Global	17.75	2.76	33	6	4	2	0
2022.24	Colorimetry	539.5	110.08	2	1	0	0	1
2022.24	ICP-MS	699.6	31.9	30	5	5	0	0
2022.24	Global	694.98	30.94	33	6	5	1	0



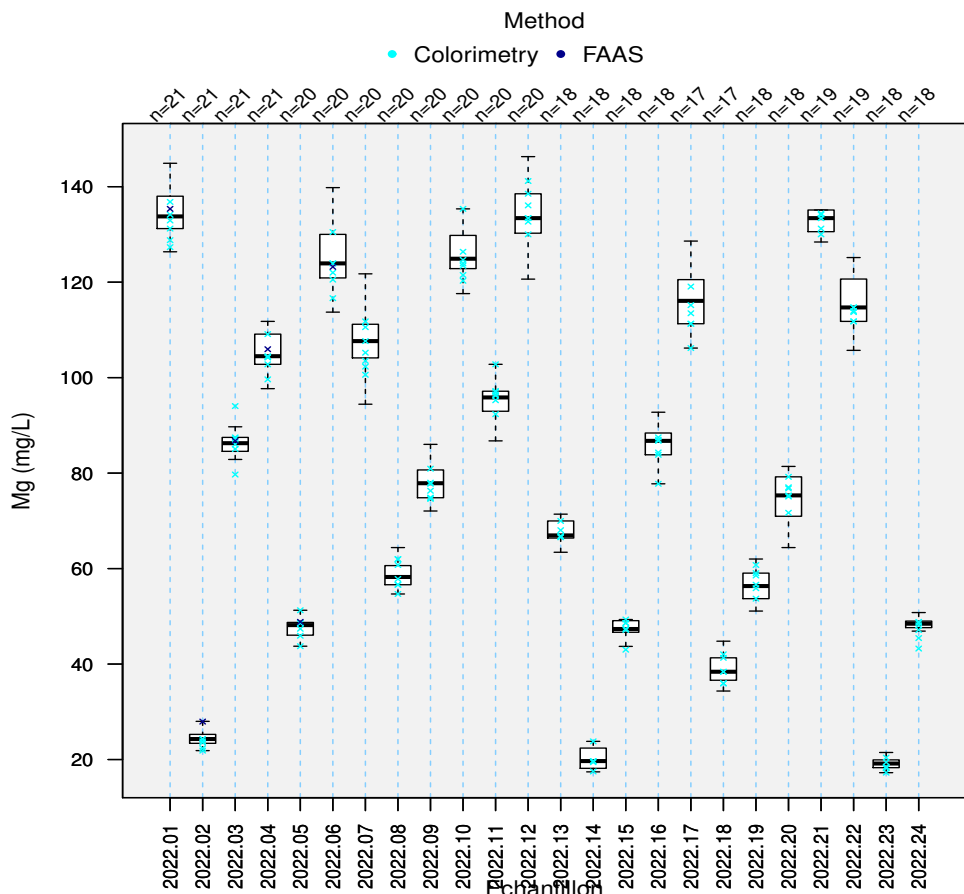
Data out of graph

Sample	Result
2022.02	0.00
2022.03	1904.50
2022.04	1458.35
2022.05	2289.30
2022.07	1798.48
2022.08	3427.58
2022.09	3091.24
2022.10	1005.40
2022.11	999.80
2022.13	0.00
2022.13	1858.37
2022.13	1381.37
2022.14	3308.94
2022.15	2190.18
2022.16	1271.80
2022.18	2174.64
2022.19	7100.58
2022.20	4261.18
2022.21	7.00
2022.21	0.00
2022.22	1869.00
2022.22	2840.83
2022.23	0.00
2022.23	0.00

Grey lines refer to Belgian labs

1.3.10 Mg

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	132.92	4.05	7	6	6	0	0
2022.01	FAAS	132.68	6.66	5	1	0	0	1
2022.01	Global	133.77	5.03	21	7	7	0	0
2022.02	Colorimetry	23.81	0.99	7	6	6	0	0
2022.02	FAAS	24.3	3.07	5	1	0	0	1
2022.02	Global	24.3	1.39	21	7	7	0	0
2022.03	Colorimetry	87	1.35	7	6	4	2	0
2022.03	FAAS	83.71	8.83	4	1	0	0	1
2022.03	Global	86.27	2.16	21	7	5	2	0
2022.04	Colorimetry	104.25	2.43	7	6	6	0	0
2022.04	FAAS	100.72	12.92	4	1	0	0	1
2022.04	Global	104.49	4.69	21	7	7	0	0
2022.05	Colorimetry	48.6	2.43	7	6	6	0	0
2022.05	FAAS	45.56	1.53	4	1	0	0	1
2022.05	Global	48.16	1.89	20	7	7	0	0
2022.06	Colorimetry	123.93	4.41	7	6	6	0	0
2022.06	FAAS	121.38	3.92	4	1	0	0	1
2022.06	Global	123.93	6.54	20	7	7	0	0
2022.07	Colorimetry	106.36	3.83	8	7	7	0	0
2022.08	Colorimetry	58.11	3.29	8	7	7	0	0
2022.09	Colorimetry	77.03	2.42	8	7	7	0	0
2022.10	Colorimetry	124.3	2.94	8	7	6	1	0
2022.11	Colorimetry	96.72	0.84	8	7	5	2	0
2022.12	Colorimetry	134.75	4.06	8	7	7	0	0
2022.13	Colorimetry	67.41	1.03	6	5	5	0	0
2022.14	Colorimetry	19.68	0.64	6	5	3	2	0
2022.15	Colorimetry	48.6	1.26	7	6	5	1	0
2022.16	Colorimetry	86.75	2.34	7	6	5	1	0
2022.17	Colorimetry	113.48	4.33	7	6	6	0	0
2022.18	Colorimetry	38.39	3.34	7	6	6	0	0
2022.19	Colorimetry	58.56	2.7	7	6	6	0	0
2022.20	Colorimetry	76.79	2.16	7	6	6	0	0
2022.21	Colorimetry	133.41	2.34	7	6	6	0	0
2022.22	Colorimetry	113.97	1.45	7	6	6	0	0
2022.23	Colorimetry	18.47	1.07	7	6	6	0	0
2022.24	Colorimetry	48.11	1.8	7	6	6	0	0



Data out of graph

Sample	Result
2022.01	165.00
2022.01	172.94
2022.10	165.77
2022.12	0.18
2022.16	177.39
2022.21	182.50
2022.22	160.80

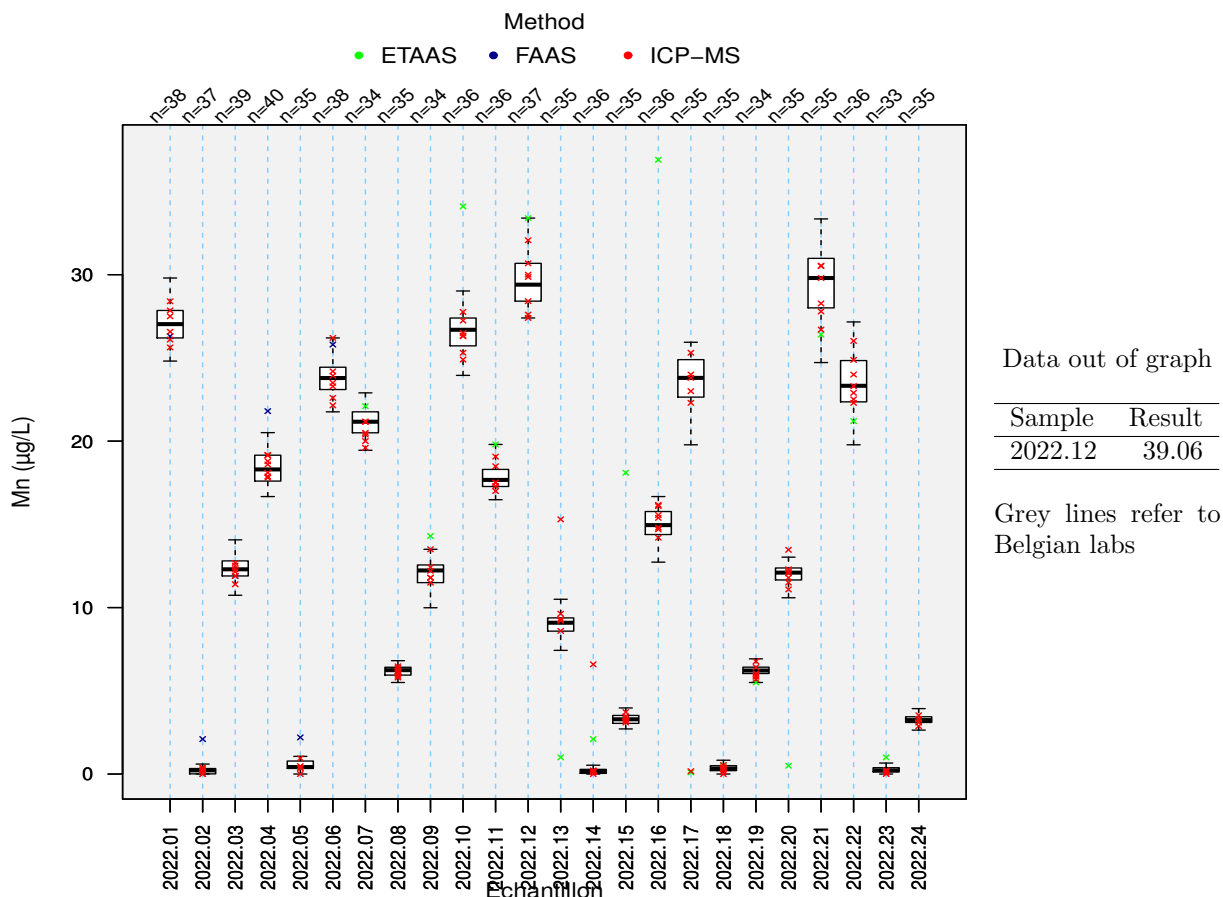
Grey lines refer to Belgian labs

1.3.11 Mn

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	FAAS	26.3	0	1	1	0	0	1
2022.01	ICP-MS	27.17	1.18	36	6	6	0	0
2022.01	Global	27.03	1.18	38	7	7	0	0
2022.02	FAAS	2.1	0	1	1	0	0	1
2022.02	ICP-MS	0.22	0.18	35	7	7	0	0
2022.02	Global	0.22	0.24	37	8	7	1	0
2022.03	FAAS	11.9	0	1	1	0	0	1
2022.03	ICP-MS	12.39	0.71	37	6	6	0	0
2022.03	Global	12.3	0.67	39	7	7	0	0
2022.04	FAAS	21.8	0	1	1	0	0	1
2022.04	ICP-MS	18.3	1.05	38	7	7	0	0
2022.04	Global	18.3	1.15	40	8	7	1	0
2022.05	FAAS	2.2	0	1	1	0	0	1
2022.05	ICP-MS	0.42	0.27	33	5	5	0	0
2022.05	Global	0.42	0.33	35	6	5	1	0
2022.06	FAAS	25.8	0	1	1	0	0	1
2022.06	ICP-MS	23.79	0.88	36	7	7	0	0
2022.06	Global	23.79	0.95	38	8	8	0	0
2022.07	ETAAS	17.95	3.08	2	1	0	0	1
2022.07	ICP-MS	21.16	0.9	32	6	6	0	0
2022.07	Global	21.16	0.92	34	7	7	0	0
2022.08	ETAAS	3.79	1.79	2	1	0	0	1
2022.08	ICP-MS	6.25	0.35	33	7	7	0	0
2022.08	Global	6.24	0.35	35	8	8	0	0
2022.09	ETAAS	9.02	3.91	2	1	0	0	1
2022.09	ICP-MS	12.23	0.76	32	6	6	0	0
2022.09	Global	12.23	0.78	34	7	7	0	0
2022.10	ETAAS	21.48	9.36	2	1	0	0	1
2022.10	ICP-MS	26.69	1.11	34	7	7	0	0
2022.10	Global	26.69	1.21	36	8	7	1	0
2022.11	ETAAS	16.08	2.76	2	1	0	0	1
2022.11	ICP-MS	17.67	0.73	34	6	6	0	0
2022.11	Global	17.67	0.75	36	7	7	0	0
2022.12	ETAAS	25.98	5.5	2	1	0	0	1
2022.12	ICP-MS	29.4	1.63	35	7	7	0	0
2022.12	Global	29.4	1.68	37	8	8	0	0
2022.13	ETAAS	1.57	0.42	2	1	0	0	1
2022.13	ICP-MS	9.15	0.59	33	6	5	1	0
2022.13	Global	9.09	0.59	35	7	5	2	0
2022.14	ETAAS	10.34	6.1	2	1	0	0	1
2022.14	ICP-MS	0.16	0.16	34	7	6	1	0
2022.14	Global	0.16	0.17	36	8	6	2	0
2022.15	ETAAS	9.29	6.53	2	1	0	0	1
2022.15	ICP-MS	3.29	0.33	33	6	6	0	0
2022.15	Global	3.29	0.35	35	7	6	1	0
2022.16	ETAAS	20.36	12.26	2	1	0	0	1
2022.16	ICP-MS	14.96	0.98	34	7	7	0	0
2022.16	Global	14.96	1.02	36	8	7	1	0
2022.17	ETAAS	6.37	4.65	2	1	0	0	1
2022.17	ICP-MS	23.9	1.76	33	6	5	1	0
2022.17	Global	23.8	1.67	35	7	5	2	0
2022.18	ETAAS	0.4	0.07	2	1	0	0	1
2022.18	ICP-MS	0.33	0.24	33	6	6	0	0
2022.18	Global	0.33	0.22	35	7	7	0	0
2022.19	ETAAS	7.29	1.32	2	1	0	0	1
2022.19	ICP-MS	6.22	0.21	32	6	6	0	0
2022.19	Global	6.22	0.26	34	7	7	0	0
2022.20	ETAAS	8.71	6.09	2	1	0	0	1
2022.20	ICP-MS	12.1	0.42	33	7	6	1	0
2022.20	Global	12.1	0.53	35	8	7	1	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.21	ETAAS	28.86	1.82	2	1	0	0	1
2022.21	ICP-MS	29.8	2.11	33	6	6	0	0
2022.21	Global	29.8	2.21	35	7	7	0	0
2022.22	ETAAS	20.71	0.36	2	1	0	0	1
2022.22	ICP-MS	23.38	1.75	34	7	7	0	0
2022.22	Global	23.33	1.8	36	8	8	0	0
2022.23	ETAAS	0.64	0.27	2	1	0	0	1
2022.23	ICP-MS	0.2	0.18	31	4	4	0	0
2022.23	Global	0.22	0.19	33	5	4	1	0
2022.24	ETAAS	2.87	0.17	2	1	0	0	1
2022.24	ICP-MS	3.24	0.25	33	6	6	0	0
2022.24	Global	3.24	0.25	35	7	7	0	0

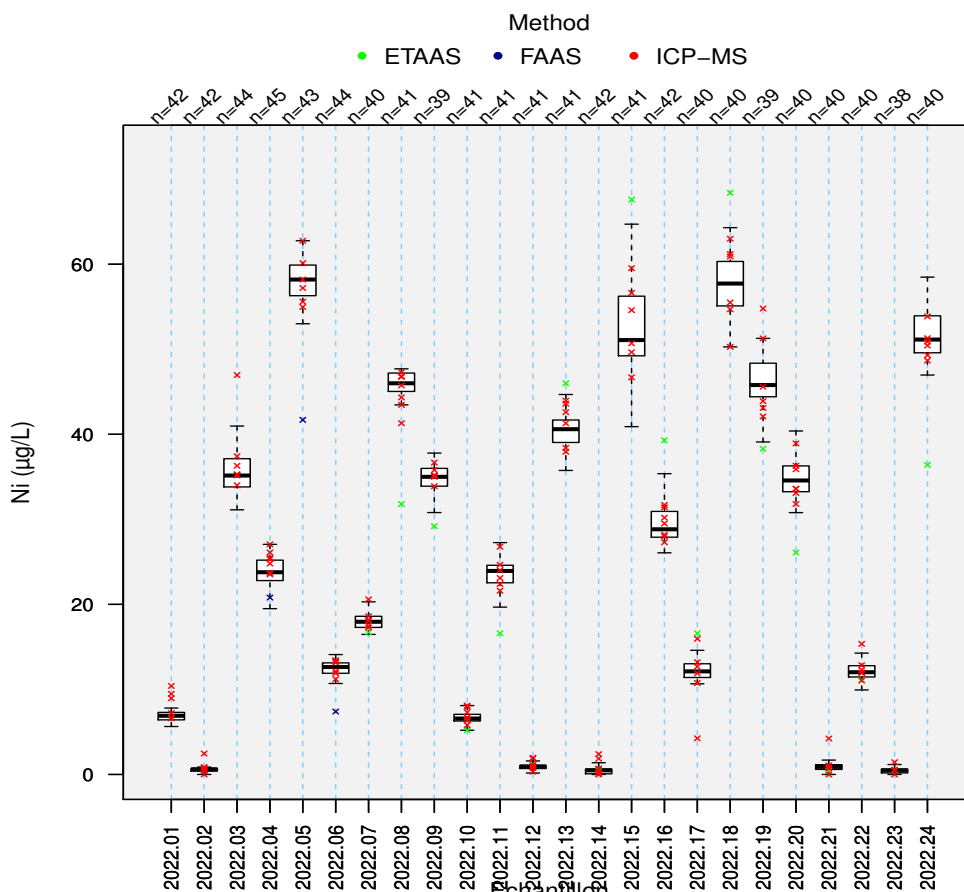


1.3.12 Ni

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	6.9	0.65	41	6	3	3	0
2022.02	ICP-MS	0.63	0.19	41	7	5	2	0
2022.03	FAAS	35.2	0	1	1	0	0	1
2022.03	ICP-MS	35.06	2.4	42	6	5	1	0
2022.03	Global	35.15	2.44	44	7	6	1	0
2022.04	FAAS	20.8	0	1	1	0	0	1
2022.04	ICP-MS	23.78	1.79	43	7	7	0	0
2022.04	Global	23.78	1.78	45	8	8	0	0
2022.05	FAAS	41.7	0	1	1	0	0	1
2022.05	ICP-MS	58.35	2.65	42	6	6	0	0
2022.05	Global	58.2	2.67	43	7	6	1	0
2022.06	FAAS	7.4	0	1	1	0	0	1
2022.06	ICP-MS	12.64	0.87	43	7	7	0	0
2022.06	Global	12.64	0.9	44	8	7	1	0
2022.07	ETAAS	17.77	0.8	2	1	0	0	1
2022.07	ICP-MS	17.95	0.88	38	6	6	0	0
2022.07	Global	17.95	0.96	40	7	7	0	0
2022.08	ETAAS	38.74	5.14	2	1	0	0	1
2022.08	ICP-MS	46.3	1.6	39	7	6	1	0
2022.08	Global	46	1.6	41	8	7	1	0
2022.09	ETAAS	31.27	1.54	2	1	0	0	1
2022.09	ICP-MS	35.12	1.39	37	6	6	0	0
2022.09	Global	35	1.55	39	7	6	1	0
2022.10	ETAAS	6.24	0.77	2	1	0	0	1
2022.10	ICP-MS	6.58	0.57	39	7	7	0	0
2022.10	Global	6.58	0.58	41	8	8	0	0
2022.11	ETAAS	20.4	2.81	2	1	0	0	1
2022.11	ICP-MS	23.93	1.42	39	6	6	0	0
2022.11	Global	23.93	1.53	41	7	6	1	0
2022.12	ETAAS	1.43	0.24	2	1	0	0	1
2022.12	ICP-MS	0.93	0.3	39	7	5	2	0
2022.12	Global	0.94	0.27	41	8	6	2	0
2022.13	ETAAS	43.55	1.82	2	1	0	0	1
2022.13	ICP-MS	40.45	2.19	39	6	6	0	0
2022.13	Global	40.6	1.96	41	7	7	0	0
2022.14	ETAAS	0.25	0.19	2	1	0	0	1
2022.14	ICP-MS	0.48	0.42	40	7	5	2	0
2022.14	Global	0.48	0.41	42	8	6	2	0
2022.15	ETAAS	67.6	8.41	3	1	0	0	1
2022.15	ICP-MS	50.96	4.04	38	6	6	0	0
2022.15	Global	51.08	5.2	41	7	6	1	0
2022.16	ETAAS	39.3	7.72	3	1	0	0	1
2022.16	ICP-MS	28.71	1.81	39	7	7	0	0
2022.16	Global	28.83	2.11	42	8	7	1	0
2022.17	ETAAS	15.11	1.1	2	1	0	0	1
2022.17	ICP-MS	12.08	1.01	38	6	4	2	0
2022.17	Global	12.12	1.13	40	7	4	3	0
2022.18	ETAAS	62.38	4.46	2	1	0	0	1
2022.18	ICP-MS	57.73	3.75	38	6	6	0	0
2022.18	Global	57.73	3.6	40	7	7	0	0
2022.19	ETAAS	42.55	3.15	2	1	0	0	1
2022.19	ICP-MS	45.79	2.56	37	6	5	1	0
2022.19	Global	45.79	2.92	39	7	6	1	0
2022.20	ETAAS	30.61	3.34	2	1	0	0	1
2022.20	ICP-MS	34.57	2.11	38	7	7	0	0
2022.20	Global	34.57	2.18	40	8	7	1	0
2022.21	ETAAS	0.2	0.15	2	1	0	0	1
2022.21	ICP-MS	0.94	0.39	38	5	4	1	0
2022.21	Global	0.9	0.4	40	6	5	1	0
2022.22	ETAAS	11.36	0.19	2	1	0	0	1

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.22	ICP-MS	12.06	0.91	38	6	5	1	0
2022.22	Global	12.02	0.95	40	7	6	1	0
2022.23	ETAAS	0.25	0.19	2	1	0	0	1
2022.23	ICP-MS	0.47	0.3	36	4	3	1	0
2022.23	Global	0.47	0.32	38	5	4	1	0
2022.24	ETAAS	43.45	5.22	2	1	0	0	1
2022.24	ICP-MS	51.24	3.05	38	6	6	0	0
2022.24	Global	51.14	3.17	40	7	6	1	0

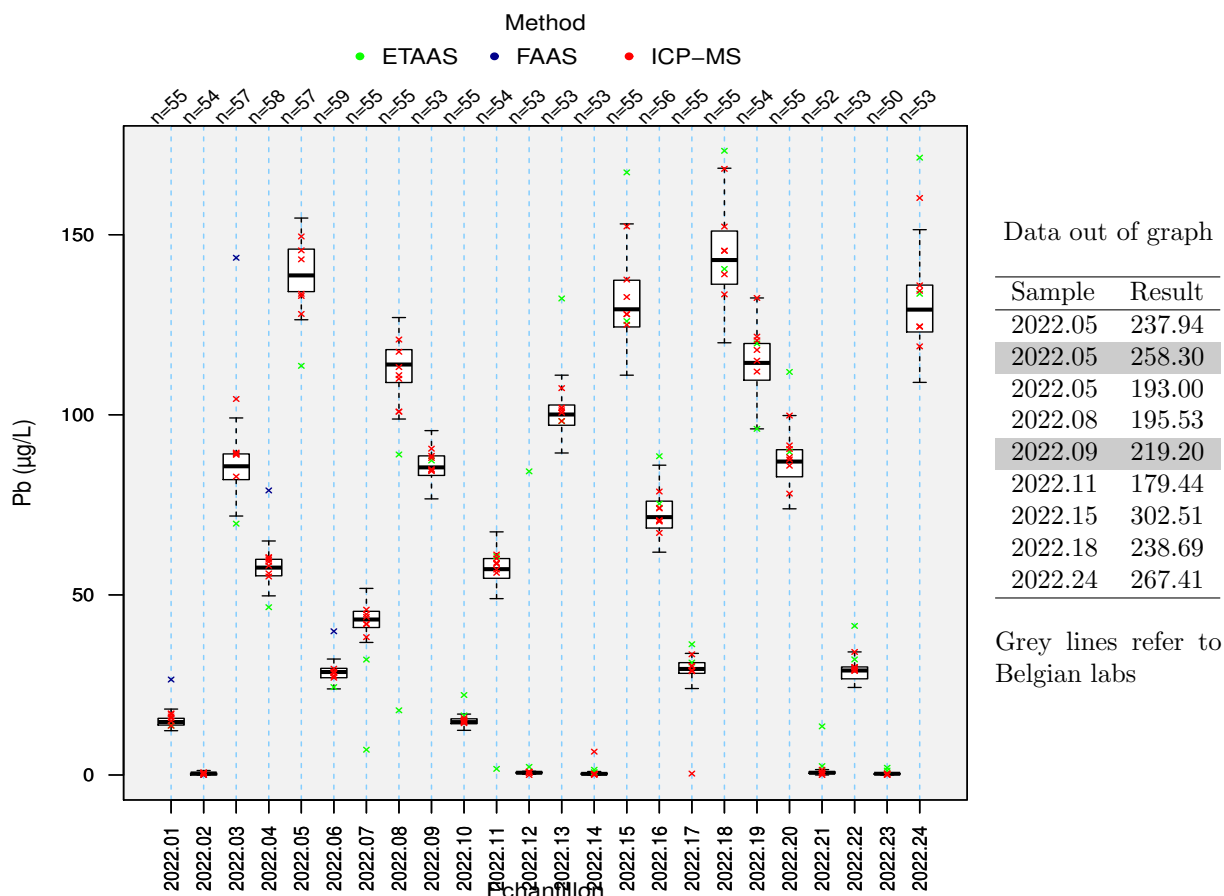


1.3.13 Pb

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	10.7	1.61	5	1	0	0	1
2022.01	FAAS	26.5	0	1	1	0	0	1
2022.01	ICP-MS	15	1.07	49	6	6	0	0
2022.01	Global	14.71	1.39	55	8	7	1	0
2022.02	ETAAS	0.52	0.4	5	1	0	0	1
2022.02	FAAS	0	0	1	1	0	0	1
2022.02	ICP-MS	0.43	0.32	48	7	7	0	0
2022.02	Global	0.43	0.38	54	9	9	0	0
2022.03	ETAAS	78.92	4.72	5	1	0	0	1
2022.03	FAAS	143.6	0	1	1	0	0	1
2022.03	ICP-MS	85.78	4.71	51	6	5	1	0
2022.03	Global	85.71	5.29	57	8	5	3	0
2022.04	ETAAS	53.04	2.2	5	1	0	0	1
2022.04	FAAS	79	0	1	1	0	0	1
2022.04	ICP-MS	57.75	3.2	52	7	7	0	0
2022.04	Global	57.58	3.39	58	9	7	2	0
2022.05	ETAAS	134.2	18.09	5	1	0	0	1
2022.05	FAAS	258.3	0	1	1	0	0	1
2022.05	ICP-MS	138.82	8.5	51	6	6	0	0
2022.05	Global	138.7	8.75	57	8	7	1	0
2022.06	ETAAS	27	4.37	5	1	0	0	1
2022.06	FAAS	39.9	0	1	1	0	0	1
2022.06	ICP-MS	28.59	1.76	53	7	7	0	0
2022.06	Global	28.59	1.93	59	9	8	1	0
2022.07	ETAAS	44.14	9.74	6	2	1	1	0
2022.07	ICP-MS	43.17	3.19	49	6	6	0	0
2022.08	ETAAS	112.22	25.33	6	2	1	1	0
2022.08	ICP-MS	113.96	6.3	49	7	7	0	0
2022.09	ETAAS	85.86	20.37	6	2	1	1	0
2022.09	ICP-MS	85.4	3.93	47	6	6	0	0
2022.10	ETAAS	16.19	4.46	6	2	2	0	0
2022.10	ICP-MS	14.64	0.71	49	7	7	0	0
2022.11	ETAAS	59.69	3.14	6	2	1	1	0
2022.11	ICP-MS	57.02	3.27	48	6	6	0	0
2022.12	ETAAS	2.25	12.29	5	2	0	0	2
2022.12	ICP-MS	0.62	0.16	48	7	6	1	0
2022.12	Global	0.62	0.22	53	9	7	2	0
2022.13	ETAAS	98.22	8.73	6	2	1	1	0
2022.13	ICP-MS	100.1	4.15	47	6	6	0	0
2022.14	ETAAS	1.45	0.52	5	2	0	0	2
2022.14	ICP-MS	0.3	0.15	48	7	6	1	0
2022.14	Global	0.31	0.24	53	9	7	2	0
2022.15	ETAAS	136	28.24	7	2	2	0	0
2022.15	ICP-MS	129.14	8.79	48	6	6	0	0
2022.16	ETAAS	75.3	14.35	7	2	2	0	0
2022.16	ICP-MS	71.5	5.06	49	7	7	0	0
2022.17	ETAAS	31.68	3.08	6	2	2	0	0
2022.17	ICP-MS	29.1	2.51	49	6	5	1	0
2022.18	ETAAS	151.5	18.53	6	2	2	0	0
2022.18	ICP-MS	142	11.05	49	6	6	0	0
2022.19	ETAAS	116.88	14.93	6	2	2	0	0
2022.19	ICP-MS	114.41	7.07	48	6	6	0	0
2022.20	ETAAS	91.84	7.14	6	2	2	0	0
2022.20	ICP-MS	86.4	5.2	49	7	7	0	0
2022.21	ETAAS	2.16	2.59	6	2	1	1	0
2022.21	ICP-MS	0.61	0.26	46	6	5	1	0
2022.22	ETAAS	30.89	1.9	6	2	1	1	0
2022.22	ICP-MS	28.96	2.52	47	7	7	0	0
2022.23	ETAAS	1.5	0.58	5	2	0	0	2
2022.23	ICP-MS	0.32	0.14	45	4	4	0	0

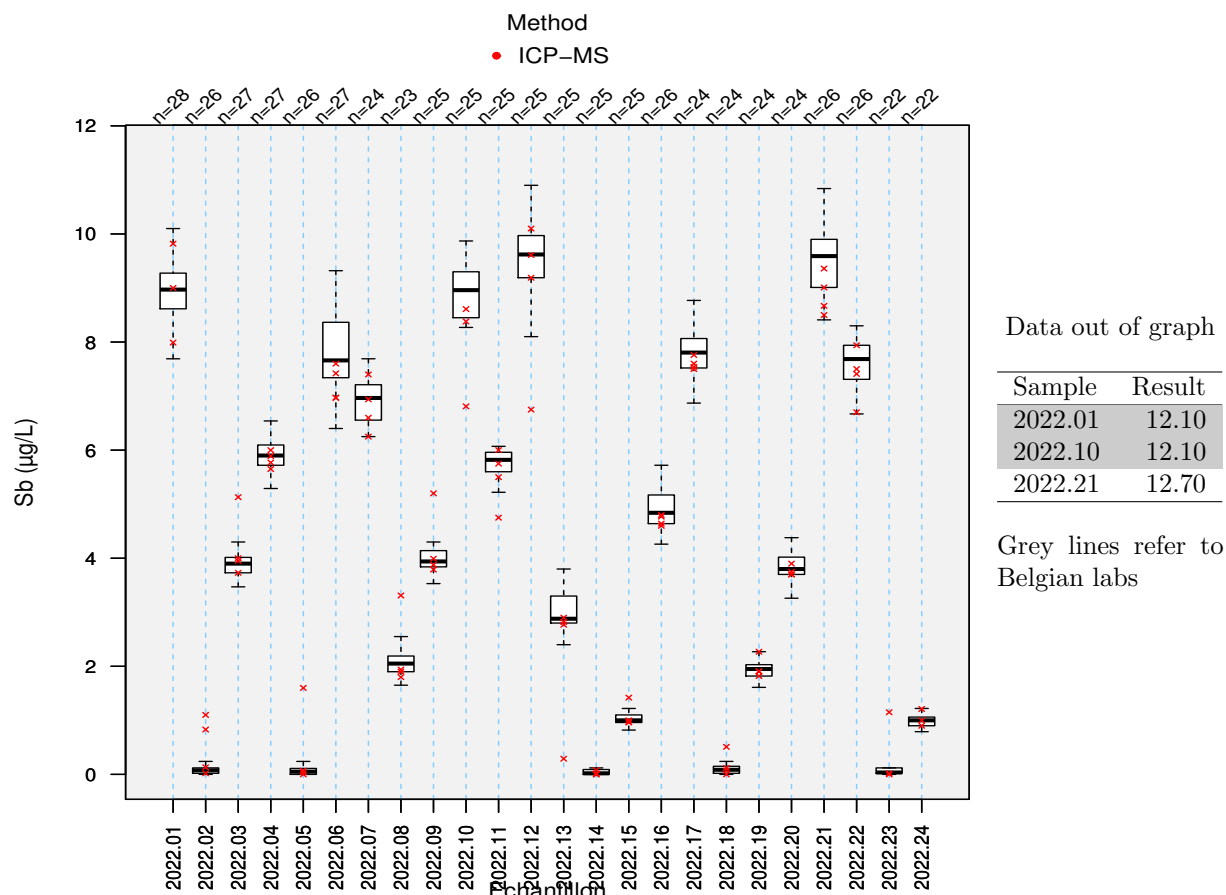
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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.23	Global	0.34	0.17	50	6	4	2	0
2022.24	ETAAS	132.07	24.47	6	2	2	0	0
2022.24	ICP-MS	128.1	10.42	47	6	5	1	0



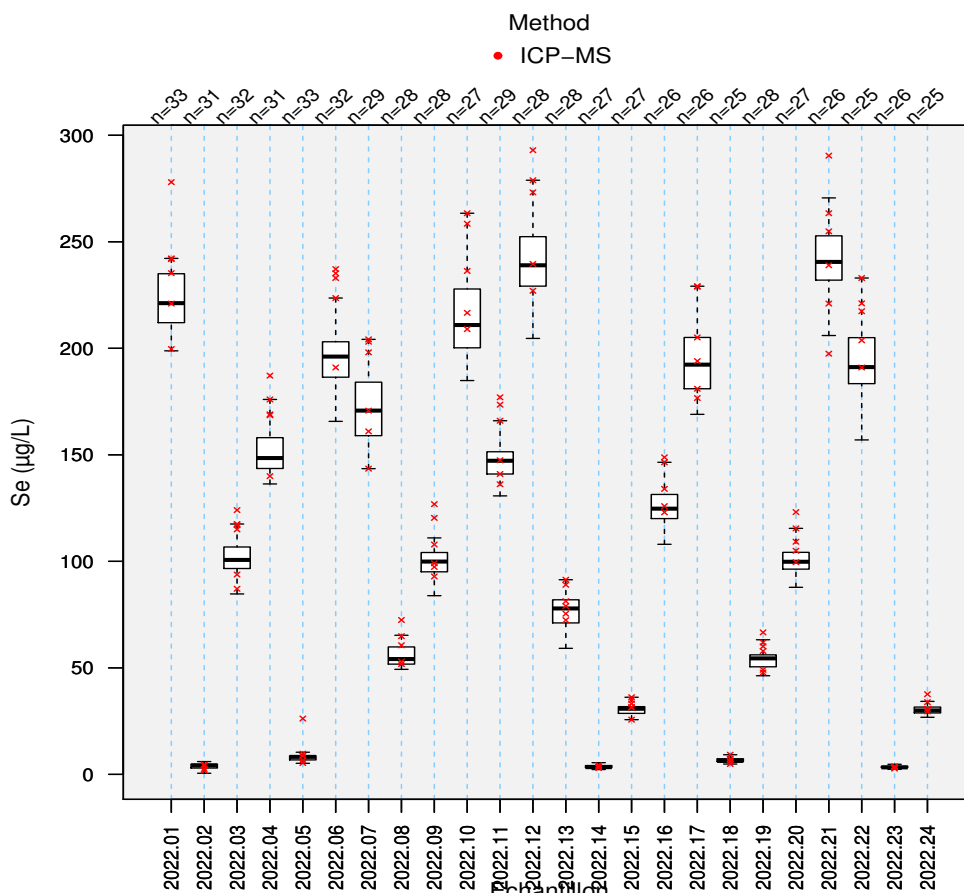
1.3.14 Sb

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	9	0.45	27	4	3	1	0
2022.02	ICP-MS	0.08	0.07	25	4	2	2	0
2022.03	ICP-MS	3.91	0.19	26	4	3	1	0
2022.04	ICP-MS	5.89	0.28	26	4	4	0	0
2022.05	ICP-MS	0.05	0.08	25	4	3	1	0
2022.06	ICP-MS	7.63	0.78	26	4	4	0	0
2022.07	ICP-MS	6.99	0.44	23	4	4	0	0
2022.08	ICP-MS	2.06	0.21	22	4	3	1	0
2022.09	ICP-MS	3.96	0.22	24	4	3	1	0
2022.10	ICP-MS	8.91	0.65	24	4	2	2	0
2022.11	ICP-MS	5.84	0.2	24	4	3	1	0
2022.12	ICP-MS	9.63	0.54	24	4	3	1	0
2022.13	ICP-MS	2.89	0.38	24	4	3	1	0
2022.14	ICP-MS	0.02	0.07	24	4	4	0	0
2022.15	ICP-MS	0.99	0.09	24	4	3	1	0
2022.16	ICP-MS	4.83	0.28	25	4	4	0	0
2022.17	ICP-MS	7.82	0.37	23	4	4	0	0
2022.18	ICP-MS	0.07	0.08	23	4	3	1	0
2022.19	ICP-MS	1.95	0.15	23	4	4	0	0
2022.20	ICP-MS	3.8	0.19	23	4	4	0	0
2022.21	ICP-MS	9.59	0.66	25	4	4	0	0
2022.22	ICP-MS	7.69	0.47	25	4	4	0	0
2022.23	ICP-MS	0.04	0.07	21	3	2	1	0
2022.24	ICP-MS	1	0.12	21	3	3	0	0



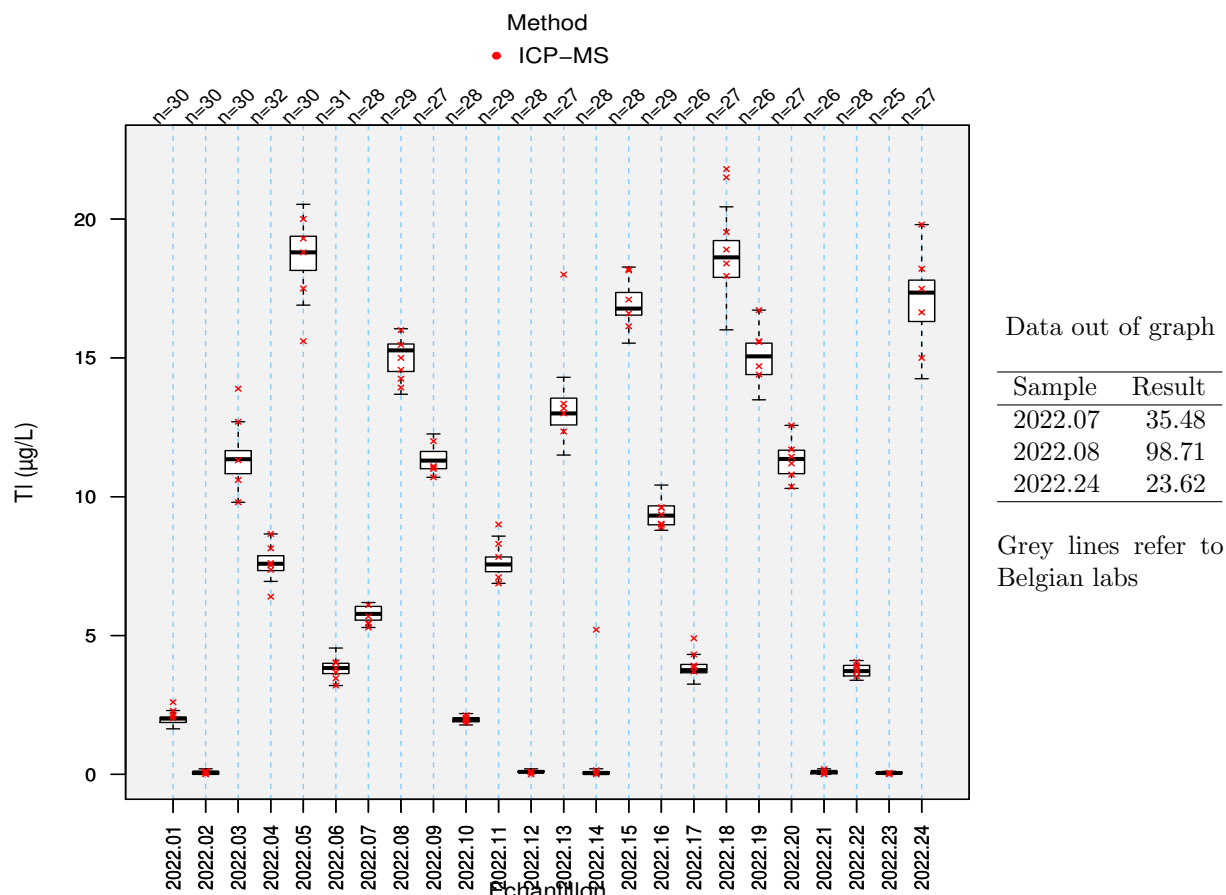
1.3.15 Se

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	222.9	17.4	32	6	5	1	0
2022.02	ICP-MS	4.15	1.48	30	5	5	0	0
2022.03	ICP-MS	101	7.19	31	6	5	1	0
2022.04	ICP-MS	148.11	10.72	30	5	4	1	0
2022.05	ICP-MS	8.22	1.49	32	6	5	1	0
2022.06	ICP-MS	195.92	12.32	31	5	2	3	0
2022.07	ICP-MS	170.76	18.61	29	6	6	0	0
2022.08	ICP-MS	54.14	5.68	28	5	4	1	0
2022.09	ICP-MS	99.89	5.93	28	6	4	2	0
2022.10	ICP-MS	210.93	20.47	27	5	5	0	0
2022.11	ICP-MS	147.21	7.74	29	6	4	2	0
2022.12	ICP-MS	238.98	16.8	28	5	4	1	0
2022.13	ICP-MS	77.89	7.8	28	6	6	0	0
2022.14	ICP-MS	3.4	0.73	27	5	5	0	0
2022.15	ICP-MS	30.81	2.34	27	6	6	0	0
2022.16	ICP-MS	124.73	8.04	26	5	5	0	0
2022.17	ICP-MS	192.32	17	26	6	6	0	0
2022.18	ICP-MS	6.32	0.96	25	5	4	1	0
2022.19	ICP-MS	54.45	3.72	28	6	5	1	0
2022.20	ICP-MS	99.8	5.84	27	5	4	1	0
2022.21	ICP-MS	240.56	14.69	26	6	5	1	0
2022.22	ICP-MS	191.18	16	25	5	5	0	0
2022.23	ICP-MS	3.3	0.43	26	5	5	0	0
2022.24	ICP-MS	30.02	2.05	25	4	3	1	0



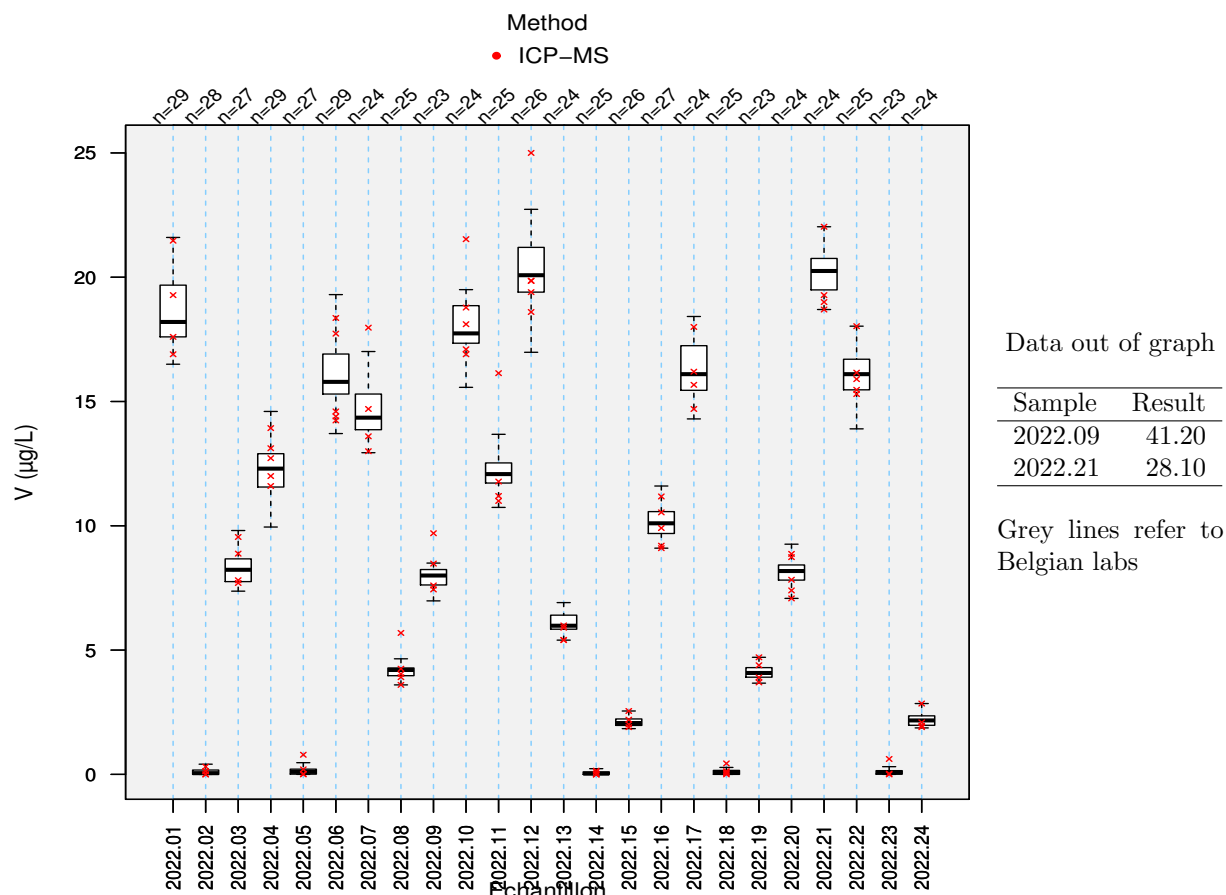
1.3.16 Tl

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	2.01	0.14	30	5	4	1	0
2022.02	ICP-MS	0.07	0.06	30	6	6	0	0
2022.03	ICP-MS	11.35	0.6	30	5	4	1	0
2022.04	ICP-MS	7.58	0.38	32	6	5	1	0
2022.05	ICP-MS	18.8	0.89	30	5	4	1	0
2022.06	ICP-MS	3.83	0.27	31	6	6	0	0
2022.07	ICP-MS	5.78	0.35	28	5	5	0	0
2022.08	ICP-MS	15.27	0.73	29	6	6	0	0
2022.09	ICP-MS	11.3	0.46	27	5	5	0	0
2022.10	ICP-MS	1.98	0.11	28	6	6	0	0
2022.11	ICP-MS	7.56	0.39	29	5	4	1	0
2022.12	ICP-MS	0.09	0.03	28	5	5	0	0
2022.13	ICP-MS	13	0.72	27	5	4	1	0
2022.14	ICP-MS	0.04	0.05	28	6	5	1	0
2022.15	ICP-MS	16.77	0.52	28	5	5	0	0
2022.16	ICP-MS	9.32	0.5	29	6	6	0	0
2022.17	ICP-MS	3.75	0.21	26	5	4	1	0
2022.18	ICP-MS	18.62	0.98	27	6	5	1	0
2022.19	ICP-MS	15.05	0.78	26	5	5	0	0
2022.20	ICP-MS	11.36	0.63	27	6	6	0	0
2022.21	ICP-MS	0.09	0.06	26	4	4	0	0
2022.22	ICP-MS	3.72	0.27	28	6	6	0	0
2022.23	ICP-MS	0.05	0.03	25	3	3	0	0
2022.24	ICP-MS	17.35	1.1	27	5	5	0	0



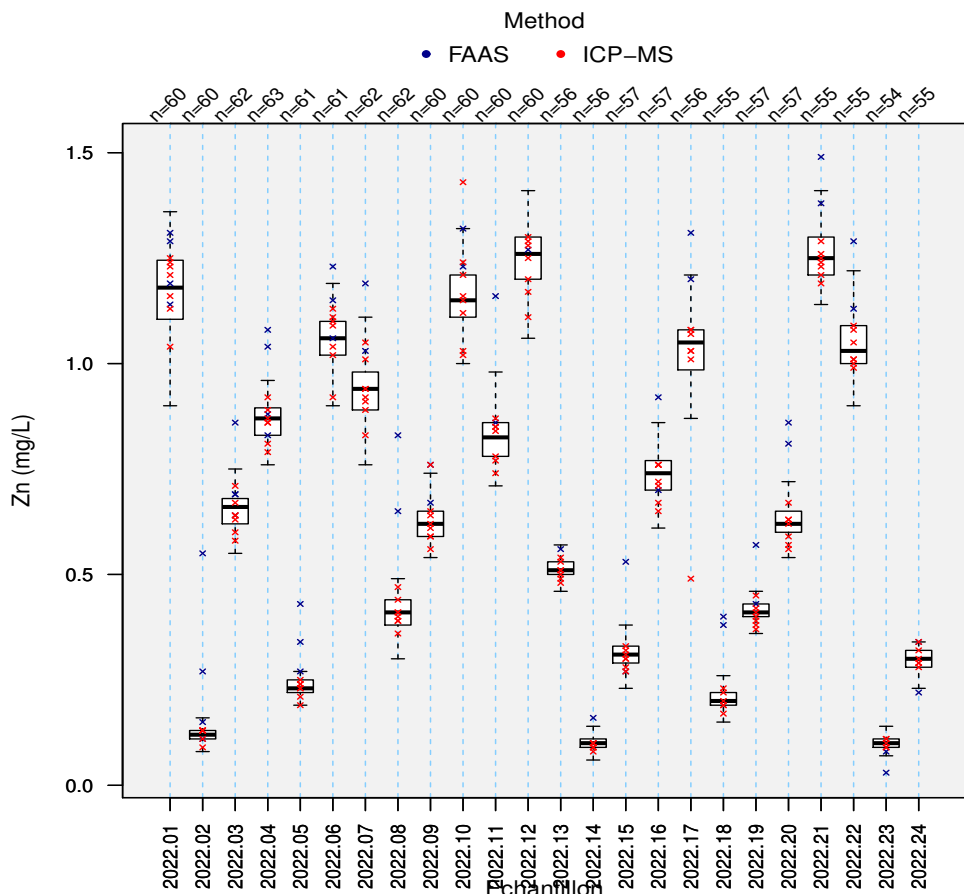
1.3.17 V

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	18.2	1.54	29	4	4	0	0
2022.02	ICP-MS	0.05	0.12	28	5	5	0	0
2022.03	ICP-MS	8.23	0.68	27	4	4	0	0
2022.04	ICP-MS	12.3	0.99	29	5	5	0	0
2022.05	ICP-MS	0.1	0.15	27	4	3	1	0
2022.06	ICP-MS	15.79	1.19	29	5	5	0	0
2022.07	ICP-MS	14.35	1	24	4	3	1	0
2022.08	ICP-MS	4.2	0.23	25	5	4	1	0
2022.09	ICP-MS	8	0.46	23	4	3	1	0
2022.10	ICP-MS	17.74	1.08	24	5	4	1	0
2022.11	ICP-MS	12.08	0.6	25	4	3	1	0
2022.12	ICP-MS	20.08	1.27	26	5	4	1	0
2022.13	ICP-MS	5.98	0.39	24	4	4	0	0
2022.14	ICP-MS	0.03	0.07	25	5	5	0	0
2022.15	ICP-MS	2.06	0.19	26	4	4	0	0
2022.16	ICP-MS	10.1	0.65	27	5	5	0	0
2022.17	ICP-MS	16.1	1.22	24	4	4	0	0
2022.18	ICP-MS	0.08	0.12	25	5	5	0	0
2022.19	ICP-MS	4.08	0.29	23	4	4	0	0
2022.20	ICP-MS	8.18	0.44	24	5	5	0	0
2022.21	ICP-MS	20.25	0.8	24	4	4	0	0
2022.22	ICP-MS	16.1	0.91	25	5	5	0	0
2022.23	ICP-MS	0.07	0.1	23	3	2	1	0
2022.24	ICP-MS	2.17	0.27	24	4	4	0	0



1.3.18 Zn

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	FAAS	1.25	0.07	14	4	4	0	0
2022.01	ICP-MS	1.15	0.09	44	7	7	0	0
2022.02	FAAS	0.15	0.01	14	4	1	3	0
2022.02	ICP-MS	0.12	0.02	44	7	7	0	0
2022.03	FAAS	0.69	0.03	14	4	3	1	0
2022.03	ICP-MS	0.65	0.04	45	7	7	0	0
2022.04	FAAS	0.89	0.02	14	4	2	2	0
2022.04	ICP-MS	0.86	0.05	46	7	7	0	0
2022.05	FAAS	0.27	0.01	13	3	1	2	0
2022.05	ICP-MS	0.23	0.02	46	7	7	0	0
2022.06	FAAS	1.1	0.06	13	3	3	0	0
2022.06	ICP-MS	1.05	0.05	46	7	7	0	0
2022.07	FAAS	0.97	0.06	11	2	1	1	0
2022.07	ICP-MS	0.94	0.08	48	8	8	0	0
2022.08	FAAS	0.45	0.04	11	2	0	2	0
2022.08	ICP-MS	0.4	0.04	48	8	8	0	0
2022.09	FAAS	0.67	0.02	11	2	1	1	0
2022.09	ICP-MS	0.61	0.04	46	8	7	1	0
2022.10	FAAS	1.21	0.06	11	2	2	0	0
2022.10	ICP-MS	1.14	0.07	46	8	7	1	0
2022.11	FAAS	0.86	0.03	11	2	1	1	0
2022.11	ICP-MS	0.82	0.06	46	7	7	0	0
2022.12	FAAS	1.29	0.07	11	2	1	1	0
2022.12	ICP-MS	1.25	0.08	46	7	7	0	0
2022.13	FAAS	0.54	0.05	10	1	1	0	0
2022.13	ICP-MS	0.51	0.02	43	7	7	0	0
2022.14	FAAS	0.11	0.04	10	1	1	0	0
2022.14	ICP-MS	0.1	0.01	43	7	7	0	0
2022.15	FAAS	0.33	0.03	11	2	1	1	0
2022.15	ICP-MS	0.31	0.03	44	7	7	0	0
2022.16	FAAS	0.72	0.08	11	2	2	0	0
2022.16	ICP-MS	0.74	0.05	44	7	7	0	0
2022.17	FAAS	1.07	0.06	10	2	1	1	0
2022.17	ICP-MS	1.04	0.06	43	7	6	1	0
2022.18	FAAS	0.29	0.13	10	2	2	0	0
2022.18	ICP-MS	0.2	0.01	42	6	6	0	0
2022.19	FAAS	0.44	0.04	10	2	1	1	0
2022.19	ICP-MS	0.41	0.03	44	7	7	0	0
2022.20	FAAS	0.64	0.06	10	2	1	1	0
2022.20	ICP-MS	0.62	0.04	44	7	7	0	0
2022.21	FAAS	1.31	0.1	10	2	2	0	0
2022.21	ICP-MS	1.25	0.07	42	7	7	0	0
2022.22	FAAS	1.08	0.07	10	2	2	0	0
2022.22	ICP-MS	1.03	0.07	42	7	7	0	0
2022.23	FAAS	0.1	0.02	10	2	1	1	0
2022.23	ICP-MS	0.1	0.01	41	5	5	0	0
2022.24	FAAS	0.32	0.02	10	2	1	1	0
2022.24	ICP-MS	0.3	0.03	42	6	6	0	0



Data out of graph

Sample	Result
2022.11	9.99
2022.11	828.00
2022.12	1.64
2022.12	1240.00
2022.14	0.00
2022.16	0.02
2022.23	100.35
2022.23	0.00
2022.24	303.29

Grey lines refer to Belgian labs

2 TRACE ELEMENTS IN SERUM

2.1 PARTICIPATION

31 laboratories participated to the EQA for serum matrix.

Parameter	N labs	Recorded results	Expected number of results	percentage
Al	9	173	216	80.1 %
Co	6	139	144	96.5 %
Cr	7	162	168	96.4 %
Cu	26	569	672	91.2 %
Li	7	143	192	85.1 %
Mg	6	88	144	61.1 %
Mo	3	67	72	93.1 %
Se	13	283	336	90.7 %
Tl	1	21	24	87.5 %
Zn	28	615	720	91.5 %
Total		2260	2688	84.08

2.2 GLOBAL RESULTS

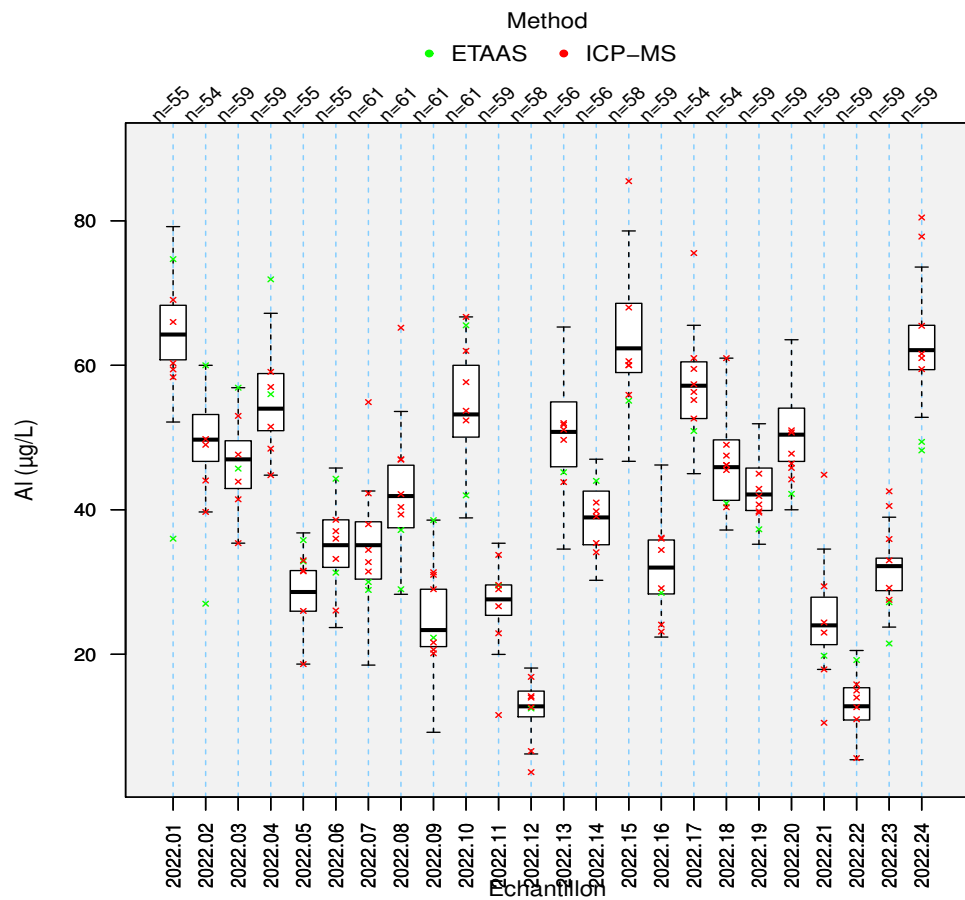
STAT	Element	Total number of results	Number of evaluated results	Number of Z citations	% citations
MA	Al	173	173	12	6.9
MA	Co	139	139	4	2.9
MA	Cr	162	162	13	8
MA	Cu	569	569	59	10.4
MA	Li	143	104	4	3.8
MA+GA	Li	143	143 (+39)	8 (+4)	5.6
MA	Mg	88	88	3	3.4
MA	Mo	67	67	2	3
MA	Se	283	277	8	2.9
MA+GA	Se	283	283 (+6)	10 (+2)	3.5
MA	Tl	21	21	2	9.5
MA	Zn	615	581	54	9.3
MA+GA	Zn	615	615 (+34)	66 (+12)	10.7
Total	MA+GA	2260	2260	179	7.9
	MA	2260	2181	161	7.4

2.3 RESULTS PER ELEMENT

2.3.1 Al

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	64.83	10.03	11	2	2	0	0
2022.01	ICP-MS	63.77	5.64	42	5	5	0	0
2022.02	ETAAS	48.66	7.32	11	2	2	0	0
2022.02	ICP-MS	49.68	3.5	41	4	4	0	0
2022.03	ETAAS	45.7	6.21	13	2	2	0	0
2022.03	ICP-MS	46.98	4.52	44	5	5	0	0
2022.04	ETAAS	56	6.67	13	2	2	0	0
2022.04	ICP-MS	54	4.86	44	5	5	0	0
2022.05	ETAAS	30.77	3.84	12	2	2	0	0
2022.05	ICP-MS	28.35	4.63	41	5	5	0	0
2022.06	ETAAS	35.41	5.33	12	2	2	0	0
2022.06	ICP-MS	35.1	3.84	41	5	5	0	0
2022.07	ETAAS	35.1	6.67	13	2	2	0	0
2022.07	ICP-MS	35.73	5.63	46	6	5	1	0
2022.08	ETAAS	38.2	6.8	13	2	2	0	0
2022.08	ICP-MS	42.23	6.13	46	6	5	1	0
2022.09	ETAAS	24.03	6.81	15	2	2	0	0
2022.09	ICP-MS	22.82	5.96	44	6	6	0	0
2022.10	ETAAS	52.73	15.16	15	2	2	0	0
2022.10	ICP-MS	53.45	6.91	44	6	5	1	0
2022.11	ETAAS	29.2	1.96	12	1	1	0	0
2022.11	ICP-MS	27	3.45	45	6	5	1	0
2022.12	ETAAS	13.16	2.33	12	1	1	0	0
2022.12	ICP-MS	12.59	2.74	44	6	5	1	0
2022.13	ETAAS	50.12	7.12	12	1	1	0	0
2022.13	ICP-MS	50.78	5.45	42	5	5	0	0
2022.14	ETAAS	39.02	6.87	12	1	1	0	0
2022.14	ICP-MS	38.94	4.34	42	5	5	0	0
2022.15	ETAAS	62.4	6.59	13	1	1	0	0
2022.15	ICP-MS	62.3	6.56	43	6	5	1	0
2022.16	ETAAS	31.8	5.96	13	1	1	0	0
2022.16	ICP-MS	32.06	5.26	44	6	6	0	0
2022.17	ETAAS	54.95	6.22	12	1	1	0	0
2022.17	ICP-MS	57.08	5.08	40	7	6	1	0
2022.18	ETAAS	43.47	4.72	12	1	1	0	0
2022.18	ICP-MS	46.2	6.2	40	7	7	0	0
2022.19	ETAAS	41.45	3.42	12	1	1	0	0
2022.19	ICP-MS	42.5	4.92	45	6	6	0	0
2022.20	ETAAS	49.81	8.68	12	1	1	0	0
2022.20	ICP-MS	50.76	4.47	45	6	6	0	0
2022.21	ETAAS	24.57	6.4	13	1	1	0	0
2022.21	ICP-MS	23.9	4.44	44	6	4	2	0
2022.22	ETAAS	14.85	4.23	13	1	1	0	0
2022.22	ICP-MS	12.54	3.37	44	6	6	0	0
2022.23	ETAAS	31.16	3.66	14	2	2	0	0
2022.23	ICP-MS	32.4	3.19	43	6	5	1	0
2022.24	ETAAS	60.5	8.81	14	2	2	0	0
2022.24	ICP-MS	62.1	4.08	43	6	4	2	0

Data out of graph

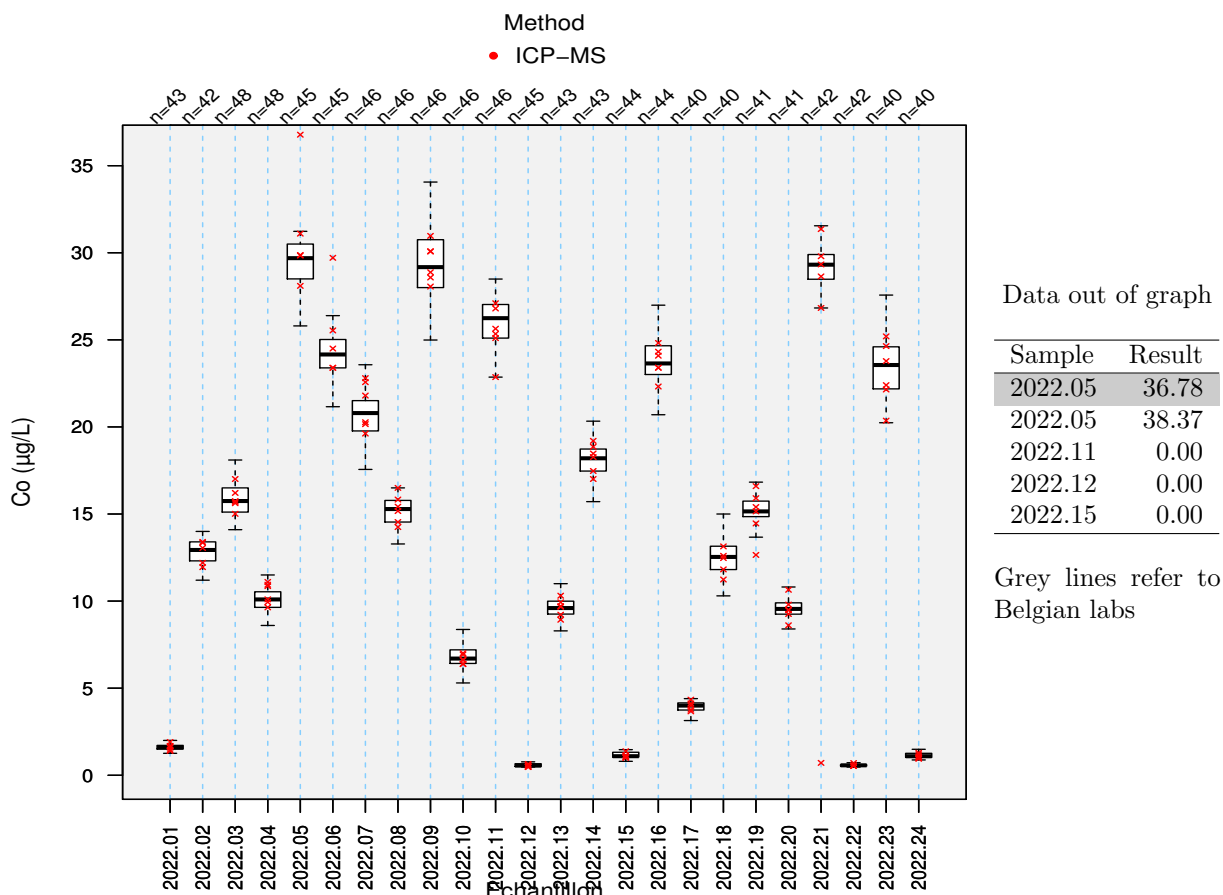


Sample	Result
2022.01	231.76
2022.02	142.23
2022.03	166.65
2022.03	107.00
2022.04	130.40
2022.04	146.00
2022.05	444.70
2022.06	741.81
2022.07	1118.60
2022.08	2.00
2022.08	1388.07
2022.09	616.23
2022.10	117.91
2022.10	570.85
2022.10	93.15
2022.11	3.51
2022.11	110.50
2022.12	99.60
2022.13	379.71
2022.14	110.72
2022.14	915.37
2022.15	185.80
2022.15	257.56
2022.16	709.11
2022.17	293.19
2022.18	979.80
2022.19	368.67
2022.19	105.88
2022.20	918.93
2022.20	116.42
2022.21	393.34
2022.22	407.02
2022.23	1.08
2022.23	469.59
2022.24	998.82

Grey lines refer to Belgian labs

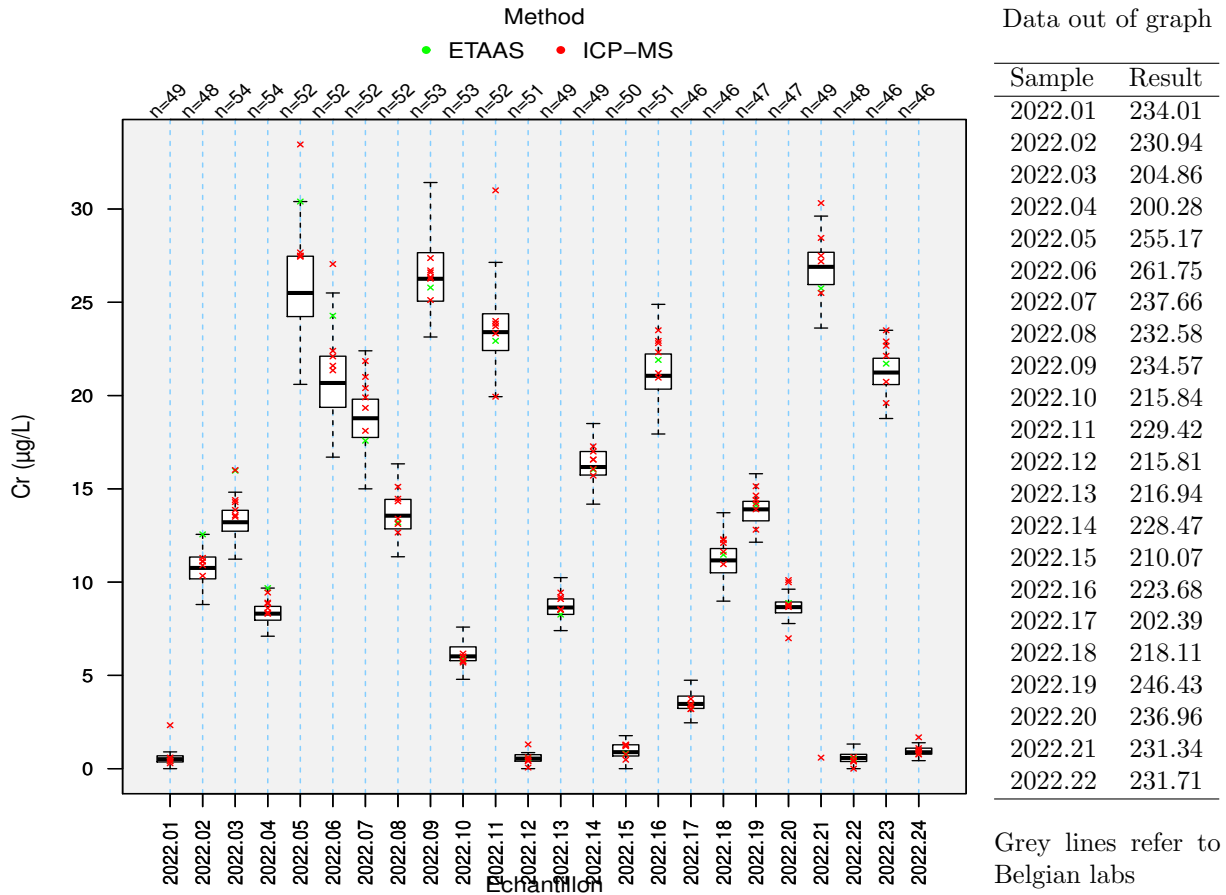
2.3.2 Co

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	1.6	0.18	38	6	6	0	0
2022.02	ICP-MS	13.02	0.67	37	5	5	0	0
2022.03	ICP-MS	15.75	0.93	43	6	6	0	0
2022.04	ICP-MS	10.1	0.65	43	6	6	0	0
2022.05	ICP-MS	29.69	1.48	41	5	4	1	0
2022.06	ICP-MS	24.03	1.21	41	5	4	1	0
2022.07	ICP-MS	21.06	1.22	41	6	6	0	0
2022.08	ICP-MS	15.3	0.73	41	6	6	0	0
2022.09	ICP-MS	29.2	1.96	41	6	6	0	0
2022.10	ICP-MS	6.72	0.57	41	6	6	0	0
2022.11	ICP-MS	26.5	1.43	42	6	6	0	0
2022.12	ICP-MS	0.54	0.1	41	6	6	0	0
2022.13	ICP-MS	9.61	0.47	39	6	6	0	0
2022.14	ICP-MS	18.21	0.84	39	6	6	0	0
2022.15	ICP-MS	1.09	0.19	41	6	6	0	0
2022.16	ICP-MS	23.68	1.08	41	6	6	0	0
2022.17	ICP-MS	4	0.27	37	5	5	0	0
2022.18	ICP-MS	12.47	0.87	37	5	5	0	0
2022.19	ICP-MS	15.13	0.67	38	6	5	1	0
2022.20	ICP-MS	9.55	0.47	38	6	6	0	0
2022.21	ICP-MS	29.35	1.01	39	6	5	1	0
2022.22	ICP-MS	0.57	0.05	39	6	6	0	0
2022.23	ICP-MS	23.6	1.78	37	6	6	0	0
2022.24	ICP-MS	1.1	0.19	37	6	6	0	0



2.3.3 Cr

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	0.43	0.1	9	1	1	0	0
2022.01	ICP-MS	0.52	0.32	40	6	5	1	0
2022.02	ETAAS	10.15	0.33	9	1	0	1	0
2022.02	ICP-MS	10.9	0.77	39	5	5	0	0
2022.03	ETAAS	13.02	0.45	8	1	0	1	0
2022.03	ICP-MS	13.3	0.83	46	6	5	1	0
2022.04	ETAAS	7.96	0.33	8	1	0	1	0
2022.04	ICP-MS	8.43	0.47	46	6	6	0	0
2022.05	ETAAS	25.16	1.26	8	1	0	1	0
2022.05	ICP-MS	25.72	2.49	44	5	4	1	0
2022.06	ETAAS	20.27	0.84	8	1	0	1	0
2022.06	ICP-MS	21	2.16	44	5	5	0	0
2022.07	ETAAS	17.73	1.6	9	1	1	0	0
2022.07	ICP-MS	19	1.36	43	6	6	0	0
2022.08	ETAAS	13.11	0.3	9	1	1	0	0
2022.08	ICP-MS	13.78	1.1	43	6	6	0	0
2022.09	ETAAS	25.59	1.39	10	1	1	0	0
2022.09	ICP-MS	26.4	1.95	43	6	6	0	0
2022.10	ETAAS	5.93	0.25	10	1	1	0	0
2022.10	ICP-MS	6.03	0.63	43	6	6	0	0
2022.11	ETAAS	23.19	0.62	9	1	1	0	0
2022.11	ICP-MS	23.72	1.46	43	6	5	1	0
2022.12	ETAAS	0.56	0.17	9	1	1	0	0
2022.12	ICP-MS	0.52	0.27	42	6	6	0	0
2022.13	ETAAS	8.42	0.2	9	1	1	0	0
2022.13	ICP-MS	8.69	0.61	40	6	6	0	0
2022.14	ETAAS	15.76	0.24	9	1	1	0	0
2022.14	ICP-MS	16.24	0.82	40	6	6	0	0
2022.15	ETAAS	0.83	0.27	8	1	1	0	0
2022.15	ICP-MS	0.9	0.45	42	6	6	0	0
2022.16	ETAAS	20.89	0.34	8	1	1	0	0
2022.16	ICP-MS	21.2	1.72	43	6	6	0	0
2022.17	ETAAS	3.36	0.05	8	1	1	0	0
2022.17	ICP-MS	3.51	0.51	38	5	5	0	0
2022.18	ETAAS	11.02	0.62	8	1	1	0	0
2022.18	ICP-MS	11.32	1.09	38	5	5	0	0
2022.19	ETAAS	13.89	0.4	8	1	1	0	0
2022.19	ICP-MS	13.9	0.92	39	6	6	0	0
2022.20	ETAAS	8.53	0.47	8	1	1	0	0
2022.20	ICP-MS	8.66	0.4	39	6	3	3	0
2022.21	ETAAS	25.92	0.49	8	1	1	0	0
2022.21	ICP-MS	27	1.49	41	6	5	1	0
2022.22	ETAAS	0.55	0.12	8	1	1	0	0
2022.22	ICP-MS	0.58	0.31	40	5	5	0	0
2022.23	ETAAS	21.48	0.76	8	1	1	0	0
2022.23	ICP-MS	21.22	1.38	38	6	6	0	0
2022.24	ETAAS	0.8	0.14	8	1	1	0	0
2022.24	ICP-MS	0.92	0.38	38	6	6	0	0



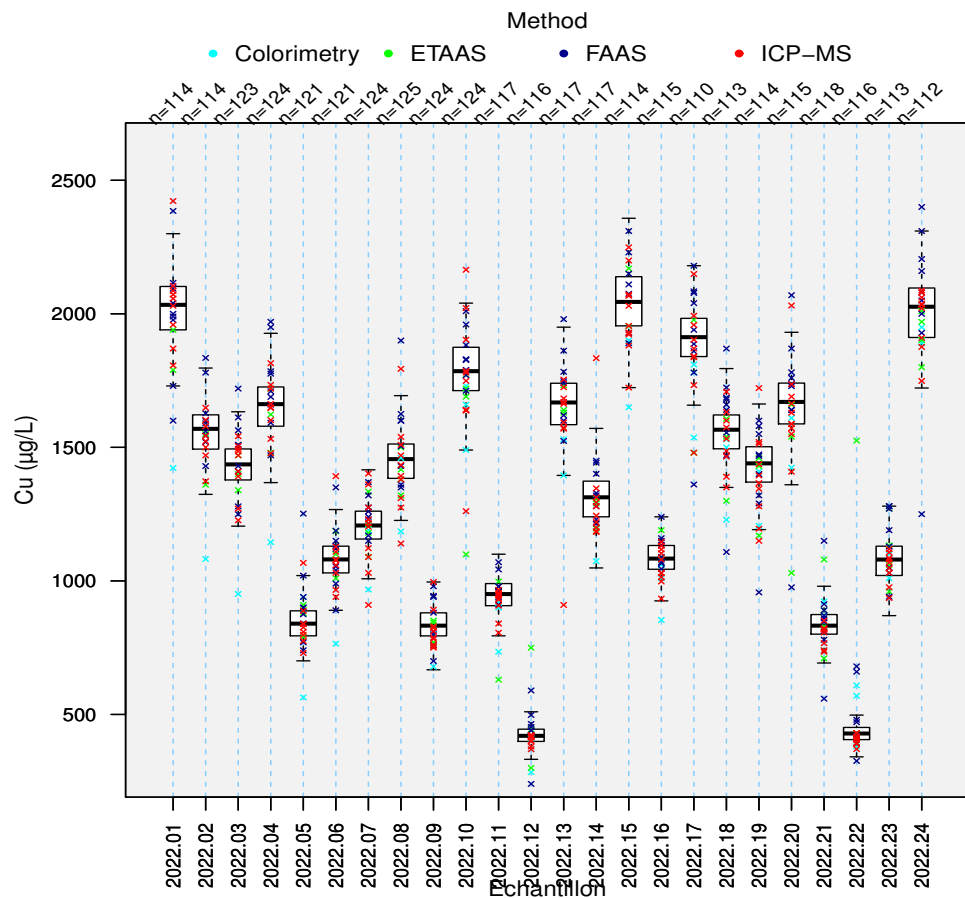
2.3.4 Cu

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	2022	499.75	9	1	1	0	0
2022.01	ETAAS	1990	92.94	9	3	2	1	0
2022.01	FAAS	2050.69	103.75	40	9	6	3	0
2022.01	ICP-MS	2031.8	117.33	52	9	8	1	0
2022.02	Colorimetry	1576.04	51.82	9	1	0	1	0
2022.02	ETAAS	1585.58	124.53	10	3	2	1	0
2022.02	FAAS	1575.5	73.76	40	9	8	1	0
2022.02	ICP-MS	1543	89.5	51	8	8	0	0
2022.03	Colorimetry	1410	94.22	9	1	0	1	0
2022.03	ETAAS	1470	70.42	9	3	3	0	0
2022.03	FAAS	1445.76	86.75	41	9	8	1	0
2022.03	ICP-MS	1435.16	80.65	58	9	9	0	0
2022.04	Colorimetry	1715.85	444.34	9	1	1	0	0
2022.04	ETAAS	1642.1	95.72	10	3	3	0	0
2022.04	FAAS	1660	122.49	41	9	9	0	0
2022.04	ICP-MS	1663.74	96.65	58	9	9	0	0
2022.05	Colorimetry	845.22	123.43	11	2	2	0	0
2022.05	ETAAS	824.24	68.2	9	3	3	0	0
2022.05	FAAS	867.46	63.01	38	9	8	1	0
2022.05	ICP-MS	837.96	56.53	57	9	8	1	0
2022.06	Colorimetry	1080.35	80.88	11	2	1	1	0
2022.06	ETAAS	1087.98	40.87	9	3	3	0	0
2022.06	FAAS	1102	78.99	38	9	8	1	0
2022.06	ICP-MS	1075.27	58.93	57	9	8	1	0
2022.07	Colorimetry	1224	71.91	9	2	1	1	0
2022.07	ETAAS	1201.1	58.76	9	4	4	0	0
2022.07	FAAS	1240	82.05	41	8	8	0	0
2022.07	ICP-MS	1194.74	52.46	59	10	6	4	0
2022.08	Colorimetry	1448.94	115.38	9	2	2	0	0
2022.08	ETAAS	1405.09	41.68	9	4	4	0	0
2022.08	FAAS	1488.81	107.24	42	8	7	1	0
2022.08	ICP-MS	1448.94	72.6	59	10	8	2	0
2022.09	Colorimetry	800	107.91	7	3	3	0	0
2022.09	ETAAS	830	43.81	9	4	4	0	0
2022.09	FAAS	840	85.62	43	8	8	0	0
2022.09	ICP-MS	830.6	55.62	59	10	10	0	0
2022.10	Colorimetry	1730	136.77	7	3	3	0	0
2022.10	ETAAS	1720	69.89	9	4	3	1	0
2022.10	FAAS	1820	84.62	43	8	8	0	0
2022.10	ICP-MS	1780	123.37	59	10	8	2	0
2022.11	Colorimetry	890.5	62.53	8	3	3	0	0
2022.11	ETAAS	953.25	37.69	9	4	3	1	0
2022.11	FAAS	971.74	64.51	36	8	8	0	0
2022.11	ICP-MS	940.27	56.47	58	9	9	0	0
2022.12	Colorimetry	356	48.23	8	3	3	0	0
2022.12	ETAAS	444.85	22.44	9	4	2	2	0
2022.12	FAAS	436	37.22	35	8	6	2	0
2022.12	ICP-MS	416.25	27.4	58	9	9	0	0
2022.13	Colorimetry	1550	165.95	8	2	2	0	0
2022.13	ETAAS	1667.5	59.52	8	3	3	0	0
2022.13	FAAS	1665.01	150.62	39	8	8	0	0
2022.13	ICP-MS	1677.45	87.03	56	10	8	2	0
2022.14	Colorimetry	1215.5	152.88	8	2	2	0	0
2022.14	ETAAS	1339.78	50.51	8	3	3	0	0
2022.14	FAAS	1329	118.26	39	8	8	0	0
2022.14	ICP-MS	1296.61	81.13	56	10	9	1	0
2022.15	Colorimetry	1882	44.59	8	3	2	1	0
2022.15	ETAAS	2084.44	122.11	7	3	2	1	0
2022.15	FAAS	2079.5	96.55	38	8	7	1	0
2022.15	ICP-MS	2031.8	112.67	56	10	10	0	0

Continued on next page

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.16	Colorimetry	1012.5	111.62	8	3	3	0	0
2022.16	ETAAS	1116	54.33	7	3	2	1	0
2022.16	FAAS	1099.42	66.61	39	8	8	0	0
2022.16	ICP-MS	1080.17	64.44	56	10	10	0	0
2022.17	Colorimetry	1732	118.42	8	3	3	0	0
2022.17	ETAAS	1911	57.85	7	3	2	1	0
2022.17	FAAS	1940	126.02	37	9	8	1	0
2022.17	ICP-MS	1914.39	103.11	52	9	8	1	0
2022.18	Colorimetry	1472.5	183.1	8	3	3	0	0
2022.18	ETAAS	1563.33	50.91	7	3	2	1	0
2022.18	FAAS	1576.04	91.56	39	9	7	2	0
2022.18	ICP-MS	1573.6	80.8	53	9	9	0	0
2022.19	Colorimetry	1395	63.58	6	2	2	0	0
2022.19	ETAAS	1430	72.74	7	3	2	1	0
2022.19	FAAS	1469	119	40	9	8	1	0
2022.19	ICP-MS	1436.23	109	55	10	10	0	0
2022.20	Colorimetry	1659.75	96.28	6	2	2	0	0
2022.20	ETAAS	1645.95	120.46	7	3	2	1	0
2022.20	FAAS	1688.52	88.96	41	9	7	2	0
2022.20	ICP-MS	1665.01	120.64	55	10	9	1	0
2022.21	Colorimetry	836.5	64.67	8	3	3	0	0
2022.21	ETAAS	856.33	61.41	8	4	3	1	0
2022.21	FAAS	850	51.15	41	9	7	2	0
2022.21	ICP-MS	821	46.97	56	9	9	0	0
2022.22	Colorimetry	423	86.08	8	3	3	0	0
2022.22	ETAAS	432.35	22.05	8	4	3	1	0
2022.22	FAAS	430	54.22	39	9	7	2	0
2022.22	ICP-MS	424.55	27.91	56	9	9	0	0
2022.23	Colorimetry	1100	74.13	7	3	3	0	0
2022.23	ETAAS	1128.33	69.68	8	4	4	0	0
2022.23	FAAS	1088.4	68.29	40	9	8	1	0
2022.23	ICP-MS	1060	77.17	53	9	9	0	0
2022.24	Colorimetry	1950	91.18	7	3	3	0	0
2022.24	ETAAS	1990.03	47.29	8	4	3	1	0
2022.24	FAAS	2033.6	162.59	39	9	8	1	0
2022.24	ICP-MS	2030.42	129.31	53	9	9	0	0

Data out of graph



Sample	Result
2022.01	174.00
2022.01	2.17
2022.01	204.19
2022.02	1.69
2022.02	162.34
2022.02	2652.58
2022.03	132.40
2022.04	254.20
2022.07	12.60
2022.08	15.20
2022.09	87.00
2022.09	93.00
2022.10	175.00
2022.10	198.00
2022.10	2690.00
2022.11	105.00
2022.12	240.00
2022.12	53.00
2022.12	180.00
2022.12	240.22
2022.13	166.00
2022.13	183.00
2022.13	2819.00
2022.14	133.00
2022.14	136.00
2022.15	1.99
2022.15	2750.44
2022.16	1.10
2022.21	237.80
2022.22	228.78
2022.22	199.60
2022.22	0.30
2022.22	177.94
2022.23	7017.00
2022.24	216.00

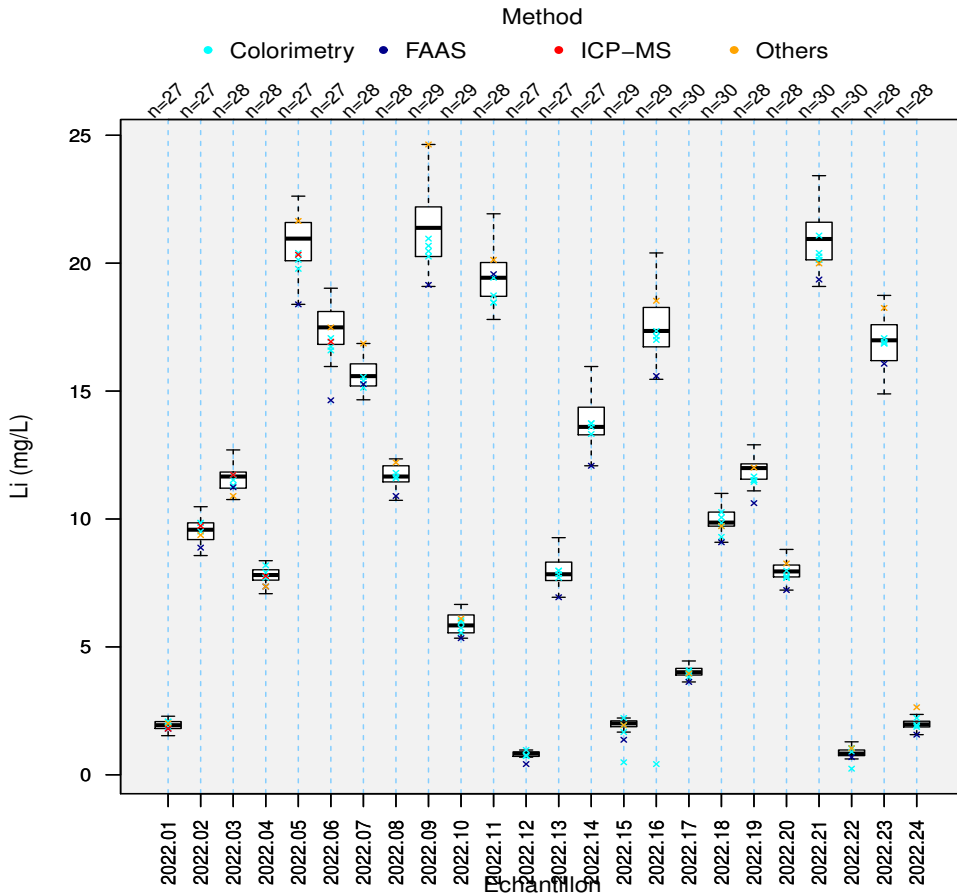
Grey lines refer to Belgian labs

2.3.5 Li

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	2.08	0.24	8	3	3	0	0
2022.01	FAAS	2.01	0.18	6	1	1	0	0
2022.01	ICP-MS	1.87	0.1	9	1	1	0	0
2022.01	Others	2.08	0.05	2	1	0	0	1
2022.01	Global	1.94	0.2	27	6	6	0	0
2022.02	Colorimetry	9.85	0.42	8	3	3	0	0
2022.02	FAAS	9.55	0.7	6	1	1	0	0
2022.02	ICP-MS	9.37	0.47	9	1	1	0	0
2022.02	Others	9.68	0.23	2	1	0	0	1
2022.02	Global	9.58	0.49	27	6	6	0	0
2022.03	Colorimetry	11.7	0.21	8	3	3	0	0
2022.03	FAAS	11.66	0.73	6	1	1	0	0
2022.03	ICP-MS	11.55	0.5	10	1	1	0	0
2022.03	Others	11.8	0.67	2	1	0	0	1
2022.03	Global	11.66	0.44	28	6	6	0	0
2022.04	Colorimetry	7.95	0.27	8	3	3	0	0
2022.04	FAAS	7.78	0.33	6	1	1	0	0
2022.04	ICP-MS	7.7	0.3	10	1	1	0	0
2022.04	Others	8.02	0.49	2	1	0	0	1
2022.04	Global	7.81	0.28	28	6	6	0	0
2022.05	Colorimetry	20.27	0.55	8	3	3	0	0
2022.05	FAAS	21.23	1.41	6	1	1	0	0
2022.05	ICP-MS	21.5	0.18	9	1	0	1	0
2022.05	Others	22.13	0.36	2	1	0	0	1
2022.05	Global	20.96	1.11	27	6	6	0	0
2022.06	Colorimetry	17.07	0.42	8	3	3	0	0
2022.06	FAAS	18.16	1.07	6	1	0	1	0
2022.06	ICP-MS	17.63	0.62	9	1	1	0	0
2022.06	Others	18.05	0.41	2	1	0	0	1
2022.06	Global	17.49	0.95	27	6	6	0	0
2022.07	Colorimetry	15.48	0.31	8	3	3	0	0
2022.07	FAAS	15.89	0.8	5	1	0	0	1
2022.07	Others	16.13	0.54	2	1	0	0	1
2022.07	Global	15.59	0.6	28	5	5	0	0
2022.08	Colorimetry	11.73	0.3	8	3	3	0	0
2022.08	FAAS	11.66	0.41	5	1	0	0	1
2022.08	Others	12.07	0.1	2	1	0	0	1
2022.08	Global	11.66	0.47	28	5	5	0	0
2022.09	Colorimetry	20.47	0.82	9	4	4	0	0
2022.09	FAAS	21.99	0.61	5	1	0	0	1
2022.09	Others	23.88	0.57	2	1	0	0	1
2022.09	Global	21.38	1.44	29	6	6	0	0
2022.10	Colorimetry	5.97	0.42	9	4	4	0	0
2022.10	FAAS	6.04	0.38	5	1	0	0	1
2022.10	Others	6.18	0.05	2	1	0	0	1
2022.10	Global	5.84	0.52	29	6	6	0	0
2022.11	Colorimetry	18.57	0.27	8	4	3	1	0
2022.11	FAAS	19.64	0.26	5	1	0	0	1
2022.11	Others	19.78	0.26	2	1	0	0	1
2022.11	Global	19.43	0.93	28	6	6	0	0
2022.12	Colorimetry	0.74	0.08	8	4	4	0	0
2022.12	FAAS	0.89	0.01	5	1	0	0	1
2022.12	Global	0.83	0.13	27	5	4	1	0
2022.13	Colorimetry	7.84	0.21	9	4	4	0	0
2022.13	FAAS	8.03	0.53	5	1	0	0	1
2022.13	Global	7.84	0.53	27	5	5	0	0
2022.14	Colorimetry	13.6	0.31	9	4	4	0	0
2022.14	FAAS	14.17	0.94	5	1	0	0	1
2022.14	Global	13.6	0.8	27	5	5	0	0
2022.15	Colorimetry	2.01	0.52	9	4	4	0	0

Continued on next page

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.15	FAAS	2.08	0.04	5	1	0	0	1
2022.15	Others	2.01	0.05	2	1	0	0	1
2022.15	Global	2.01	0.17	29	6	4	2	0
2022.16	Colorimetry	17.14	0.46	9	4	3	1	0
2022.16	FAAS	18.04	0.92	5	1	0	0	1
2022.16	Others	18.46	0.05	2	1	0	0	1
2022.16	Global	17.35	1.14	29	6	5	1	0
2022.17	Colorimetry	4	0.14	10	5	5	0	0
2022.17	FAAS	4.03	0.21	5	1	0	0	1
2022.17	Others	4.06	0.07	2	1	0	0	1
2022.17	Global	4.01	0.18	30	7	7	0	0
2022.18	Colorimetry	9.88	0.37	10	5	5	0	0
2022.18	FAAS	9.85	0.41	5	1	0	0	1
2022.18	Others	9.93	0.15	2	1	0	0	1
2022.18	Global	9.86	0.41	30	7	7	0	0
2022.19	Colorimetry	11.59	0.21	9	4	4	0	0
2022.19	FAAS	12.05	0.37	5	1	0	0	1
2022.19	Others	12.08	0.05	2	1	0	0	1
2022.19	Global	11.99	0.43	28	6	5	1	0
2022.20	Colorimetry	7.77	0.1	9	4	4	0	0
2022.20	FAAS	7.92	0.27	5	1	0	0	1
2022.20	Others	8.16	0.08	2	1	0	0	1
2022.20	Global	7.95	0.31	28	6	6	0	0
2022.21	Colorimetry	20.33	0.58	10	5	5	0	0
2022.21	FAAS	21.38	1.66	5	1	0	0	1
2022.21	Others	21.45	1.08	2	1	0	0	1
2022.21	Global	20.95	1.05	30	7	7	0	0
2022.22	Colorimetry	0.86	0.3	10	5	5	0	0
2022.22	FAAS	0.83	0.09	5	1	0	0	1
2022.22	Others	0.86	0.13	2	1	0	0	1
2022.22	Global	0.83	0.15	30	7	6	1	0
2022.23	Colorimetry	16.89	0.15	8	4	4	0	0
2022.23	FAAS	17.8	1.38	5	1	0	0	1
2022.23	Others	17.91	0.26	2	1	0	0	1
2022.23	Global	16.98	0.98	28	6	6	0	0
2022.24	Colorimetry	1.94	0.24	8	4	4	0	0
2022.24	FAAS	2.01	0.1	5	1	0	0	1
2022.24	Others	2.36	0.21	2	1	0	0	1
2022.24	Global	1.97	0.16	28	6	5	1	0



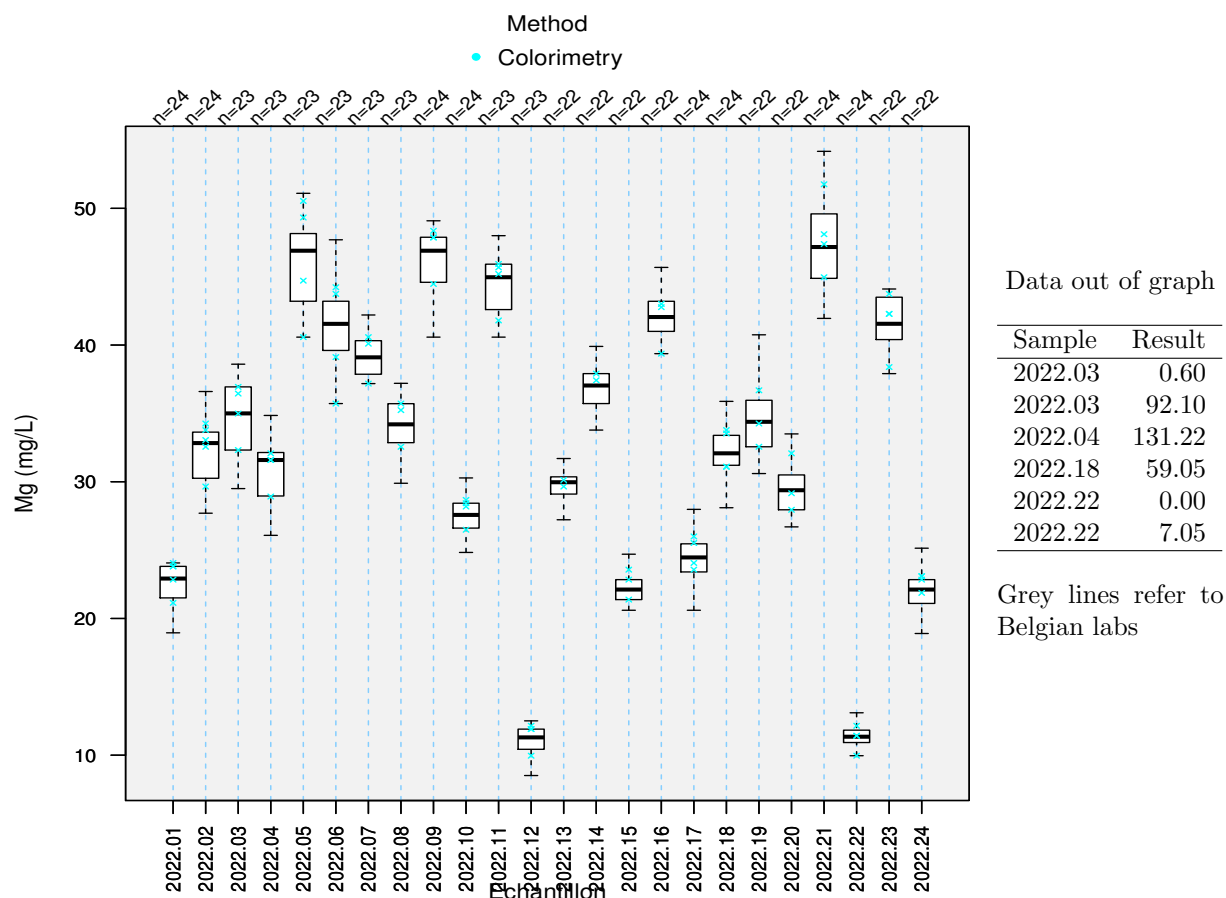
Data out of graph

Sample	Result
2022.09	0.00
2022.11	0.00
2022.12	0.00
2022.21	0.00
2022.22	0.00

Grey lines refer to Belgian labs

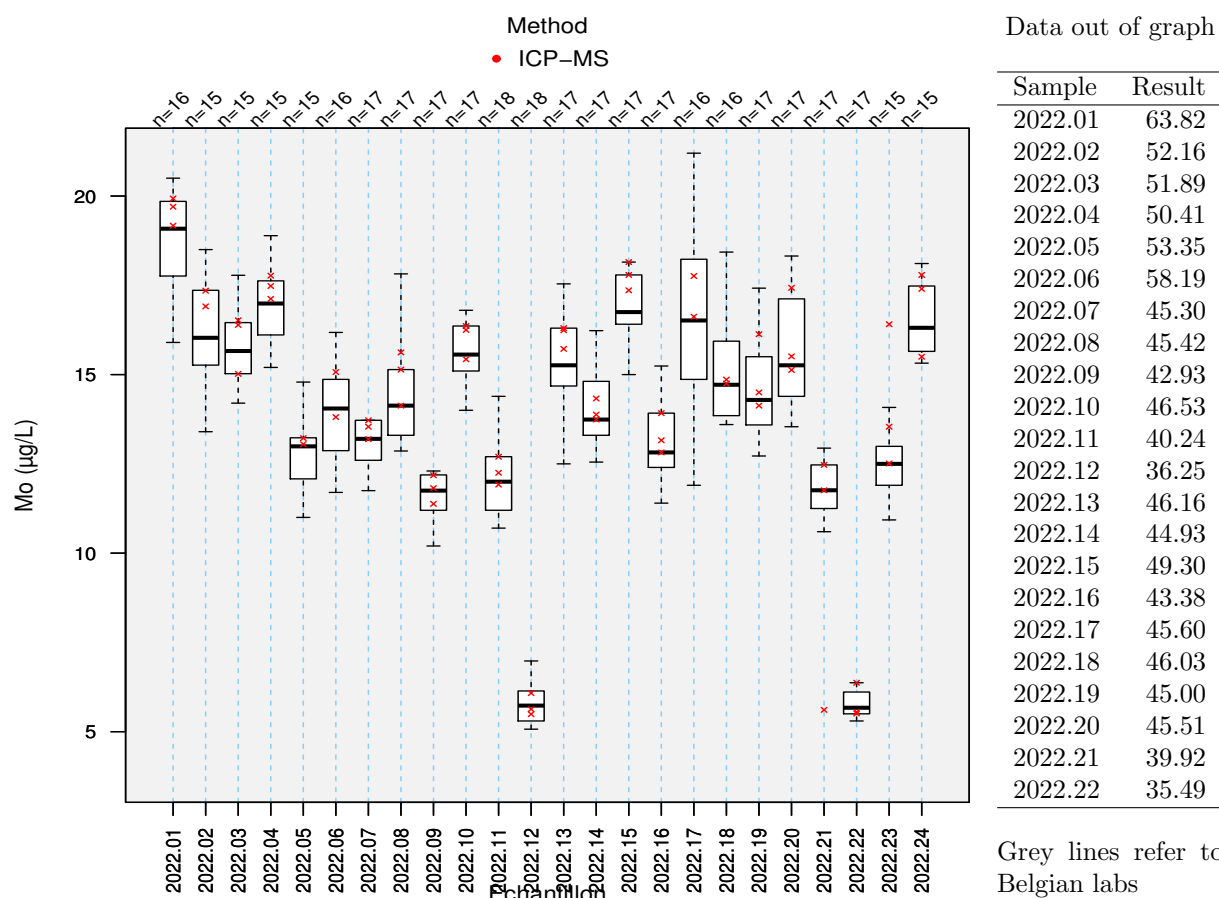
2.3.6 Mg

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	23	1.34	9	5	5	0	0
2022.02	Colorimetry	32.6	1.78	9	5	5	0	0
2022.03	Colorimetry	35	3.68	8	4	4	0	0
2022.04	Colorimetry	31.59	2.05	8	4	4	0	0
2022.05	Colorimetry	44.86	5.51	8	4	4	0	0
2022.06	Colorimetry	41.25	4.03	8	4	4	0	0
2022.07	Colorimetry	39.25	1	8	3	3	0	0
2022.08	Colorimetry	34.7	1.23	8	3	3	0	0
2022.09	Colorimetry	47.87	0.67	9	4	3	1	0
2022.10	Colorimetry	27.6	1.06	9	4	4	0	0
2022.11	Colorimetry	45.49	1.04	8	4	3	1	0
2022.12	Colorimetry	11.91	0.63	8	4	3	1	0
2022.13	Colorimetry	29.65	0.72	7	2	2	0	0
2022.14	Colorimetry	37.42	0.86	7	2	2	0	0
2022.15	Colorimetry	22.82	0.51	8	3	3	0	0
2022.16	Colorimetry	42.89	1.76	8	3	3	0	0
2022.17	Colorimetry	24.9	1.04	9	4	4	0	0
2022.18	Colorimetry	32	1.78	9	4	4	0	0
2022.19	Colorimetry	34.78	2.89	8	3	3	0	0
2022.20	Colorimetry	29.53	1.86	8	3	3	0	0
2022.21	Colorimetry	47.9	3.04	9	4	4	0	0
2022.22	Colorimetry	11.42	0.74	9	4	4	0	0
2022.23	Colorimetry	42.28	2.83	8	4	4	0	0
2022.24	Colorimetry	22.96	1.03	8	4	4	0	0



2.3.7 Mo

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	19.09	1.5	16	3	3	0	0
2022.02	ICP-MS	16.03	1.55	15	2	2	0	0
2022.03	ICP-MS	15.66	1.06	15	3	3	0	0
2022.04	ICP-MS	16.99	1.12	15	3	3	0	0
2022.05	ICP-MS	12.99	0.85	15	2	2	0	0
2022.06	ICP-MS	14.05	1.33	16	2	2	0	0
2022.07	ICP-MS	13.2	0.83	17	3	3	0	0
2022.08	ICP-MS	14.13	1.36	17	3	3	0	0
2022.09	ICP-MS	11.75	0.73	17	3	3	0	0
2022.10	ICP-MS	15.56	0.93	17	3	3	0	0
2022.11	ICP-MS	12	1.03	18	3	3	0	0
2022.12	ICP-MS	5.73	0.59	18	3	3	0	0
2022.13	ICP-MS	15.26	1.2	17	3	3	0	0
2022.14	ICP-MS	13.74	1.12	17	3	3	0	0
2022.15	ICP-MS	16.75	1.02	17	3	3	0	0
2022.16	ICP-MS	12.82	1.13	17	3	3	0	0
2022.17	ICP-MS	16.52	2.27	16	2	2	0	0
2022.18	ICP-MS	14.71	1.28	16	2	2	0	0
2022.19	ICP-MS	14.29	1.42	17	3	3	0	0
2022.20	ICP-MS	15.26	2.02	17	3	3	0	0
2022.21	ICP-MS	11.76	0.9	17	3	2	1	0
2022.22	ICP-MS	5.67	0.45	17	3	3	0	0
2022.23	ICP-MS	12.5	0.81	15	3	2	1	0
2022.24	ICP-MS	16.31	1.36	15	3	3	0	0

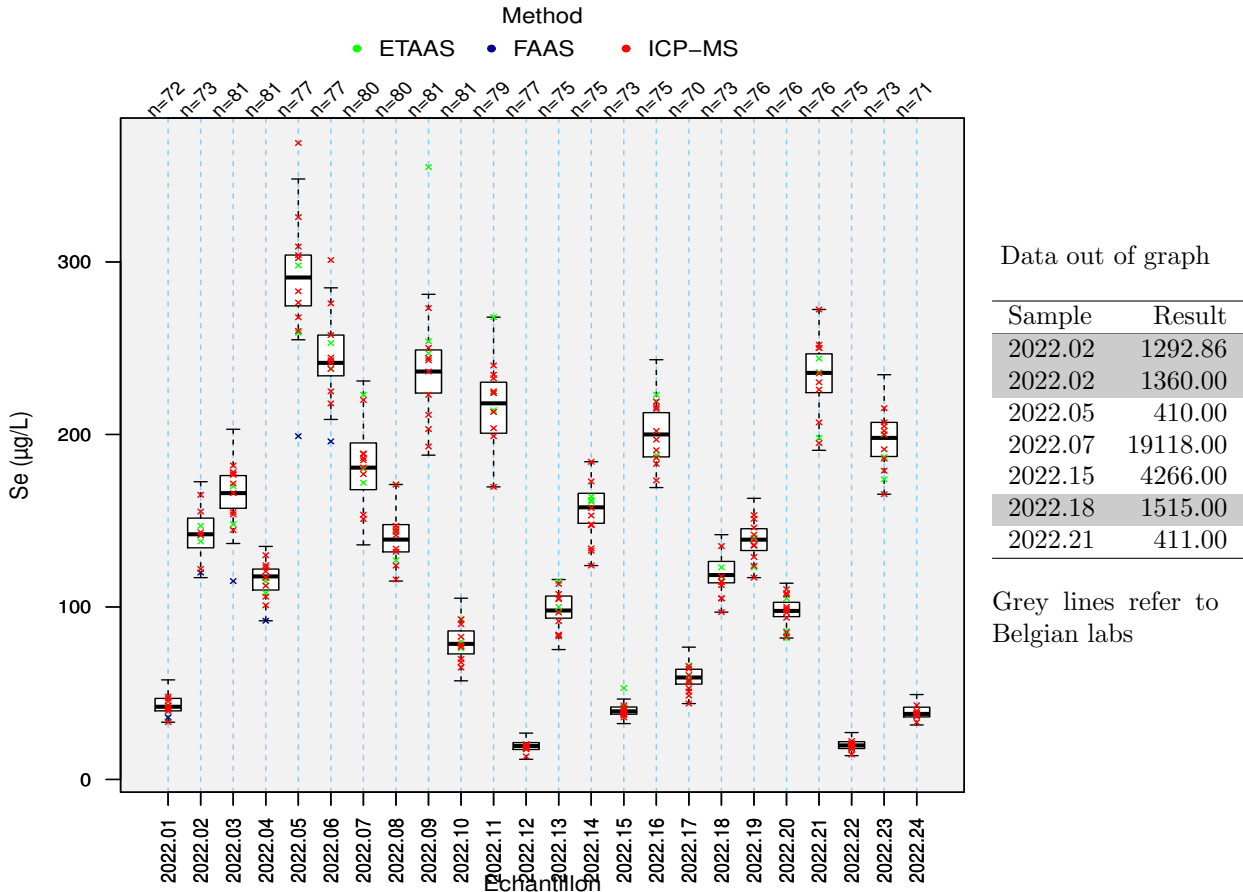


2.3.8 Se

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	42.66	5.19	15	1	1	0	0
2022.01	FAAS	39.5	2.59	2	1	0	0	1
2022.01	ICP-MS	42.1	5.36	55	9	9	0	0
2022.01	Global	42.15	5.3	72	11	11	0	0
2022.02	ETAAS	139.04	9.37	17	2	2	0	0
2022.02	FAAS	130.5	7.78	2	1	0	0	1
2022.02	ICP-MS	142.58	14.84	54	8	6	2	0
2022.02	Global	142.14	12.75	73	11	9	2	0
2022.03	ETAAS	165.9	4.8	17	2	1	1	0
2022.03	FAAS	145.34	22.49	2	1	0	0	1
2022.03	ICP-MS	166.34	14.97	62	9	9	0	0
2022.03	Global	166	14.06	81	12	11	1	0
2022.04	ETAAS	116.92	3.71	17	2	2	0	0
2022.04	FAAS	105.43	9.96	2	1	0	0	1
2022.04	ICP-MS	118.1	9.06	62	9	9	0	0
2022.04	Global	117.71	9.01	81	12	12	0	0
2022.05	ETAAS	289.14	22.67	15	2	2	0	0
2022.05	FAAS	236.78	28.01	2	1	0	0	1
2022.05	ICP-MS	292.3	23.44	60	9	8	1	0
2022.05	Global	291	21.82	77	12	10	2	0
2022.06	ETAAS	243.32	19.35	15	2	2	0	0
2022.06	FAAS	213.67	13.1	2	1	0	0	1
2022.06	ICP-MS	241.62	15.71	60	9	8	1	0
2022.06	Global	241.5	17.5	77	12	11	1	0
2022.07	ETAAS	173	19.56	17	3	3	0	0
2022.07	ICP-MS	181.85	18.33	62	9	9	0	0
2022.08	ETAAS	135.88	12.6	17	3	3	0	0
2022.08	ICP-MS	140.75	11.66	62	9	9	0	0
2022.09	ETAAS	228.5	18.96	18	3	2	1	0
2022.09	ICP-MS	240.26	15.75	62	9	9	0	0
2022.10	ETAAS	76.7	11.09	18	3	3	0	0
2022.10	ICP-MS	79	8.93	62	9	9	0	0
2022.11	ETAAS	215	18.74	17	3	3	0	0
2022.11	ICP-MS	218.77	21.45	62	9	9	0	0
2022.12	ETAAS	19.4	4.53	15	2	2	0	0
2022.12	ICP-MS	19.48	2.95	62	9	9	0	0
2022.13	ETAAS	95.59	13.08	17	3	3	0	0
2022.13	ICP-MS	99.93	9.69	58	9	9	0	0
2022.14	ETAAS	160.37	14.4	17	3	3	0	0
2022.14	ICP-MS	157.27	15.63	58	9	9	0	0
2022.15	ETAAS	39.5	3.9	15	2	1	1	0
2022.15	ICP-MS	39.5	3.22	58	9	9	0	0
2022.16	ETAAS	190.39	23.43	17	3	3	0	0
2022.16	ICP-MS	200.88	16.18	58	9	9	0	0
2022.17	ETAAS	57.17	6.18	16	2	2	0	0
2022.17	ICP-MS	60.01	6.33	54	9	9	0	0
2022.18	ETAAS	115	6.73	18	3	3	0	0
2022.18	ICP-MS	119.29	11.29	55	9	8	1	0
2022.19	ETAAS	136.67	5.8	17	3	3	0	0
2022.19	ICP-MS	139.71	10.13	58	10	10	0	0
2022.20	ETAAS	98.7	6.8	17	3	3	0	0
2022.20	ICP-MS	97.7	6.74	58	10	10	0	0
2022.21	ETAAS	235.5	14.69	16	3	3	0	0
2022.21	ICP-MS	235.4	17.84	59	9	9	0	0
2022.22	ETAAS	19.1	4.23	15	2	2	0	0
2022.22	ICP-MS	19.75	2.86	59	9	9	0	0
2022.23	ETAAS	200	24.49	17	3	3	0	0
2022.23	ICP-MS	198	13.43	55	9	9	0	0
2022.24	ETAAS	36.4	1.51	15	2	2	0	0

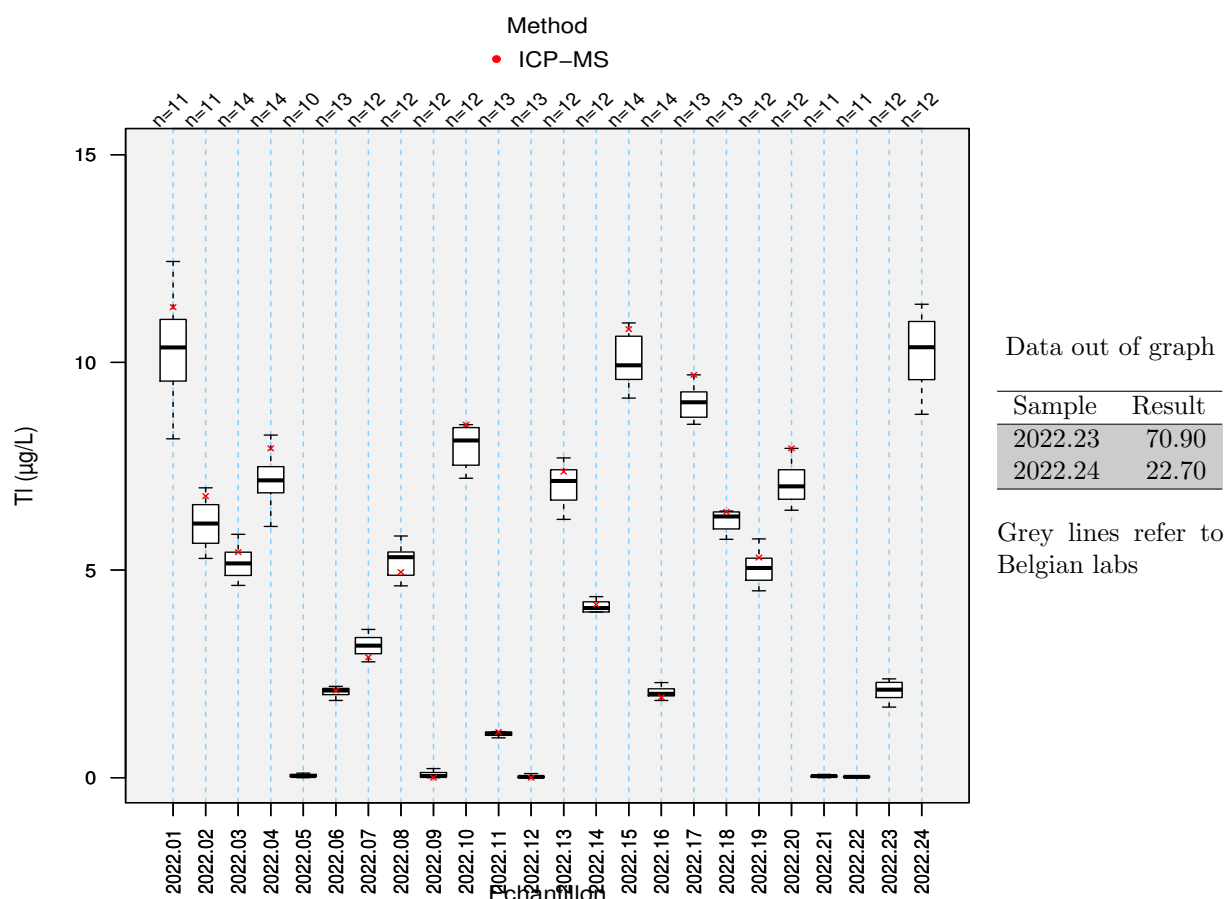
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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.24	ICP-MS	39.3	4.25	55	9	9	0	0



2.3.9 Tl

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	10.36	1.1	11	1	1	0	0
2022.02	ICP-MS	6.12	0.69	11	1	1	0	0
2022.03	ICP-MS	5.16	0.37	14	1	1	0	0
2022.04	ICP-MS	7.16	0.43	14	1	1	0	0
2022.06	ICP-MS	2.1	0.11	13	1	1	0	0
2022.07	ICP-MS	3.18	0.25	12	1	1	0	0
2022.08	ICP-MS	5.31	0.37	12	1	1	0	0
2022.09	ICP-MS	0.04	0.05	12	1	1	0	0
2022.10	ICP-MS	8.12	0.55	12	1	1	0	0
2022.11	ICP-MS	1.06	0.06	13	1	1	0	0
2022.12	ICP-MS	0.02	0.03	13	1	1	0	0
2022.13	ICP-MS	7.14	0.5	12	1	1	0	0
2022.14	ICP-MS	4.08	0.16	12	1	1	0	0
2022.15	ICP-MS	9.93	0.72	14	1	1	0	0
2022.16	ICP-MS	2.02	0.11	14	1	1	0	0
2022.17	ICP-MS	9.04	0.45	13	1	1	0	0
2022.18	ICP-MS	6.29	0.3	13	1	1	0	0
2022.19	ICP-MS	5.05	0.33	12	1	1	0	0
2022.20	ICP-MS	7.02	0.51	12	1	1	0	0
2022.23	ICP-MS	2.12	0.24	12	1	0	1	0
2022.24	ICP-MS	10.36	0.75	12	1	0	1	0



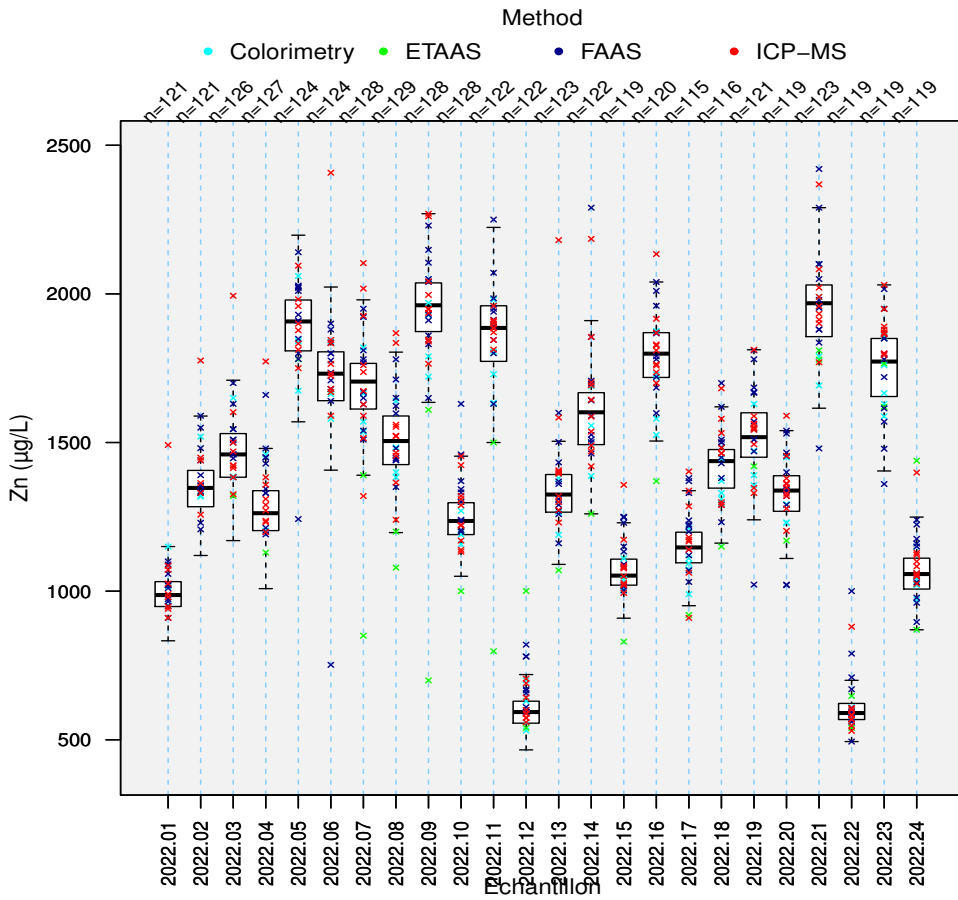
2.3.10 Zn

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	Colorimetry	952	78.43	19	3	3	0	0
2022.01	ETAAS	945.03	232.86	4	1	0	0	1
2022.01	FAAS	1013.7	57.78	43	11	11	0	0
2022.01	ICP-MS	981	53.24	51	9	8	1	0
2022.01	Global	986.89	62.05	121	24	22	2	0
2022.02	Colorimetry	1312.84	133.81	20	3	3	0	0
2022.02	ETAAS	1297.27	267.43	4	1	0	0	1
2022.02	FAAS	1367	99.36	43	11	11	0	0
2022.02	ICP-MS	1356.39	71.44	50	8	5	3	0
2022.02	Global	1347.24	90.51	121	23	19	4	0
2022.03	Colorimetry	1386	198.77	17	2	2	0	0
2022.03	ETAAS	1437.28	76.08	4	1	0	0	1
2022.03	FAAS	1483.27	81.99	43	11	11	0	0
2022.03	ICP-MS	1462	85.09	57	9	8	1	0
2022.03	Global	1460	107.71	126	23	22	1	0
2022.04	Colorimetry	1177.2	135.75	17	2	2	0	0
2022.04	ETAAS	1283.22	119.36	4	1	0	0	1
2022.04	FAAS	1281.25	99.29	44	11	10	1	0
2022.04	ICP-MS	1262.22	77.18	57	9	8	1	0
2022.04	Global	1262.22	99.5	127	23	21	2	0
2022.05	Colorimetry	1786.55	210.41	20	4	4	0	0
2022.05	ETAAS	1900	67.46	3	1	0	0	1
2022.05	FAAS	1930	144.81	41	11	10	1	0
2022.05	ICP-MS	1909	109.26	55	9	8	1	0
2022.05	Global	1907.21	124.72	124	25	23	2	0
2022.06	Colorimetry	1655	178.17	20	4	4	0	0
2022.06	ETAAS	1710	35.51	3	1	0	0	1
2022.06	FAAS	1760	116.27	41	11	10	1	0
2022.06	ICP-MS	1732.28	105.4	55	9	8	1	0
2022.06	Global	1731.64	121.49	124	25	23	2	0
2022.07	Colorimetry	1569.6	208.47	17	4	4	0	0
2022.07	ETAAS	1541.93	350.74	4	2	0	0	2
2022.07	FAAS	1713.48	73.08	44	10	9	1	0
2022.07	ICP-MS	1713.74	73.42	58	10	7	3	0
2022.07	Global	1704.98	112.62	128	26	23	3	0
2022.08	Colorimetry	1379.94	227.73	17	4	4	0	0
2022.08	ETAAS	1384.8	301.24	4	2	0	0	2
2022.08	FAAS	1530.36	119.78	45	10	10	0	0
2022.08	ICP-MS	1519.14	77.14	58	10	7	3	0
2022.08	Global	1505	121.2	129	26	25	1	0
2022.09	Colorimetry	1726.56	218.59	15	5	5	0	0
2022.09	ETAAS	1786	445.38	4	2	0	0	2
2022.09	FAAS	1978.35	136.88	46	10	10	0	0
2022.09	ICP-MS	1961	87.9	58	10	8	2	0
2022.09	Global	1961.67	119.04	128	27	26	1	0
2022.10	Colorimetry	1183.74	108.35	15	5	5	0	0
2022.10	ETAAS	1219.71	75.26	4	2	0	0	2
2022.10	FAAS	1261.11	89.45	46	10	9	1	0
2022.10	ICP-MS	1222.82	72.81	58	10	9	1	0
2022.10	Global	1236.06	78.51	128	27	25	2	0
2022.11	Colorimetry	1768	273.93	16	5	5	0	0
2022.11	ETAAS	1698.3	424.12	4	2	0	0	2
2022.11	FAAS	1911.5	117.83	40	10	10	0	0
2022.11	ICP-MS	1884	129.42	57	9	9	0	0
2022.11	Global	1885.5	136.32	122	26	25	1	0
2022.12	Colorimetry	587	80.6	16	5	5	0	0
2022.12	ETAAS	618.03	118.09	4	2	0	0	2
2022.12	FAAS	614.25	46.33	40	10	7	3	0
2022.12	ICP-MS	582.06	39.71	57	9	8	1	0
2022.12	Global	593.25	54.26	122	26	22	4	0

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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.13	Colorimetry	1265	248.34	17	4	4	0	0
2022.13	ETAAS	1229.52	88.21	3	1	0	0	1
2022.13	FAAS	1314.9	86.34	43	10	9	1	0
2022.13	ICP-MS	1342.01	74.75	55	10	8	2	0
2022.13	Global	1325	93.92	123	25	24	1	0
2022.14	Colorimetry	1500	307.64	17	4	4	0	0
2022.14	ETAAS	1497.66	172.93	3	1	0	0	1
2022.14	FAAS	1611.15	101.69	42	10	9	1	0
2022.14	ICP-MS	1617	106.17	55	10	9	1	0
2022.14	Global	1601.65	127.77	122	25	23	2	0
2022.15	Colorimetry	1030	168.23	17	5	5	0	0
2022.15	ETAAS	915.31	63.24	2	1	0	0	1
2022.15	FAAS	1080	77.77	41	10	10	0	0
2022.15	ICP-MS	1064	54.9	55	10	9	1	0
2022.15	Global	1052.29	64.78	119	26	21	5	0
2022.16	Colorimetry	1720	230.69	17	5	5	0	0
2022.16	ETAAS	1476.34	78.83	2	1	0	0	1
2022.16	FAAS	1795	111.96	42	10	10	0	0
2022.16	ICP-MS	1811.58	90.06	55	10	9	1	0
2022.16	Global	1798.92	111.14	120	26	24	2	0
2022.17	Colorimetry	1083.67	103.16	16	5	5	0	0
2022.17	ETAAS	983.2	46.85	2	1	0	0	1
2022.17	FAAS	1156.17	63.47	42	11	9	2	0
2022.17	ICP-MS	1156.26	59.32	50	9	6	3	0
2022.17	Global	1147	76.24	115	26	23	3	0
2022.18	Colorimetry	1309	130.39	16	5	5	0	0
2022.18	ETAAS	1242.08	68.26	2	1	0	0	1
2022.18	FAAS	1435.65	84.22	42	11	10	1	0
2022.18	ICP-MS	1443	68.37	51	9	7	2	0
2022.18	Global	1437.42	91.04	116	26	24	2	0
2022.19	Colorimetry	1587	187.35	15	4	4	0	0
2022.19	ETAAS	1462.1	31.21	2	1	0	0	1
2022.19	FAAS	1525	127.51	45	11	10	1	0
2022.19	ICP-MS	1515.64	90	54	10	9	1	0
2022.19	Global	1518	110.77	121	26	25	1	0
2022.20	Colorimetry	1230.6	224.39	14	4	4	0	0
2022.20	ETAAS	1222.65	39.03	2	1	0	0	1
2022.20	FAAS	1346.62	82.69	44	11	9	2	0
2022.20	ICP-MS	1339.56	62.04	54	10	9	1	0
2022.20	Global	1338.4	88.67	119	26	24	2	0
2022.21	Colorimetry	1691.8	299.34	17	5	5	0	0
2022.21	ETAAS	1810	152.72	3	2	0	0	2
2022.21	FAAS	1992.08	78.76	43	11	8	3	0
2022.21	ICP-MS	1975.08	125.91	55	9	8	1	0
2022.21	Global	1968.54	128.84	123	27	24	3	0
2022.22	Colorimetry	570	129.6	15	5	5	0	0
2022.22	ETAAS	647.46	59.22	3	2	0	0	2
2022.22	FAAS	601.68	40.39	41	11	9	2	0
2022.22	ICP-MS	588.6	41.76	55	9	8	1	0
2022.22	Global	590	40.2	119	27	24	3	0
2022.23	Colorimetry	1619.42	254.86	16	5	5	0	0
2022.23	ETAAS	1733.1	54.04	3	2	0	0	2
2022.23	FAAS	1779.24	147.59	44	11	11	0	0
2022.23	ICP-MS	1786.35	104.01	52	9	9	0	0
2022.23	Global	1772.34	144.74	119	27	27	0	0
2022.24	Colorimetry	1031.99	190.32	16	5	5	0	0
2022.24	ETAAS	1052.94	210.83	3	2	0	0	2
2022.24	FAAS	1059.81	98.84	44	11	11	0	0
2022.24	ICP-MS	1063.01	63.98	52	9	8	1	0
2022.24	Global	1057.52	76.96	119	27	25	2	0

Data out of graph



Sample	Result
2022.01	0.86
2022.02	1.29
2022.02	162.59
2022.02	147.00
2022.02	1.31
2022.03	4050.00
2022.04	188.00
2022.05	2639.57
2022.06	3010.00
2022.06	160.00
2022.07	15.80
2022.07	2557.14
2022.08	155.00
2022.08	14.10
2022.09	174.00
2022.09	181.00
2022.09	1.94
2022.10	116.00
2022.10	1.20
2022.11	175.08
2022.11	187.30
2022.11	1.92
2022.12	63.22
2022.12	0.59
2022.12	319.81
2022.13	109.00
2022.13	157.40
2022.13	116.00
2022.14	134.00
2022.14	128.00
2022.18	128.50
2022.21	79.00
2022.21	2.20
2022.21	2753.34
2022.22	307.00
2022.22	370.00
2022.22	294.30

Grey lines refer to Belgian labs

3 TRACE ELEMENTS IN BLOOD

3.1 PARTICIPATION

15 laboratories participated to the EQA for blood matrix.

Parameter	N labs	Recorded results	Expected number of results	percentage
As	4	94	96	97.9 %
Cd	11	241	288	91.3 %
Co	5	116	120	96.7 %
Cr	5	118	120	98.3 %
Hg	7	142	168	84.5 %
Mg	3	50	72	69.4 %
Mn	8	168	192	87.5 %
Pb	14	302	360	89.9 %
Se	3	72	72	100 %
Tl	5	116	120	96.7 %
Zn	2	48	48	100 %
Total		1467	1656	88.59

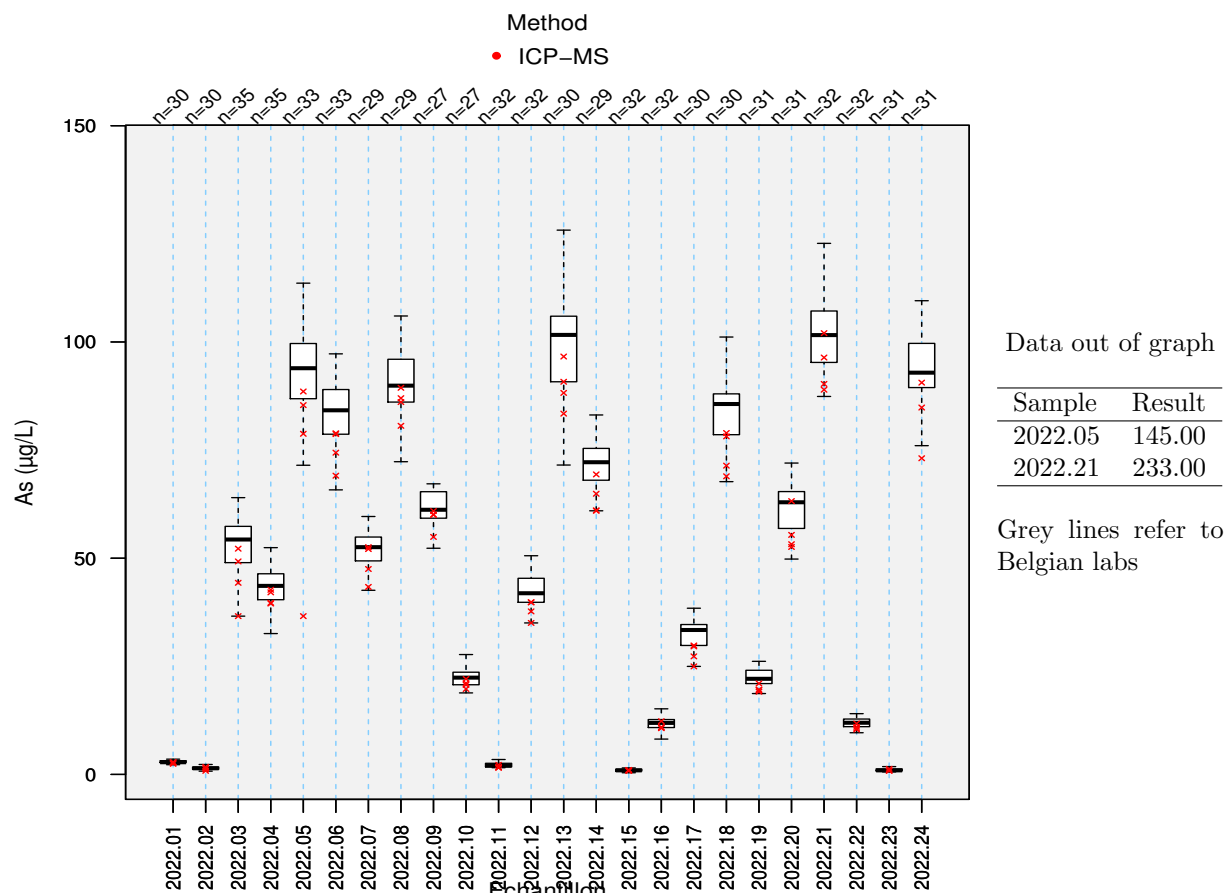
3.2 GLOBAL RESULTS

STAT	Element	Total number of results	Number of evaluated results	Number of Z citations	% citations
MA	As	94	94	1	1.1
MA	Cd	241	235	17	7.2
MA+GA	Cd	241	241 (+6)	23 (+6)	9.5
MA	Co	116	116	10	8.6
MA	Cr	118	118	5	4.2
MA	Hg	142	142	4	2.8
MA	Mg	50	48	0	0
MA+GA	Mg	50	50 (+2)	2 (+2)	4
MA	Mn	168	166	8	4.8
MA+GA	Mn	168	168 (+2)	9 (+1)	5.4
MA	Pb	302	296	21	7.1
MA+GA	Pb	302	302 (+6)	21	7
MA	Se	72	72	1	1.4
MA	Tl	116	116	12	10.3
MA	Zn	48	48	1	2.1
Total	MA+GA	1467	1467	89	6.1
	MA	1467	1451	80	5.5

3.3 RESULTS PER ELEMENT

3.3.1 As

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	2.87	0.33	28	4	4	0	0
2022.02	ICP-MS	1.42	0.29	28	4	4	0	0
2022.03	ICP-MS	54.32	6.66	33	4	4	0	0
2022.04	ICP-MS	43.38	4.37	33	4	4	0	0
2022.05	ICP-MS	94.35	10	32	4	3	1	0
2022.06	ICP-MS	84.47	7.76	32	4	4	0	0
2022.07	ICP-MS	52.33	4.15	28	4	4	0	0
2022.08	ICP-MS	89.65	6.97	28	4	4	0	0
2022.09	ICP-MS	61.05	4.45	26	4	4	0	0
2022.10	ICP-MS	22.27	1.9	26	4	4	0	0
2022.11	ICP-MS	2.03	0.57	31	4	4	0	0
2022.12	ICP-MS	41.39	3.84	31	4	4	0	0
2022.13	ICP-MS	101.37	11	29	4	4	0	0
2022.14	ICP-MS	72.09	6.02	28	4	4	0	0
2022.15	ICP-MS	0.98	0.3	31	4	4	0	0
2022.16	ICP-MS	11.84	1.36	31	4	4	0	0
2022.17	ICP-MS	33.5	3.59	29	4	4	0	0
2022.18	ICP-MS	85.7	6.71	29	4	4	0	0
2022.19	ICP-MS	22.3	2.29	30	4	4	0	0
2022.20	ICP-MS	62.31	6.68	30	4	4	0	0
2022.21	ICP-MS	102.04	8.81	31	4	4	0	0
2022.22	ICP-MS	11.81	1.28	31	4	4	0	0
2022.23	ICP-MS	0.96	0.35	30	3	3	0	0
2022.24	ICP-MS	93.57	7.95	30	3	3	0	0

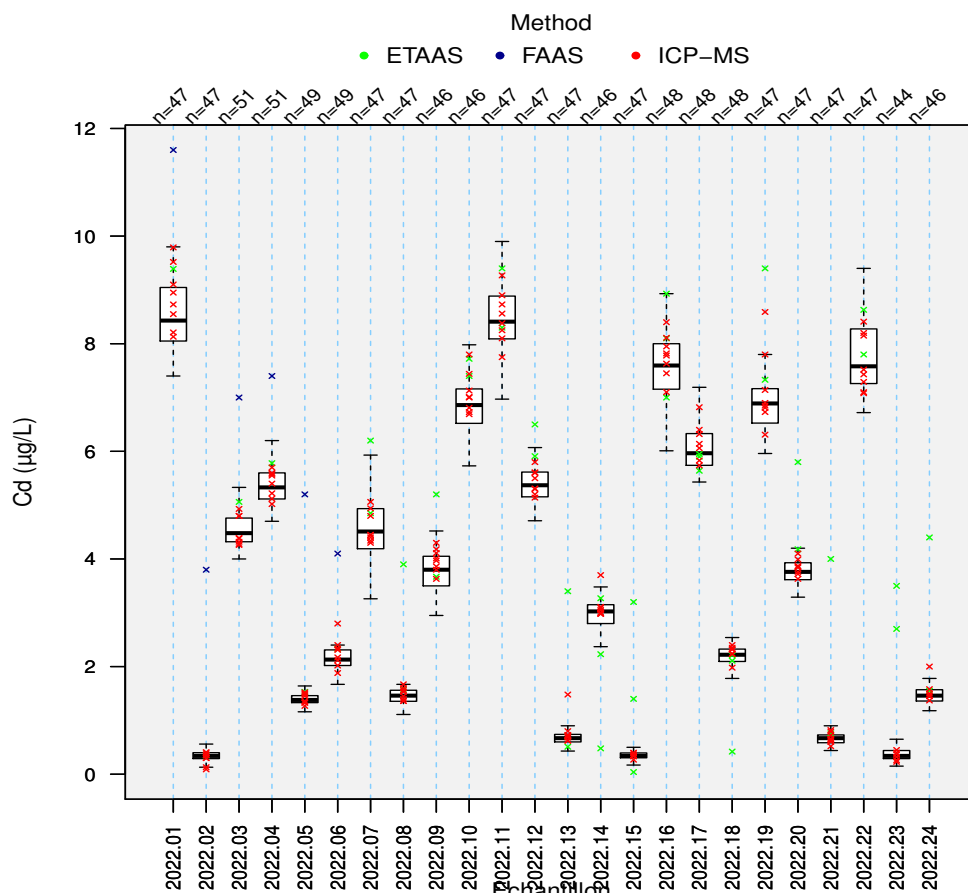


3.3.2 Cd

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	8.3	0.92	7	1	1	0	0
2022.01	FAAS	11.6	0	1	1	0	0	1
2022.01	ICP-MS	8.43	0.63	39	8	8	0	0
2022.01	Global	8.43	0.74	47	10	9	1	0
2022.02	ETAAS	0.35	0.15	7	1	1	0	0
2022.02	FAAS	3.8	0	1	1	0	0	1
2022.02	ICP-MS	0.34	0.07	39	8	7	1	0
2022.02	Global	0.34	0.08	47	10	8	2	0
2022.03	ETAAS	4.7	0.34	6	1	1	0	0
2022.03	FAAS	7	0	1	1	0	0	1
2022.03	ICP-MS	4.46	0.3	44	8	8	0	0
2022.03	Global	4.48	0.33	51	10	9	1	0
2022.04	ETAAS	5.03	0.23	6	1	0	1	0
2022.04	FAAS	7.4	0	1	1	0	0	1
2022.04	ICP-MS	5.36	0.33	44	8	8	0	0
2022.04	Global	5.33	0.36	51	10	9	1	0
2022.05	ETAAS	1.38	0.12	6	1	1	0	0
2022.05	FAAS	5.2	0	1	1	0	0	1
2022.05	ICP-MS	1.38	0.1	42	8	8	0	0
2022.05	Global	1.38	0.1	49	10	9	1	0
2022.06	ETAAS	2.18	0.16	6	1	1	0	0
2022.06	FAAS	4.1	0	1	1	0	0	1
2022.06	ICP-MS	2.13	0.21	42	8	7	1	0
2022.06	Global	2.13	0.21	49	10	8	2	0
2022.07	ETAAS	5.06	1.19	6	2	2	0	0
2022.07	ICP-MS	4.5	0.46	41	8	8	0	0
2022.08	ETAAS	1.56	0.26	6	2	1	1	0
2022.08	ICP-MS	1.46	0.16	41	8	8	0	0
2022.09	ETAAS	3.8	0.77	7	2	2	0	0
2022.09	ICP-MS	3.8	0.33	39	8	8	0	0
2022.10	ETAAS	7.4	0.75	7	2	2	0	0
2022.10	ICP-MS	6.86	0.43	39	8	8	0	0
2022.11	ETAAS	8.2	0.77	6	2	2	0	0
2022.11	ICP-MS	8.41	0.59	41	8	8	0	0
2022.12	ETAAS	5.5	0.98	6	2	2	0	0
2022.12	ICP-MS	5.37	0.32	41	8	8	0	0
2022.13	ETAAS	0.53	0.09	8	3	2	1	0
2022.13	ICP-MS	0.69	0.07	39	8	7	1	0
2022.14	ETAAS	2.56	0.49	8	3	2	1	0
2022.14	ICP-MS	3.03	0.14	38	8	7	1	0
2022.15	ETAAS	0.31	0.39	8	3	2	1	0
2022.15	ICP-MS	0.34	0.05	39	8	8	0	0
2022.16	ETAAS	7.47	0.91	8	3	3	0	0
2022.16	ICP-MS	7.62	0.55	40	8	8	0	0
2022.17	ETAAS	5.89	0.21	10	3	3	0	0
2022.17	ICP-MS	6.06	0.46	38	7	7	0	0
2022.18	ETAAS	2.16	0.22	10	3	2	1	0
2022.18	ICP-MS	2.23	0.14	38	7	7	0	0
2022.19	ETAAS	7.16	0.89	8	2	2	0	0
2022.19	ICP-MS	6.88	0.36	39	8	7	1	0
2022.20	ETAAS	3.94	0.46	8	2	1	1	0
2022.20	ICP-MS	3.76	0.25	39	8	8	0	0
2022.21	ETAAS	0.64	0.24	8	2	1	1	0
2022.21	ICP-MS	0.67	0.08	39	8	8	0	0
2022.22	ETAAS	7.72	0.83	8	2	2	0	0
2022.22	ICP-MS	7.53	0.7	39	8	8	0	0
2022.23	ETAAS	0.46	0.69	8	2	0	2	0
2022.23	ICP-MS	0.34	0.07	36	6	6	0	0
2022.24	ETAAS	1.42	0.18	8	2	1	1	0

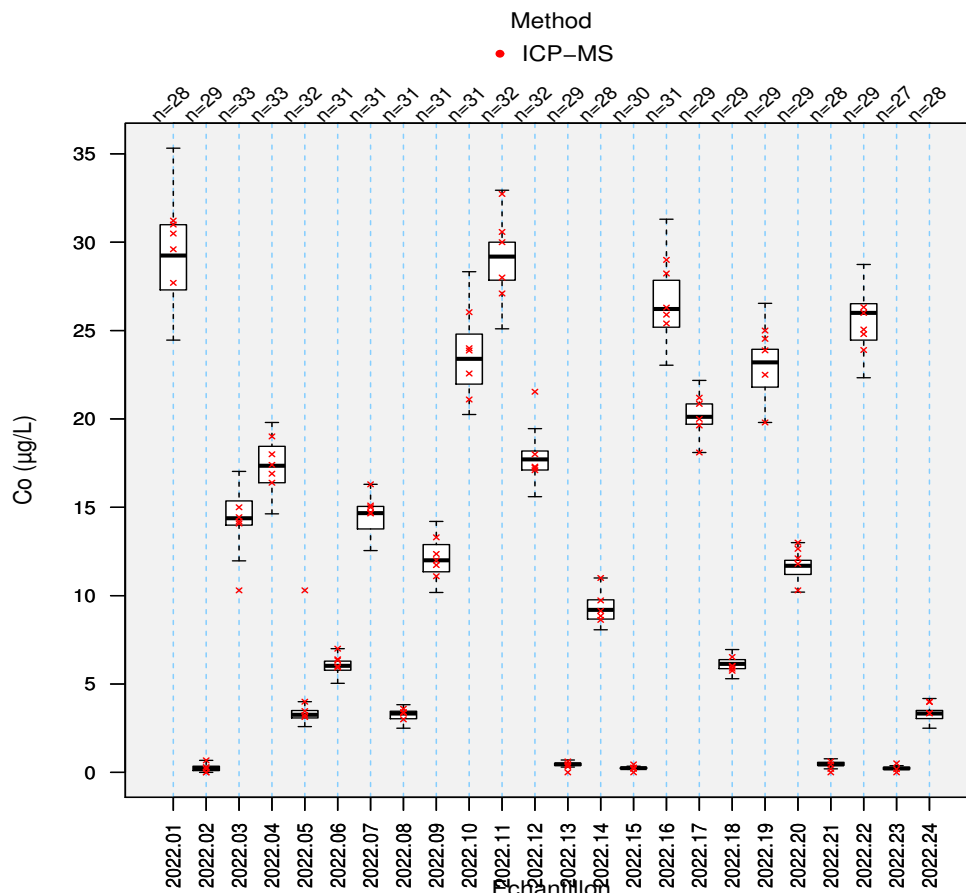
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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.24	ICP-MS	1.46	0.13	38	7	6	1	0



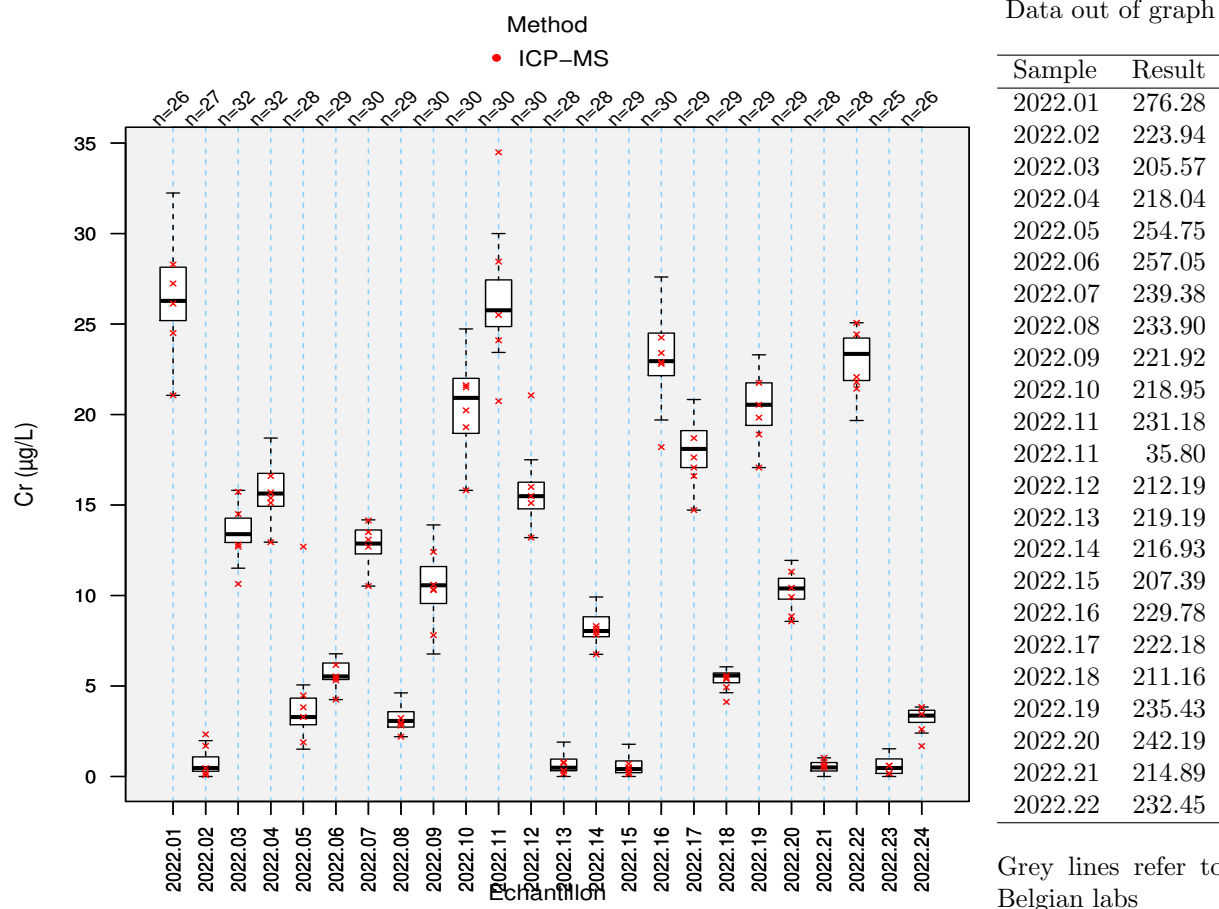
3.3.3 Co

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	29.25	2.36	26	5	5	0	0
2022.02	ICP-MS	0.24	0.14	27	5	4	1	0
2022.03	ICP-MS	14.44	1.01	31	5	4	1	0
2022.04	ICP-MS	17.4	1.36	31	5	5	0	0
2022.05	ICP-MS	3.25	0.32	30	5	4	1	0
2022.06	ICP-MS	6.03	0.42	29	5	5	0	0
2022.07	ICP-MS	14.7	0.96	29	5	5	0	0
2022.08	ICP-MS	3.33	0.28	29	5	5	0	0
2022.09	ICP-MS	12	1.01	29	5	5	0	0
2022.10	ICP-MS	23.63	2.08	29	5	5	0	0
2022.11	ICP-MS	29.27	1.41	30	5	5	0	0
2022.12	ICP-MS	17.88	0.81	30	5	4	1	0
2022.13	ICP-MS	0.46	0.09	28	5	4	1	0
2022.14	ICP-MS	9.25	0.76	27	5	5	0	0
2022.15	ICP-MS	0.24	0.05	28	5	3	2	0
2022.16	ICP-MS	26.22	1.65	29	5	5	0	0
2022.17	ICP-MS	20.08	0.93	28	5	5	0	0
2022.18	ICP-MS	6.16	0.37	28	5	5	0	0
2022.19	ICP-MS	23.24	1.52	28	5	5	0	0
2022.20	ICP-MS	11.72	0.57	28	5	5	0	0
2022.21	ICP-MS	0.45	0.1	27	4	3	1	0
2022.22	ICP-MS	26.05	1.37	28	5	5	0	0
2022.23	ICP-MS	0.22	0.07	26	3	1	2	0
2022.24	ICP-MS	3.34	0.3	27	4	4	0	0



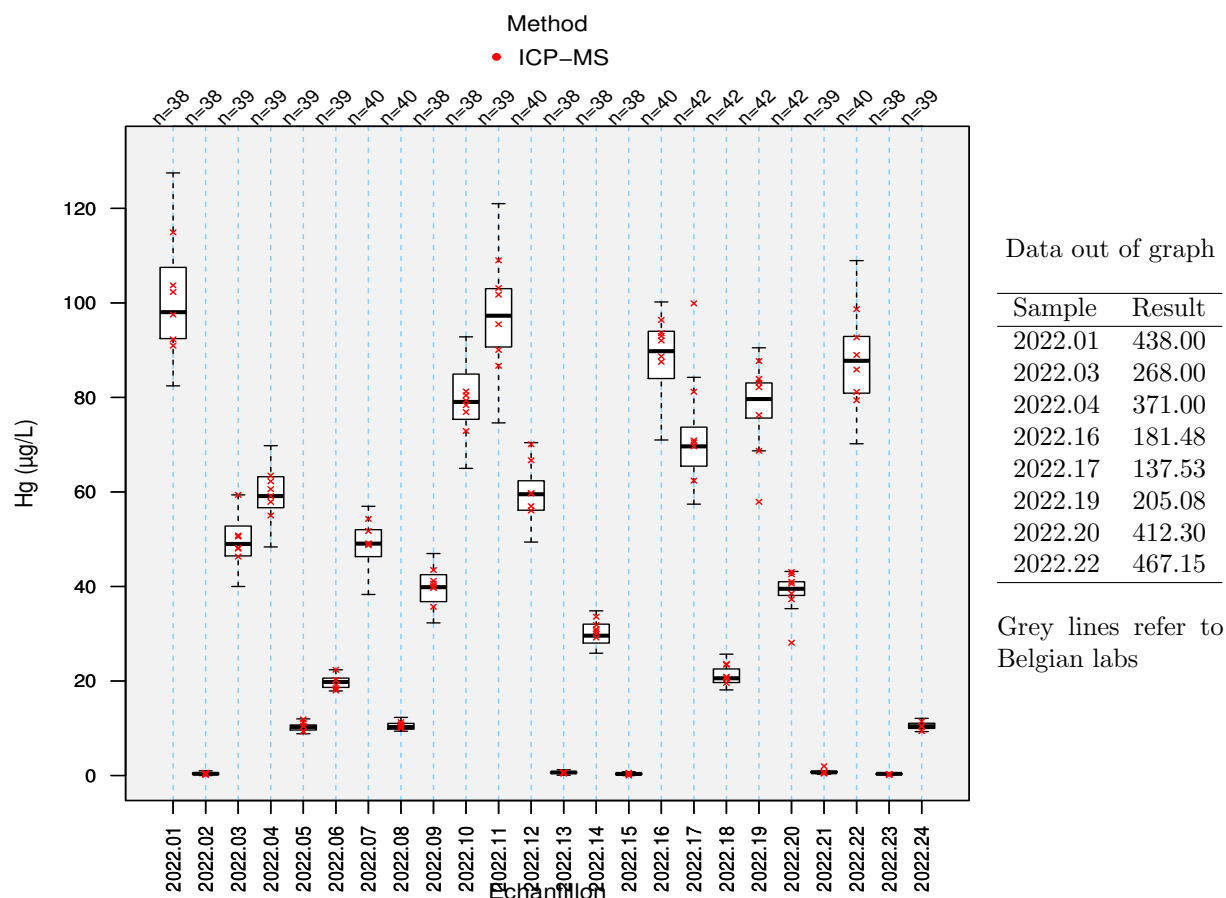
3.3.4 Cr

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	26.5	2.35	23	5	5	0	0
2022.02	ICP-MS	0.53	0.77	24	5	5	0	0
2022.03	ICP-MS	13.35	1.27	28	5	5	0	0
2022.04	ICP-MS	15.7	1.6	28	5	5	0	0
2022.05	ICP-MS	3.29	0.95	25	5	4	1	0
2022.06	ICP-MS	5.62	0.64	26	5	5	0	0
2022.07	ICP-MS	12.87	0.96	26	5	5	0	0
2022.08	ICP-MS	3.07	0.63	25	5	5	0	0
2022.09	ICP-MS	10.5	1.19	26	5	5	0	0
2022.10	ICP-MS	20.22	2.36	26	5	5	0	0
2022.11	ICP-MS	26.21	2.06	26	5	4	1	0
2022.12	ICP-MS	15.49	1.07	26	5	4	1	0
2022.13	ICP-MS	0.48	0.4	24	5	5	0	0
2022.14	ICP-MS	8.04	1.01	24	5	5	0	0
2022.15	ICP-MS	0.41	0.39	25	5	5	0	0
2022.16	ICP-MS	22.95	2.15	26	5	5	0	0
2022.17	ICP-MS	18	1.42	25	5	5	0	0
2022.18	ICP-MS	5.6	0.4	25	5	4	1	0
2022.19	ICP-MS	20.54	1.74	25	5	5	0	0
2022.20	ICP-MS	10.38	0.69	25	5	5	0	0
2022.21	ICP-MS	0.45	0.36	25	5	5	0	0
2022.22	ICP-MS	23.3	1.65	25	5	5	0	0
2022.23	ICP-MS	0.5	0.61	22	4	4	0	0
2022.24	ICP-MS	3.4	0.54	23	4	3	1	0



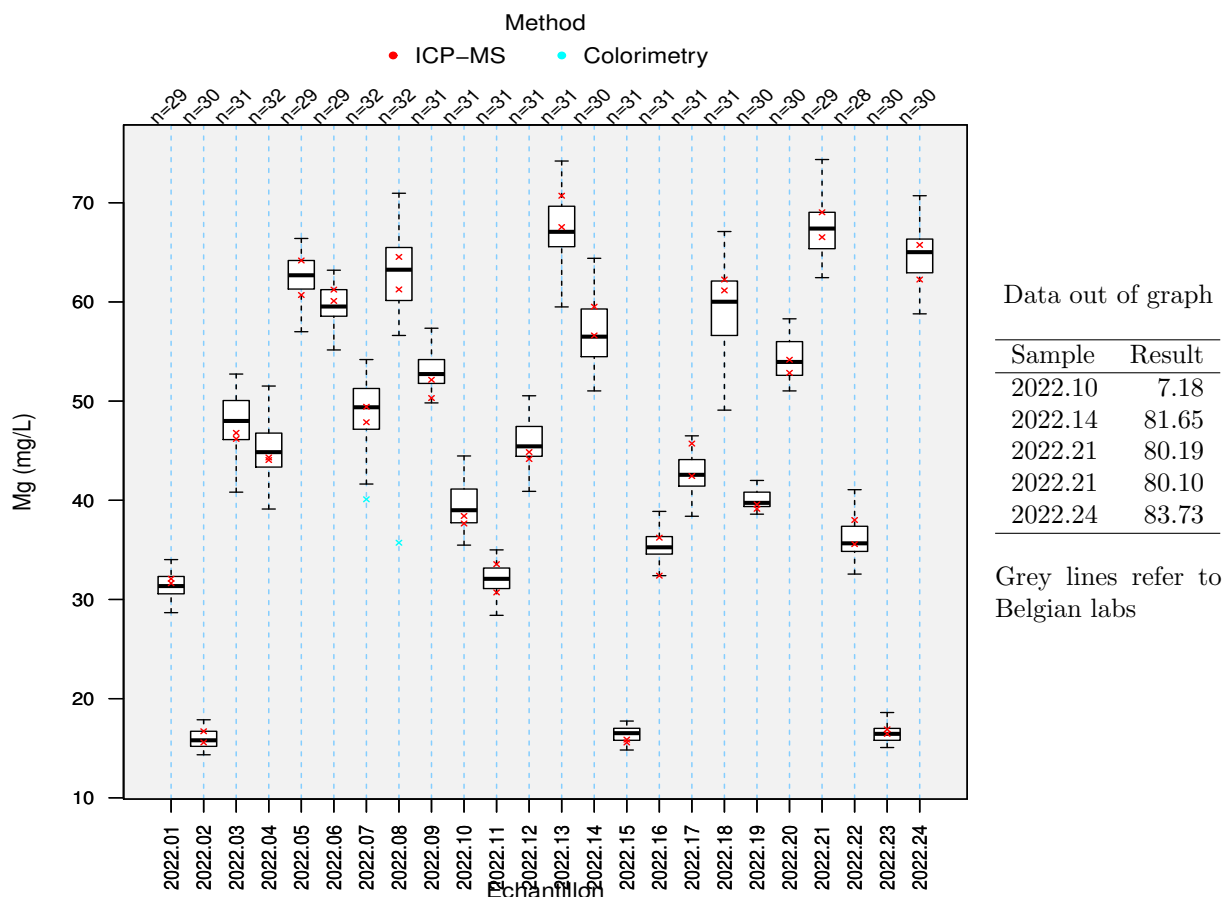
3.3.5 Hg

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	98.05	10.61	34	6	6	0	0
2022.02	ICP-MS	0.36	0.28	34	6	6	0	0
2022.03	ICP-MS	48.88	5.17	36	6	6	0	0
2022.04	ICP-MS	59.16	4.66	36	6	6	0	0
2022.05	ICP-MS	10.34	0.79	37	6	6	0	0
2022.06	ICP-MS	19.83	1.38	37	6	6	0	0
2022.07	ICP-MS	49.14	3.81	37	6	6	0	0
2022.08	ICP-MS	10.23	0.83	37	6	6	0	0
2022.09	ICP-MS	39.72	3.58	35	6	6	0	0
2022.10	ICP-MS	79.04	5.2	35	6	6	0	0
2022.11	ICP-MS	98.41	8.1	36	6	6	0	0
2022.12	ICP-MS	59.71	4.28	37	6	6	0	0
2022.13	ICP-MS	0.64	0.19	34	6	6	0	0
2022.14	ICP-MS	29.93	2.69	34	6	6	0	0
2022.15	ICP-MS	0.33	0.16	33	6	6	0	0
2022.16	ICP-MS	90.89	6.93	35	6	6	0	0
2022.17	ICP-MS	69.73	5.6	38	6	5	1	0
2022.18	ICP-MS	20.75	2	38	6	6	0	0
2022.19	ICP-MS	79.84	5.06	38	7	6	1	0
2022.20	ICP-MS	39.71	1.98	38	7	6	1	0
2022.21	ICP-MS	0.68	0.21	35	6	5	1	0
2022.22	ICP-MS	87.75	5.01	36	6	6	0	0
2022.23	ICP-MS	0.35	0.09	35	4	4	0	0
2022.24	ICP-MS	10.43	0.79	36	4	4	0	0



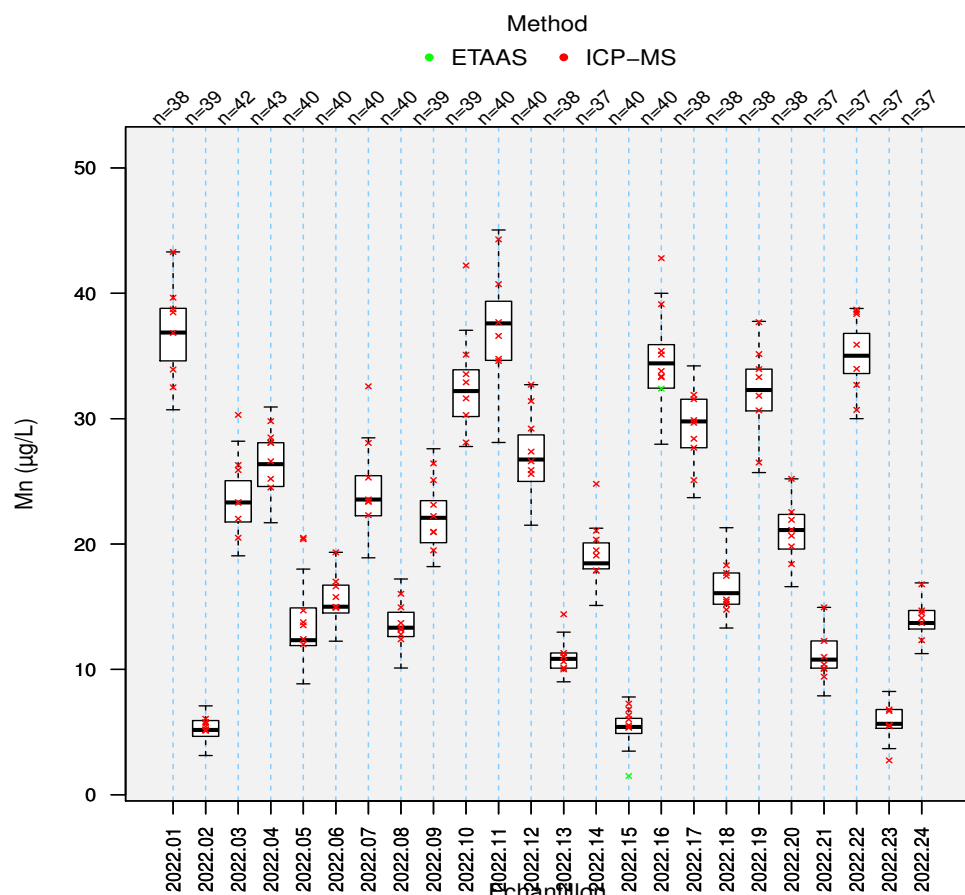
3.3.6 Mg

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	32.08	1.17	19	2	2	0	0
2022.02	ICP-MS	15.69	0.98	20	2	2	0	0
2022.03	ICP-MS	47.63	2.11	23	2	2	0	0
2022.04	ICP-MS	44.71	1.62	23	2	2	0	0
2022.05	ICP-MS	62.25	2.82	22	2	2	0	0
2022.06	ICP-MS	59.17	2.25	22	2	2	0	0
2022.07	ICP-MS	49.38	3.91	22	2	2	0	0
2022.07	Colorimetry	40.1	0	1	1	0	0	1
2022.07	Global	49.38	2.69	32	3	2	1	0
2022.08	ICP-MS	62.69	4.14	22	2	2	0	0
2022.08	Colorimetry	35.72	0	1	1	0	0	1
2022.08	Global	63.25	3.69	32	3	2	1	0
2022.09	ICP-MS	52.73	2.13	22	2	2	0	0
2022.10	ICP-MS	39.06	2.59	22	2	2	0	0
2022.11	ICP-MS	31.95	1.53	22	2	2	0	0
2022.12	ICP-MS	45.32	3.3	22	2	2	0	0
2022.13	ICP-MS	67.07	3.3	22	2	2	0	0
2022.14	ICP-MS	56.38	3.57	21	2	2	0	0
2022.15	ICP-MS	16.22	0.99	22	2	2	0	0
2022.16	ICP-MS	34.99	1.43	22	2	2	0	0
2022.17	ICP-MS	42.55	2.16	22	2	2	0	0
2022.18	ICP-MS	60.52	4.17	22	2	2	0	0
2022.19	ICP-MS	40.1	1.47	21	2	2	0	0
2022.20	ICP-MS	53.95	2.97	21	2	2	0	0
2022.21	ICP-MS	67.4	2.88	21	2	2	0	0
2022.22	ICP-MS	35.78	1.91	20	2	2	0	0
2022.23	ICP-MS	16.51	0.78	22	2	2	0	0
2022.24	ICP-MS	64.28	4.01	22	2	2	0	0



3.3.7 Mn

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	36.87	3.34	34	7	7	0	0
2022.02	ICP-MS	5.2	1	35	7	7	0	0
2022.03	ICP-MS	23.29	2.45	39	7	7	0	0
2022.04	ICP-MS	25.93	2.81	39	7	7	0	0
2022.05	ICP-MS	12.31	2.38	37	7	5	2	0
2022.06	ICP-MS	15	1.64	37	7	7	0	0
2022.07	ICP-MS	23.54	2.2	37	7	6	1	0
2022.08	ICP-MS	13.3	1.53	37	7	7	0	0
2022.09	ICP-MS	20.98	2.7	35	7	7	0	0
2022.10	ICP-MS	31.62	2.88	35	7	6	1	0
2022.11	ICP-MS	37.34	3.15	36	7	6	1	0
2022.12	ICP-MS	26.51	2.37	36	7	7	0	0
2022.13	ICP-MS	11.02	1.1	34	7	6	1	0
2022.14	ICP-MS	18.68	1.48	33	7	6	1	0
2022.15	ETAAS	4.4	0.56	5	1	0	0	1
2022.15	ICP-MS	5.47	0.7	35	7	7	0	0
2022.15	Global	5.41	0.87	40	8	7	1	0
2022.16	ETAAS	35.16	2.05	5	1	0	0	1
2022.16	ICP-MS	34.39	2.38	35	7	6	1	0
2022.16	Global	34.41	2.53	40	8	7	1	0
2022.17	ICP-MS	29.78	2.67	34	7	7	0	0
2022.18	ICP-MS	16.08	1.78	34	7	7	0	0
2022.19	ICP-MS	32.07	1.9	34	7	7	0	0
2022.20	ICP-MS	21.03	1.73	34	7	7	0	0
2022.21	ICP-MS	10.6	1.81	33	7	7	0	0
2022.22	ICP-MS	35.02	2.74	33	7	7	0	0
2022.23	ICP-MS	5.71	1.19	33	6	6	0	0
2022.24	ICP-MS	13.74	1.13	33	6	6	0	0



Data out of graph

Sample	Result
2022.06	59.16
2022.07	62.37
2022.09	57.55
2022.10	56.09
2022.11	60.80
2022.11	61.50
2022.12	53.50
2022.13	1.20
2022.13	73.80
2022.14	70.19
2022.16	64.17
2022.17	97.79
2022.17	112.00
2022.17	51.99
2022.18	54.10
2022.19	72.41
2022.20	74.93
2022.22	61.75

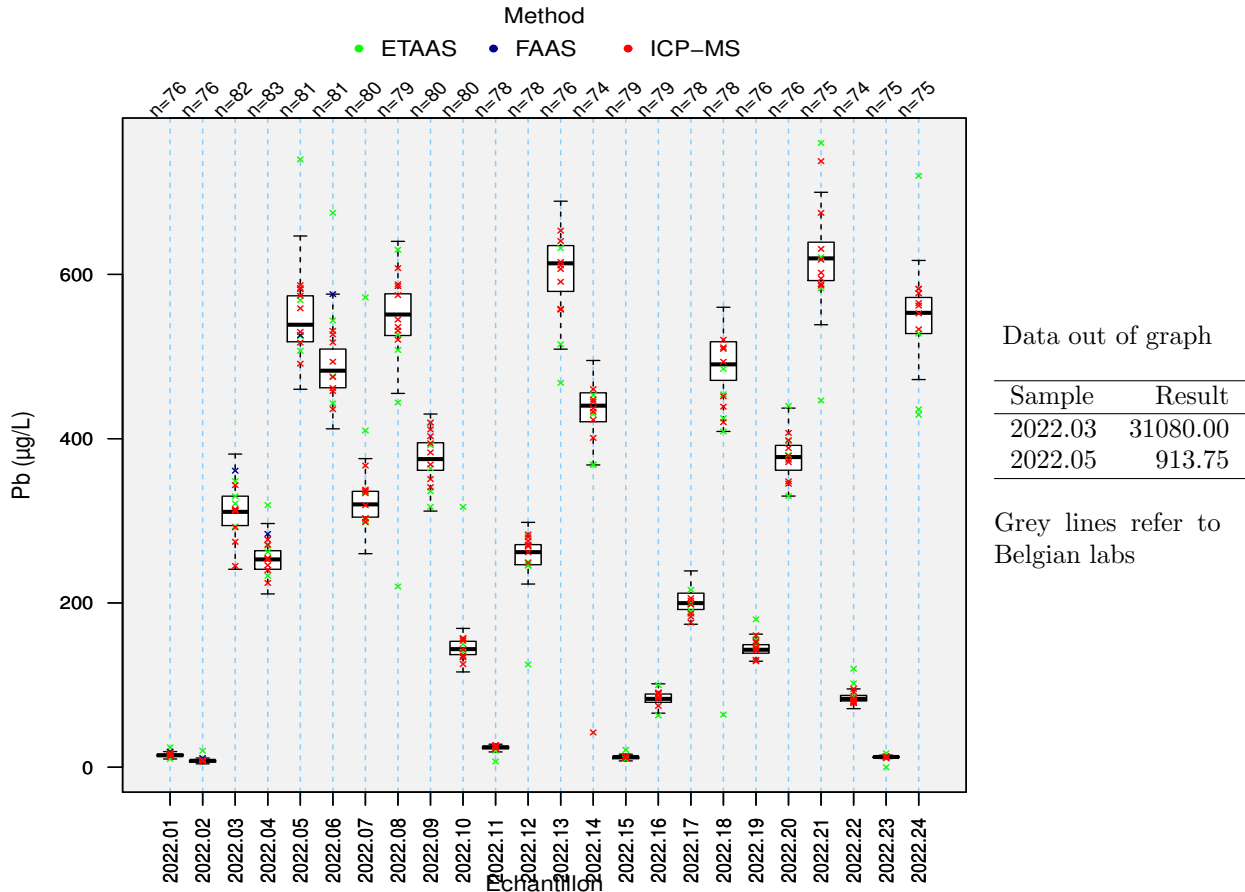
Grey lines refer to Belgian labs

3.3.8 Pb

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ETAAS	13.88	5.49	25	5	5	0	0
2022.01	FAAS	19	0	1	1	0	0	1
2022.01	ICP-MS	14.65	1.35	50	8	8	0	0
2022.01	Global	14.5	1.69	76	14	13	1	0
2022.02	ETAAS	7.46	4.34	25	5	5	0	0
2022.02	FAAS	11	0	1	1	0	0	1
2022.02	ICP-MS	7.88	1.04	50	8	8	0	0
2022.02	Global	7.84	1.68	76	14	13	1	0
2022.03	ETAAS	318.6	36.15	22	4	4	0	0
2022.03	FAAS	284.4	56.78	2	1	0	0	1
2022.03	ICP-MS	310.49	26.23	58	8	8	0	0
2022.03	Global	310.9	26.35	82	13	13	0	0
2022.04	ETAAS	255.43	28.39	23	4	4	0	0
2022.04	FAAS	230.55	39.62	2	1	0	0	1
2022.04	ICP-MS	252.77	14.72	58	8	8	0	0
2022.04	Global	253	16.73	83	13	12	1	0
2022.05	ETAAS	538	45.76	23	4	3	1	0
2022.05	FAAS	526	0	1	1	0	0	1
2022.05	ICP-MS	539	40.87	57	8	8	0	0
2022.05	Global	538.72	41.47	81	13	12	1	0
2022.06	ETAAS	476	51.21	23	4	3	1	0
2022.06	FAAS	576	0	1	1	0	0	1
2022.06	ICP-MS	482.78	28.42	57	8	8	0	0
2022.06	Global	482.78	34.92	81	13	12	1	0
2022.07	ETAAS	325.08	15.9	22	5	3	2	0
2022.07	ICP-MS	319.4	21.78	56	8	8	0	0
2022.08	ETAAS	545.97	53.65	22	5	4	1	0
2022.08	ICP-MS	553	32.33	56	8	8	0	0
2022.09	ETAAS	371.6	27.8	23	5	5	0	0
2022.09	ICP-MS	375.65	26.59	55	8	8	0	0
2022.10	ETAAS	146.1	6.96	23	5	4	1	0
2022.10	ICP-MS	143.3	12.24	55	8	8	0	0
2022.11	ETAAS	21.26	4.7	22	5	4	1	0
2022.11	ICP-MS	24.66	1.95	56	8	8	0	0
2022.12	ETAAS	264.18	18.18	22	5	4	1	0
2022.12	ICP-MS	261.37	16.68	56	8	8	0	0
2022.13	ETAAS	604.12	46.59	22	4	4	0	0
2022.13	ICP-MS	617.46	40.66	54	8	8	0	0
2022.14	ETAAS	438.77	41.33	22	4	4	0	0
2022.14	ICP-MS	440.17	25.71	52	8	7	1	0
2022.15	ETAAS	10	3.83	24	5	5	0	0
2022.15	ICP-MS	12.43	0.74	55	8	8	0	0
2022.16	ETAAS	86.46	9.53	24	5	5	0	0
2022.16	ICP-MS	82.47	6.06	55	8	8	0	0
2022.17	ETAAS	199.75	18.56	24	5	5	0	0
2022.17	ICP-MS	199.78	13.21	54	7	7	0	0
2022.18	ETAAS	476.35	36.59	24	5	4	1	0
2022.18	ICP-MS	497.11	29.9	54	7	7	0	0
2022.19	ETAAS	145.04	9.21	21	4	3	1	0
2022.19	ICP-MS	142.97	7.25	53	8	8	0	0
2022.20	ETAAS	381.25	13.74	21	4	2	2	0
2022.20	ICP-MS	376	26.77	53	8	8	0	0
2022.21	ETAAS	605	37.29	20	4	2	2	0
2022.21	ICP-MS	619.9	27.34	54	8	7	1	0
2022.22	ETAAS	85.35	6.74	20	4	3	1	0
2022.22	ICP-MS	82.88	4.71	53	8	8	0	0
2022.23	ETAAS	11	3.49	21	4	3	1	0
2022.23	ICP-MS	12.43	0.74	53	7	7	0	0
2022.24	ETAAS	533	24.85	21	4	1	3	0

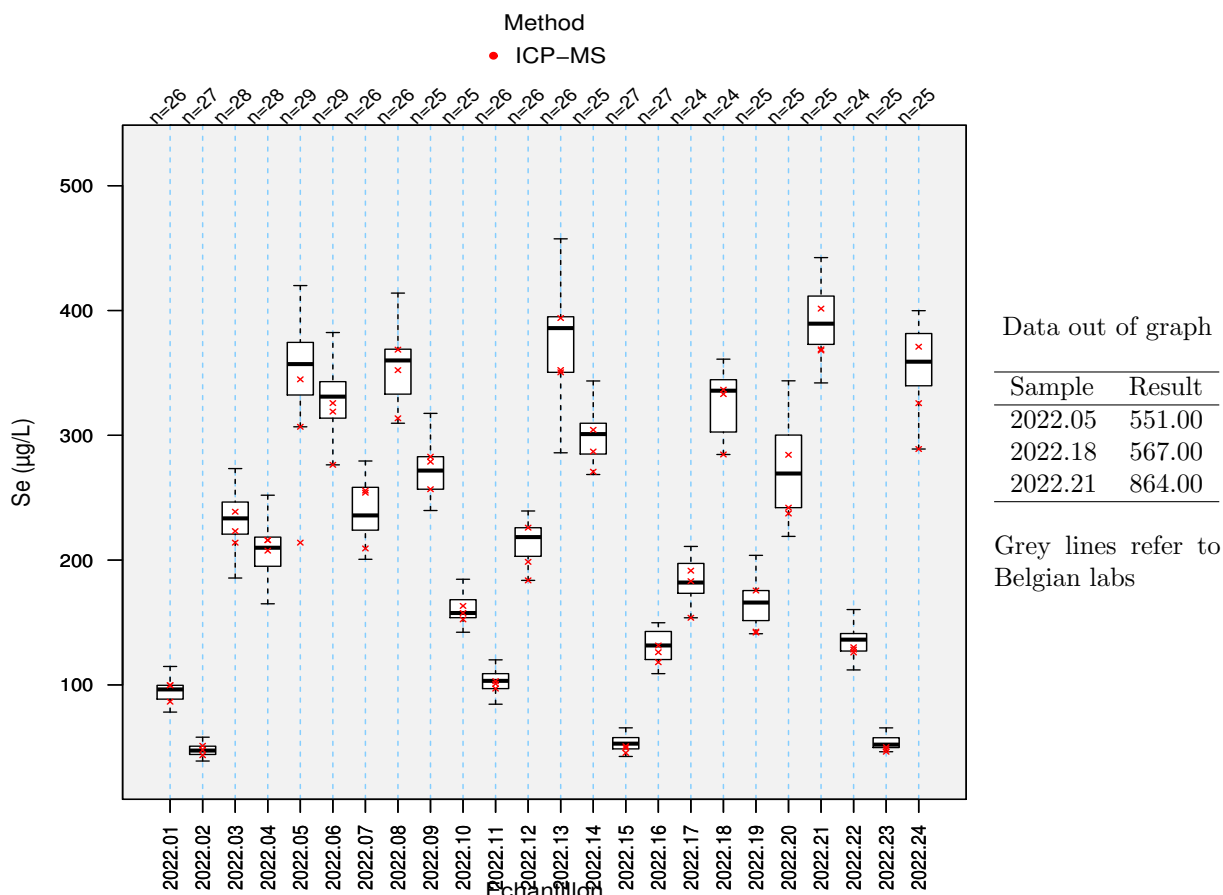
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Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.24	ICP-MS	557.37	25.46	53	7	7	0	0



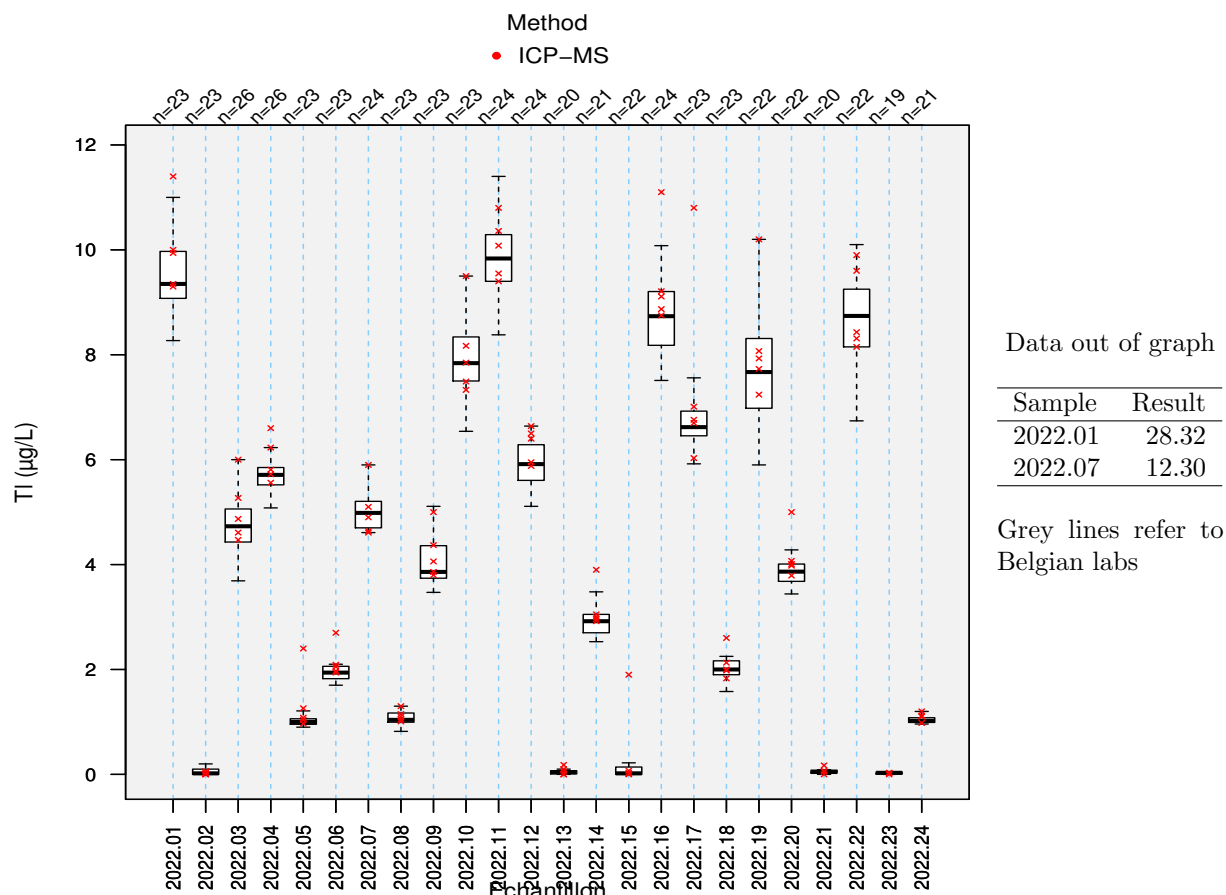
3.3.9 Se

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	96.69	6.32	24	3	3	0	0
2022.02	ICP-MS	47.4	5.61	25	3	3	0	0
2022.03	ICP-MS	234.81	18.24	26	3	3	0	0
2022.04	ICP-MS	209.72	17.49	26	3	3	0	0
2022.05	ICP-MS	357.87	31.61	28	3	2	1	0
2022.06	ICP-MS	331.4	22.1	28	3	3	0	0
2022.07	ICP-MS	242.03	26.22	24	3	3	0	0
2022.08	ICP-MS	360	28.67	24	3	3	0	0
2022.09	ICP-MS	274.92	20.43	23	3	3	0	0
2022.10	ICP-MS	160.37	12.97	23	3	3	0	0
2022.11	ICP-MS	103.25	9.07	24	3	3	0	0
2022.12	ICP-MS	219.23	16.99	24	3	3	0	0
2022.13	ICP-MS	387.15	32.05	24	3	3	0	0
2022.14	ICP-MS	300.99	18.44	23	3	3	0	0
2022.15	ICP-MS	52.93	6.75	25	3	3	0	0
2022.16	ICP-MS	131.6	17.32	25	3	3	0	0
2022.17	ICP-MS	183.2	17.92	22	3	3	0	0
2022.18	ICP-MS	335.76	31.66	22	3	3	0	0
2022.19	ICP-MS	166	19.02	23	3	3	0	0
2022.20	ICP-MS	274.92	41.57	23	3	3	0	0
2022.21	ICP-MS	391.05	32.48	23	3	3	0	0
2022.22	ICP-MS	135.09	10.37	22	3	3	0	0
2022.23	ICP-MS	52.14	5.7	23	3	3	0	0
2022.24	ICP-MS	364.98	33.97	23	3	3	0	0



3.3.10 Tl

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	9.35	0.66	23	5	4	1	0
2022.02	ICP-MS	0.02	0.07	23	5	5	0	0
2022.03	ICP-MS	4.73	0.44	26	5	5	0	0
2022.04	ICP-MS	5.71	0.24	26	5	4	1	0
2022.05	ICP-MS	1	0.08	23	5	3	2	0
2022.06	ICP-MS	1.94	0.17	23	5	4	1	0
2022.07	ICP-MS	4.98	0.37	24	5	5	0	0
2022.08	ICP-MS	1.04	0.13	23	5	5	0	0
2022.09	ICP-MS	3.86	0.46	23	5	5	0	0
2022.10	ICP-MS	7.84	0.62	23	5	5	0	0
2022.11	ICP-MS	9.84	0.63	24	5	5	0	0
2022.12	ICP-MS	5.92	0.47	24	5	5	0	0
2022.13	ICP-MS	0.04	0.04	20	5	4	1	0
2022.14	ICP-MS	2.92	0.26	21	5	4	1	0
2022.15	ICP-MS	0.02	0.09	22	5	4	1	0
2022.16	ICP-MS	8.73	0.76	24	5	4	1	0
2022.17	ICP-MS	6.62	0.35	23	5	4	1	0
2022.18	ICP-MS	2	0.2	23	5	5	0	0
2022.19	ICP-MS	7.67	0.9	22	5	5	0	0
2022.20	ICP-MS	3.87	0.24	22	5	4	1	0
2022.21	ICP-MS	0.04	0.04	20	4	3	1	0
2022.22	ICP-MS	8.74	0.79	22	5	5	0	0
2022.23	ICP-MS	0.03	0.03	19	3	3	0	0
2022.24	ICP-MS	1.02	0.07	21	4	4	0	0



3.3.11 Zn

Sample	Method	Median	SD	N	NBE	NG	NC	NE
2022.01	ICP-MS	6.22	0.33	19	2	2	0	0
2022.02	ICP-MS	3.1	0.17	20	2	2	0	0
2022.03	ICP-MS	9.55	0.4	23	2	2	0	0
2022.04	ICP-MS	8.89	0.56	23	2	2	0	0
2022.05	ICP-MS	12.36	0.89	24	2	2	0	0
2022.06	ICP-MS	11.97	0.68	24	2	2	0	0
2022.07	ICP-MS	9.4	0.65	23	2	2	0	0
2022.08	ICP-MS	12.19	0.86	23	2	2	0	0
2022.09	ICP-MS	9.91	0.6	23	2	2	0	0
2022.10	ICP-MS	7.4	0.5	23	2	2	0	0
2022.11	ICP-MS	5.84	0.38	24	2	2	0	0
2022.12	ICP-MS	8.63	0.53	24	2	2	0	0
2022.13	ICP-MS	12.9	1.17	23	2	2	0	0
2022.14	ICP-MS	10.9	0.74	22	2	2	0	0
2022.15	ICP-MS	2.92	0.18	23	2	2	0	0
2022.16	ICP-MS	6.47	0.39	23	2	2	0	0
2022.17	ICP-MS	8.04	0.43	21	2	2	0	0
2022.18	ICP-MS	11.84	0.62	21	2	2	0	0
2022.19	ICP-MS	7.49	0.48	21	2	2	0	0
2022.20	ICP-MS	10.09	0.96	21	2	2	0	0
2022.21	ICP-MS	12.96	0.51	20	2	1	1	0
2022.22	ICP-MS	6.61	0.39	19	2	2	0	0
2022.23	ICP-MS	2.93	0.23	21	2	2	0	0
2022.24	ICP-MS	12.2	0.91	21	2	2	0	0

