

IFA-Proficiency Testing Scheme for Water Analysis

Round M169
Metals

Sample Dispatch: 6 November 2023

In accordance with the procedure: AVKPS.02

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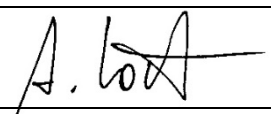
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round: M169_2 nd edition	Date / Signature:	09.01.2024 

Report: 2nd edition, created on 09 January 2024 by Dipl.-HTL-Ing. Andrea Koutnik
 Reason for change: Transmission error M169B Laboratory AM Parameter Uranium
 This report has 151 pages

This report summarises the results of round M169 (trace metals) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples M169A and M169B were distributed to 47 participants on Monday, 6th November, 2023. Each participant received two samples of 250 mL filled into LDPE bottles.

Closing date for reporting results was Friday, 1st December, 2023. 45 participants submitted results. To make the participants anonymous, each laboratory obtained a letter code by random.

Samples

The samples consisted of artificial ground water spiked with pure standards. For sample preparation, ultrapure water was spiked with concentrated solutions of salts in order to simulate the ionic composition of natural Austrian ground water. The following ultrapure salts were used: CaCO₃, Mg(NO₃)₂, NaCl, KCl, besides ultrapure H₂SO₄ and HCl. By this, the matrix of the samples consisted of about 45.9 mg/L Ca, 19.3 mg/L Mg, 8.9 mg/L Na, 1.16 mg/L K, 19.3 mg/L SO₄²⁻ and 51.6 mg/L Cl⁻. Ultrapure HNO₃ (0.5 % v/v) was added to stabilise the sample at a pH below 2, which meets the standard sampling procedure in the Austrian monitoring program.

Traces of Al, As, Ba, Cd, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, U and Zn were added, using certified spectroscopy standards. For most of the compounds added to the samples, the target concentrations were higher than the minimum quantifiable values of the Austrian ground and river water monitoring program.

Homogeneity, accuracy and stability tests at the IFA-Tulln

Some samples of the round M169A and M169B were analysed for all investigated parameters prior to shipment to the participants. The results are listed in the results tables and the parameter oriented part of the report ("IFA result").

To verify stability, all parameters of samples M169A and M169B were determined in several samples four weeks after shipment. The results are listed in the result tables ("Stability test") and the parameter oriented part of the report ("IFA result").

According to our experience, the concentrations of all parameters in the samples remain stable up to 18 months when stored at 4-6 °C in the dark.

Results

Data evaluation was based on target concentrations that were calculated from the weights of the standards used to produce the samples. Their uncertainty intervals correspond to the expanded uncertainty (coverage factor $k = 2$) as described in the EURACHEM/CITAC Guide "Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)".

Recoveries for individual laboratory results and overall mean values are related to the assigned concentrations. The results were tested for outliers by application of the Hampel outlier test (level of significance 99 %).

For zinc, the standard uncertainty $u(x_{pt})$ of the assigned value was very large compared to the performance evaluation criterion in samples N169A and N169B (see DIN ISO 13528:2020, point 9.2). Therefore, the evaluation for zinc was based on the consensus value from participant results.

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 91.7 % (Sn in sample M169A) and 104.6 % (Se in sample M169A).

The between laboratory CVs covered the ranged between 4.1 % (Mn and Sr in sample M169A) and 10.0 % (Al in sample M169A).

All confidence intervals of the outlier-corrected laboratory mean values except that for Sn in sample M169A (91.7 % ± 4.6 %) and Cu in sample M169B (96.5 % ± 2.3 %) encompass the corresponding target values with their uncertainties. For all other parameters, no difference could be detected between target concentrations and outlier corrected laboratory mean values statistically.

z-scores

The most common approach to calculate a z-score is given by

$$z = \frac{x_i - X}{\sigma_{PT}}$$

z	z-score
x_i	result of laboratory
X	target value or mean value („consensus value“)
σ_{PT}	standard deviation for proficiency assessment

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The z-score criteria were determined from relative standard deviations from all interlaboratory comparisons that have been organised by the IFA-Tulln from 2012 to 2022. They represent average performance data of all former participating laboratories.

This approach was chosen, because standard deviations of the outlier-corrected measurements substantially vary between individual proficiency test rounds. Averaging standard deviations from proficiency testing rounds of several years can provide standard deviations for proficiency assessment on a broad data basis. It is therefore more suitable than a standard deviation taken directly from the interlaboratory comparison (EN ISO/IEC 17043:2010, B.3.1.3). Another advantage of previously determined standard deviations is that the participants can foresee which z-scores can be expected by their routine analysis methods before participation.

Strontium was offered for the first time in 2023, but not in the accredited area. To estimate the standard deviation for the suitability assessment (based on the target value), the laboratory comparison tests (2018-2023) and the standard deviations of this interlaboratory test were used.

Calculation example:

A laboratory found 73.7 µg/L for the parameter Aluminium (recovery of 102 %). The target value for Aluminium was 72.3 µg/L (100 %). The relative standard deviation for proficiency assessment is given in the table below (as well as in the annual program www.ifatest.eu) by 7.7 %, which is 5.6 µg/L Al, when based on the target value.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{73.7 \mu\text{g/L} - 72.3 \mu\text{g/L}}{5.6 \mu\text{g/L}} \approx 0.25 \quad \text{or} \quad \frac{102 \% - 100 \%}{7.7 \%} \approx 0.25$$

z	z-score	
x_i	73.7 µg/L	equivalent to 102 % (result of the laboratory)
X	72.3 µg/L	equivalent to 100 % (target value)
σ_{pt}	5.6 µg/L	equivalent to 7.7 % (standard deviation for proficiency assessment see table below)

In the case of recalculation, deviations in the last digits may occur due to the fact that rounded values are given in the report for clarity.

The following table lists the standard deviations for proficiency assessment and their limits of applicability. Z-scores were only calculated, if the target values were higher than these limits.

Parameter	standard deviation for proficiency assessment	Lower limit
Aluminium	7.7 %	7,5 µg/L
Antimony	8.8 %	0.15 µg/L
Arsenic	7.3 %	0.5 µg/L
Barium	4.5 %	12 µg/L
Cadmium	5.4 %	0.1 µg/L
Chromium	6.3 %	0.5 µg/L
Copper	7.8 %	1.0 µg/L
Iron	6.7 %	10 µg/L
Lead	6.7 %	0.3 µg/L
Manganese	5.3 %	2.0 µg/L
Molybdenum	6.6 %	0.4 µg/L
Nickel	7.4 %	0.75 µg/L
Selenium	9.4 %	0.3 µg/L
Strontium ¹⁾	4.5 %	41 µg/L
Tin	10 %	0.5 µg/L
Uranium	5.5 %	0.35 µg/L
Zinc	7.0 %	3 µg/L

¹⁾ **Strontium** was offered for the first time in 2023, but not in the accredited area. To estimate the standard deviation for proficiency assessment (based on the target value), the laboratory comparison tests (2018-2023) and the standard deviation of this interlaboratory test were used.

Normally, a classification based on z-scores is made this way:

z-Score	Classification
≤2	satisfactory
2< z <3	questionable
≥3	unsatisfactory

The z-scores are listed in the parameter-oriented evaluation in the tables next to the recoveries. Additionally, each laboratory receives a sheet on which the obtained z-scores are summarized and graphically presented. The standard deviations for proficiency assessment are given in concentration units there.

An overview table of all z-scores can be found after the result tables in the parameter-oriented part.

Illustration of results

An explanation to the illustration of the results is given on the following page.

The **laboratory oriented part** contains the measurement results and reported uncertainties of each individual laboratory for all parameters together with the achieved recoveries in graphical and tabular form. This part of the report also lists tables with the results originally reported by the laboratories.

In the **parameter oriented part** the reported results and corresponding uncertainties are illustrated together with recoveries of the target values and the z-scores for each parameter and all laboratories. This information is presented in graphical and tabular form. Results, which were identified as outliers by the Hampel test are marked with an asterisk (*) in the column "out". These values were not considered for the calculation of statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target values. The uncertainty intervals correspond to the expanded uncertainty (coverage factor $k = 2$) as described in the EURACHEM / CITAC Guide "Quantifying Uncertainty in Analytical Measurement" 3rd Edition (2012) ". The uncertainty interval of the reference concentration is illustrated in the graphs as a grey band around the 100 % recovery line.

Results, for which no recoveries could be calculated, are illustrated by one of the following symbols: **FN** (false negative), **FP** (false positive) or • - symbol.

- "FN": a result is considered false negative when the "< result" reported is lower than the corresponding target value, or the measured value was given as "0" when the substance was added.
- "FP": False positive results can only be obtained for compounds that were evaluated on the basis of a "< target value". A result is termed FP if it does not include (strike) the "< target" with its measurement uncertainty.
- "•": All other results for which no recoveries can be calculated are illustrated by this symbol

Tulln, 11 December 2023

Sample M106A
Parameter Copper

Target value ± U (k=2) 4,79 µg/l ± 0,13 µg/l
 IFA result ± U (k=2) 4,79 µg/l ± 0,38 µg/l
 Stability test ± U (k=2) 4,69 µg/l ± 0,38 µg/l

*Obtained from sample preparation, U=uncertainty
 Determined at IFA prior to shipment of samples*
Determined at IFA 3 weeks after sample dispatch

Lab Code	Result	±	Unit	Recovery	z-Score
A	5.16	0.4128	µg/l	108%	0.90
B	4.22	0.42	µg/l	88%	-1.38
C	4.45	0.13	µg/l	93%	-0.83
D			µg/l		
E			µg/l		
F	4.10	0.08	µg/l	86%	-1.68
G			µg/l		
H			µg/l		
I	4.75	0.74	µg/l	99%	-0.10
J	<5		µg/l	.	.
K	4.76		µg/l	99%	-0.07
L	<10		µg/l	.	.
M	4.8	0.5	µg/l	100%	0.02
N	3.7	0.4	µg/l	77%	-2.65
O	4.47	0.447	µg/l	93%	-0.78
P	6.0		µg/l	125%	2.94
Q	4.17	0.2	µg/l	87%	-1.51
R	4.6	0.8	µg/l	96%	-0.46
S	4.44	0.67	µg/l	93%	-0.85
T			µg/l		
U	4.675	0.935	µg/l	98%	-0.28
V	5.0	0.50	µg/l	104%	0.51
W	3.54	0.3	µg/l	74%	-3.03
X	7.108 *	0.749	µg/l	148%	5.63
Y	<10		µg/l	.	.
Z			µg/l		
AA	<3.0		µg/l	FN	
AB	3.775	0.107	µg/l	79%	-2.46
AC	<10.0		µg/l	.	.

Recovery of target value in percent

z-Score of the laboratory

An asterik indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

	All results	Outliers excl.	Unit
Mean ± CI(99%)	4,65 ± 0,57	4,51 ± 0,42	µg/l
Recov. ± CI(99%)	97,1 ± 12,0	94,1 ± 8,8	%
SD between labs	0,84	0,59	µg/l
RSD between labs	18,1	13,2	%
n for calculation	18	17	

Between laboratory standard deviation

Laboratory mean and recovery of target value with corresponding confidence intervals (p=99%)

Number of results used for calculation of statistic parameters

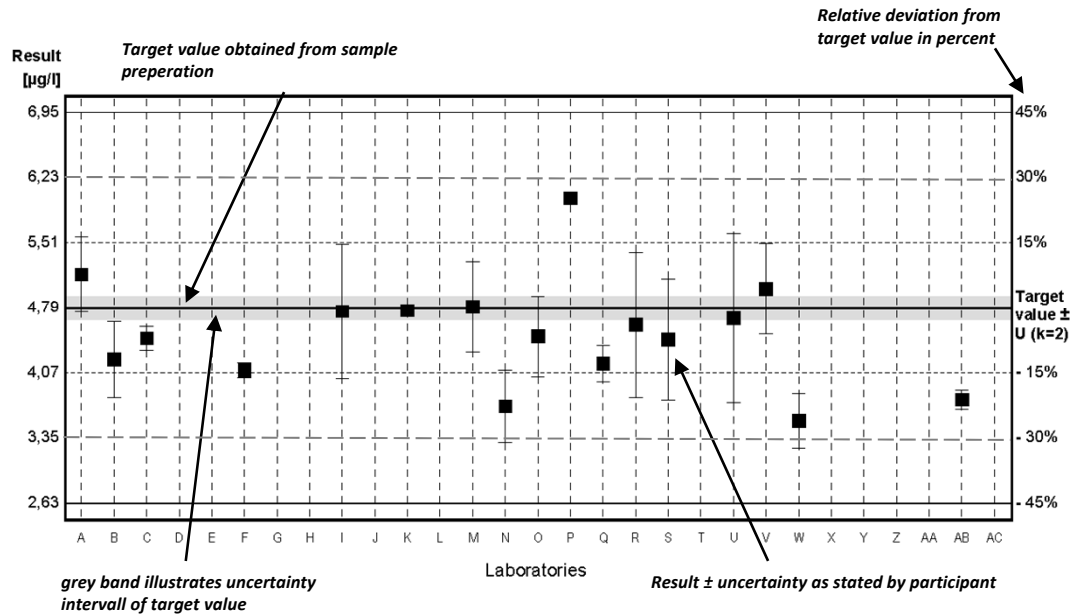


Diagram 1: Measurement results and their uncertainties

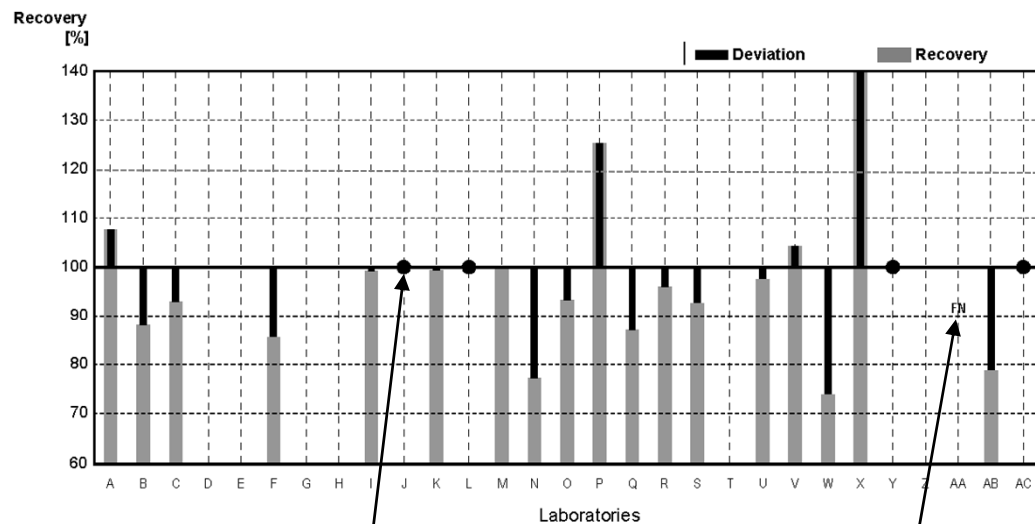


Diagram 2: Recoveries and deviations from target values

EXPLANATION

Illustration of Results Tables and Parameter Oriented Part

Round M169
Metals

Sample Dispatch: 6 November 2023

Results Sample M169A

	Aluminium	Antimony	Arsenic	Barium	Lead	Cadmium	Chromium	Iron
Target value	17.8	0.89	1.830	15.81	0.579	0.517	5.52	36.0
IFA result	17.8	0.83	1.77	16.0	0.559	0.52	5.51	35.9
Stability test	17.5	0.87	1.82	15.9	0.562	0.52	5.57	35.9
A				16.4				
B	17.4	0.97	1.81	17.4	0.54	0.52	5.13	33.4
C	18.58		1.81		<1	0.58	6.05	49.0
D	1.71	0.440	1.87	15.9	0.150	0.100	5.8	38.7
E								
F	22.3	0.795	1.74	17.3	0.564	0.504	5.33	40.0
G	<20	0.81	1.80	15.3	<0.6	0.50	5.1	33.8
H	16.08	8.73	1.86	14.18	0.469	0.497	5.08	33.81
I	21.4	0.886	1.86	15.0	0.565	0.507	5.12	38.5
J	14.7	<1.00	1.96		<1.00	0.527	5.37	34.0
K	17.7	0.850	1.87	15.2	0.540	0.505	5.18	33.8
L	18.8	0.87	1.93	16.2	0.59	0.518	5.51	34.8
M	16.7	0.921	1.88	15.5	<1	0.490	5.48	32.9
N	19.5		<2.0		<2.0	0.54	5.70	37.3
O	18.5	0.862	1.91	16.5	0.559	0.531	5.47	35.9
P	20.5	0.972	2.02	16.4	0.623	0.535	5.68	34.0
Q	18.86	<2	<2	16.04	<2	<1	5.4	34.0
R								26.1
S	16.3	0.869	1.91	14.8	0.527	0.492	5.37	33.1
T	34.38		1.960		0.492	0.474	4.959	32.68
U	17.7	0.90	1.86	15.4	0.561	0.516	5.38	36.9
V	20.0		2.00		0.60	0.53	5.80	39.0
W	17.0	0.80	1.72	14.9	<1.0	0.55	5.5	35.6
X	19.3	1.01	2.00	16.2	0.61	0.52	6.17	35.5
Y	22.15		2.08		<1	0.519	6.18	40.5
Z								26.2
AA				31.1				47.8
AB	18.8	0.955	1.88	16.1	0.580	0.537	5.53	34.3
AC	18.0	0.856	1.80	15.9	0.515	0.523	5.50	35.6
AD	17.90		1.899		0.5823	0.5021	5.299	35.70
AE	19.0	<1	1.70	15.8	<1	0.500	5.90	36.3
AF	16.0	0.99	1.93	26.0	0.446	0.51	5.2	39.7
AG								
AH	18.0	<1	1.83	14.9	0.56	0.50	5.47	35.6
AI	17.2	1.01	1.83	15.9	<1.0	0.524	5.33	35.9
AJ	20.0	0.90	2.09	16.6	<1	0.54	5.66	39.0
AK								
AL	18.97	0.78	1.88	15.82	0.54	0.50	5.70	37.4
AM								
AN	17.1	0.853	1.86	17.1	0.572	0.515	5.40	34.3
AO	17.2	0.915	1.75	15.6	0.567	0.517	5.51	37.5
AP	22.08	n.n.	1.89		n.n.	0.473		36.0
AQ	<50				0.98	0.54		60
AR	16.41	1.19	1.11		0.300	0.65	2.98	24.56
AS	18.0		1.83	15.5	0.568	0.511	5.22	36.0
AT	18.3	0.87	1.78	15.9	0.55	0.51	5.4	35.4
AU	16.3	0.952	1.69	14.8	0.452	0.463	5.35	34.5

All data in µg/L

Measurement Uncertainties Sample M169A

	Aluminium ±	Antimony ±	Arsenic ±	Barium ±	Lead ±	Cadmium ±	Chromium ±	Iron ±
Target value	0.8	0.05	0.016	0.12	0.012	0.007	0.05	0.2
IFA result	0.9	0.06	0.19	0.8	0.018	0.03	0.17	2.8
Stability test	0.9	0.06	0.19	0.8	0.017	0.03	0.17	2.8
A								
B	4.4	0.24	0.45	4.4	0.14	0.13	1.28	8.4
C	5		1			1	1	30
D	1.32	0.050	0.050	0.99	0.15	0.05	0.090	0.29
E								
F	1.65	0.099	0.231	2.11	0.127	0.065	0.682	12.0
G		0.097	0.090	2.29		0.0429	0.51	4.74
H								
I	5.4	0.222	0.47	3.8	0.141	0.127	1.28	9.6
J	0.480		0.0354			0.00317	0.124	0.675
K	3.54	0.170	0.37	3.04	0.250	0.101	1.04	6.77
L	1.9	0.09	0.19	1.6	0.06	0.052	0.55	3.5
M	3.3	0.184	0.38	3.1		0.098	1.10	6.6
N	3					0.05	0.5	3.1
O	6.15	0.219	0.389	2.1	0.15	0.137	1.04	7.22
P	6.15	0.313	0.606	4.92	0.187	0.161	1.70	10.2
Q	1.886			1.604			0.54	1.7
R								1.5
S	8.14	0.3	0.95	5.17	0.26	0.17	1.88	16.6
T	1.84		0.128		0.023	0.012	0.208	1.37
U	3.54	0.18	0.372	3.08	0.112	0.103	1.076	7.38
V	2.00		0.240		0.0480	0.0424	0.696	10.1
W	1.70	0.064	0.224	1.04		0.072	0.55	3.92
X	2.2	0.31	0.30	0.8	0.18	0.09	1.12	2.4
Y	3.32		0.31			0.078	0.93	6.07
Z								3
AA				4.35				6.69
AB								
AC	0.14	0.015	0.06	0.02	0.005	0.001	0.089	0.252
AD								
AE	3.8		0.34	3.2		0.1	1.2	7.3
AF	2.1	0.28	0.51		0.120	0.06	0.6	7.9
AG								
AH	3.24		0.329	2.68	0.101	0.09	0.985	6.41
AI	3.4	0.15	0.27	1.9		0.063	0.80	5.4
AJ	3.0	0.1	0.3	2.5		0.1	0.8	5.9
AK								
AL	3	0.09	0.2	1.5	0.08	0.07	0.8	3
AM								
AN	2.9	0.119	0.32	1.7	0.069	0.062	1.03	6.2
AO	1.72	0.0915	0.175	1.56	0.0567	0.0517	0.551	3.75
AP	3.5		0.11			0.06		4.0
AQ					0.488	0.132		13.9
AR	0.05	0.05	0.05		0.05	0.05	0.05	0.1
AS	3.6		0.37	3.1	0.125	0.102	1.04	7.2
AT	1.83	0.087	0.267	1.59	0.055	0.051	0.54	0.354
AU	1.86	0.113	0.235	1.72	0.051	0.068	0.600	3.57

All data in µg/L

Results Sample M169A

	Copper	Manganese	Molybdenum	Nickel	Selenium	Strontium	Uranium	Zinc	Tin
Target value	3.63	40.9	2.14	1.60	0.790	694	7.65	29.4	2.46
IFA result	3.73	41.0	2.19	1.60	0.66	664	7.6	37.3	2.39
Stability test	3.73	41.5	2.22	1.59	0.78	649	7.7	29.6	2.37
A			2.28			692.2	7.43		2.45
B	3.06	39.1	1.97	1.39	0.85		7.39	26.2	2.38
C	3.06	39.0		1.52				29.0	
D	3.35	40.0	1.12	0.60	0.72	660	7.77	29.5	2.14
E									
F	3.33	44.8	2.02	1.51	0.776		7.40	31.1	2.41
G	3.25	39.8	2.11	1.32	<1	690	6.6	26.6	<10
H	3.21	39.01	2.04	1.46	0.97	669.89	6.99	32.95	
I	3.27	42.5	2.26	1.58	0.837	653	7.49	27.6	2.36
J	3.48	39.6		1.62	<1.00		7.82	29.5	
K	3.46	39.7	2.12	1.49	0.815	682.6	7.36	29.8	
L	3.44	40.2	2.19	1.58	0.87	675	6.96	29.3	2.40
M	3.41	44.0	2.06	1.51	0.807	702	7.93	29.6	2.15
N	<5	41.7		<2				30.1	
O	3.50	43.6	2.18	1.56	0.774	715	7.51	28.6	2.08
P	3.68	42.6	2.21	1.58	0.773	744	7.77	30.5	2.09
Q	<5	40.0	<5	<5	<2	692.8	7.96	24.52	<10
R									
S	3.41	38.9	1.85	1.46	0.86	723	6.83	26.9	2.15
T	3.453	37.12		1.371	1.458	646.8	7.100	29.92	
U	3.48	40.3	2.14	1.52	0.820	676	7.68	29.6	
V	3.70	43.0		1.60	0.80		7.55	31.0	
W	3.78	40.1	<10	1.62	<1.0	638	7.5	29.9	<5.0
X	3.84	39.6	<5	1.77	0.81		7.68	28.4	<5
Y	3.65	43.3		1.68	<1		8.13	30.7	
Z	2.60								
AA	<5.00	38.0						27.5	
AB	3.25	41.4	2.20	1.62	0.881	695	7.55	30.7	2.32
AC	3.58	40.2	2.13	1.50	0.828	666	6.91	28.6	2.49
AD	3.618	40.40		1.547				29.38	
AE	3.75	42.0	2.00	1.60	<1		7.40	30.3	2.13
AF	3.19	38.5		1.50	0.97			26.7	
AG			1.92				7.11	32.6	
AH	3.36	39.3	2.11	1.57	<1	689	7.59	27.8	2.30
AI	3.38	40.9	2.15	1.56	<1.0	661	7.55	29.5	2.04
AJ	3.70	42.5	2.24	1.65	<1	742	7.9	32.7	2.46
AK									
AL	3.36	41.1	2.11	1.58	0.80	730	7.27	25.95	2.21
AM							6.633		
AN	3.54	39.8	2.18	1.50	0.80	686	7.44	28.6	2.37
AO	3.49	39.5	2.23	1.42	0.758	669	9.28	31.6	<5.00
AP	1.77	38.8		2.45					
AQ	3.97	38.0		2.06				29.6	
AR	23.47	34.29	1.89	0.210	26.66	887.2	2.91	23.47	0.91
AS	3.46	39.8		1.55		672.5	7.72	29.8	
AT	3.38	39.8	2.15	1.51	<1.0		7.4	28.6	2.36
AU	4.02	39.7	1.45	1.10	0.622	700	8.98	29.0	1.82

All data in µg/L

Measurement Uncertainties Sample M169A

	Copper ±	Manganese ±	Molybdenum ±	Nickel ±	Selenium ±	Strontium ±	Uranium ±	Zinc ±	Tin ±
Target value	0.04	0.3	0.23	0.03	0.018	6	0.07	0.6	0.04
IFA result	0.20	2.8	0.26	0.11	0.09	1	0.9	4.2	0.12
Stability test	0.20	2.8	0.27	0.11	0.10	1	0.9	3.3	0.12
A									
B	0.77	9.8	0.49	0.35	0.21		1.85	6.6	0.60
C	1	15		1				10	
D	0.15	1.83	0.05	0.05	0.05	38.57	0.62	1.28	0.10
E									
F	0.596	11.5	0.232	0.270	0.083		1.27	4.17	0.243
G	0.91	2.98	0.211	0.106		110	0.80	6.6	
H									
I	0.82	10.6	0.57	0.40	0.209	163	1.87	6.9	0.59
J	0.0721	0.742		0.0496			0.0794	0.673	
K	0.69	7.94	0.424	0.30	0.163	137	1.47	6.0	
L	0.34	4.0	0.22	0.16	0.09	68	0.70	2.9	0.24
M	0.68	8.8	0.41	0.30	0.161	70	1.59	5.9	0.43
N		3.9						4	
O	1.06	10	0.422	0.471	0.438	180	1.87	7.49	0.488
P	1.10	12.8	0.663	0.474	0.232	223	2.33	9.15	0.627
Q		2				69.28	0.796	2.452	
R									
S	1.2	19.5	0.65	0.73	0.43	361	3.41	13.4	3.34
T	0.131	1.21		0.076	0.182	22.3	0.551	1.61	
U	0.696	8.06	0.428	0.304	0.164	135.2	1.536	5.92	
V	0.296	4.30		0.160	0.120		0.378	3.10	
W	0.491	2.81		0.203		64	0.86	3.89	
X	1.02	0.9		0.21	0.19		0.28	1.9	
Y	0.55	6.49		0.25			1.21	4.60	
Z	3								
AA		5.32						3.58	
AB									
AC	0.026	0.38	0.014	0.021	0.030	9.8	0.057	0.252	0.021
AD									
AE	0.75	8.4	0.40	0.32			1.5	6.1	0.43
AF	0.57	5.0		0.12	0.14			4.9	
AG									
AH	0.605	7.07	0.38	0.283		124	1.37	5	0.414
AI	0.41	4.9	0.26	0.17		99.2	1.1	4.4	0.20
AJ	0.6	6.4	0.3	0.2		111	1.2	4.9	0.4
AK									
AL	0.4	4	0.2	0.2	0.09	50	0.6	3	0.2
AM							0.8		
AN	0.39	4.4	0.28	0.34	0.27	96	0.74	4.6	0.40
AO	0.349	3.95	0.223	0.142	0.0758	66.9	0.928	3.16	0.5
AP	0.1	5.9		0.3					
AQ	0.86	5.7		0.273				20.0	
AR	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1
AS	0.69	8.0		0.31		135	1.54	6.0	
AT	0.338	3.98	2.15	0.151			0.74	2.86	0.236
AU	0.447	4.12	0.157	0.148	0.074	84.5	0.788	3.61	0.199

All data in µg/L

Results Sample M169B

	Aluminium	Antimony	Arsenic	Barium	Lead	Cadmium	Chromium	Iron
Target value	38.9	1.57	3.18	37.92	3.91	1.169	0.752	59.8
IFA result	38.8	1.47	3.14	37.5	3.65	1.19	0.76	59
Stability test	38.3	1.51	3.31	37.0	3.68	1.18	0.76	59
A				39.25				
B	39.3	1.66	3.19	40.7	3.63	1.17	0.73	56.7
C	35.83		3.37		4.01	1.33	<1	78
D	35.40	1.20	3.50	42.0	3.36	0.85	0.83	64.00
E								
F	43.2	1.44	3.01	41.0	3.61	1.14	0.758	65.6
G	36.7	1.42	3.13	36.5	3.58	1.15	<1	57
H	35.81	1.45	3.18	33.81	3.16	1.18	0.554	57.26
I	45.8	1.68	3.38	35.8	3.84	1.22	0.761	67.3
J	35.2	1.51	3.38		3.97	1.19	<1.00	57.6
K	39.4	1.55	3.30	36.4	3.63	1.15	0.724	56.2
L	40.9	1.58	3.42	38.9	3.73	1.17	0.77	58.3
M	39.2	1.58	3.31	37.6	3.82	1.09	<1	56.0
N	41.9		3.14		3.97	1.23	<5	60.1
O	40.6	1.53	3.34	39.3	3.85	1.19	0.694	60.5
P	45.5	1.79	3.47	39.9	4.21	1.24	0.738	56.7
Q	41.59	<2	3.17	38.72	3.57	1.05	<5	56
R								51.2
S	36.1	1.55	3.30	35.4	3.60	1.12	0.741	58.1
T	57.61		2.965		3.332	1.079	0.734	55.61
U	39.5	1.56	3.40	36.7	3.72	1.150	0.748	58.0
V	38.0		3.50		4.10	1.21	0.80	63.0
W	36.5	1.44	3.04	35.5	3.93	1.23	<1.0	59.2
X	37.9	1.56	3.24	38.3	3.64	1.11	<5	55.9
Y	46.8		3.79		4.01	1.19	<1	70.0
Z								29.30
AA				42.9				60.4
AB	40.7	1.59	3.21	38.4	3.93	1.21	0.734	57.2
AC	40.0	1.56	3.42	37.5	3.84	1.19	0.790	58.4
AD	38.05		3.413		3.915	1.137	0.7549	60.60
AE	41.5	1.48	2.93	38.8	4.23	1.10	<1	61.0
AF	36.1	1.56	3.32	38.4	3.24	1.15	0.72	59
AG								
AH	38.5	1.42	3.19	37.0	3.94	1.16	0.81	59.1
AI	37.7	1.54	3.23	37.5	3.76	1.16	<1.0	59.0
AJ	41.1	1.60	3.64	39.2	4.09	1.24	<1	62.7
AK								
AL	40.36	1.39	3.31	37.75	3.62	1.11	0.78	61.3
AM								
AN	36.7	1.55	3.28	39.2	3.84	1.16	0.75	57.8
AO	36.7	1.58	3.02	37.1	3.79	1.15	3.78	57
AP	46.06	0.747	3.16		3.26	1.10		55.2
AQ	<50				4.25	1.25		60
AR	35.50	1.36	2.12		3.67	1.42	0.092	42.88
AS	40.8		3.20	36.6	3.77	1.158	0.720	60.0
AT	39.2	1.53	3.30	38.7	3.68	1.14	<1.0	57.7
AU	39.1	1.34	2.65	37.1	3.68	1.28	0.653	57.8

All data in µg/L

Measurement Uncertainties Sample M169B

	Aluminium ±	Antimony ±	Arsenic ±	Barium ±	Lead ±	Cadmium ±	Chromium ±	Iron ±
Target value	0.8	0.06	0.03	0.17	0.03	0.011	0.010	0.3
IFA result	2.1	0.10	0.33	0.9	0.10	0.07	0.05	4
Stability test	2.0	0.11	0.35	0.8	0.10	0.07	0.05	4
A								
B	9.8	0.42	0.80	10.2	0.91	0.29	0.18	14.2
C	8		1		1	0.15		30
D	2.21	0.08	0.05	2.68	0.23	0.08	0.05	1.15
E								
F	3.2	0.179	0.400	5.00	0.812	0.146	0.097	19.7
G	3.30	0.170	0.157	5.4	0.82	0.097		7.9
H								
I	11.5	0.42	0.85	9.0	0.96	0.31	0.190	16.8
J	0.437	0.0962	0.0332		0.0507	0.0225		0.720
K	7.87	0.31	0.66	7.29	0.73	0.229	0.145	11.2
L	4.1	0.16	0.34	3.9	0.37	0.12	0.08	5.8
M	7.8	0.32	0.66	7.5	0.76	0.22		11.2
N	6		0.5		0.7	0.1		5.0
O	13.5	0.389	0.681	5	1.03	0.306	0.132	12.2
P	13.6	0.55	1.04	12.0	1.26	0.37	0.221	16.4
Q	4.159		0.317	0.3872	0.357	0.105		2.8
R								3
S	18.1	0.54	1.66	12.4	1.78	0.39	0.26	29.1
T	3.08		0.193		0.153	0.027	0.031	2.33
U	7.90	0.312	0.68	7.34	0.744	0.23	0.1496	11.6
V	3.80		0.420		0.328	0.0968	0.096	16.4
W	3.65	0.115	0.395	2.49	0.55	0.16		6.5
X	1.2	0.3	0.21	0.8	0.13	0.1		2.5
Y	7.02		0.57		0.60	0.18		10.5
Z								3
AA				6.01				8.46
AB								
AC	0.57	0.025	0.06	0.21	0.012	0.021	0.018	0.153
AD								
AE	8.3	0.30	0.59	7.8	0.85	0.22		12
AF	4.7	0.44	0.88		0.87	0.14	0.08	12
AG								
AH	6.93	0.256	0.574	6.66	0.709	0.209	0.146	10.6
AI	7.5	0.23	0.48	4.5	0.45	0.14		8.9
AJ	6.2	0.2	0.5	5.9	0.6	0.2		9.4
AK								
AL	4	0.1	0.4	4	0.4	0.1	0.09	7
AM								
AN	4.4	0.22	0.56	3.9	0.46	0.14	0.14	10.4
AO	3.67	0.158	0.302	3.71	0.379	0.115	0.378	5.7
AP	7.3	0.07	0.19		0.19	0.14		6.1
AQ					2.111	0.305		13.9
AR	0.05	0.05	0.05		0.05	0.05	0.025	0.1
AS	8.2		0.64	7.3	0.75	0.232	0.144	12
AT	3.92	0.153	0.495	3.87	0.368	0.114		5.77
AU	4.47	0.159	0.368	4.31	0.413	0.189	0.073	5.95

All data in µg/L

Results Sample M169B

	Copper	Manganese	Molybdenum	Nickel	Selenium	Strontium	Uranium	Zinc	Tin
Target value	8.02	8.9	0.86	2.84	2.63	360	2.50	14.9	1.03
IFA result	8.1	8.8	0.87	2.84	2.67	350.7	2.34	17.4	1.00
Stability test	8.1	8.9	0.87	2.72	2.67	337.7	2.40	16.7	1.01
A			0.94			365.3	2.43		1.05
B	7.18	8.60	0.87	2.57	2.69		2.44	13.4	0.99
C	6.92	<20		2.68				<20	
D	7.20	8.10	<0.1	2.48	2.61	364	2.06	14.80	0.59
E									
F	7.30	9.80	0.834	2.67	2.57		2.46	15.4	1.04
G	7.3	8.6	<1	2.49	2.57	349	2.20	12.1	<10
H	7.19	8.25	0.83	2.63	3.04	357.73	2.25	16.61	
I	7.73	10.2	1.00	3.05	3.16	364	2.60	14.6	1.07
J	7.82	<10.0		2.94	2.70		2.51	15.7	
K	7.59	8.76	0.855	2.71	2.66	349.5	2.38	14.9	
L	7.68	8.87	0.88	2.85	2.88	352	2.47	14.9	1.03
M	7.70	9.51	0.812	2.81	2.87	369	2.59	14.7	0.859
N	8.26	9.2		2.88				15.3	
O	7.87	9.43	0.89	2.60	2.77	373	2.47	14.4	0.896
P	8.20	9.54	0.879	2.80	2.58	387	2.57	15.8	0.911
Q	7.56	<10	<5	<5	2.23	366.55	2.37	<15	<10
R									
S	7.63	8.60	0.808	2.60	2.80	372	2.30	14.1	0.937
T	7.670	8.133		4.380	2.442	337.6	2.324	14.93	
U	7.83	8.95	0.862	2.71	2.65	350.4	2.42	15.0	
V	8.10	9.0		2.80	2.80		2.54	16.0	
W	8.39	8.79	<10	2.87	2.56	334	2.49	15.2	<5.0
X	7.72	8.6	<5	2.75	2.72		2.63	13.0	5.0
Y	8.43	9.82		3.11	3.00		2.70	15.3	
Z	7.60								
AA	9.70	9.50						12.5	
AB	7.59	9.07	0.89	2.85	2.80	352	2.46	15.8	0.94
AC	7.62	8.93	0.836	2.81	2.65	345	2.25	14.6	1.18
AD	8.207	9.139		2.848				15.22	
AE	8.38	9.33	<1	2.93	2.55		2.40	15.3	<1
AF	7.0	8.5		2.41	2.85			13.1	
AG			0.755				2.38	16.5	
AH	7.81	8.51	<1	2.73	2.59	352	2.47	14.8	1.02
AI	7.61	9.09	<1.0	2.84	2.55	342	2.53	14.8	1.03
AJ	8.24	9.25	<1	2.92	2.86	400	2.61	16.7	1.02
AK									
AL	7.47	9.04	0.90	2.79	2.52	375	2.42	13.22	1.03
AM							2.173		
AN	7.71	8.76	0.91	2.67	2.67	357	2.46	14.3	1.03
AO	7.49	8.00	0.875	2.78	2.66	376	2.99	19.1	<5.0
AP	6.34	8.80		4.26					
AQ	8.49	19.0		3.03				16.7	
AR	6.16	7.64	0.052	0.203	24.80	388.44	0.92	10.67	1.36
AS	7.61	8.76		2.72		348.0	2.51	15.1	
AT	7.51	8.65	0.89	2.73	2.62		2.42	14.3	1.00
AU	8.53	8.65	0.300	3.53	2.10	350	5.06	15.0	0.762

All data in µg/L

Measurement Uncertainties Sample M169B

	Copper ±	Manganese ±	Molybdenum ±	Nickel ±	Selenium ±	Strontium ±	Uranium ±	Zinc ±	Tin ±
Target value	0.06	0.3	0.23	0.04	0.03	3	0.02	0.4	0.03
IFA result	0.4	0.6	0.10	0.15	0.31	0.9	0.26	2.2	0.08
Stability test	0.4	0.6	0.10	0.14	0.31	0.9	0.27	2.1	0.08
A									
B	1.80	2.15	0.22	0.64	0.67		0.61	3.4	0.25
C	1			1					
D	0.28	0.41	0.05	0.13	0.05	20.27	0.16	0.16	0.05
E									
F	1.31	2.50	0.096	0.478	0.275		0.423	2.06	0.105
G	2.05	0.65		0.199	0.333	56	0.264	3.02	
H									
I	1.93	2.6	0.25	0.76	0.79	91	0.65	3.7	0.27
J	0.0730			0.0462	0.119		0.0806	0.709	
K	1.52	1.75	0.171	0.54	0.53	69.9	0.48	3.0	
L	0.77	0.89	0.09	0.29	0.29	35	0.25	1.5	0.10
M	1.54	1.90	0.162	0.56	0.57	37	0.52	2.9	0.172
N	0.8	0.87		0.4				2	
O	2.38	2.17	0.172	0.786	1.57	93.8	0.616	3.77	0.21
P	2.46	2.86	0.264	0.840	0.774	116	0.771	4.74	0.273
Q	0.756				0.223	36.655	0.237		
R									
S	2.67	4.29	0.28	1.32	1.39	186	1.17	7.05	0.33
T	0.291	0.266		0.055	0.306	11.7	0.181	0.79	
U	1.566	1.79	0.1724	0.542	0.53	70.08	0.484	3.00	
V	0.648	0.90		0.280	0.420		0.127	1.60	
W	1.09	0.62		0.359	0.358	33.4	0.286	1.98	
X	0.8	0.5		0.1	0.16		0.4	0.5	
Y	1.26	1.47		0.47	0.45		0.41	2.30	
Z	3								
AA	1.46	1.33						1.63	
AB									
AC	0.099	0.035	0.015	0.035	0.020	0.71	0.025	0.212	0.040
AD									
AE	1.7	1.9		0.59	0.51		0.48	3.1	
AF	1.2	1.1		0.20	0.40			2.4	
AG									
AH	1.41	1.53		0.491	0.466	63.4	0.445	2.66	0.184
AI	0.91	1.1		0.31	0.38	51	0.38	2.2	0.10
AJ	1.2	1.4		0.4	0.4	60	0.4	2.5	0.2
AK									
AL	0.8	0.9	0.08	0.3	0.3	40	0.3	2	0.1
AM							0.3		
AN	0.85	1.31	0.12	0.62	0.91	50	0.25	2.3	0.18
AO	0.749	0.8	0.0875	0.278	0.266	37.6	0.299	1.91	0.5
AP	0.35	1.0		0.53					
AQ	1.85	2.85		0.400				11.2	
AR	0.1	0.1	0.01	0.05	0.10	0.1	0.1	0.1	0.1
AS	1.52	1.75		0.54		70	0.50	3.0	
AT	0.751	0.865	0.089	0.273	0.393		0.242	0.143	0.1
AU	0.949	0.90	0.033	0.475	0.25	42.2	0.444	1.87	0.083

All data in µg/L

z-Scores Sample M169A

	Aluminium	Antimony	Arsenic	Barium	Lead	Cadmium	Chromium	Iron
A				0.83				
B	-0.29	1.02	-0.15	2.23	-1.01	0.11	-1.12	-1.08
C	0.57		-0.15			2.26	1.52	5.39
D	-11.74	-5.75	0.30	0.13	-11.06	-14.94	0.81	1.12
E								
F	3.28	-1.21	-0.67	2.09	-0.39	-0.47	-0.55	1.66
G		-1.02	-0.22	-0.72		-0.61	-1.21	-0.91
H	-1.25	100.10	0.22	-2.29	-2.84	-0.72	-1.27	-0.91
I	2.63	-0.05	0.22	-1.14	-0.36	-0.36	-1.15	1.04
J	-2.26		0.97			0.36	-0.43	-0.83
K	-0.07	-0.51	0.30	-0.86	-1.01	-0.43	-0.98	-0.91
L	0.73	-0.26	0.75	0.55	0.28	0.04	-0.03	-0.50
M	-0.80	0.40	0.37	-0.44		-0.97	-0.12	-1.29
N	1.24					0.82	0.52	0.54
O	0.51	-0.36	0.60	0.97	-0.52	0.50	-0.14	-0.04
P	1.97	1.05	1.42	0.83	1.13	0.64	0.46	-0.83
Q	0.77			0.32			-0.35	-0.83
R								-4.10
S	-1.09	-0.27	0.60	-1.42	-1.34	-0.90	-0.43	-1.20
T	12.10		0.97		-2.24	-1.54	-1.61	-1.38
U	-0.07	0.13	0.22	-0.58	-0.46	-0.04	-0.40	0.37
V	1.61		1.27		0.54	0.47	0.81	1.24
W	-0.58	-1.15	-0.82	-1.28		1.18	-0.06	-0.17
X	1.09	1.53	1.27	0.55	0.80	0.11	1.87	-0.21
Y	3.17		1.87			0.07	1.90	1.87
Z								-4.06
AA				21.49				4.89
AB	0.73	0.83	0.37	0.41	0.03	0.72	0.03	-0.70
AC	0.15	-0.43	-0.22	0.13	-1.65	0.21	-0.06	-0.17
AD	0.07		0.52		0.09	-0.53	-0.64	-0.12
AE	0.88		-0.97	-0.01		-0.61	1.09	0.12
AF	-1.31	1.28	0.75	14.32	-3.43	-0.25	-0.92	1.53
AG								
AH	0.15		0.00	-1.28	-0.49	-0.61	-0.14	-0.17
AI	-0.44	1.53	0.00	0.13		0.25	-0.55	-0.04
AJ	1.61	0.13	1.95	1.11		0.82	0.40	1.24
AK								
AL	0.85	-1.40	0.37	0.01	-1.01	-0.61	0.52	0.58
AM								
AN	-0.51	-0.47	0.22	1.81	-0.18	-0.07	-0.35	-0.70
AO	-0.44	0.32	-0.60	-0.30	-0.31	0.00	-0.03	0.62
AP	3.12		0.45			-1.58		0.00
AQ					10.34	0.82		9.95
AR	-1.01	3.83	-5.39		-7.19	4.76	-7.30	-4.74
AS	0.15		0.00	-0.44	-0.28	-0.21	-0.86	0.00
AT	0.36	-0.26	-0.37	0.13	-0.75	-0.25	-0.35	-0.25
AU	-1.09	0.79	-1.05	-1.42	-3.27	-1.93	-0.49	-0.62

z-Scores Sample M169A

	Copper	Manganese	Molybdenum	Nickel	Selenium	Strontium	Uranium	Zinc	Tin
A			0.99			-0.06	-0.52		-0.04
B	-2.01	-0.83	-1.20	-1.77	0.81		-0.62	-1.55	-0.33
C	-2.01	-0.88		-0.68				-0.19	
D	-0.99	-0.42	-7.22	-8.45	-0.94	-1.09	0.29	0.05	-1.30
E									
F	-1.06	1.80	-0.85	-0.76	-0.19		-0.59	0.83	-0.20
G	-1.34	-0.51	-0.21	-2.36		-0.13	-2.50	-1.36	
H	-1.48	-0.87	-0.71	-1.18	2.42	-0.77	-1.57	1.72	
I	-1.27	0.74	0.85	-0.17	0.63	-1.31	-0.38	-0.87	-0.41
J	-0.53	-0.60		0.17			0.40	0.05	
K	-0.60	-0.55	-0.14	-0.93	0.34	-0.37	-0.69	0.19	
L	-0.67	-0.32	0.35	-0.17	1.08	-0.61	-1.64	-0.05	-0.24
M	-0.78	1.43	-0.57	-0.76	0.23	0.26	0.67	0.10	-1.26
N		0.37						0.34	
O	-0.46	1.25	0.28	-0.34	-0.22	0.67	-0.33	-0.39	-1.54
P	0.18	0.78	0.50	-0.17	-0.23	1.60	0.29	0.53	-1.50
Q		-0.42				-0.04	0.74	-2.37	
R									
S	-0.78	-0.92	-2.05	-1.18	0.94	0.93	-1.95	-1.21	-1.26
T	-0.63	-1.74		-1.93	9.00	-1.51	-1.31	0.25	
U	-0.53	-0.28	0.00	-0.68	0.40	-0.58	0.07	0.10	
V	0.25	0.97		0.00	0.13		-0.24	0.78	
W	0.53	-0.37		0.17		-1.79	-0.36	0.24	
X	0.74	-0.60		1.44	0.27		0.07	-0.49	
Y	0.07	1.11		0.68			1.14	0.63	
Z	-3.64								
AA		-1.34						-0.92	
AB	-1.34	0.23	0.42	0.17	1.23	0.03	-0.24	0.63	-0.57
AC	-0.18	-0.32	-0.07	-0.84	0.51	-0.90	-1.76	-0.39	0.12
AD	-0.04	-0.23		-0.45				-0.01	
AE	0.42	0.51	-0.99	0.00			-0.59	0.44	-1.34
AF	-1.55	-1.11		-0.84	2.42			-1.31	
AG			-1.56				-1.28	1.55	
AH	-0.95	-0.74	-0.21	-0.25		-0.16	-0.14	-0.78	-0.65
AI	-0.88	0.00	0.07	-0.34		-1.06	-0.24	0.05	-1.71
AJ	0.25	0.74	0.71	0.42		1.54	0.59	1.60	0.00
AK									
AL	-0.95	0.09	-0.21	-0.17	0.13	1.15	-0.90	-1.68	-1.02
AM							-2.42		
AN	-0.32	-0.51	0.28	-0.84	0.13	-0.26	-0.50	-0.39	-0.37
AO	-0.49	-0.65	0.64	-1.52	-0.43	-0.80	3.87	1.07	
AP	-6.57	-0.97		7.18					
AQ	1.20	-1.34		3.89				0.10	
AR	70.07	-3.05	-1.77	-11.74	348.37	6.19	-11.27	-2.88	-6.30
AS	-0.60	-0.51		-0.42		-0.69	0.17	0.19	
AT	-0.88	-0.51	0.07	-0.76			-0.59	-0.39	-0.41
AU	1.38	-0.55	-4.89	-4.22	-2.26	0.19	3.16	-0.19	-2.60

z-Scores Sample M169B

	Aluminium	Antimony	Arsenic	Barium	Lead	Cadmium	Chromium	Iron
A				0.78				
B	0.13	0.65	0.04	1.63	-1.07	0.02	-0.46	-0.77
C	-1.02		0.82		0.38	2.55		4.54
D	-1.17	-2.68	1.38	2.39	-2.10	-5.05	1.65	1.05
E								
F	1.44	-0.94	-0.73	1.80	-1.15	-0.46	0.13	1.45
G	-0.73	-1.09	-0.22	-0.83	-1.26	-0.30		-0.70
H	-1.03	-0.87	0.00	-2.41	-2.86	0.17	-4.18	-0.63
I	2.30	0.80	0.86	-1.24	-0.27	0.81	0.19	1.87
J	-1.24	-0.43	0.86		0.23	0.33		-0.55
K	0.17	-0.14	0.52	-0.89	-1.07	-0.30	-0.59	-0.90
L	0.67	0.07	1.03	0.57	-0.69	0.02	0.38	-0.37
M	0.10	0.07	0.56	-0.19	-0.34	-1.25		-0.95
N	1.00		-0.17		0.23	0.97		0.07
O	0.57	-0.29	0.69	0.81	-0.23	0.33	-1.22	0.17
P	2.20	1.59	1.25	1.16	1.15	1.12	-0.30	-0.77
Q	0.90		-0.04	0.47	-1.30	-1.89		-0.95
R								-2.15
S	-0.93	-0.14	0.52	-1.48	-1.18	-0.78	-0.23	-0.42
T	6.25		-0.93		-2.21	-1.43	-0.38	-1.05
U	0.20	-0.07	0.95	-0.71	-0.73	-0.30	-0.08	-0.45
V	-0.30		1.38		0.73	0.65	1.01	0.80
W	-0.80	-0.94	-0.60	-1.42	0.08	0.97		-0.15
X	-0.33	-0.07	0.26	0.22	-1.03	-0.93		-0.97
Y	2.64		2.63		0.38	0.33		2.55
Z								-7.61
AA				2.92				0.15
AB	0.60	0.14	0.13	0.28	0.08	0.65	-0.38	-0.65
AC	0.37	-0.07	1.03	-0.25	-0.27	0.33	0.80	-0.35
AD	-0.28		1.00		0.02	-0.51	0.06	0.20
AE	0.87	-0.65	-1.08	0.52	1.22	-1.09		0.30
AF	-0.93	-0.07	0.60	0.28	-2.56	-0.30	-0.68	-0.20
AG								
AH	-0.13	-1.09	0.04	-0.54	0.11	-0.14	1.22	-0.17
AI	-0.40	-0.22	0.22	-0.25	-0.57	-0.14		-0.20
AJ	0.73	0.22	1.98	0.75	0.69	1.12		0.72
AK								
AL	0.49	-1.30	0.56	-0.10	-1.11	-0.93	0.59	0.37
AM								
AN	-0.73	-0.14	0.43	0.75	-0.27	-0.14	-0.04	-0.50
AO	-0.73	0.07	-0.69	-0.48	-0.46	-0.30	63.91	-0.70
AP	2.39	-5.96	-0.09		-2.48	-1.09		-1.15
AQ					1.30	1.28		0.05
AR	-1.14	-1.52	-4.57		-0.92	3.98	-13.93	-4.22
AS	0.63		0.09	-0.77	-0.53	-0.17	-0.68	0.05
AT	0.10	-0.29	0.52	0.46	-0.88	-0.46		-0.52
AU	0.07	-1.66	-2.28	-0.48	-0.88	1.76	-2.09	-0.50

z-Scores Sample M169B

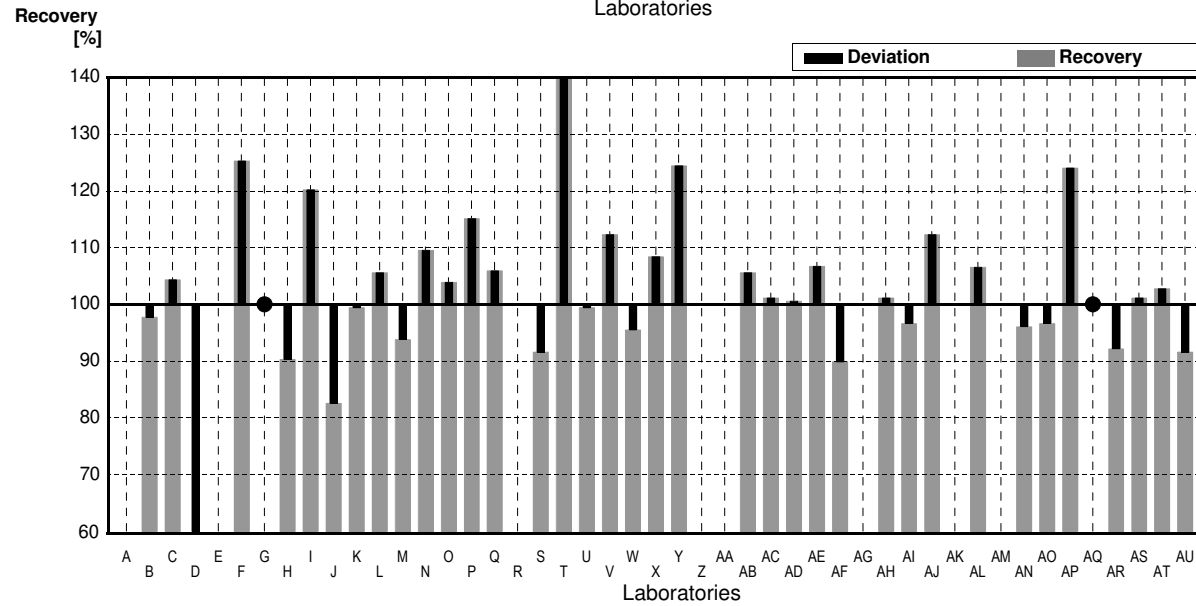
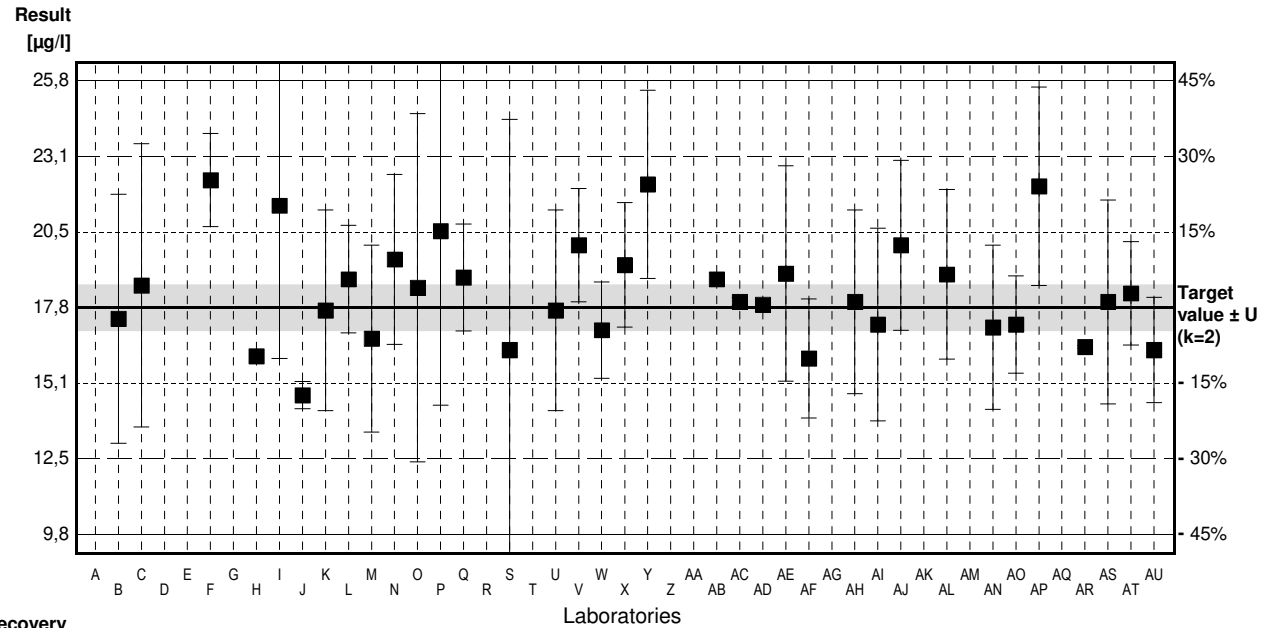
	Copper	Manganese	Molybdenum	Nickel	Selenium	Strontium	Uranium	Zinc	Tin
A			1.41			0.33	-0.51		0.19
B	-1.34	-0.64	0.18	-1.28	0.24		-0.44	-1.44	-0.39
C	-1.76			-0.76					
D	-1.31	-1.70		-1.71	-0.08	0.25	-3.20	-0.10	-4.27
E									
F	-1.15	1.91	-0.46	-0.81	-0.24		-0.29	0.48	0.10
G	-1.15	-0.64		-1.67	-0.24	-0.68	-2.18	-2.68	
H	-1.33	-1.38	-0.53	-1.00	1.66	-0.14	-1.82	1.64	
I	-0.46	2.76	2.47	1.00	2.14	0.25	0.73	-0.29	0.39
J	-0.32			0.48	0.28		0.07	0.77	
K	-0.69	-0.30	-0.09	-0.62	0.12	-0.65	-0.87	0.00	
L	-0.54	-0.06	0.35	0.05	1.01	-0.49	-0.22	0.00	0.00
M	-0.51	1.29	-0.85	-0.14	0.97	0.56	0.65	-0.19	-1.66
N	0.38	0.64		0.19				0.38	
O	-0.24	1.12	0.53	-1.14	0.57	0.80	-0.22	-0.48	-1.30
P	0.29	1.36	0.33	-0.19	-0.20	1.67	0.51	0.86	-1.16
Q	-0.74				-1.62	0.40	-0.95		
R									
S	-0.62	-0.64	-0.92	-1.14	0.69	0.74	-1.45	-0.77	-0.90
T	-0.56	-1.63		7.33	-0.76	-1.38	-1.28	0.03	
U	-0.30	0.11	0.04	-0.62	0.08	-0.59	-0.58	0.10	
V	0.13	0.21		-0.19	0.69		0.29	1.05	
W	0.59	-0.23		0.14	-0.28	-1.60	-0.07	0.29	
X	-0.48	-0.64		-0.43	0.36		0.95	-1.82	38.54
Y	0.66	1.95		1.28	1.50		1.45	0.38	
Z	-0.67								
AA	2.69	1.27						-2.30	
AB	-0.69	0.36	0.53	0.05	0.69	-0.49	-0.29	0.86	-0.87
AC	-0.64	0.06	-0.42	-0.14	0.08	-0.93	-1.82	-0.29	1.46
AD	0.30	0.51		0.04				0.31	
AE	0.58	0.91		0.43	-0.32		-0.73	0.38	
AF	-1.63	-0.85		-2.05	0.89			-1.73	
AG			-1.85				-0.87	1.53	
AH	-0.34	-0.83		-0.52	-0.16	-0.49	-0.22	-0.10	-0.10
AI	-0.66	0.40		0.00	-0.32	-1.11	0.22	-0.10	0.00
AJ	0.35	0.74		0.38	0.93	2.47	0.80	1.73	-0.10
AK									
AL	-0.88	0.30	0.70	-0.24	-0.44	0.93	-0.58	-1.61	0.00
AM							-2.34		
AN	-0.50	-0.30	0.88	-0.81	0.16	-0.19	-0.29	-0.58	0.00
AO	-0.85	-1.91	0.26	-0.29	0.12	0.99	3.56	4.03	
AP	-2.69	-0.21		6.76					
AQ	0.75	21.41		0.90				1.73	
AR	-2.97	-2.67	-14.24	-12.55	89.68	1.76	-11.49	-4.06	3.20
AS	-0.66	-0.30		-0.57		-0.74	0.07	0.19	
AT	-0.82	-0.53	0.53	-0.52	-0.04		-0.58	-0.58	-0.29
AU	0.82	-0.53	-9.87	3.28	-2.14	-0.62	18.62	0.10	-2.60

Sample M169A

Parameter Aluminium

Target value ± U (k=2) 17,8 µg/l ± 0,8 µg/l
 IFA result ± U (k=2) 17,8 µg/l ± 0,9 µg/l
 Stability test ± U (k=2) 17,5 µg/l ± 0,9 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	17.4	4.4	µg/l	98%	-0.29
C	18.58	5	µg/l	104%	0.57
D	1.71 *	1.32	µg/l	10%	-11.74
E			µg/l		
F	22.3	1.65	µg/l	125%	3.28
G	<20		µg/l	*	
H	16.08		µg/l	90%	-1.25
I	21.4	5.4	µg/l	120%	2.63
J	14.7	0.480	µg/l	83%	-2.26
K	17.7	3.54	µg/l	99%	-0.07
L	18.8	1.9	µg/l	106%	0.73
M	16.7	3.3	µg/l	94%	-0.80
N	19.5	3	µg/l	110%	1.24
O	18.5	6.15	µg/l	104%	0.51
P	20.5	6.15	µg/l	115%	1.97
Q	18.86	1.886	µg/l	106%	0.77
R			µg/l		
S	16.3	8.14	µg/l	92%	-1.09
T	34.38 *	1.84	µg/l	193%	12.10
U	17.7	3.54	µg/l	99%	-0.07
V	20.0	2.00	µg/l	112%	1.61
W	17.0	1.70	µg/l	96%	-0.58
X	19.3	2.2	µg/l	108%	1.09
Y	22.15	3.32	µg/l	124%	3.17
Z			µg/l		
AA			µg/l		
AB	18.8		µg/l	106%	0.73
AC	18.0	0.14	µg/l	101%	0.15
AD	17.90		µg/l	101%	0.07
AE	19.0	3.8	µg/l	107%	0.88
AF	16.0	2.1	µg/l	90%	-1.31
AG			µg/l		
AH	18.0	3.24	µg/l	101%	0.15
AI	17.2	3.4	µg/l	97%	-0.44
AJ	20.0	3.0	µg/l	112%	1.61
AK			µg/l		
AL	18.97	3	µg/l	107%	0.85
AM			µg/l		
AN	17.1	2.9	µg/l	96%	-0.51
AO	17.2	1.72	µg/l	97%	-0.44
AP	22.08	3.5	µg/l	124%	3.12
AQ	<50		µg/l	*	
AR	16.41	0.05	µg/l	92%	-1.01
AS	18.0	3.6	µg/l	101%	0.15
AT	18.3	1.83	µg/l	103%	0.36
AU	16.3	1.86	µg/l	92%	-1.09



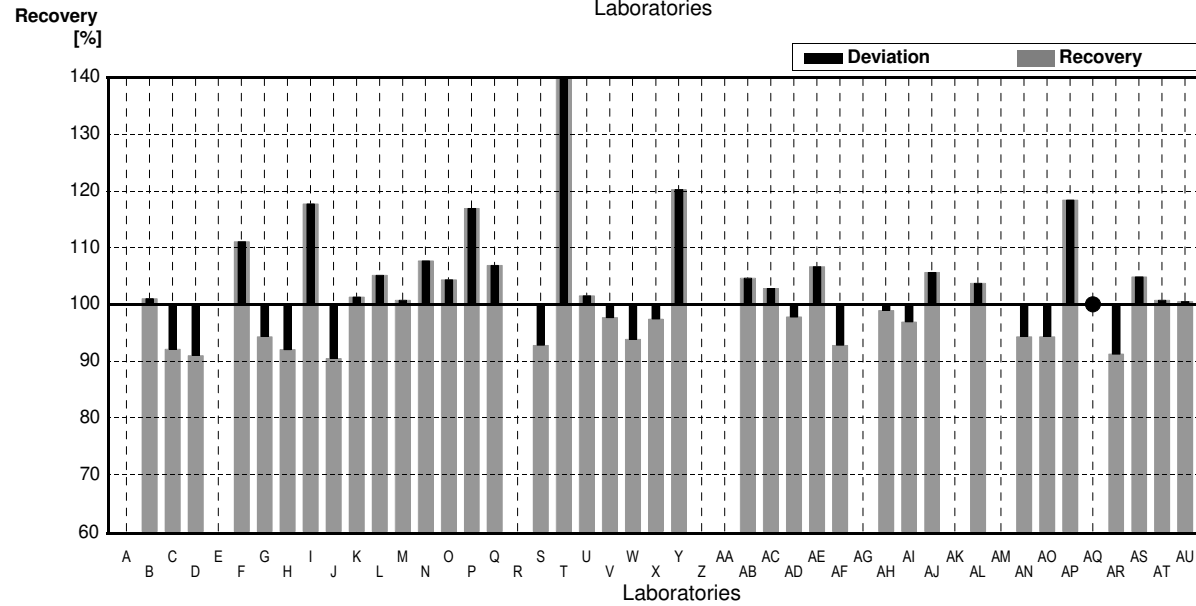
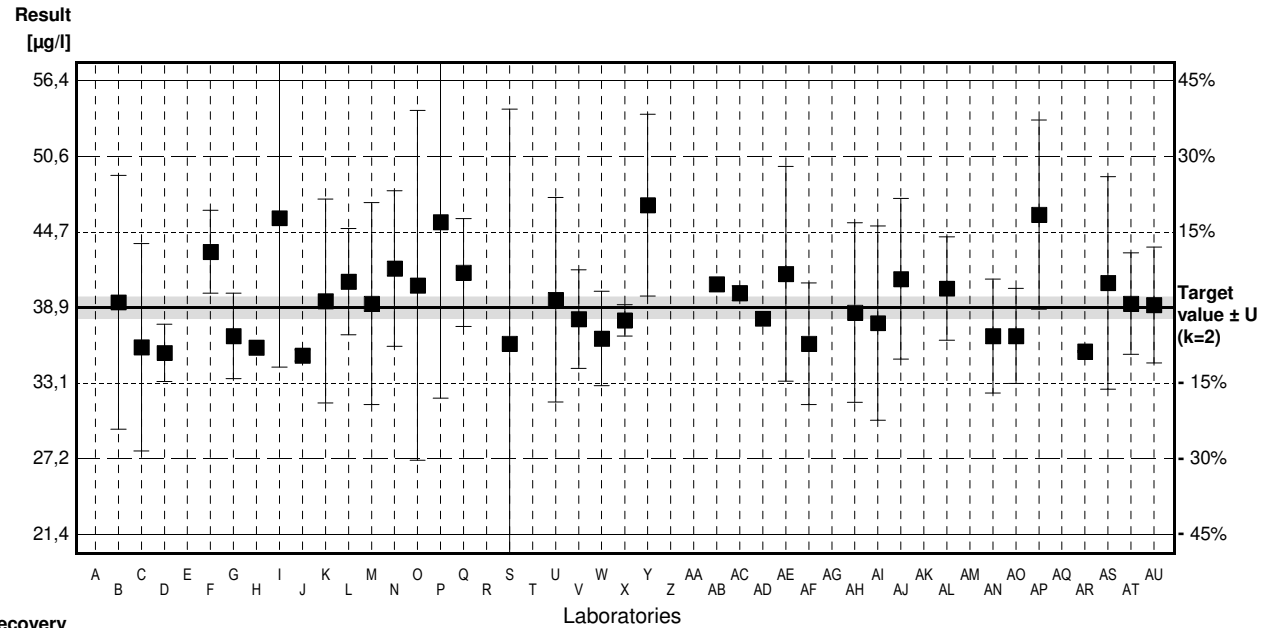
	All results	Outliers excl.	Unit
Mean ± CI(99%)	18,3 ± 1,9	18,4 ± 0,8	µg/l
Recov. ± CI(99%)	103,1 ± 10,7	103,2 ± 4,8	%
SD between labs	4,2	1,8	µg/l
RSD between labs	23,1	10,0	%
n for calculation	37	35	

Sample M169B

Parameter Aluminium

Target value ± U (k=2) 38,9 µg/l ± 0,8 µg/l
 IFA result ± U (k=2) 38,8 µg/l ± 2,1 µg/l
 Stability test ± U (k=2) 38,3 µg/l ± 2,0 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	39.3	9.8	µg/l	101%	0.13
C	35.83	8	µg/l	92%	-1.02
D	35.40	2.21	µg/l	91%	-1.17
E			µg/l		
F	43.2	3.2	µg/l	111%	1.44
G	36.7	3.30	µg/l	94%	-0.73
H	35.81		µg/l	92%	-1.03
I	45.8	11.5	µg/l	118%	2.30
J	35.2	0.437	µg/l	90%	-1.24
K	39.4	7.87	µg/l	101%	0.17
L	40.9	4.1	µg/l	105%	0.67
M	39.2	7.8	µg/l	101%	0.10
N	41.9	6	µg/l	108%	1.00
O	40.6	13.5	µg/l	104%	0.57
P	45.5	13.6	µg/l	117%	2.20
Q	41.59	4.159	µg/l	107%	0.90
R			µg/l		
S	36.1	18.1	µg/l	93%	-0.93
T	57.61 *	3.08	µg/l	148%	6.25
U	39.5	7.90	µg/l	102%	0.20
V	38.0	3.80	µg/l	98%	-0.30
W	36.5	3.65	µg/l	94%	-0.80
X	37.9	1.2	µg/l	97%	-0.33
Y	46.8	7.02	µg/l	120%	2.64
Z			µg/l		
AA			µg/l		
AB	40.7		µg/l	105%	0.60
AC	40.0	0.57	µg/l	103%	0.37
AD	38.05		µg/l	98%	-0.28
AE	41.5	8.3	µg/l	107%	0.87
AF	36.1	4.7	µg/l	93%	-0.93
AG			µg/l		
AH	38.5	6.93	µg/l	99%	-0.13
AI	37.7	7.5	µg/l	97%	-0.40
AJ	41.1	6.2	µg/l	106%	0.73
AK			µg/l		
AL	40.36	4	µg/l	104%	0.49
AM			µg/l		
AN	36.7	4.4	µg/l	94%	-0.73
AO	36.7	3.67	µg/l	94%	-0.73
AP	46.06	7.3	µg/l	118%	2.39
AQ	<50		µg/l	*	
AR	35.50	0.05	µg/l	91%	-1.14
AS	40.8	8.2	µg/l	105%	0.63
AT	39.2	3.92	µg/l	101%	0.10
AU	39.1	4.47	µg/l	101%	0.07



	All results	Outliers excl.	Unit
Mean ± CI(99%)	39,9 ± 1,9	39,4 ± 1,4	µg/l
Recov. ± CI(99%)	102,6 ± 4,9	101,4 ± 3,6	%
SD between labs	4,3	3,1	µg/l
RSD between labs	10,7	8,0	%
n for calculation	38	37	

Sample M169A

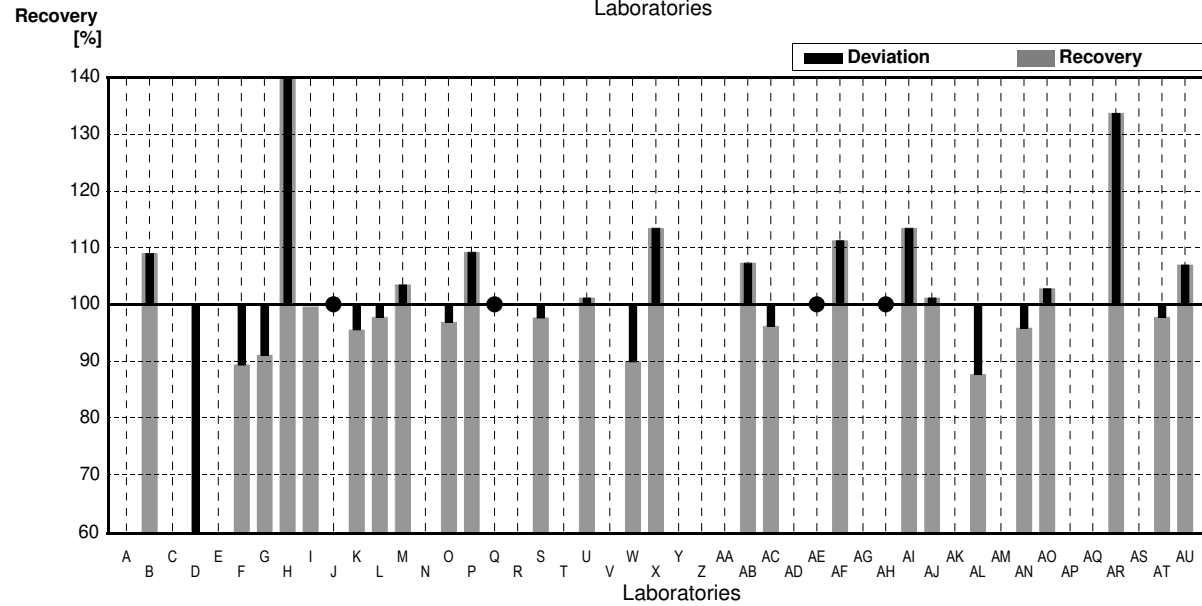
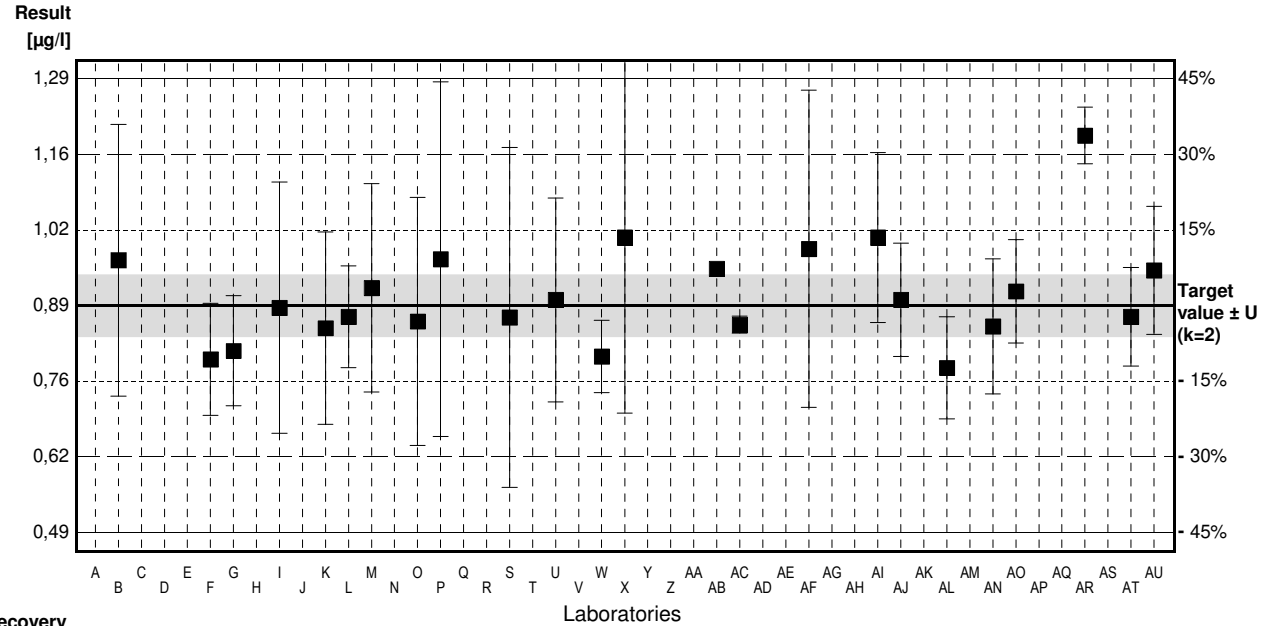
Parameter Antimony

Target value ± U (k=2) 0,89 µg/l ± 0,05 µg/l

IFA result ± U (k=2) 0,83 µg/l ± 0,06 µg/l

Stability test ± U (k=2) 0,87 µg/l ± 0,06 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,97	0,24	µg/l	109%	1,02
C			µg/l		
D	0,440 *	0,050	µg/l	49%	-5,75
E			µg/l		
F	0,795	0,099	µg/l	89%	-1,21
G	0,81	0,097	µg/l	91%	-1,02
H	8,73 *		µg/l	981%	100,10
I	0,886	0,222	µg/l	100%	-0,05
J	<1,00		µg/l	*	
K	0,850	0,170	µg/l	96%	-0,51
L	0,87	0,09	µg/l	98%	-0,26
M	0,921	0,184	µg/l	103%	0,40
N			µg/l		
O	0,862	0,219	µg/l	97%	-0,36
P	0,972	0,313	µg/l	109%	1,05
Q	<2		µg/l	*	
R			µg/l		
S	0,869	0,3	µg/l	98%	-0,27
T			µg/l		
U	0,90	0,18	µg/l	101%	0,13
V			µg/l		
W	0,80	0,064	µg/l	90%	-1,15
X	1,01	0,31	µg/l	113%	1,53
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	0,955		µg/l	107%	0,83
AC	0,856	0,015	µg/l	96%	-0,43
AD			µg/l		
AE	<1		µg/l	*	
AF	0,99	0,28	µg/l	111%	1,28
AG			µg/l		
AH	<1		µg/l	*	
AI	1,01	0,15	µg/l	113%	1,53
AJ	0,90	0,1	µg/l	101%	0,13
AK			µg/l		
AL	0,78	0,09	µg/l	88%	-1,40
AM			µg/l		
AN	0,853	0,119	µg/l	96%	-0,47
AO	0,915	0,0915	µg/l	103%	0,32
AP	n.n.		µg/l		
AQ			µg/l		
AR	1,19 *	0,05	µg/l	134%	3,83
AS			µg/l		
AT	0,87	0,087	µg/l	98%	-0,26
AU	0,952	0,113	µg/l	107%	0,79



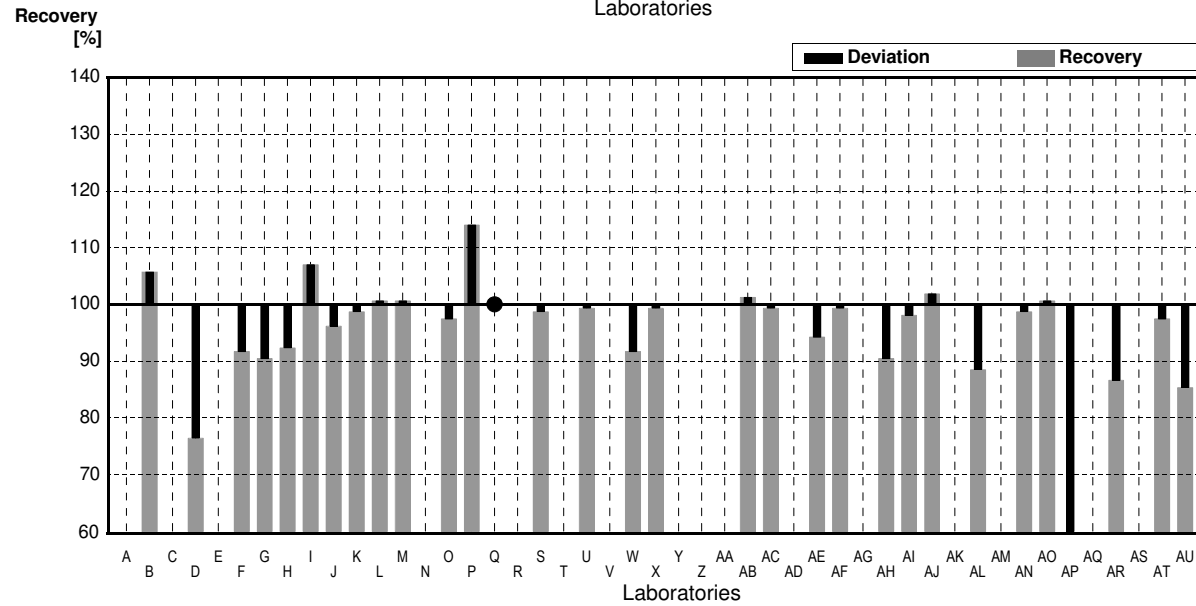
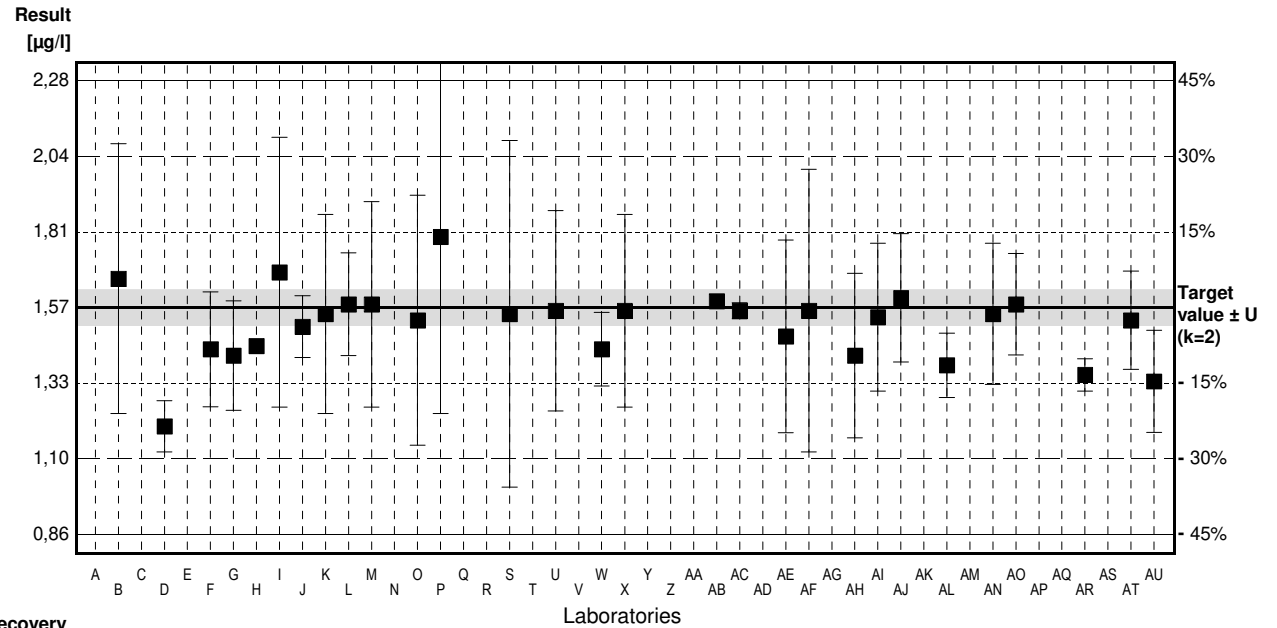
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,19 ± 0,84	0,90 ± 0,04	µg/l
Recov. ± CI(99%)	133,8 ± 94,9	100,6 ± 4,5	%
SD between labs	1,54	0,07	µg/l
RSD between labs	129,6	7,6	%
n for calculation	26	23	

Sample M169B

Parameter Antimony

Target value ± U (k=2) 1,57 µg/l ± 0,06 µg/l
 IFA result ± U (k=2) 1,47 µg/l ± 0,10 µg/l
 Stability test ± U (k=2) 1,51 µg/l ± 0,11 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	1.66	0.42	µg/l	106%	0.65
C			µg/l		
D	1.20 *	0.08	µg/l	76%	-2.68
E			µg/l		
F	1.44	0.179	µg/l	92%	-0.94
G	1.42	0.170	µg/l	90%	-1.09
H	1.45		µg/l	92%	-0.87
I	1.68	0.42	µg/l	107%	0.80
J	1.51	0.0962	µg/l	96%	-0.43
K	1.55	0.31	µg/l	99%	-0.14
L	1.58	0.16	µg/l	101%	0.07
M	1.58	0.32	µg/l	101%	0.07
N			µg/l		
O	1.53	0.389	µg/l	97%	-0.29
P	1.79 *	0.55	µg/l	114%	1.59
Q	<2		µg/l	*	
R			µg/l		
S	1.55	0.54	µg/l	99%	-0.14
T			µg/l		
U	1.56	0.312	µg/l	99%	-0.07
V			µg/l		
W	1.44	0.115	µg/l	92%	-0.94
X	1.56	0.3	µg/l	99%	-0.07
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	1.59		µg/l	101%	0.14
AC	1.56	0.025	µg/l	99%	-0.07
AD			µg/l		
AE	1.48	0.30	µg/l	94%	-0.65
AF	1.56	0.44	µg/l	99%	-0.07
AG			µg/l		
AH	1.42	0.256	µg/l	90%	-1.09
AI	1.54	0.23	µg/l	98%	-0.22
AJ	1.60	0.2	µg/l	102%	0.22
AK			µg/l		
AL	1.39	0.1	µg/l	89%	-1.30
AM			µg/l		
AN	1.55	0.22	µg/l	99%	-0.14
AO	1.58	0.158	µg/l	101%	0.07
AP	0.747 *	0.07	µg/l	48%	-5.96
AQ			µg/l		
AR	1.36	0.05	µg/l	87%	-1.52
AS			µg/l		
AT	1.53	0.153	µg/l	97%	-0.29
AU	1.34	0.159	µg/l	85%	-1.66



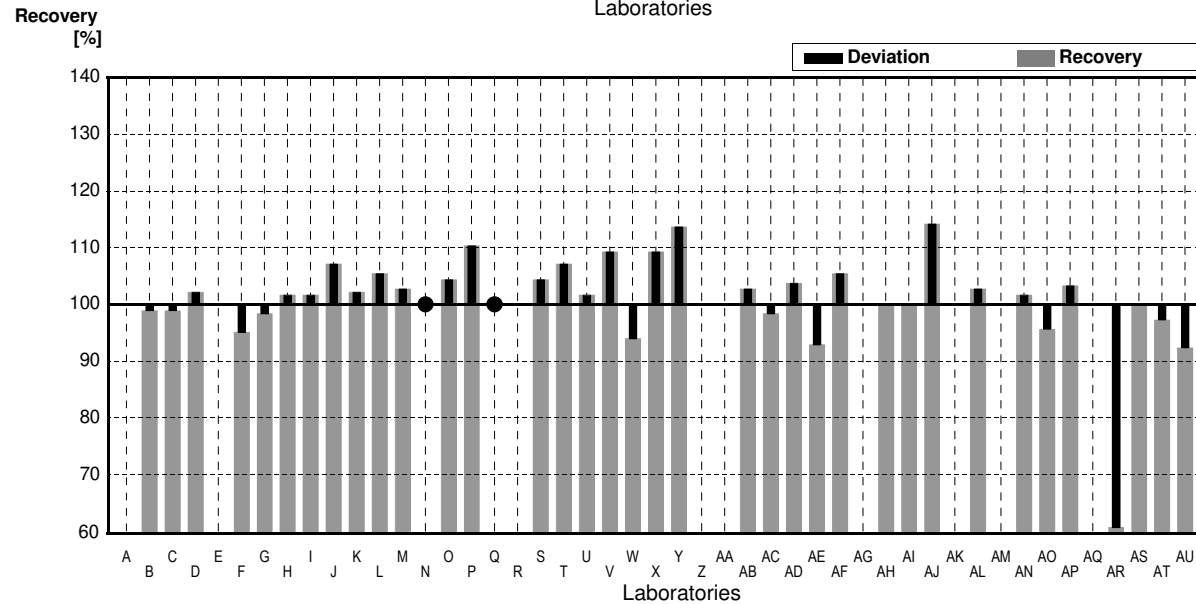
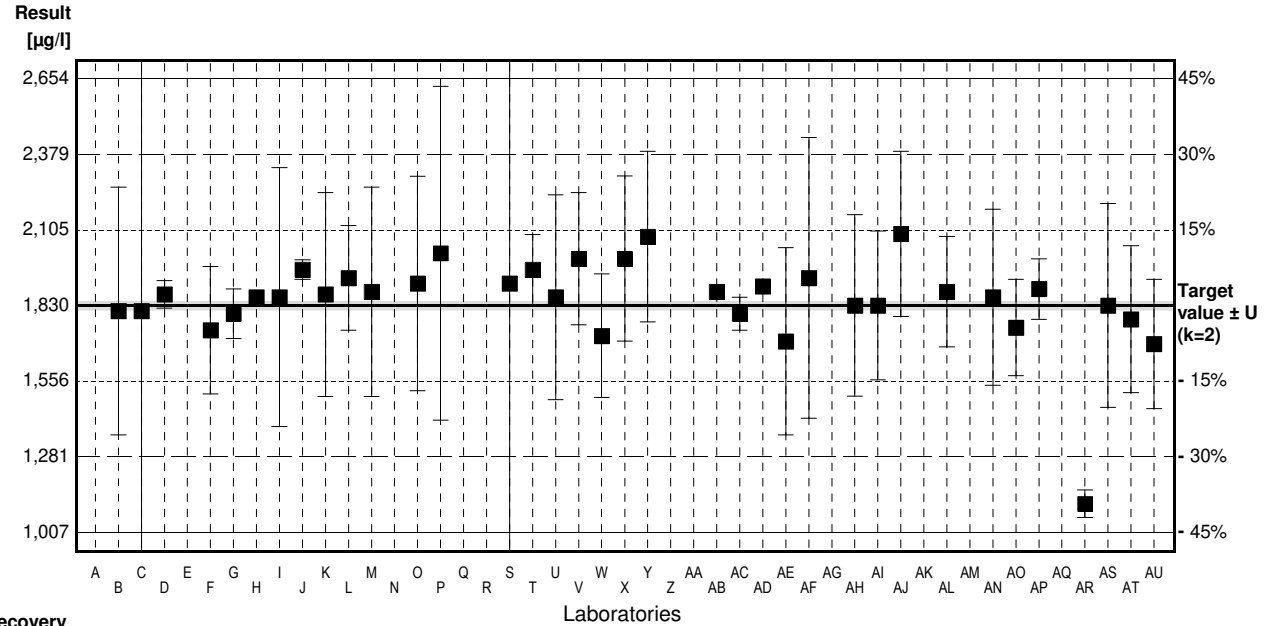
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,49 ± 0,09	1,52 ± 0,05	µg/l
Recov. ± CI(99%)	95,0 ± 5,8	96,7 ± 2,9	%
SD between labs	0,18	0,09	µg/l
RSD between labs	12,1	5,6	%
n for calculation	30	27	

Sample M169A
Parameter Arsenic

Target value ± U (k=2) 1,830 µg/l ± 0,016 µg/l
 IFA result ± U (k=2) 1,77 µg/l ± 0,19 µg/l
 Stability test ± U (k=2) 1,82 µg/l ± 0,19 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	1.81	0.45	µg/l	99%	-0.15
C	1.81	1	µg/l	99%	-0.15
D	1.87	0.050	µg/l	102%	0.30
E			µg/l		
F	1.74	0.231	µg/l	95%	-0.67
G	1.80	0.090	µg/l	98%	-0.22
H	1.86		µg/l	102%	0.22
I	1.86	0.47	µg/l	102%	0.22
J	1.96	0.0354	µg/l	107%	0.97
K	1.87	0.37	µg/l	102%	0.30
L	1.93	0.19	µg/l	105%	0.75
M	1.88	0.38	µg/l	103%	0.37
N	<2.0		µg/l	*	
O	1.91	0.389	µg/l	104%	0.60
P	2.02	0.606	µg/l	110%	1.42
Q	<2		µg/l	*	
R			µg/l		
S	1.91	0.95	µg/l	104%	0.60
T	1.960	0.128	µg/l	107%	0.97
U	1.86	0.372	µg/l	102%	0.22
V	2.00	0.240	µg/l	109%	1.27
W	1.72	0.224	µg/l	94%	-0.82
X	2.00	0.30	µg/l	109%	1.27
Y	2.08	0.31	µg/l	114%	1.87
Z			µg/l		
AA			µg/l		
AB	1.88		µg/l	103%	0.37
AC	1.80	0.06	µg/l	98%	-0.22
AD	1.899		µg/l	104%	0.52
AE	1.70	0.34	µg/l	93%	-0.97
AF	1.93	0.51	µg/l	105%	0.75
AG			µg/l		
AH	1.83	0.329	µg/l	100%	0.00
AI	1.83	0.27	µg/l	100%	0.00
AJ	2.09	0.3	µg/l	114%	1.95
AK			µg/l		
AL	1.88	0.2	µg/l	103%	0.37
AM			µg/l		
AN	1.86	0.32	µg/l	102%	0.22
AO	1.75	0.175	µg/l	96%	-0.60
AP	1.89	0.11	µg/l	103%	0.45
AQ			µg/l		
AR	1.11	*	µg/l	61%	-5.39
AS	1.83	0.37	µg/l	100%	0.00
AT	1.78	0.267	µg/l	97%	-0.37
AU	1.69	0.235	µg/l	92%	-1.05

	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,850 ± 0,072	1,871 ± 0,045	µg/l
Recov. ± CI(99%)	101,1 ± 4,0	102,2 ± 2,5	%
SD between labs	0,159	0,097	µg/l
RSD between labs	8,6	5,2	%
n for calculation	36	35	

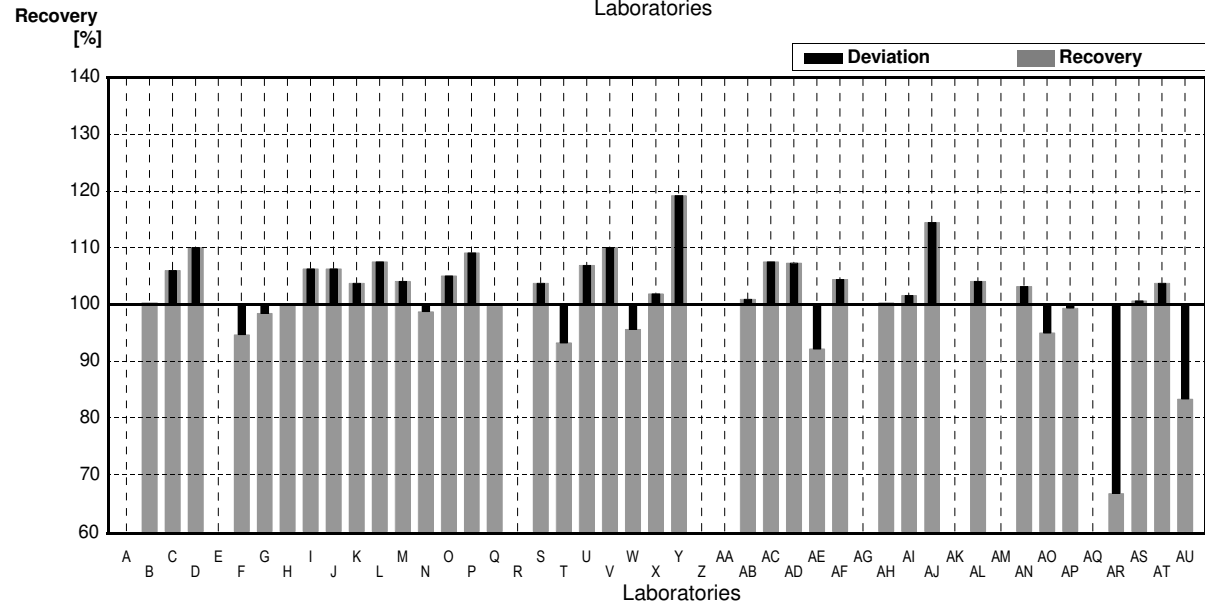
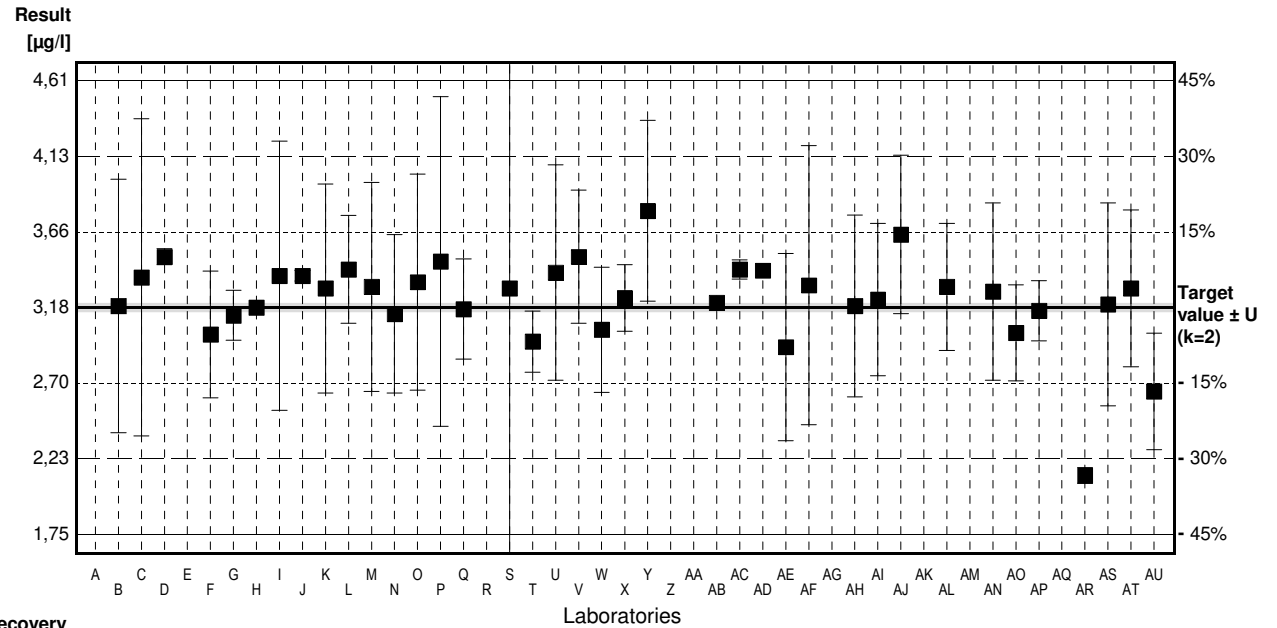


Sample M169B
Parameter Arsenic

Target value ± U (k=2) 3,18 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 3,14 µg/l ± 0,33 µg/l
 Stability test ± U (k=2) 3,31 µg/l ± 0,35 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	3.19	0.80	µg/l	100%	0.04
C	3.37	1	µg/l	106%	0.82
D	3.50	0.05	µg/l	110%	1.38
E			µg/l		
F	3.01	0.400	µg/l	95%	-0.73
G	3.13	0.157	µg/l	98%	-0.22
H	3.18		µg/l	100%	0.00
I	3.38	0.85	µg/l	106%	0.86
J	3.38	0.0332	µg/l	106%	0.86
K	3.30	0.66	µg/l	104%	0.52
L	3.42	0.34	µg/l	108%	1.03
M	3.31	0.66	µg/l	104%	0.56
N	3.14	0.5	µg/l	99%	-0.17
O	3.34	0.681	µg/l	105%	0.69
P	3.47	1.04	µg/l	109%	1.25
Q	3.17	0.317	µg/l	100%	-0.04
R			µg/l		
S	3.30	1.66	µg/l	104%	0.52
T	2.965	0.193	µg/l	93%	-0.93
U	3.40	0.68	µg/l	107%	0.95
V	3.50	0.420	µg/l	110%	1.38
W	3.04	0.395	µg/l	96%	-0.60
X	3.24	0.21	µg/l	102%	0.26
Y	3.79	0.57	µg/l	119%	2.63
Z			µg/l		
AA			µg/l		
AB	3.21		µg/l	101%	0.13
AC	3.42	0.06	µg/l	108%	1.03
AD	3.413		µg/l	107%	1.00
AE	2.93	0.59	µg/l	92%	-1.08
AF	3.32	0.88	µg/l	104%	0.60
AG			µg/l		
AH	3.19	0.574	µg/l	100%	0.04
AI	3.23	0.48	µg/l	102%	0.22
AJ	3.64	0.5	µg/l	114%	1.98
AK			µg/l		
AL	3.31	0.4	µg/l	104%	0.56
AM			µg/l		
AN	3.28	0.56	µg/l	103%	0.43
AO	3.02	0.302	µg/l	95%	-0.69
AP	3.16	0.19	µg/l	99%	-0.09
AQ			µg/l		
AR	2.12	*	0.05	67%	-4.57
AS	3.20	0.64	µg/l	101%	0.09
AT	3.30	0.495	µg/l	104%	0.52
AU	2.65	*	0.368	83%	-2.28

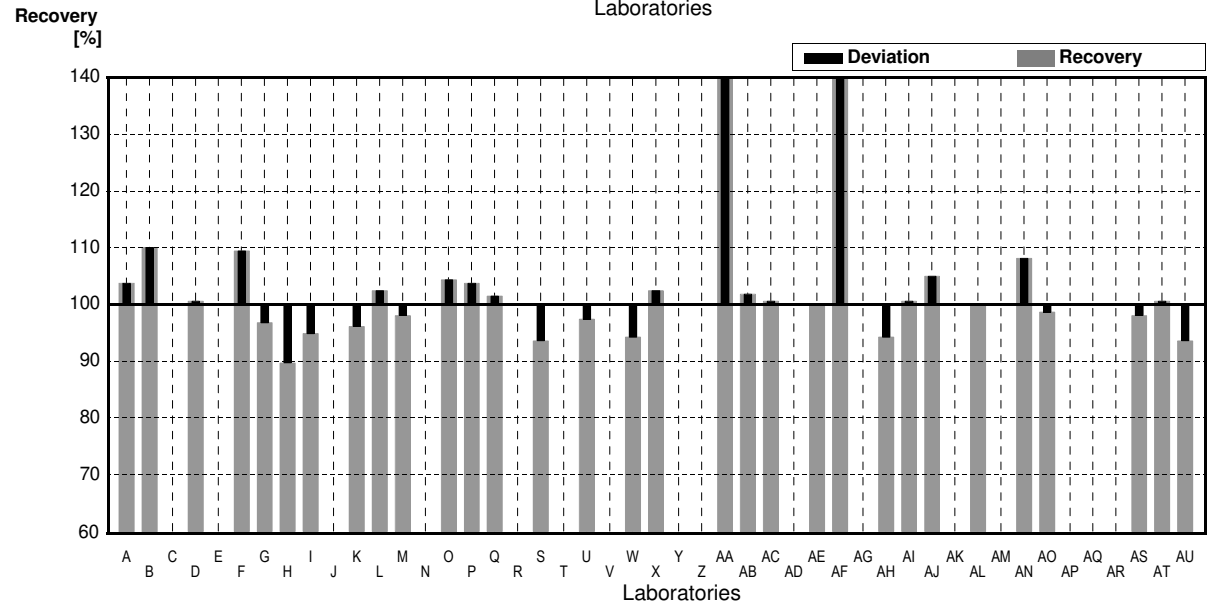
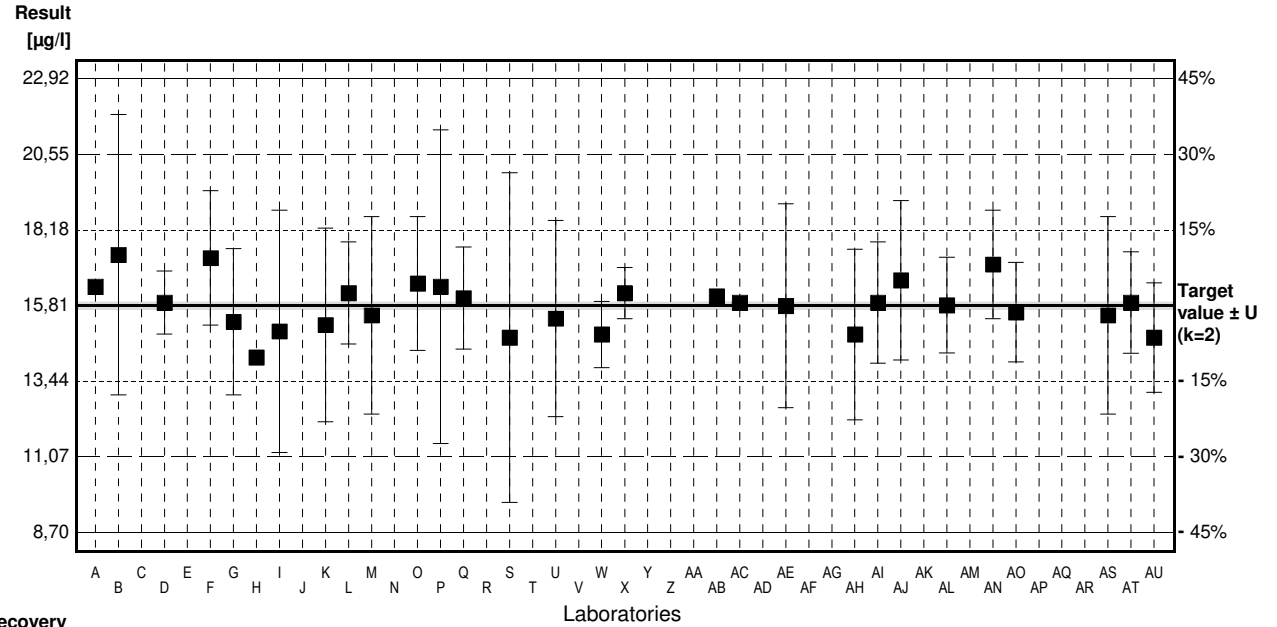
	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,23 ± 0,12	3,28 ± 0,08	µg/l
Recov. ± CI(99%)	101,7 ± 3,8	103,2 ± 2,6	%
SD between labs	0,28	0,18	µg/l
RSD between labs	8,5	5,5	%
n for calculation	38	36	



Sample M169A
Parameter Barium

Target value ± U (k=2) 15,81 µg/l ± 0,12 µg/l
 IFA result ± U (k=2) 16,0 µg/l ± 0,8 µg/l
 Stability test ± U (k=2) 15,9 µg/l ± 0,8 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	16.4		µg/l	104%	0.83
B	17.4	4.4	µg/l	110%	2.23
C			µg/l		
D	15.9	0.99	µg/l	101%	0.13
E			µg/l		
F	17.3	2.11	µg/l	109%	2.09
G	15.3	2.29	µg/l	97%	-0.72
H	14.18		µg/l	90%	-2.29
I	15.0	3.8	µg/l	95%	-1.14
J			µg/l		
K	15.2	3.04	µg/l	96%	-0.86
L	16.2	1.6	µg/l	102%	0.55
M	15.5	3.1	µg/l	98%	-0.44
N			µg/l		
O	16.5	2.1	µg/l	104%	0.97
P	16.4	4.92	µg/l	104%	0.83
Q	16.04	1.604	µg/l	101%	0.32
R			µg/l		
S	14.8	5.17	µg/l	94%	-1.42
T			µg/l		
U	15.4	3.08	µg/l	97%	-0.58
V			µg/l		
W	14.9	1.04	µg/l	94%	-1.28
X	16.2	0.8	µg/l	102%	0.55
Y			µg/l		
Z			µg/l		
AA	31.1 *	4.35	µg/l	197%	21.49
AB	16.1		µg/l	102%	0.41
AC	15.9	0.02	µg/l	101%	0.13
AD			µg/l		
AE	15.8	3.2	µg/l	100%	-0.01
AF	26.0 *		µg/l	164%	14.32
AG			µg/l		
AH	14.9	2.68	µg/l	94%	-1.28
AI	15.9	1.9	µg/l	101%	0.13
AJ	16.6	2.5	µg/l	105%	1.11
AK			µg/l		
AL	15.82	1.5	µg/l	100%	0.01
AM			µg/l		
AN	17.1	1.7	µg/l	108%	1.81
AO	15.6	1.56	µg/l	99%	-0.30
AQ			µg/l		
AR			µg/l		
AS	15.5	3.1	µg/l	98%	-0.44
AT	15.9	1.59	µg/l	101%	0.13
AU	14.8	1.72	µg/l	94%	-1.42



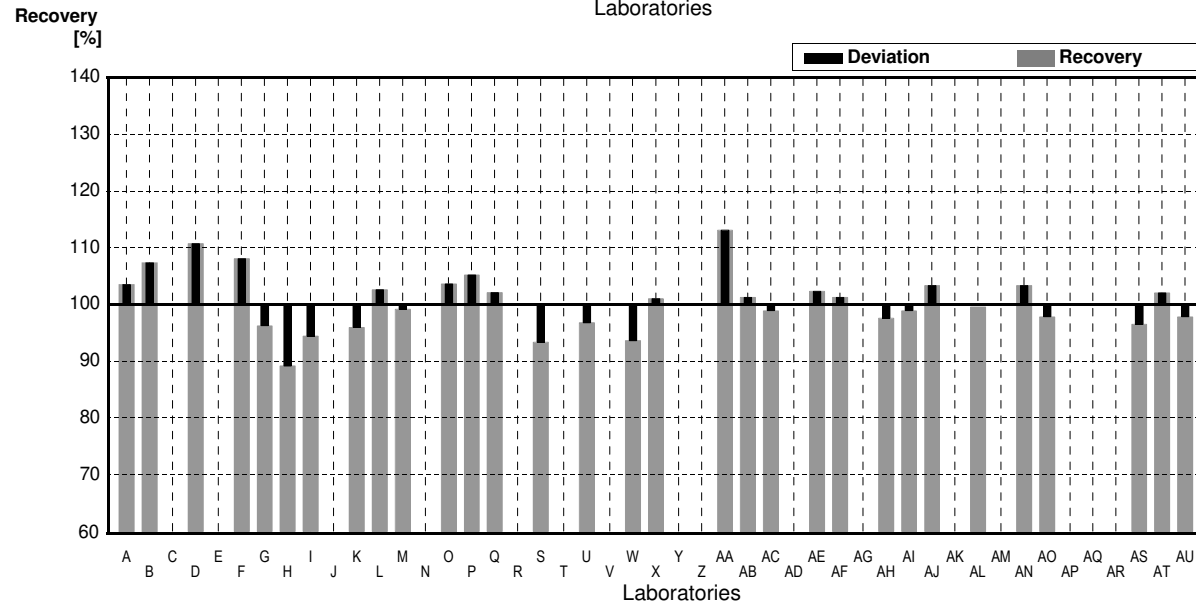
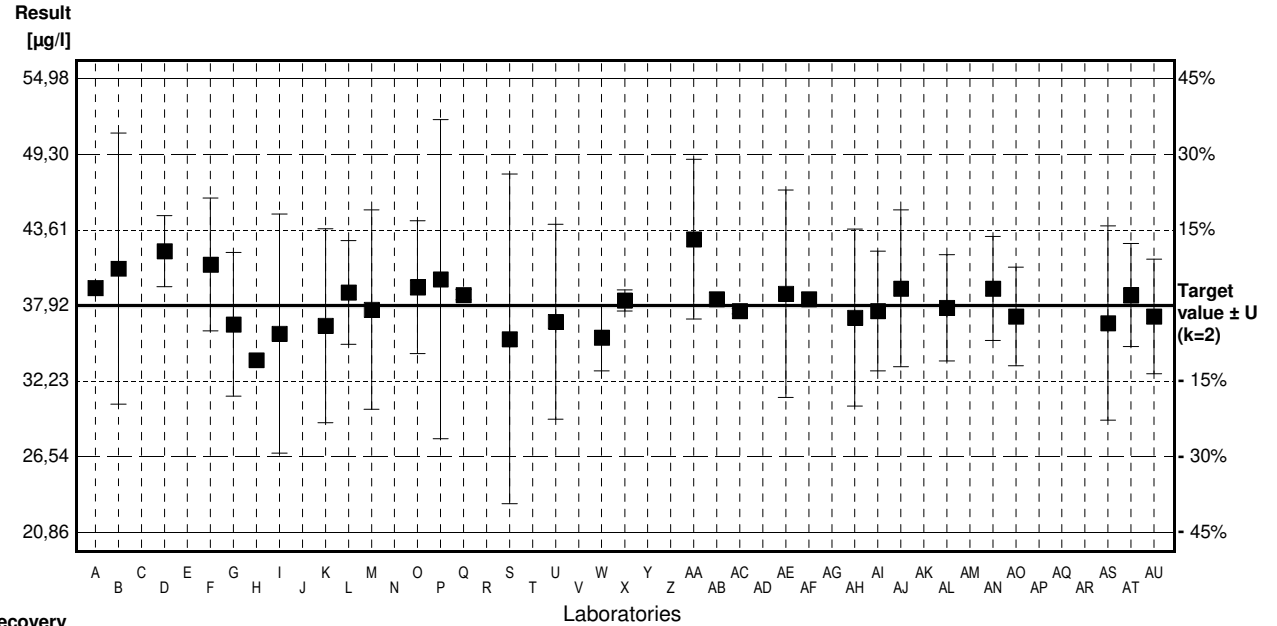
	All results	Outliers excl.	Unit
Mean ± CI(99%)	16,63 ± 1,65	15,81 ± 0,40	µg/l
Recov. ± CI(99%)	105,2 ± 10,4	100,0 ± 2,5	%
SD between labs	3,33	0,77	µg/l
RSD between labs	20,0	4,9	%
n for calculation	31	29	

Sample M169B
Parameter Barium

Target value ± U (k=2) 37,92 µg/l ± 0,17 µg/l
 IFA result ± U (k=2) 37,5 µg/l ± 0,9 µg/l
 Stability test ± U (k=2) 37,0 µg/l ± 0,8 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	39,25		µg/l	104%	0,78
B	40,7	10,2	µg/l	107%	1,63
C			µg/l		
D	42,0	2,68	µg/l	111%	2,39
E			µg/l		
F	41,0	5,00	µg/l	108%	1,80
G	36,5	5,4	µg/l	96%	-0,83
H	33,81		µg/l	89%	-2,41
I	35,8	9,0	µg/l	94%	-1,24
J			µg/l		
K	36,4	7,29	µg/l	96%	-0,89
L	38,9	3,9	µg/l	103%	0,57
M	37,6	7,5	µg/l	99%	-0,19
N			µg/l		
O	39,3	5	µg/l	104%	0,81
P	39,9	12,0	µg/l	105%	1,16
Q	38,72	0,3872	µg/l	102%	0,47
R			µg/l		
S	35,4	12,4	µg/l	93%	-1,48
T			µg/l		
U	36,7	7,34	µg/l	97%	-0,71
V			µg/l		
W	35,5	2,49	µg/l	94%	-1,42
X	38,3	0,8	µg/l	101%	0,22
Y			µg/l		
Z			µg/l		
AA	42,9	6,01	µg/l	113%	2,92
AB	38,4		µg/l	101%	0,28
AC	37,5	0,21	µg/l	99%	-0,25
AD			µg/l		
AE	38,8	7,8	µg/l	102%	0,52
AF	38,4		µg/l	101%	0,28
AG			µg/l		
AH	37,0	6,66	µg/l	98%	-0,54
AI	37,5	4,5	µg/l	99%	-0,25
AJ	39,2	5,9	µg/l	103%	0,75
AK			µg/l		
AL	37,75	4	µg/l	100%	-0,10
AM			µg/l		
AN	39,2	3,9	µg/l	103%	0,75
AO	37,1	3,71	µg/l	98%	-0,48
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	36,6	7,3	µg/l	97%	-0,77
AT	38,7	3,87	µg/l	102%	0,46
AU	37,1	4,31	µg/l	98%	-0,48

	All results	Outliers excl.	Unit
Mean ± CI(99%)	38,13 ± 0,97	38,13 ± 0,97	µg/l
Recov. ± CI(99%)	100,5 ± 2,6	100,5 ± 2,6	%
SD between labs	1,96	1,96	µg/l
RSD between labs	5,1	5,1	%
n for calculation	31	31	

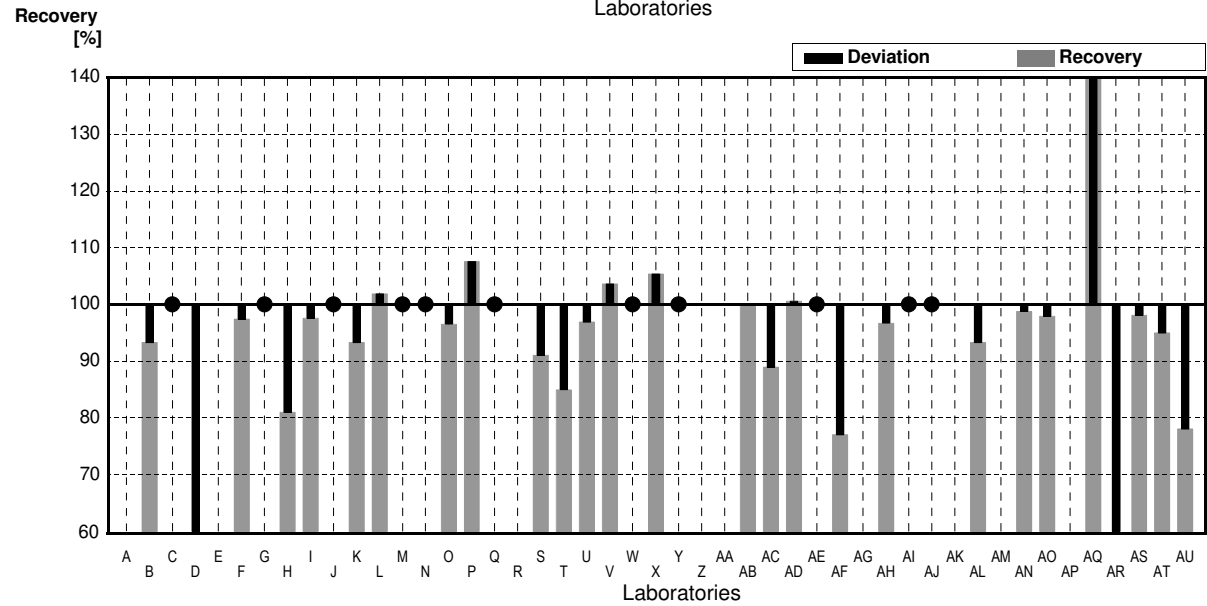
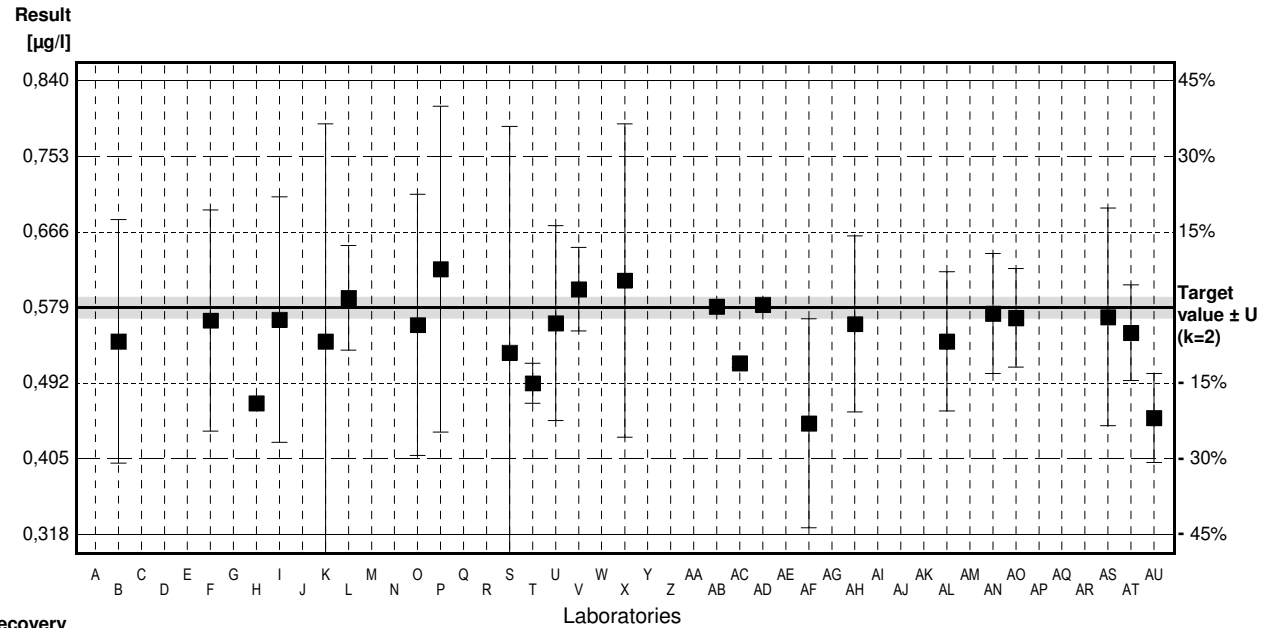


Sample M169A

Parameter Lead

Target value ± U (k=2) 0,579 µg/l ± 0,012 µg/l
 IFA result ± U (k=2) 0,559 µg/l ± 0,018 µg/l
 Stability test ± U (k=2) 0,562 µg/l ± 0,017 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0.54	0.14	µg/l	93%	-1.01
C	<1		µg/l	*	
D	0.150 *	0.15	µg/l	26%	-11.06
E			µg/l		
F	0.564	0.127	µg/l	97%	-0.39
G	<0.6		µg/l	*	
H	0.469		µg/l	81%	-2.84
I	0.565	0.141	µg/l	98%	-0.36
J	<1.00		µg/l	*	
K	0.540	0.250	µg/l	93%	-1.01
L	0.59	0.06	µg/l	102%	0.28
M	<1		µg/l	*	
N	<2.0		µg/l	*	
O	0.559	0.15	µg/l	97%	-0.52
P	0.623	0.187	µg/l	108%	1.13
Q	<2		µg/l	*	
R			µg/l		
S	0.527	0.26	µg/l	91%	-1.34
T	0.492	0.023	µg/l	85%	-2.24
U	0.561	0.112	µg/l	97%	-0.46
V	0.60	0.0480	µg/l	104%	0.54
W	<1.0		µg/l	*	
X	0.61	0.18	µg/l	105%	0.80
Y	<1		µg/l	*	
Z			µg/l		
AA			µg/l		
AB	0.580		µg/l	100%	0.03
AC	0.515	0.005	µg/l	89%	-1.65
AD	0.5823		µg/l	101%	0.09
AE	<1		µg/l	*	
AF	0.446 *	0.120	µg/l	77%	-3.43
AG			µg/l		
AH	0.56	0.101	µg/l	97%	-0.49
AI	<1.0		µg/l	*	
AJ	<1		µg/l	*	
AK			µg/l		
AL	0.54	0.08	µg/l	93%	-1.01
AM			µg/l		
AN	0.572	0.069	µg/l	99%	-0.18
AO	0.567	0.0567	µg/l	98%	-0.31
AP	n.n.		µg/l		
AQ	0.98 *	0.488	µg/l	169%	10.34
AR	0.300 *	0.05	µg/l	52%	-7.19
AS	0.568	0.125	µg/l	98%	-0.28
AT	0.55	0.055	µg/l	95%	-0.75
AU	0.452 *	0.051	µg/l	78%	-3.27



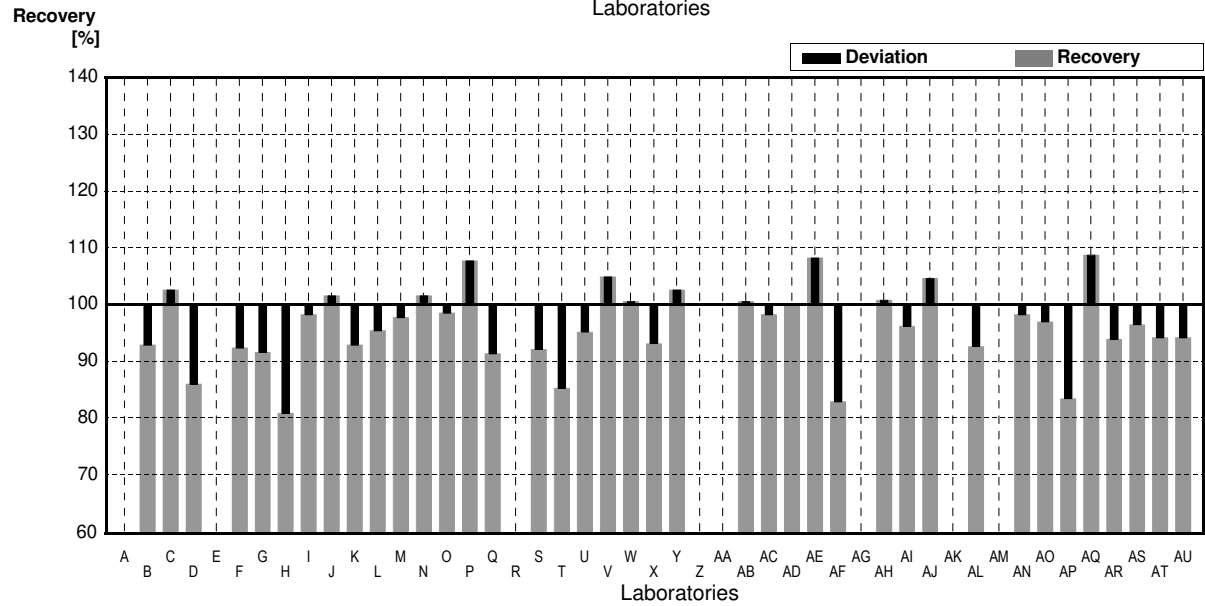
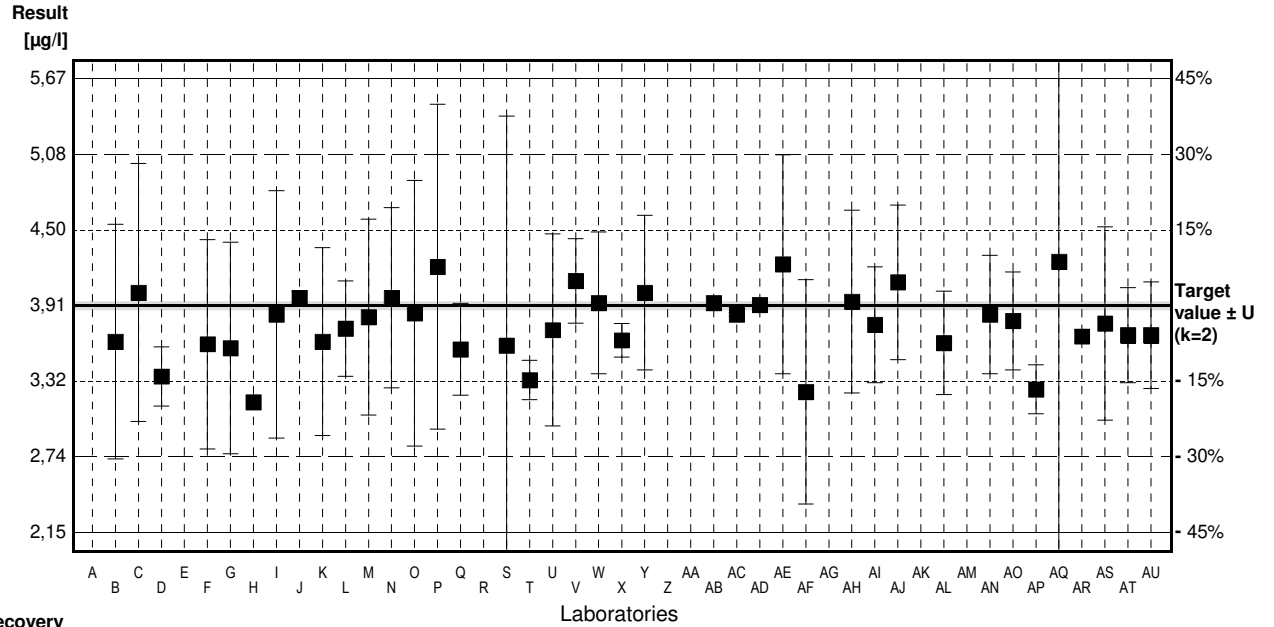
	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,541 ± 0,071	0,558 ± 0,022	µg/l
Recov. ± CI(99%)	93,4 ± 12,2	96,4 ± 3,8	%
SD between labs	0,132	0,036	µg/l
RSD between labs	24,4	6,5	%
n for calculation	27	22	

Sample M169B

Parameter Lead

Target value ± U (k=2) 3,91 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 3,65 µg/l ± 0,10 µg/l
 Stability test ± U (k=2) 3,68 µg/l ± 0,10 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	3,63	0,91	µg/l	93%	-1,07
C	4,01	1	µg/l	103%	0,38
D	3,36	0,23	µg/l	86%	-2,10
E			µg/l		
F	3,61	0,812	µg/l	92%	-1,15
G	3,58	0,82	µg/l	92%	-1,26
H	3,16		µg/l	81%	-2,86
I	3,84	0,96	µg/l	98%	-0,27
J	3,97	0,0507	µg/l	102%	0,23
K	3,63	0,73	µg/l	93%	-1,07
L	3,73	0,37	µg/l	95%	-0,69
M	3,82	0,76	µg/l	98%	-0,34
N	3,97	0,7	µg/l	102%	0,23
O	3,85	1,03	µg/l	98%	-0,23
P	4,21	1,26	µg/l	108%	1,15
Q	3,57	0,357	µg/l	91%	-1,30
R			µg/l		
S	3,60	1,78	µg/l	92%	-1,18
T	3,332	0,153	µg/l	85%	-2,21
U	3,72	0,744	µg/l	95%	-0,73
V	4,10	0,328	µg/l	105%	0,73
W	3,93	0,55	µg/l	101%	0,08
X	3,64	0,13	µg/l	93%	-1,03
Y	4,01	0,60	µg/l	103%	0,38
Z			µg/l		
AA			µg/l		
AB	3,93		µg/l	101%	0,08
AC	3,84	0,012	µg/l	98%	-0,27
AD	3,915		µg/l	100%	0,02
AE	4,23	0,85	µg/l	108%	1,22
AF	3,24	0,87	µg/l	83%	-2,56
AG			µg/l		
AH	3,94	0,709	µg/l	101%	0,11
AI	3,76	0,45	µg/l	96%	-0,57
AJ	4,09	0,6	µg/l	105%	0,69
AK			µg/l		
AL	3,62	0,4	µg/l	93%	-1,11
AM			µg/l		
AN	3,84	0,46	µg/l	98%	-0,27
AO	3,79	0,379	µg/l	97%	-0,46
AP	3,26	0,19	µg/l	83%	-2,48
AQ	4,25	2,111	µg/l	109%	1,30
AR	3,67	0,05	µg/l	94%	-0,92
AS	3,77	0,75	µg/l	96%	-0,53
AT	3,68	0,368	µg/l	94%	-0,88
AU	3,68	0,413	µg/l	94%	-0,88

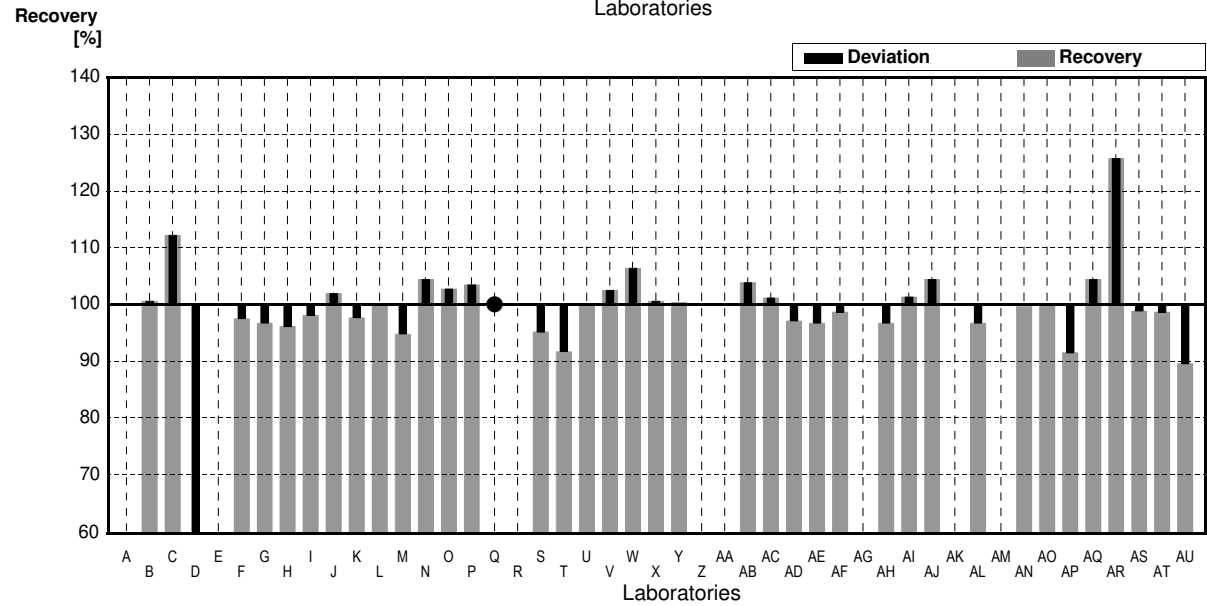
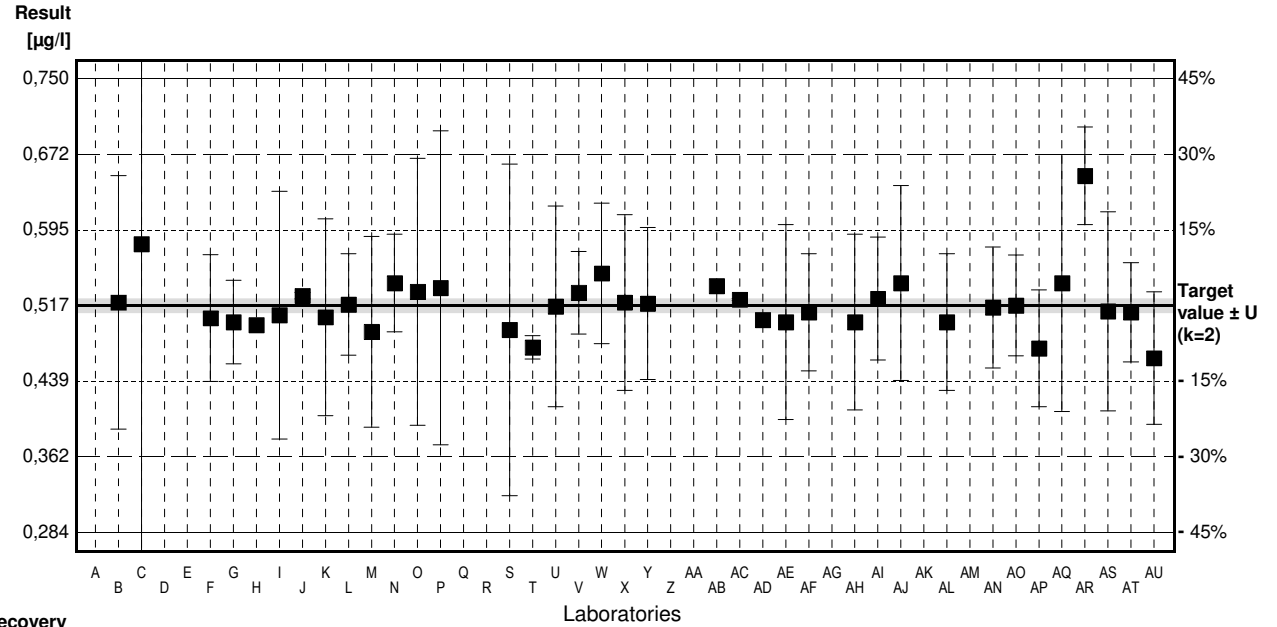


	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,76 ± 0,12	3,76 ± 0,12	µg/l
Recov. ± CI(99%)	96,3 ± 2,9	96,3 ± 2,9	%
SD between labs	0,27	0,27	µg/l
RSD between labs	7,1	7,1	%
n for calculation	39	39	

Sample M169A
Parameter Cadmium

Target value ± U (k=2) 0,517 µg/l ± 0,007 µg/l
 IFA result ± U (k=2) 0,52 µg/l ± 0,03 µg/l
 Stability test ± U (k=2) 0,52 µg/l ± 0,03 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0.52	0.13	µg/l	101%	0.11
C	0.58	†	µg/l	112%	2.26
D	0.100 *	0.05	µg/l	19%	-14.94
E			µg/l		
F	0.504	0.065	µg/l	97%	-0.47
G	0.50	0.0429	µg/l	97%	-0.61
H	0.497		µg/l	96%	-0.72
I	0.507	0.127	µg/l	98%	-0.36
J	0.527	0.00317	µg/l	102%	0.36
K	0.505	0.101	µg/l	98%	-0.43
L	0.518	0.052	µg/l	100%	0.04
M	0.490	0.098	µg/l	95%	-0.97
N	0.54	0.05	µg/l	104%	0.82
O	0.531	0.137	µg/l	103%	0.50
P	0.535	0.161	µg/l	103%	0.64
Q	<1		µg/l	*	
R			µg/l		
S	0.492	0.17	µg/l	95%	-0.90
T	0.474	0.012	µg/l	92%	-1.54
U	0.516	0.103	µg/l	100%	-0.04
V	0.53	0.0424	µg/l	103%	0.47
W	0.55	0.072	µg/l	106%	1.18
X	0.52	0.09	µg/l	101%	0.11
Y	0.519	0.078	µg/l	100%	0.07
Z			µg/l		
AA			µg/l		
AB	0.537		µg/l	104%	0.72
AC	0.523	0.001	µg/l	101%	0.21
AD	0.5021		µg/l	97%	-0.53
AE	0.500	0.1	µg/l	97%	-0.61
AF	0.51	0.06	µg/l	99%	-0.25
AG			µg/l		
AH	0.50	0.09	µg/l	97%	-0.61
AI	0.524	0.063	µg/l	101%	0.25
AJ	0.54	0.1	µg/l	104%	0.82
AK			µg/l		
AL	0.50	0.07	µg/l	97%	-0.61
AM			µg/l		
AN	0.515	0.062	µg/l	100%	-0.07
AO	0.517	0.0517	µg/l	100%	0.00
AP	0.473	0.06	µg/l	91%	-1.58
AQ	0.54	0.132	µg/l	104%	0.82
AR	0.65 *	0.05	µg/l	126%	4.76
AS	0.511	0.102	µg/l	99%	-0.21
AT	0.51	0.051	µg/l	99%	-0.25
AU	0.463	0.068	µg/l	90%	-1.93

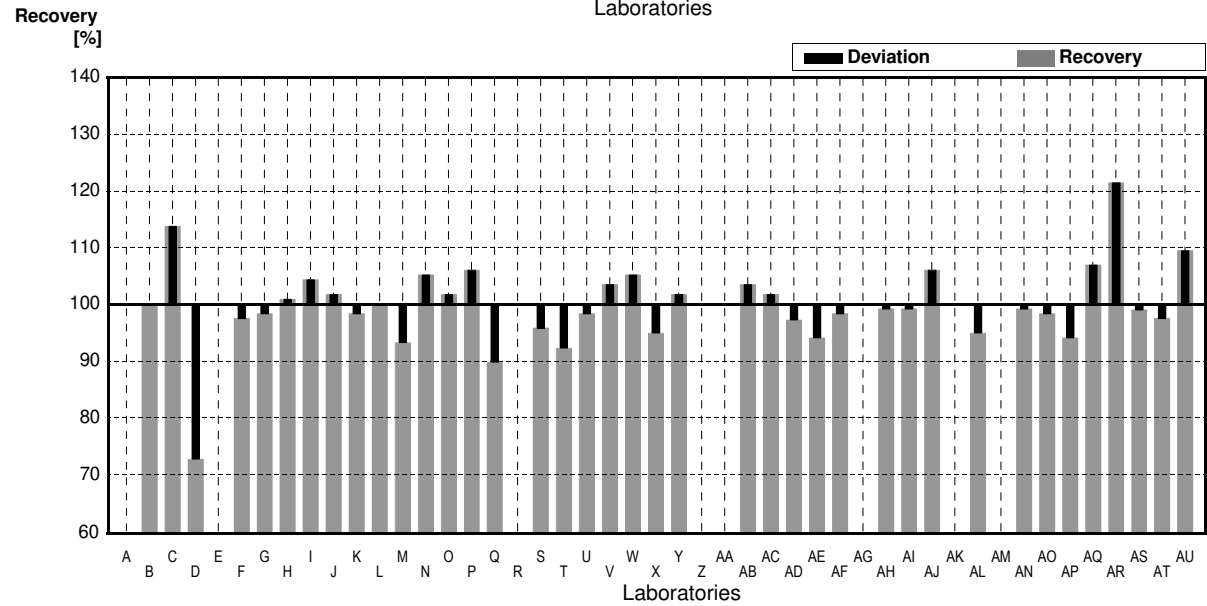
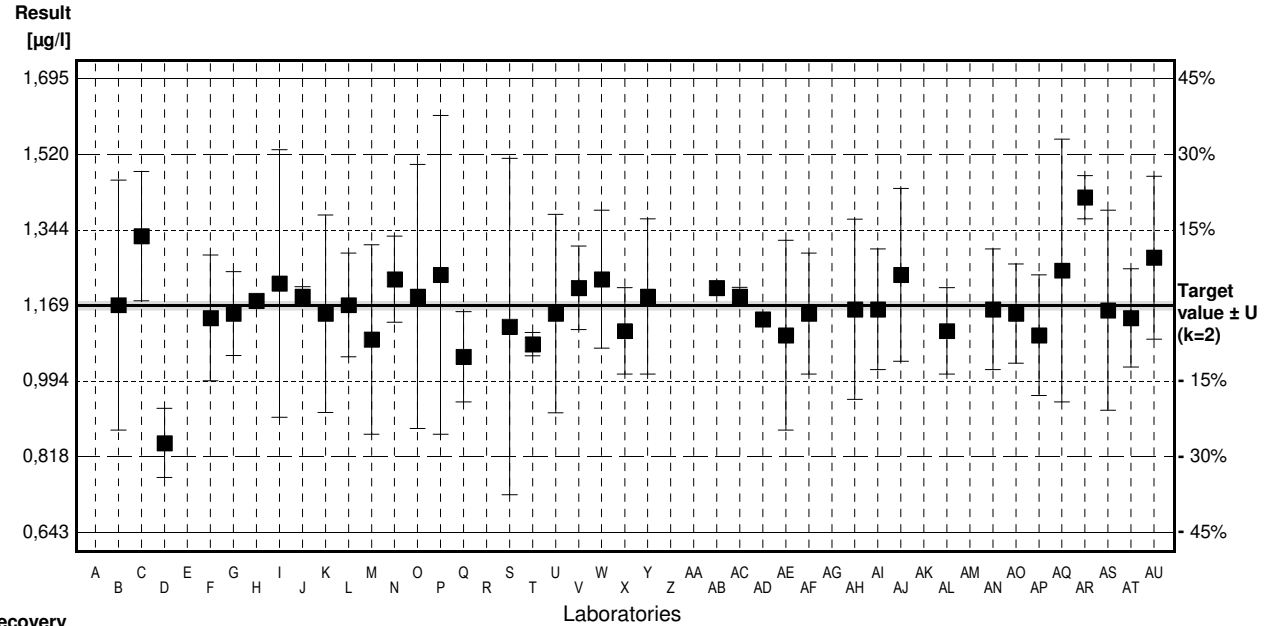


	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,507 ± 0,033	0,514 ± 0,010	µg/l
Recov. ± CI(99%)	98,1 ± 6,4	99,5 ± 2,0	%
SD between labs	0,075	0,023	µg/l
RSD between labs	14,7	4,4	%
n for calculation	38	36	

Sample M169B
Parameter Cadmium

Target value ± U (k=2) 1,169 µg/l ± 0,011 µg/l
 IFA result ± U (k=2) 1,19 µg/l ± 0,07 µg/l
 Stability test ± U (k=2) 1,18 µg/l ± 0,07 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	1.17	0.29	µg/l	100%	0.02
C	1.33	0.15	µg/l	114%	2.55
D	0.85	0.08	µg/l	73%	-5.05
E			µg/l		
F	1.14	0.146	µg/l	98%	-0.46
G	1.15	0.097	µg/l	98%	-0.30
H	1.18		µg/l	101%	0.17
I	1.22	0.31	µg/l	104%	0.81
J	1.19	0.0225	µg/l	102%	0.33
K	1.15	0.229	µg/l	98%	-0.30
L	1.17	0.12	µg/l	100%	0.02
M	1.09	0.22	µg/l	93%	-1.25
N	1.23	0.1	µg/l	105%	0.97
O	1.19	0.306	µg/l	102%	0.33
P	1.24	0.37	µg/l	106%	1.12
Q	1.05	0.105	µg/l	90%	-1.89
R			µg/l		
S	1.12	0.39	µg/l	96%	-0.78
T	1.079	0.027	µg/l	92%	-1.43
U	1.150	0.23	µg/l	98%	-0.30
V	1.21	0.0968	µg/l	104%	0.65
W	1.23	0.16	µg/l	105%	0.97
X	1.11	0.1	µg/l	95%	-0.93
Y	1.19	0.18	µg/l	102%	0.33
Z			µg/l		
AA			µg/l		
AB	1.21		µg/l	104%	0.65
AC	1.19	0.021	µg/l	102%	0.33
AD	1.137		µg/l	97%	-0.51
AE	1.10	0.22	µg/l	94%	-1.09
AF	1.15	0.14	µg/l	98%	-0.30
AG			µg/l		
AH	1.16	0.209	µg/l	99%	-0.14
AI	1.16	0.14	µg/l	99%	-0.14
AJ	1.24	0.2	µg/l	106%	1.12
AK			µg/l		
AL	1.11	0.1	µg/l	95%	-0.93
AM			µg/l		
AN	1.16	0.14	µg/l	99%	-0.14
AO	1.15	0.115	µg/l	98%	-0.30
AP	1.10	0.14	µg/l	94%	-1.09
AQ	1.25	0.305	µg/l	107%	1.28
AR	1.42	0.05	µg/l	121%	3.98
AS	1.158	0.232	µg/l	99%	-0.17
AT	1.14	0.114	µg/l	98%	-0.46
AU	1.28	0.189	µg/l	109%	1.76

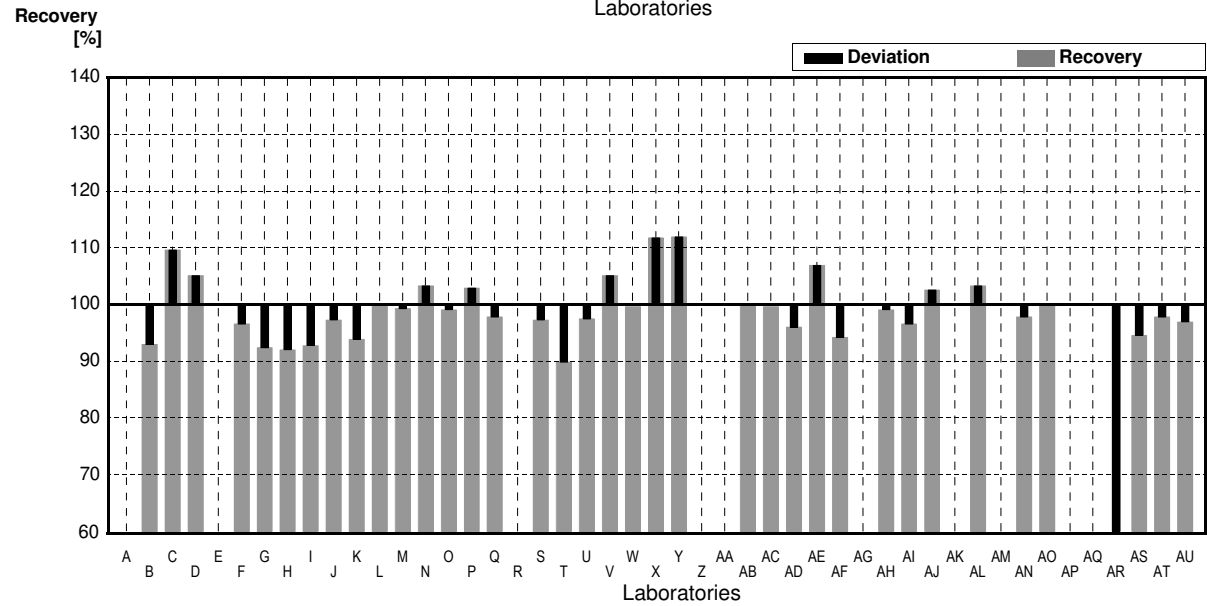
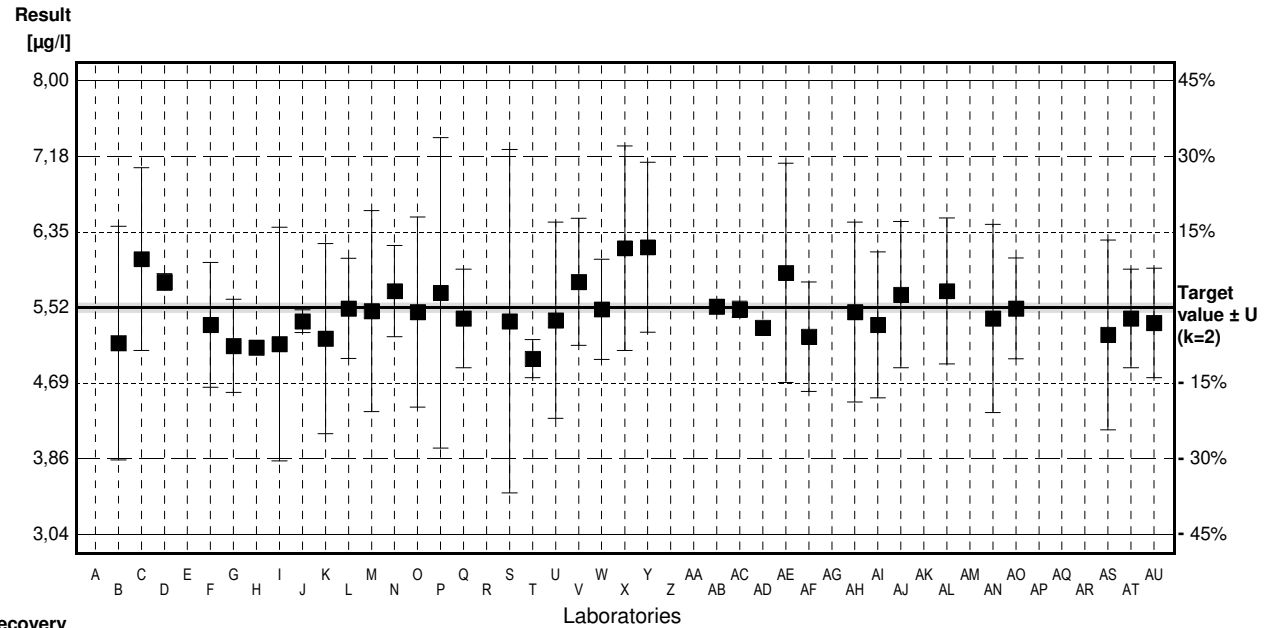


	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,168 ± 0,038	1,170 ± 0,026	µg/l
Recov. ± CI(99%)	99,9 ± 3,2	100,1 ± 2,2	%
SD between labs	0,087	0,058	µg/l
RSD between labs	7,4	5,0	%
n for calculation	39	37	

Sample M169A
Parameter Chromium

Target value ± U (k=2) 5,52 µg/l ± 0,05 µg/l
 IFA result ± U (k=2) 5,51 µg/l ± 0,17 µg/l
 Stability test ± U (k=2) 5,57 µg/l ± 0,17 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	5.13	1,28	µg/l	93%	-1.12
C	6.05	1	µg/l	110%	1.52
D	5.8	0,090	µg/l	105%	0.81
E			µg/l		
F	5.33	0,682	µg/l	97%	-0.55
G	5.1	0,51	µg/l	92%	-1.21
H	5.08		µg/l	92%	-1.27
I	5.12	1,28	µg/l	93%	-1.15
J	5.37	0,124	µg/l	97%	-0.43
K	5.18	1,04	µg/l	94%	-0.98
L	5.51	0,55	µg/l	100%	-0.03
M	5.48	1,10	µg/l	99%	-0.12
N	5.70	0,5	µg/l	103%	0.52
O	5.47	1,04	µg/l	99%	-0.14
P	5.68	1,70	µg/l	103%	0.46
Q	5.4	0,54	µg/l	98%	-0.35
R			µg/l		
S	5.37	1,88	µg/l	97%	-0.43
T	4.959	0,208	µg/l	90%	-1.61
U	5.38	1,076	µg/l	97%	-0.40
V	5.80	0,696	µg/l	105%	0.81
W	5.5	0,55	µg/l	100%	-0.06
X	6.17	1,12	µg/l	112%	1.87
Y	6.18	0,93	µg/l	112%	1.90
Z			µg/l		
AA			µg/l		
AB	5.53		µg/l	100%	0.03
AC	5.50	0,089	µg/l	100%	-0.06
AD	5.299		µg/l	96%	-0.64
AE	5.90	1,2	µg/l	107%	1.09
AF	5.2	0,6	µg/l	94%	-0.92
AG			µg/l		
AH	5.47	0,985	µg/l	99%	-0.14
AI	5.33	0,80	µg/l	97%	-0.55
AJ	5.66	0,8	µg/l	103%	0.40
AK			µg/l		
AL	5.70	0,8	µg/l	103%	0.52
AM			µg/l		
AN	5.40	1,03	µg/l	98%	-0.35
AO	5.51	0,551	µg/l	100%	-0.03
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	2.98 *	0,05	µg/l	54%	-7.30
AT	5.22	1,04	µg/l	95%	-0.86
AU	5.4	0,54	µg/l	98%	-0.35
	5.35	0,600	µg/l	97%	-0.49



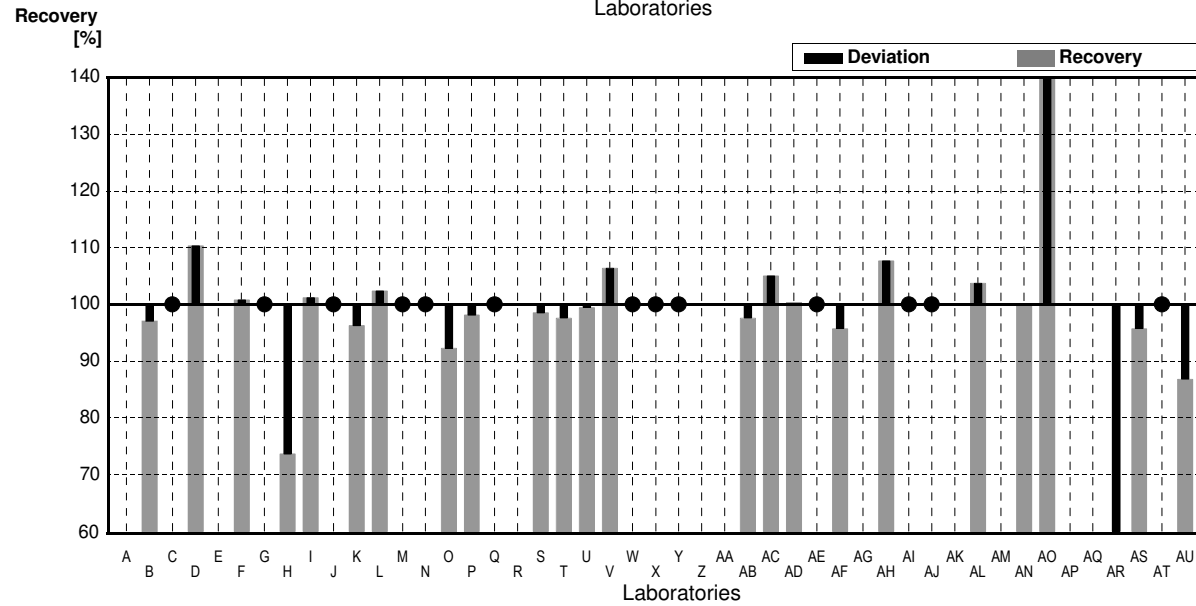
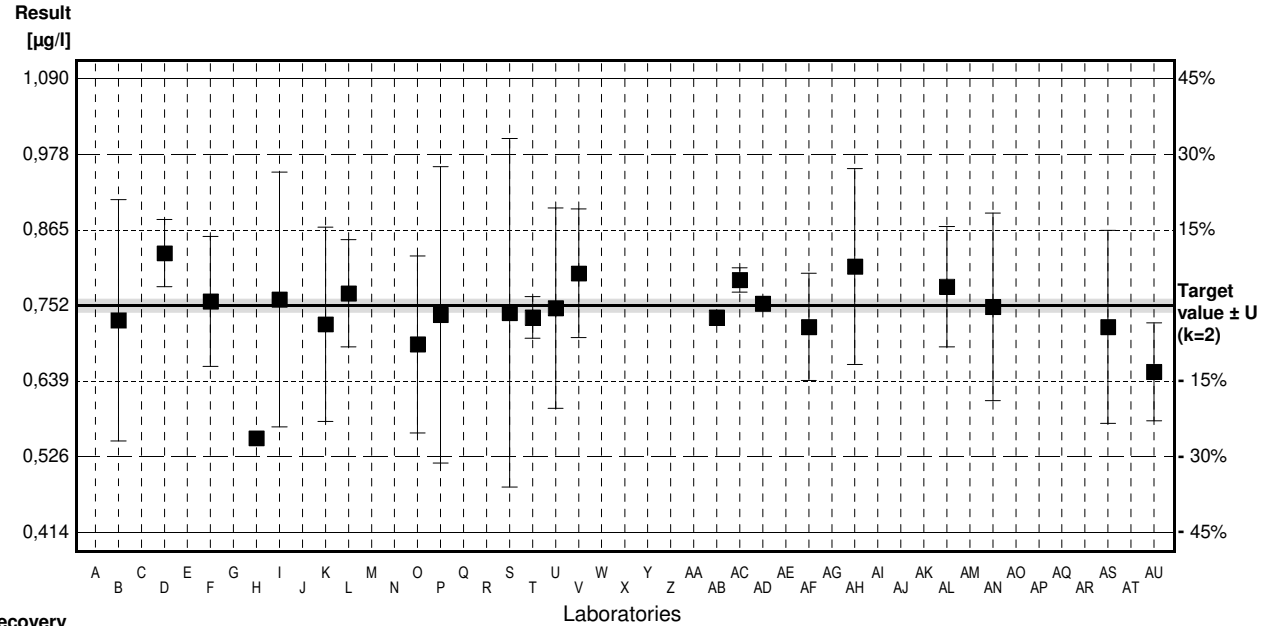
	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,41 ± 0,23	5,48 ± 0,13	µg/l
Recov. ± CI(99%)	98,0 ± 4,1	99,2 ± 2,4	%
SD between labs	0,50	0,30	µg/l
RSD between labs	9,3	5,4	%
n for calculation	37	36	

Sample M169B

Parameter Chromium

Target value ± U (k=2) 0,752 µg/l ± 0,010 µg/l
 IFA result ± U (k=2) 0,76 µg/l ± 0,05 µg/l
 Stability test ± U (k=2) 0,76 µg/l ± 0,05 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,73	0,18	µg/l	97%	-0,46
C	<1		µg/l	*	
D	0,83	0,05	µg/l	110%	1,65
E			µg/l		
F	0,758	0,097	µg/l	101%	0,13
G	<1		µg/l	*	
H	0,554 *		µg/l	74%	-4,18
I	0,761	0,190	µg/l	101%	0,19
J	<1,00		µg/l	*	
K	0,724	0,145	µg/l	96%	-0,59
L	0,77	0,08	µg/l	102%	0,38
M	<1		µg/l	*	
N	<5		µg/l	*	
O	0,694	0,132	µg/l	92%	-1,22
P	0,738	0,221	µg/l	98%	-0,30
Q	<5		µg/l	*	
R			µg/l		
S	0,741	0,26	µg/l	99%	-0,23
T	0,734	0,031	µg/l	98%	-0,38
U	0,748	0,1496	µg/l	99%	-0,08
V	0,80	0,096	µg/l	106%	1,01
W	<1,0		µg/l	*	
X	<5		µg/l	*	
Y	<1		µg/l	*	
Z			µg/l		
AA			µg/l		
AB	0,734		µg/l	98%	-0,38
AC	0,790	0,018	µg/l	105%	0,80
AD	0,7549		µg/l	100%	0,06
AE	<1		µg/l	*	
AF	0,72	0,08	µg/l	96%	-0,68
AG			µg/l		
AH	0,81	0,146	µg/l	108%	1,22
AI	<1,0		µg/l	*	
AJ	<1		µg/l	*	
AK			µg/l		
AL	0,78	0,09	µg/l	104%	0,59
AM			µg/l		
AN	0,75	0,14	µg/l	100%	-0,04
AO	3,78 *	0,378	µg/l	503%	63,91
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	0,092 *	0,025	µg/l	12%	-13,93
AT	0,720	0,144	µg/l	96%	-0,68
AU	<1,0		µg/l	*	
	0,653	0,073	µg/l	87%	-2,09



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,840 ± 0,368	0,750 ± 0,025	µg/l
Recov. ± CI(99%)	111,7 ± 49,0	99,7 ± 3,3	%
SD between labs	0,642	0,040	µg/l
RSD between labs	76,4	5,3	%
n for calculation	24	21	

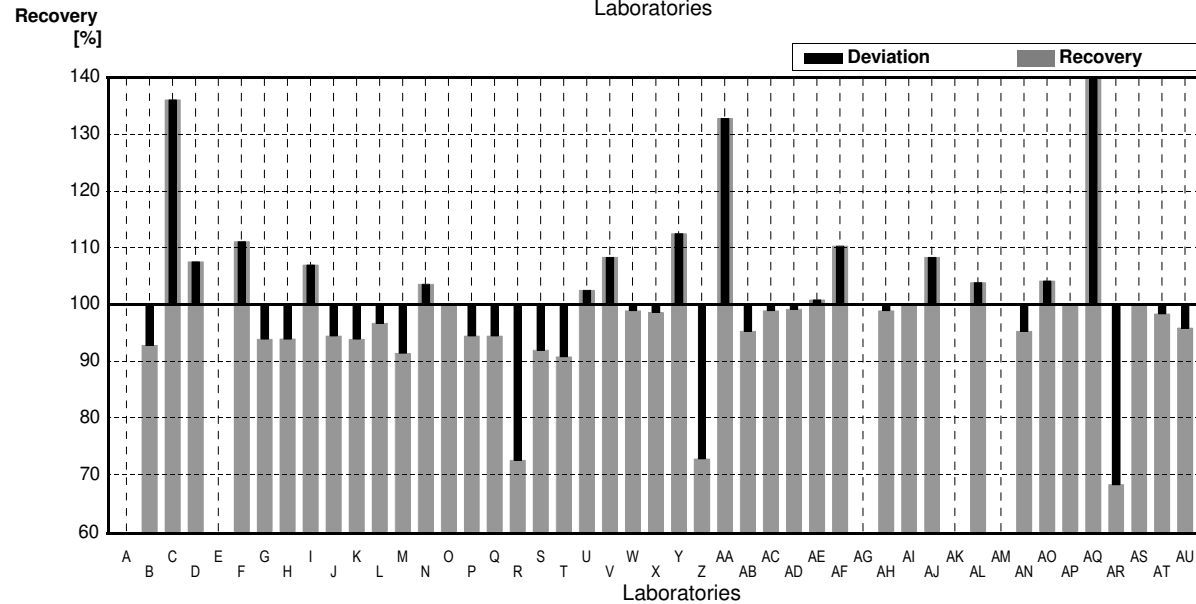
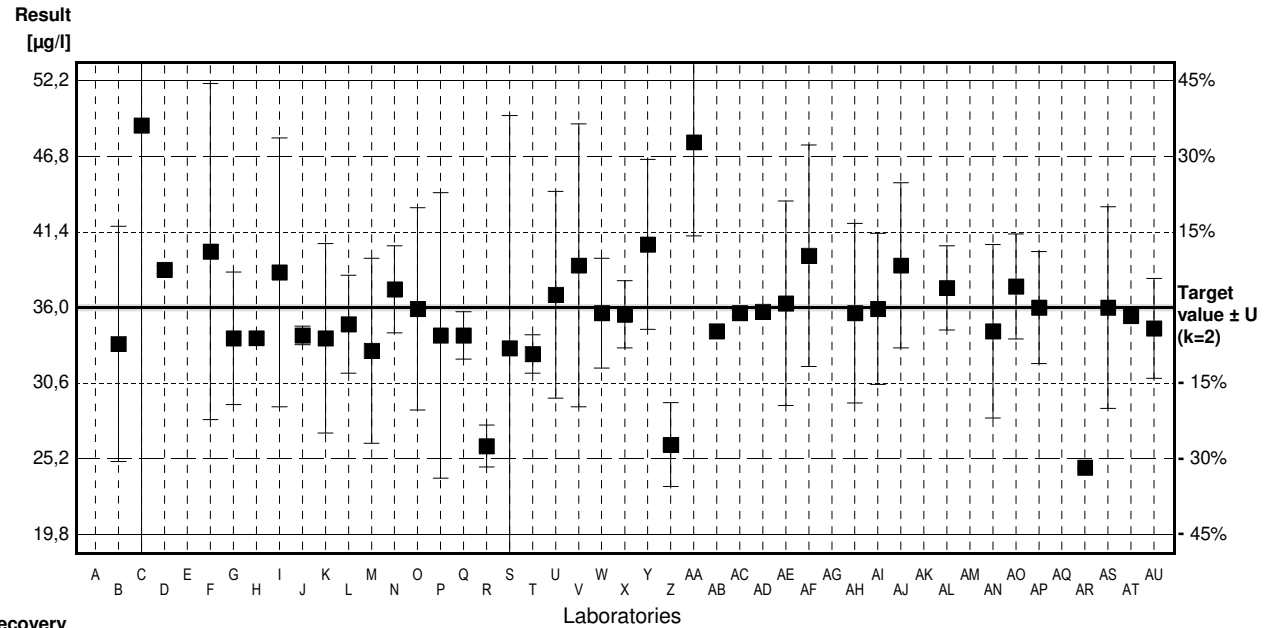
Sample M169A

Parameter Iron

Target value ± U (k=2) 36,0 µg/l ± 0,2 µg/l
 IFA result ± U (k=2) 35,9 µg/l ± 2,8 µg/l
 Stability test ± U (k=2) 35,9 µg/l ± 2,8 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	33.4	8.4	µg/l	93%	-1.08
C	49.0 *	30	µg/l	136%	5.39
D	38.7	0.29	µg/l	108%	1.12
E			µg/l		
F	40.0	12.0	µg/l	111%	1.66
G	33.8	4.74	µg/l	94%	-0.91
H	33.81		µg/l	94%	-0.91
I	38.5	9.6	µg/l	107%	1.04
J	34.0	0.675	µg/l	94%	-0.83
K	33.8	6.77	µg/l	94%	-0.91
L	34.8	3.5	µg/l	97%	-0.50
M	32.9	6.6	µg/l	91%	-1.29
N	37.3	3.1	µg/l	104%	0.54
O	35.9	7.22	µg/l	100%	-0.04
P	34.0	10.2	µg/l	94%	-0.83
Q	34.0	1.7	µg/l	94%	-0.83
R	26.1 *	1.5	µg/l	73%	-4.10
S	33.1	16.6	µg/l	92%	-1.20
T	32.68	1.37	µg/l	91%	-1.38
U	36.9	7.38	µg/l	103%	0.37
V	39.0	10.1	µg/l	108%	1.24
W	35.6	3.92	µg/l	99%	-0.17
X	35.5	2.4	µg/l	99%	-0.21
Y	40.5	6.07	µg/l	113%	1.87
Z	26.2 *	3	µg/l	73%	-4.06
AA	47.8 *	6.69	µg/l	133%	4.89
AB	34.3		µg/l	95%	-0.70
AC	35.6	0.252	µg/l	99%	-0.17
AD	35.70		µg/l	99%	-0.12
AE	36.3	7.3	µg/l	101%	0.12
AF	39.7	7.9	µg/l	110%	1.53
AG			µg/l		
AH	35.6	6.41	µg/l	99%	-0.17
AI	35.9	5.4	µg/l	100%	-0.04
AJ	39.0	5.9	µg/l	108%	1.24
AK			µg/l		
AL	37.4	3	µg/l	104%	0.58
AM			µg/l		
AN	34.3	6.2	µg/l	95%	-0.70
AO	37.5	3.75	µg/l	104%	0.62
AP	36.0	4.0	µg/l	100%	0.00
AQ	60 *	13.9	µg/l	167%	9.95
AR	24.56 *	0.1	µg/l	68%	-4.74
AS	36.0	7.2	µg/l	100%	0.00
AT	35.4	0.354	µg/l	98%	-0.25
AU	34.5	3.57	µg/l	96%	-0.62

	All results	Outliers excl.	Unit
Mean ± CI(99%)	36,3 ± 2,4	35,9 ± 1,0	µg/l
Recov. ± CI(99%)	100,9 ± 6,7	99,6 ± 2,7	%
SD between labs	5,8	2,1	µg/l
RSD between labs	15,9	6,0	%
n for calculation	42	36	

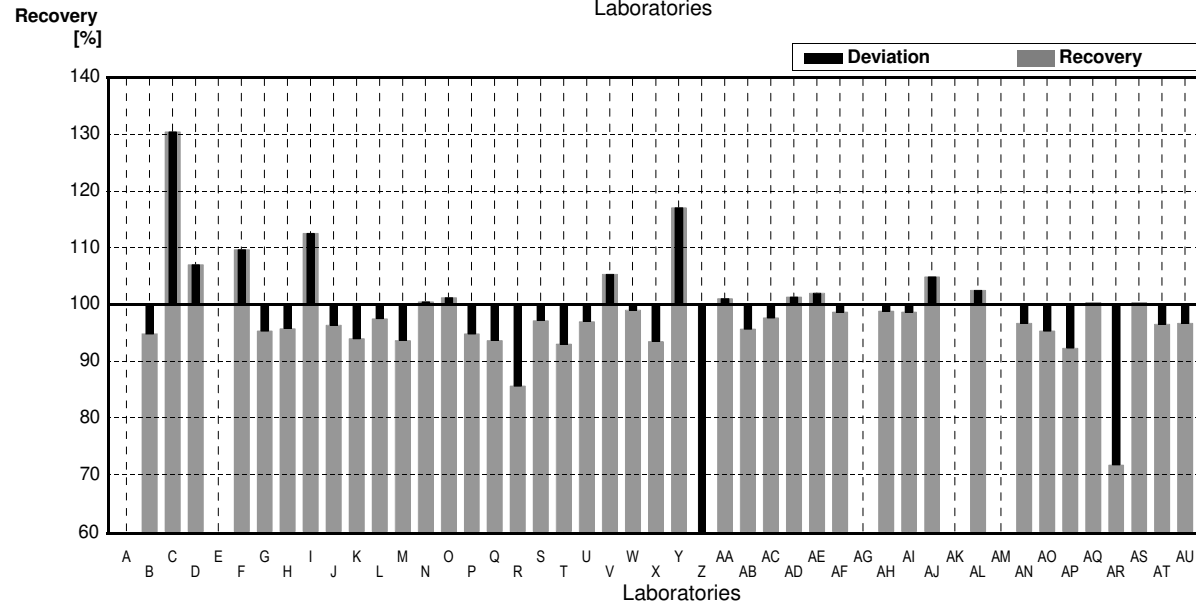
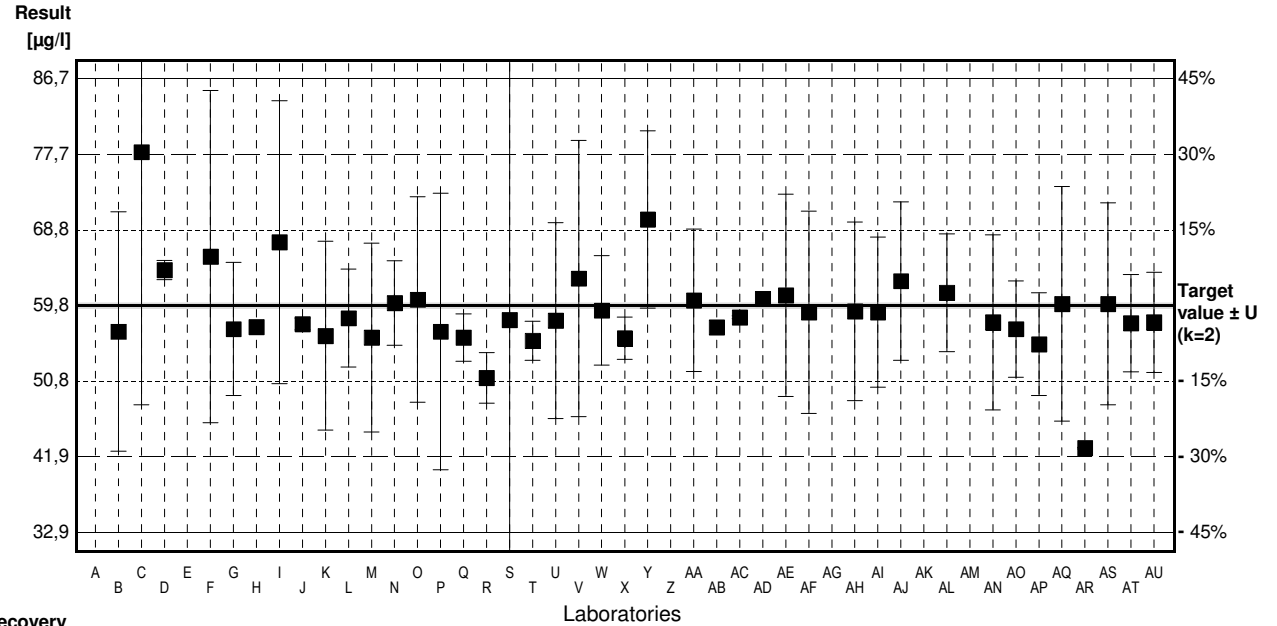


Sample M169B

Parameter Iron

Target value ± U (k=2) 59,8 µg/l ± 0,3 µg/l
 IFA result ± U (k=2) 59 µg/l ± 4 µg/l
 Stability test ± U (k=2) 59 µg/l ± 4 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	56.7	14.2	µg/l	95%	-0.77
C	78 *	30	µg/l	130%	4.54
D	64.00	1.15	µg/l	107%	1.05
E			µg/l		
F	65.6	19.7	µg/l	110%	1.45
G	57	7.9	µg/l	95%	-0.70
H	57.26		µg/l	96%	-0.63
I	67.3 *	16.8	µg/l	113%	1.87
J	57.6	0.720	µg/l	96%	-0.55
K	56.2	11.2	µg/l	94%	-0.90
L	58.3	5.8	µg/l	97%	-0.37
M	56.0	11.2	µg/l	94%	-0.95
N	60.1	5.0	µg/l	101%	0.07
O	60.5	12.2	µg/l	101%	0.17
P	56.7	16.4	µg/l	95%	-0.77
Q	56	2.8	µg/l	94%	-0.95
R	51.2	3	µg/l	86%	-2.15
S	58.1	29.1	µg/l	97%	-0.42
T	55.61	2.33	µg/l	93%	-1.05
U	58.0	11.6	µg/l	97%	-0.45
V	63.0	16.4	µg/l	105%	0.80
W	59.2	6.5	µg/l	99%	-0.15
X	55.9	2.5	µg/l	93%	-0.97
Y	70.0 *	10.5	µg/l	117%	2.55
Z	29.30 *	3	µg/l	49%	-7.61
AA	60.4	8.46	µg/l	101%	0.15
AB	57.2		µg/l	96%	-0.65
AC	58.4	0.153	µg/l	98%	-0.35
AD	60.60		µg/l	101%	0.20
AE	61.0	12	µg/l	102%	0.30
AF	59	12	µg/l	99%	-0.20
AG			µg/l		
AH	59.1	10.6	µg/l	99%	-0.17
AI	59.0	8.9	µg/l	99%	-0.20
AJ	62.7	9.4	µg/l	105%	0.72
AK			µg/l		
AL	61.3	7	µg/l	103%	0.37
AM			µg/l		
AN	57.8	10.4	µg/l	97%	-0.50
AO	57	5.7	µg/l	95%	-0.70
AP	55.2	6.1	µg/l	92%	-1.15
AQ	60	13.9	µg/l	100%	0.05
AR	42.88 *	0.1	µg/l	72%	-4.22
AS	60.0	12	µg/l	100%	0.05
AT	57.7	5.77	µg/l	96%	-0.52
AU	57.8	5.95	µg/l	97%	-0.50



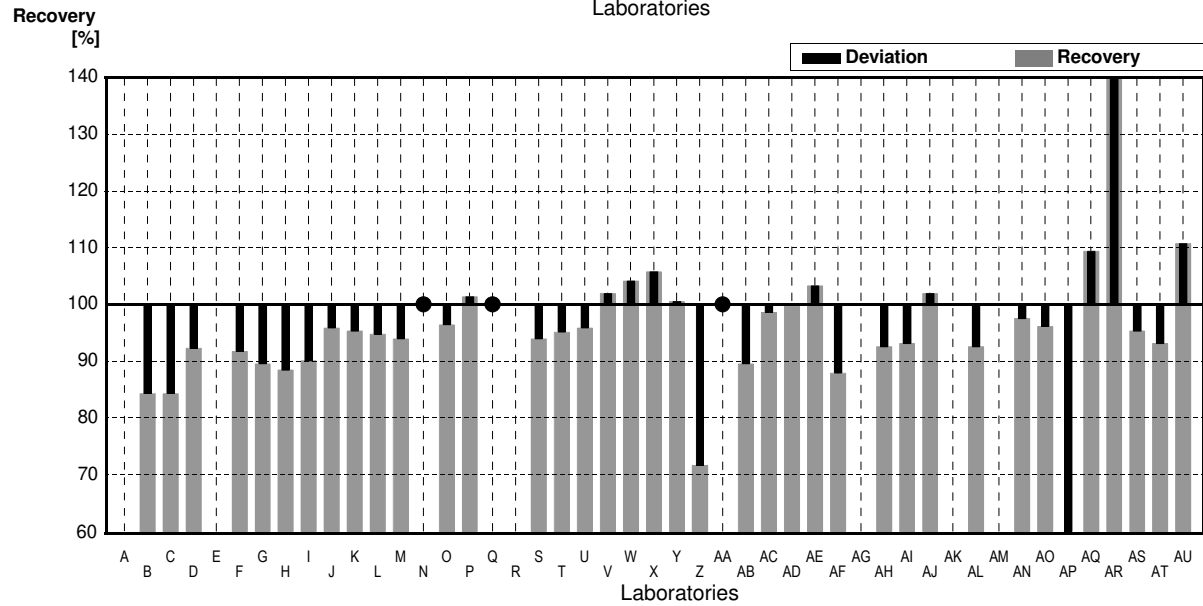
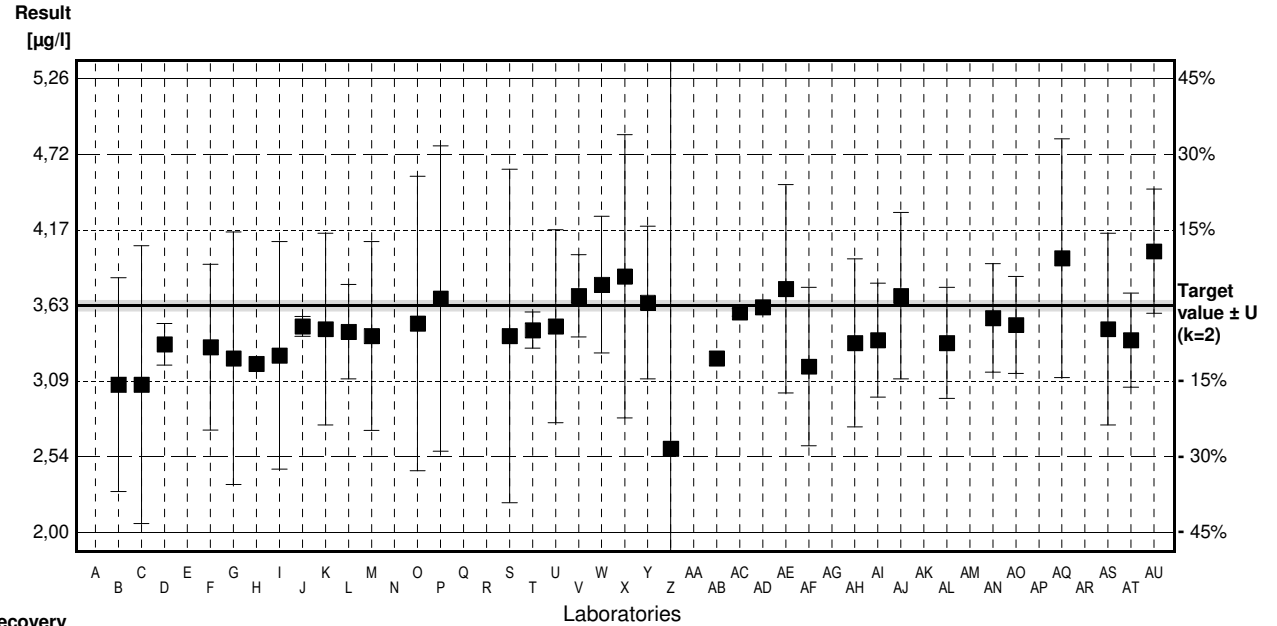
	All results	Outliers excl.	Unit
Mean ± CI(99%)	58,4 ± 2,9	58,6 ± 1,2	µg/l
Recov. ± CI(99%)	97,7 ± 4,8	97,9 ± 2,0	%
SD between labs	6,9	2,7	µg/l
RSD between labs	11,8	4,7	%
n for calculation	42	37	

Sample M169A
Parameter Copper

Target value ± U (k=2) 3,63 µg/l ± 0,04 µg/l
 IFA result ± U (k=2) 3,73 µg/l ± 0,20 µg/l
 Stability test ± U (k=2) 3,73 µg/l ± 0,20 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	3,06	0,77	µg/l	84%	-2,01
C	3,06	1	µg/l	84%	-2,01
D	3,35	0,15	µg/l	92%	-0,99
E			µg/l		
F	3,33	0,596	µg/l	92%	-1,06
G	3,25	0,91	µg/l	90%	-1,34
H	3,21		µg/l	88%	-1,48
I	3,27	0,82	µg/l	90%	-1,27
J	3,48	0,0721	µg/l	96%	-0,53
K	3,46	0,69	µg/l	95%	-0,60
L	3,44	0,34	µg/l	95%	-0,67
M	3,41	0,68	µg/l	94%	-0,78
N	<5		µg/l	.	
O	3,50	1,06	µg/l	96%	-0,46
P	3,68	1,10	µg/l	101%	0,18
Q	<5		µg/l	.	
R			µg/l		
S	3,41	1,2	µg/l	94%	-0,78
T	3,453	0,131	µg/l	95%	-0,63
U	3,48	0,696	µg/l	96%	-0,53
V	3,70	0,296	µg/l	102%	0,25
W	3,78	0,491	µg/l	104%	0,53
X	3,84	1,02	µg/l	106%	0,74
Y	3,65	0,55	µg/l	101%	0,07
Z	2,60 *	3	µg/l	72%	-3,64
AA	<5,00		µg/l	.	
AB	3,25		µg/l	90%	-1,34
AC	3,58	0,026	µg/l	99%	-0,18
AD	3,618		µg/l	100%	-0,04
AE	3,75	0,75	µg/l	103%	0,42
AF	3,19	0,57	µg/l	88%	-1,55
AG			µg/l		
AH	3,36	0,605	µg/l	93%	-0,95
AI	3,38	0,41	µg/l	93%	-0,88
AJ	3,70	0,6	µg/l	102%	0,25
AK			µg/l		
AL	3,36	0,4	µg/l	93%	-0,95
AM			µg/l		
AN	3,54	0,39	µg/l	98%	-0,32
AO	3,49	0,349	µg/l	96%	-0,49
AP	1,77 *	0,1	µg/l	49%	-6,57
AQ	3,97	0,86	µg/l	109%	1,20
AR	23,47 *	0,1	µg/l	647%	70,07
AS	3,46	0,69	µg/l	95%	-0,60
AT	3,38	0,338	µg/l	93%	-0,88
AU	4,02	0,447	µg/l	111%	1,38

	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,94 ± 1,45	3,48 ± 0,11	µg/l
Recov. ± CI(99%)	108,5 ± 39,8	95,9 ± 2,9	%
SD between labs	3,28	0,23	µg/l
RSD between labs	83,2	6,6	%
n for calculation	38	35	

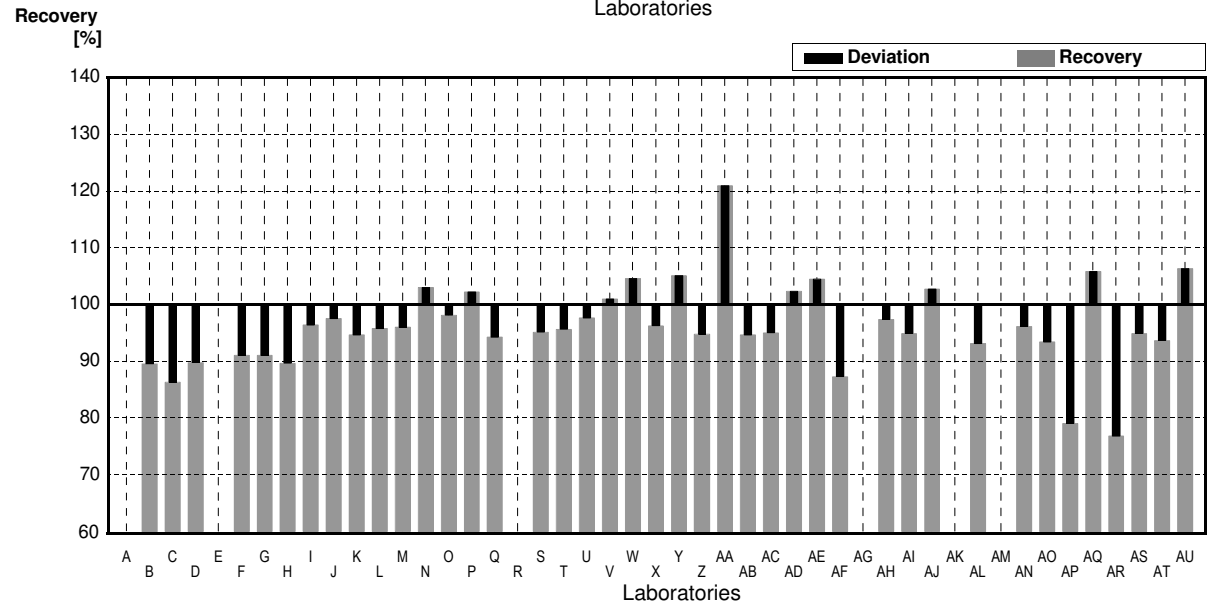
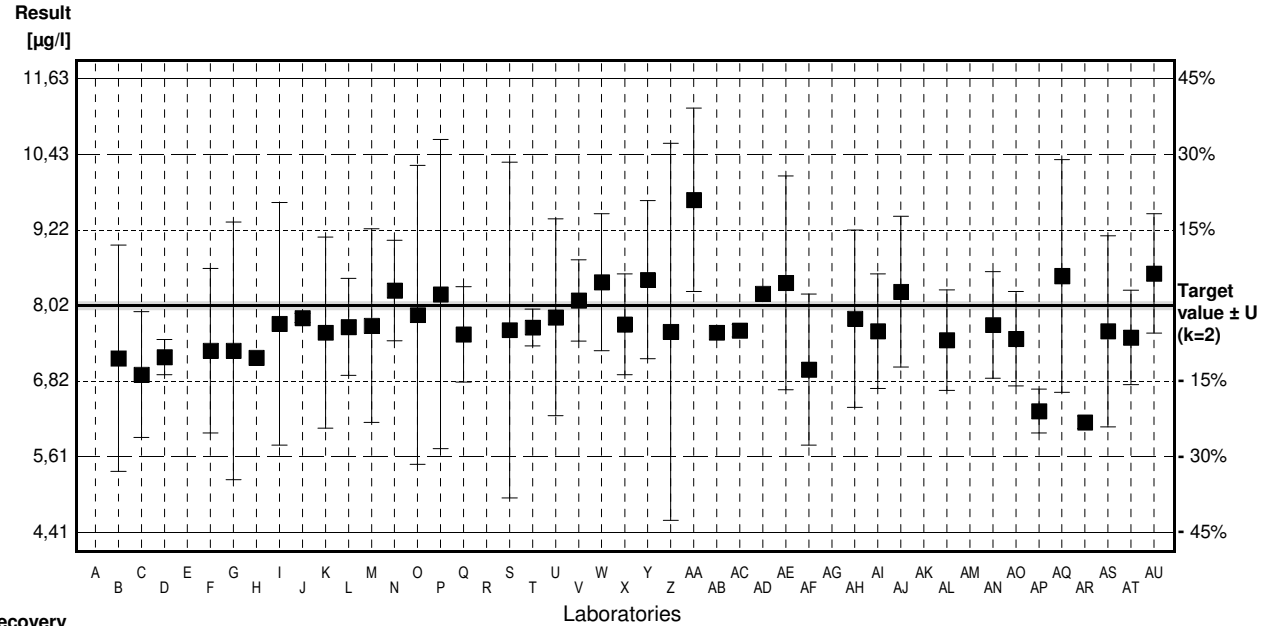


Sample M169B
Parameter Copper

Target value ± U (k=2) 8,02 µg/l ± 0,06 µg/l
 IFA result ± U (k=2) 8,1 µg/l ± 0,4 µg/l
 Stability test ± U (k=2) 8,1 µg/l ± 0,4 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	7.18	1.80	µg/l	90%	-1.34
C	6.92	1	µg/l	86%	-1.76
D	7.20	0.28	µg/l	90%	-1.31
E			µg/l		
F	7.30	1.31	µg/l	91%	-1.15
G	7.3	2.05	µg/l	91%	-1.15
H	7.19		µg/l	90%	-1.33
I	7.73	1.93	µg/l	96%	-0.46
J	7.82	0.0730	µg/l	98%	-0.32
K	7.59	1.52	µg/l	95%	-0.69
L	7.68	0.77	µg/l	96%	-0.54
M	7.70	1.54	µg/l	96%	-0.51
N	8.26	0.8	µg/l	103%	0.38
O	7.87	2.38	µg/l	98%	-0.24
P	8.20	2.46	µg/l	102%	0.29
Q	7.56	0.756	µg/l	94%	-0.74
R			µg/l		
S	7.63	2.67	µg/l	95%	-0.62
T	7.670	0.291	µg/l	96%	-0.56
U	7.83	1.566	µg/l	98%	-0.30
V	8.10	0.648	µg/l	101%	0.13
W	8.39	1.09	µg/l	105%	0.59
X	7.72	0.8	µg/l	96%	-0.48
Y	8.43	1.26	µg/l	105%	0.66
Z	7.60	3	µg/l	95%	-0.67
AA	9.70 *	1.46	µg/l	121%	2.69
AB	7.59		µg/l	95%	-0.69
AC	7.62	0.099	µg/l	95%	-0.64
AD	8.207		µg/l	102%	0.30
AE	8.38	1.7	µg/l	104%	0.58
AF	7.0	1.2	µg/l	87%	-1.63
AG			µg/l		
AH	7.81	1.41	µg/l	97%	-0.34
AI	7.61	0.91	µg/l	95%	-0.66
AJ	8.24	1.2	µg/l	103%	0.35
AK			µg/l		
AL	7.47	0.8	µg/l	93%	-0.88
AM			µg/l		
AN	7.71	0.85	µg/l	96%	-0.50
AO	7.49	0.749	µg/l	93%	-0.85
AP	6.34 *	0.35	µg/l	79%	-2.69
AQ	8.49	1.85	µg/l	106%	0.75
AR	6.16 *	0.1	µg/l	77%	-2.97
AS	7.61	1.52	µg/l	95%	-0.66
AT	7.51	0.751	µg/l	94%	-0.82
AU	8.53	0.949	µg/l	106%	0.82

	All results	Outliers excl.	Unit
Mean ± CI(99%)	7,72 ± 0,26	7,74 ± 0,18	µg/l
Recov. ± CI(99%)	96,2 ± 3,2	96,5 ± 2,3	%
SD between labs	0,61	0,42	µg/l
RSD between labs	7,9	5,4	%
n for calculation	41	38	

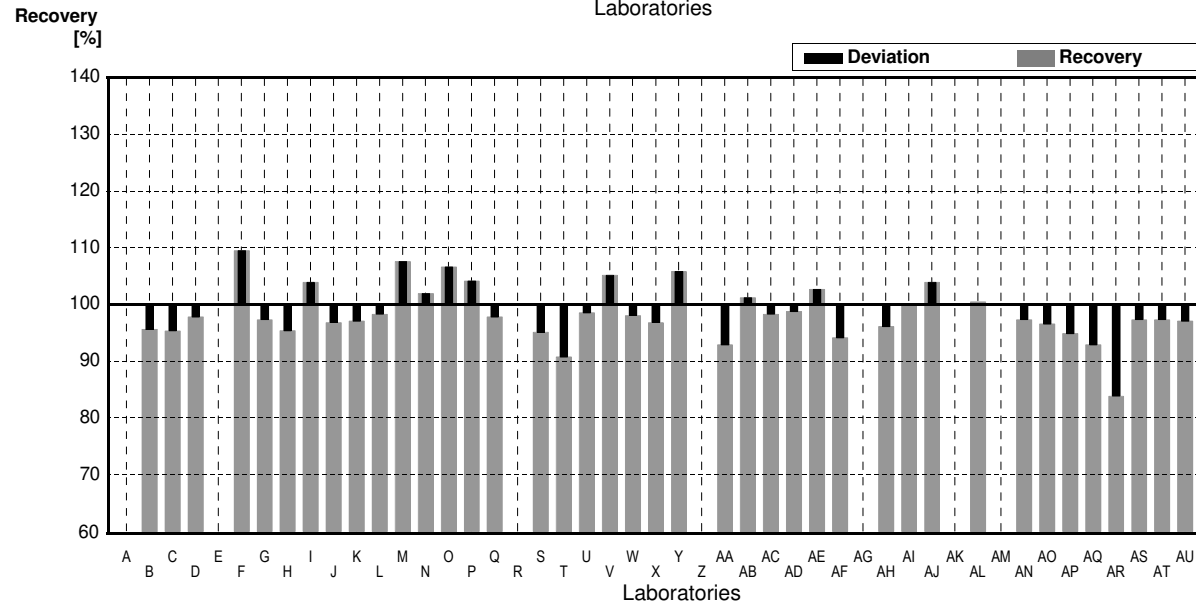
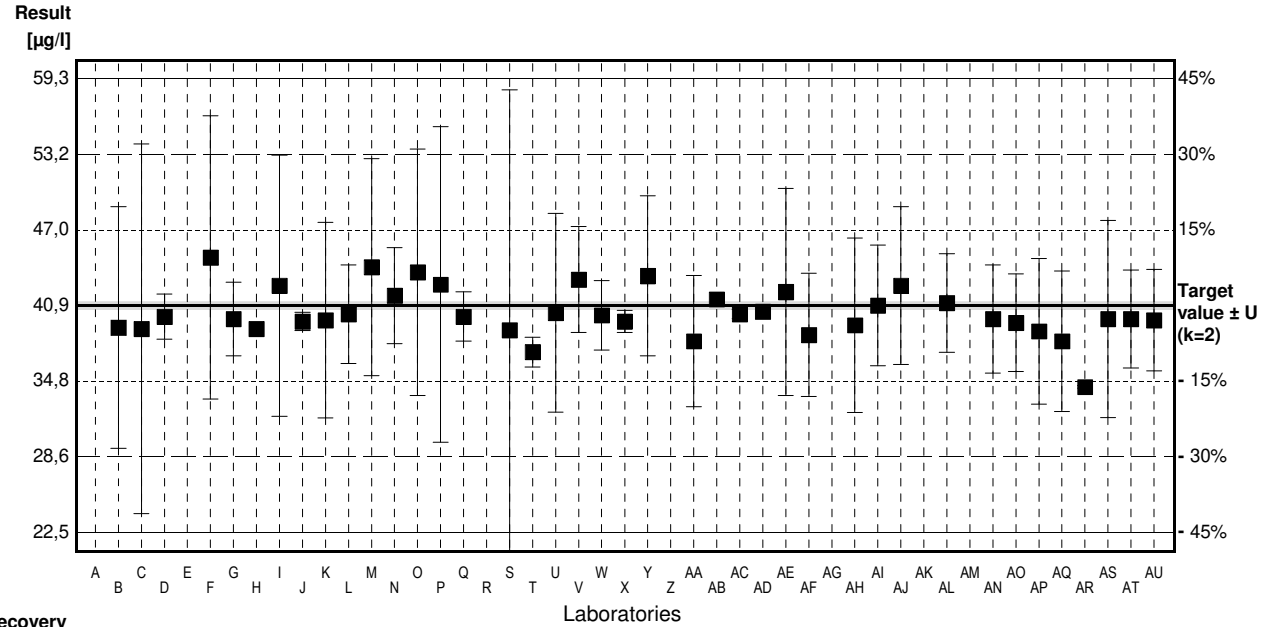


Sample M169A

Parameter Manganese

Target value ± U (k=2) 40,9 µg/l ± 0,3 µg/l
 IFA result ± U (k=2) 41,0 µg/l ± 2,8 µg/l
 Stability test ± U (k=2) 41,5 µg/l ± 2,8 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	39.1	9.8	µg/l	96%	-0.83
C	39.0	15	µg/l	95%	-0.88
D	40.0	1.83	µg/l	98%	-0.42
E			µg/l		
F	44.8 *	11.5	µg/l	110%	1.80
G	39.8	2.98	µg/l	97%	-0.51
H	39.01		µg/l	95%	-0.87
I	42.5	10.6	µg/l	104%	0.74
J	39.6	0.742	µg/l	97%	-0.60
K	39.7	7.94	µg/l	97%	-0.55
L	40.2	4.0	µg/l	98%	-0.32
M	44.0	8.8	µg/l	108%	1.43
N	41.7	3.9	µg/l	102%	0.37
O	43.6	10	µg/l	107%	1.25
P	42.6	12.8	µg/l	104%	0.78
Q	40.0	2	µg/l	98%	-0.42
R			µg/l		
S	38.9	19.5	µg/l	95%	-0.92
T	37.12	1.21	µg/l	91%	-1.74
U	40.3	8.06	µg/l	99%	-0.28
V	43.0	4.30	µg/l	105%	0.97
W	40.1	2.81	µg/l	98%	-0.37
X	39.6	0.9	µg/l	97%	-0.60
Y	43.3	6.49	µg/l	106%	1.11
Z			µg/l		
AA	38.0	5.32	µg/l	93%	-1.34
AB	41.4		µg/l	101%	0.23
AC	40.2	0.38	µg/l	98%	-0.32
AD	40.40		µg/l	99%	-0.23
AE	42.0	8.4	µg/l	103%	0.51
AF	38.5	5.0	µg/l	94%	-1.11
AG			µg/l		
AH	39.3	7.07	µg/l	96%	-0.74
AI	40.9	4.9	µg/l	100%	0.00
AJ	42.5	6.4	µg/l	104%	0.74
AK			µg/l		
AL	41.1	4	µg/l	100%	0.09
AM			µg/l		
AN	39.8	4.4	µg/l	97%	-0.51
AO	39.5	3.95	µg/l	97%	-0.65
AP	38.8	5.9	µg/l	95%	-0.97
AQ	38.0	5.7	µg/l	93%	-1.34
AR	34.29 *	0.1	µg/l	84%	-3.05
AS	39.8	8.0	µg/l	97%	-0.51
AT	39.8	3.98	µg/l	97%	-0.51
AU	39.7	4.12	µg/l	97%	-0.55



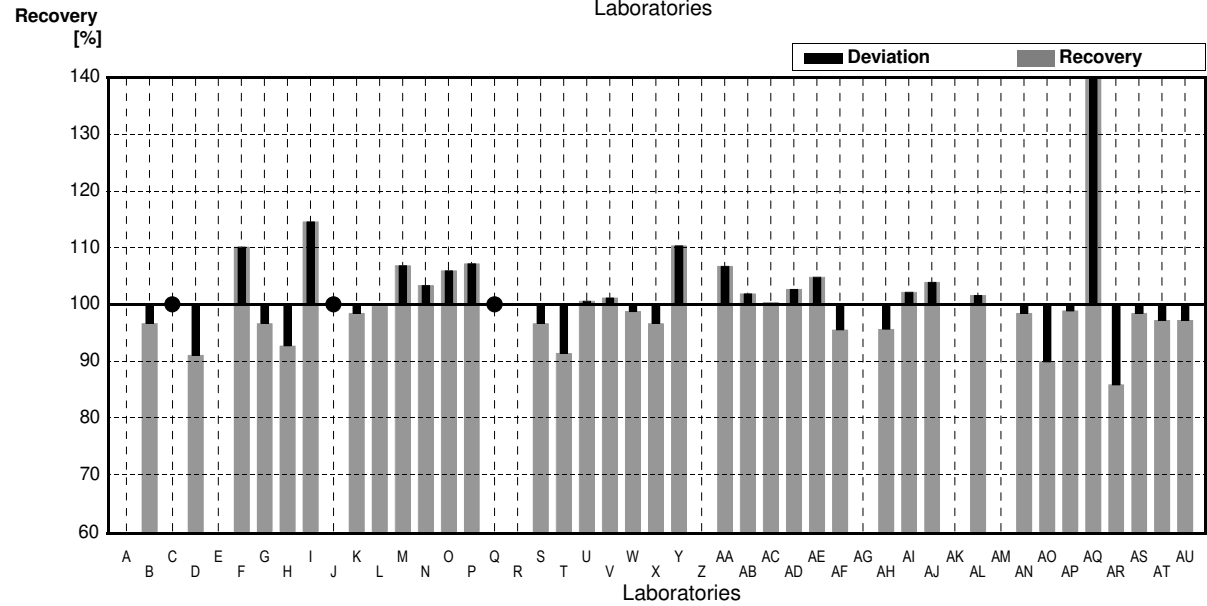
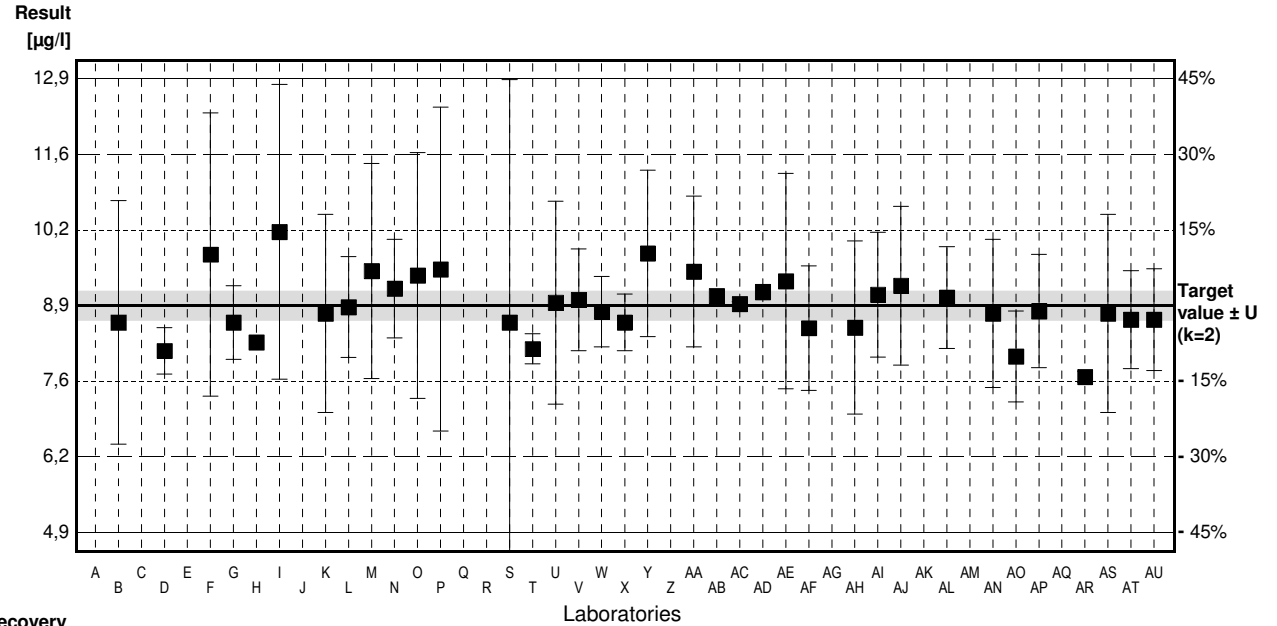
	All results	Outliers excl.	Unit
Mean ± CI(99%)	40,3 ± 0,9	40,3 ± 0,7	µg/l
Recov. ± CI(99%)	98,5 ± 2,1	98,6 ± 1,8	%
SD between labs	2,0	1,6	µg/l
RSD between labs	5,0	4,1	%
n for calculation	40	38	

Sample M169B

Parameter Manganese

Target value ± U (k=2) 8,9 µg/l ± 0,3 µg/l
 IFA result ± U (k=2) 8,8 µg/l ± 0,6 µg/l
 Stability test ± U (k=2) 8,9 µg/l ± 0,6 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	8.60	2.15	µg/l	97%	-0.64
C	<20		µg/l	*	
D	8.10	0.41	µg/l	91%	-1.70
E			µg/l		
F	9.80	2.50	µg/l	110%	1.91
G	8.6	0.65	µg/l	97%	-0.64
H	8.25		µg/l	93%	-1.38
I	10.2 *	2.6	µg/l	115%	2.76
J	<10.0		µg/l	*	
K	8.76	1.75	µg/l	98%	-0.30
L	8.87	0.89	µg/l	100%	-0.06
M	9.51	1.90	µg/l	107%	1.29
N	9.2	0.87	µg/l	103%	0.64
O	9.43	2.17	µg/l	106%	1.12
P	9.54	2.86	µg/l	107%	1.36
Q	<10		µg/l	*	
R			µg/l		
S	8.60	4.29	µg/l	97%	-0.64
T	8.133	0.266	µg/l	91%	-1.63
U	8.95	1.79	µg/l	101%	0.11
V	9.0	0.90	µg/l	101%	0.21
W	8.79	0.62	µg/l	99%	-0.23
X	8.6	0.5	µg/l	97%	-0.64
Y	9.82	1.47	µg/l	110%	1.95
Z			µg/l		
AA	9.50	1.33	µg/l	107%	1.27
AB	9.07		µg/l	102%	0.36
AC	8.93	0.035	µg/l	100%	0.06
AD	9.139		µg/l	103%	0.51
AE	9.33	1.9	µg/l	105%	0.91
AF	8.5	1.1	µg/l	96%	-0.85
AG			µg/l		
AH	8.51	1.53	µg/l	96%	-0.83
AI	9.09	1.1	µg/l	102%	0.40
AJ	9.25	1.4	µg/l	104%	0.74
AK			µg/l		
AL	9.04	0.9	µg/l	102%	0.30
AM			µg/l		
AN	8.76	1.31	µg/l	98%	-0.30
AO	8.00	0.8	µg/l	90%	-1.91
AP	8.80	1.0	µg/l	99%	-0.21
AQ	19.0 *	2.85	µg/l	213%	21.41
AR	7.64	0.1	µg/l	86%	-2.67
AS	8.76	1.75	µg/l	98%	-0.30
AT	8.65	0.865	µg/l	97%	-0.53
AU	8.65	0.90	µg/l	97%	-0.53



	All results	Outliers excl.	Unit
Mean ± CI(99%)	9,2 ± 0,8	8,9 ± 0,2	µg/l
Recov. ± CI(99%)	103,1 ± 8,8	99,6 ± 2,6	%
SD between labs	1,7	0,5	µg/l
RSD between labs	19,0	5,6	%
n for calculation	37	35	

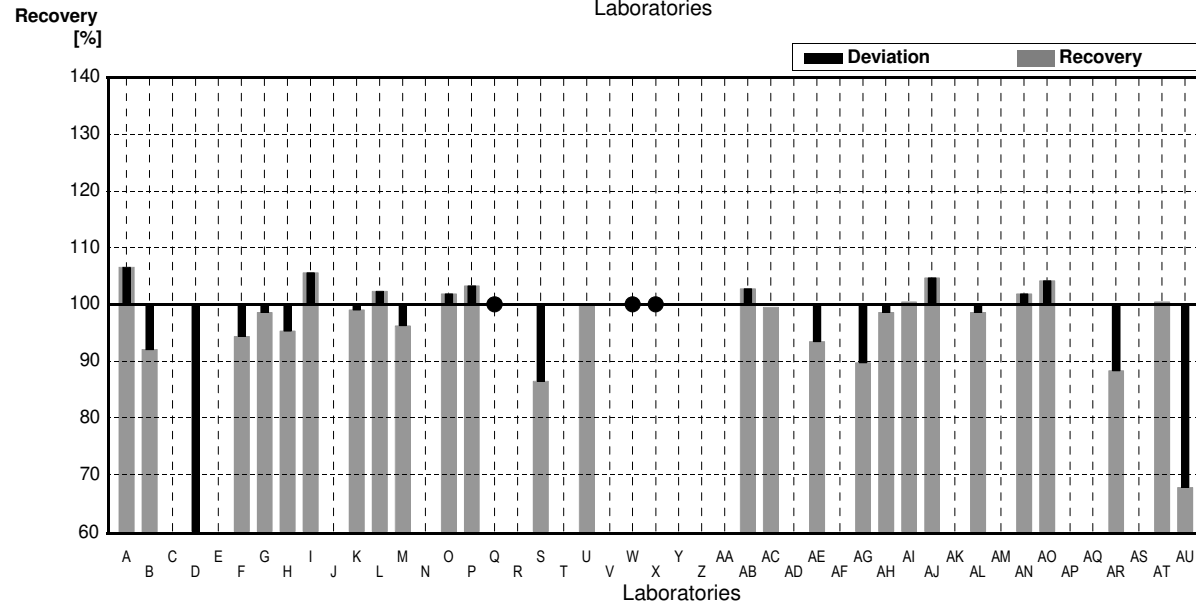
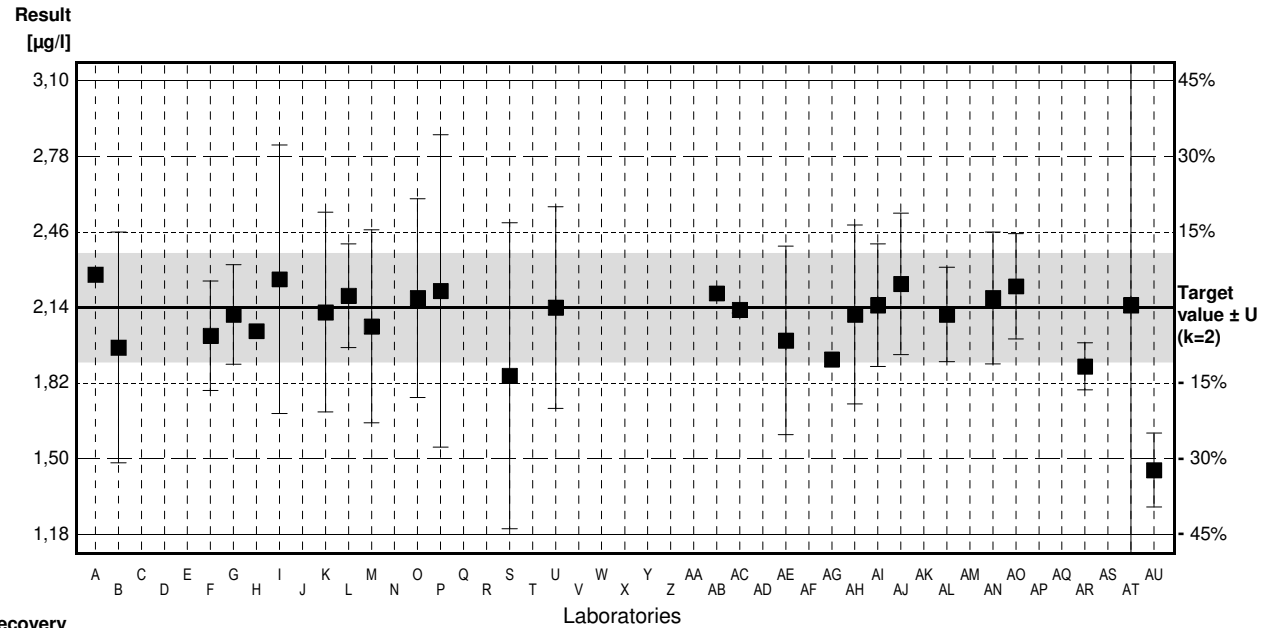
Sample M169A

Parameter Molybdenum

Target value ± U (k=2) 2,14 µg/l ± 0,23 µg/l
 IFA result ± U (k=2) 2,19 µg/l ± 0,26 µg/l
 Stability test ± U (k=2) 2,22 µg/l ± 0,27 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	2,28		µg/l	107%	0,99
B	1,97	0,49	µg/l	92%	-1,20
C			µg/l		
D	1,12	0,05	µg/l	52%	-7,22
E			µg/l		
F	2,02	0,232	µg/l	94%	-0,85
G	2,11	0,211	µg/l	99%	-0,21
H	2,04		µg/l	95%	-0,71
I	2,26	0,57	µg/l	106%	0,85
J			µg/l		
K	2,12	0,424	µg/l	99%	-0,14
L	2,19	0,22	µg/l	102%	-0,35
M	2,06	0,41	µg/l	96%	-0,57
N			µg/l		
O	2,18	0,422	µg/l	102%	0,28
P	2,21	0,663	µg/l	103%	0,50
Q	<5		µg/l	*	
R			µg/l		
S	1,85	0,65	µg/l	86%	-2,05
T			µg/l		
U	2,14	0,428	µg/l	100%	0,00
V			µg/l		
W	<10		µg/l	*	
X	<5		µg/l	*	
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	2,20		µg/l	103%	0,42
AC	2,13	0,014	µg/l	100%	-0,07
AD			µg/l		
AE	2,00	0,40	µg/l	93%	-0,99
AF			µg/l		
AG	1,92		µg/l	90%	-1,56
AH	2,11	0,38	µg/l	99%	-0,21
AI	2,15	0,26	µg/l	100%	0,07
AJ	2,24	0,3	µg/l	105%	0,71
AK			µg/l		
AL	2,11	0,2	µg/l	99%	-0,21
AM			µg/l		
AN	2,18	0,28	µg/l	102%	0,28
AO	2,23	0,223	µg/l	104%	0,64
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	1,89	0,1	µg/l	88%	-1,77
AT	2,15	2,15	µg/l	100%	0,07
AU	1,45	0,157	µg/l	68%	-4,89

	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,05 ± 0,13	2,11 ± 0,06	µg/l
Recov. ± CI(99%)	95,7 ± 6,3	98,6 ± 3,0	%
SD between labs	0,25	0,12	µg/l
RSD between labs	12,2	5,5	%
n for calculation	27	25	



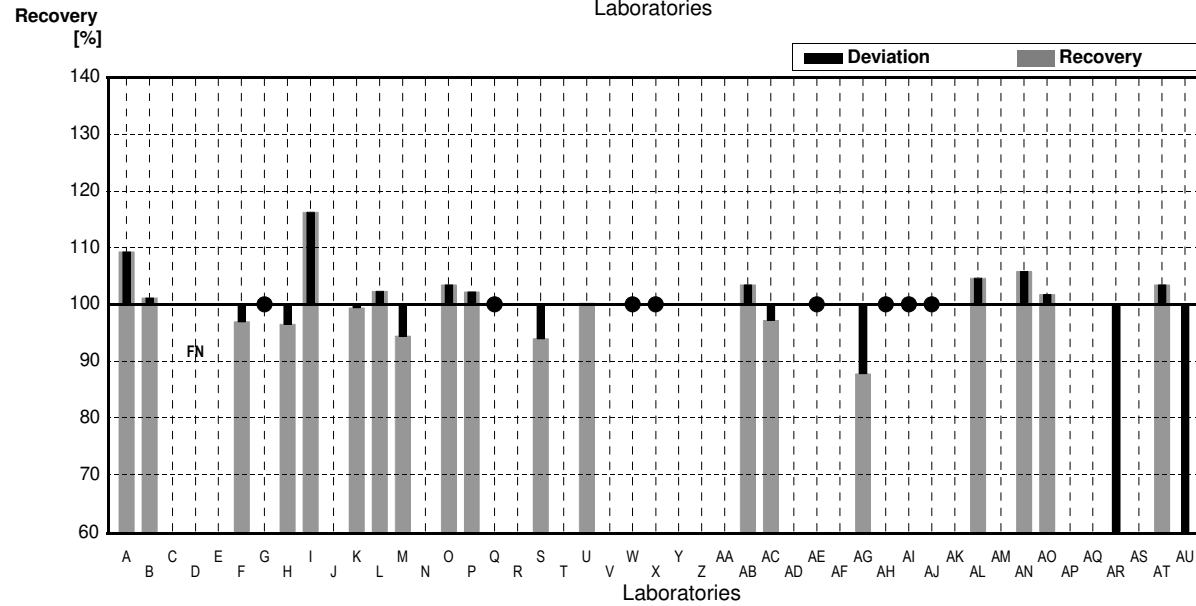
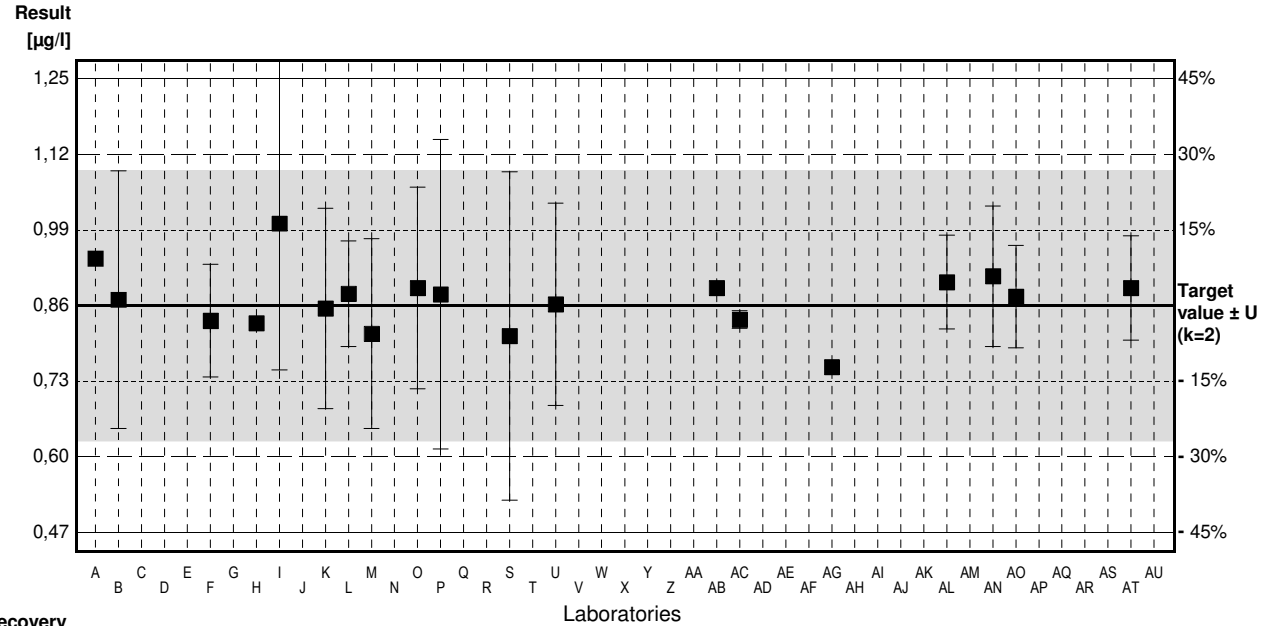
Sample M169B

Parameter Molybdenum

Target value ± U (k=2) 0,86 µg/l ± 0,23 µg/l
 IFA result ± U (k=2) 0,87 µg/l ± 0,10 µg/l
 Stability test ± U (k=2) 0,87 µg/l ± 0,10 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,94		µg/l	109%	1,41
B	0,87	0,22	µg/l	101%	0,18
C			µg/l		
D	<0,1	0,05	µg/l	FN	
E			µg/l		
F	0,834	0,096	µg/l	97%	-0,46
G	<1		µg/l	*	
H	0,83		µg/l	97%	-0,53
I	1,00	0,25	µg/l	116%	2,47
J			µg/l		
K	0,855	0,171	µg/l	99%	-0,09
L	0,88	0,09	µg/l	102%	0,35
M	0,812	0,162	µg/l	94%	-0,85
N			µg/l		
O	0,89	0,172	µg/l	103%	0,53
P	0,879	0,264	µg/l	102%	0,33
Q	<5		µg/l	*	
R			µg/l		
S	0,808	0,28	µg/l	94%	-0,92
T			µg/l		
U	0,862	0,1724	µg/l	100%	0,04
V			µg/l		
W	<10		µg/l	*	
X	<5		µg/l	*	
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	0,89		µg/l	103%	0,53
AC	0,836	0,015	µg/l	97%	-0,42
AD			µg/l		
AE	<1		µg/l	*	
AF			µg/l		
AG	0,755		µg/l	88%	-1,85
AH	<1		µg/l	*	
AI	<1,0		µg/l	*	
AJ	<1		µg/l	*	
AK			µg/l		
AL	0,90	0,08	µg/l	105%	0,70
AM			µg/l		
AN	0,91	0,12	µg/l	106%	0,88
AO	0,875	0,0875	µg/l	102%	0,26
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	0,052	0,01	µg/l	6%	-14,24
AT	0,89	0,089	µg/l	103%	0,53
AU	0,300	0,033	µg/l	35%	-9,87

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,80 ± 0,14	0,87 ± 0,03	µg/l
Recov. ± CI(99%)	93,4 ± 15,8	101,1 ± 4,1	%
SD between labs	0,22	0,05	µg/l
RSD between labs	27,1	6,1	%
n for calculation	21	19	

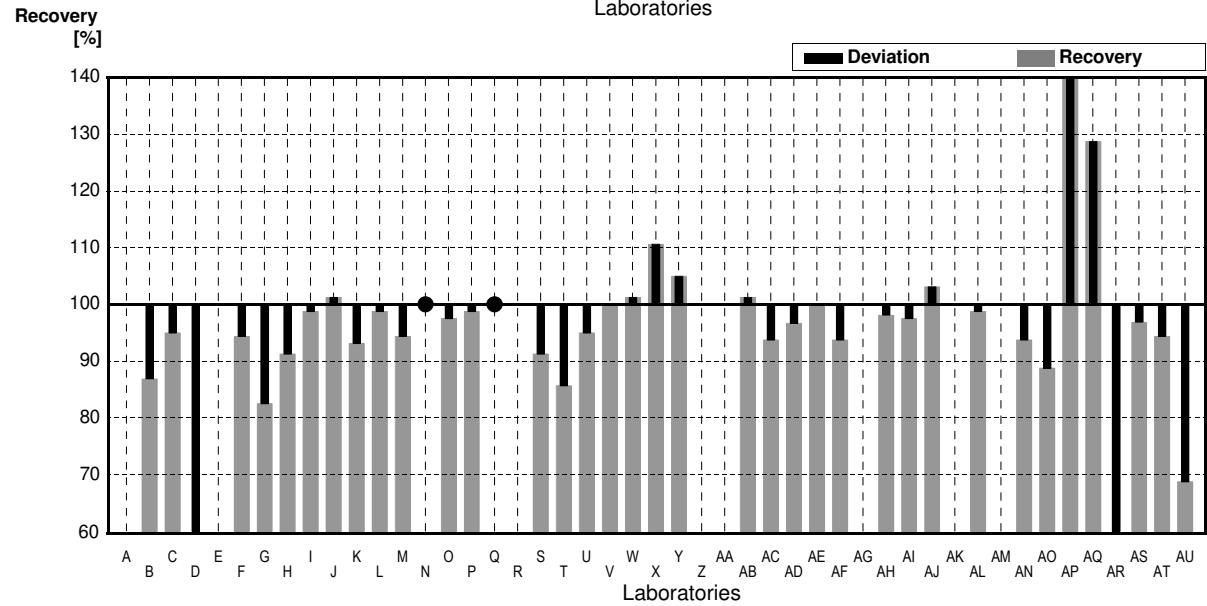
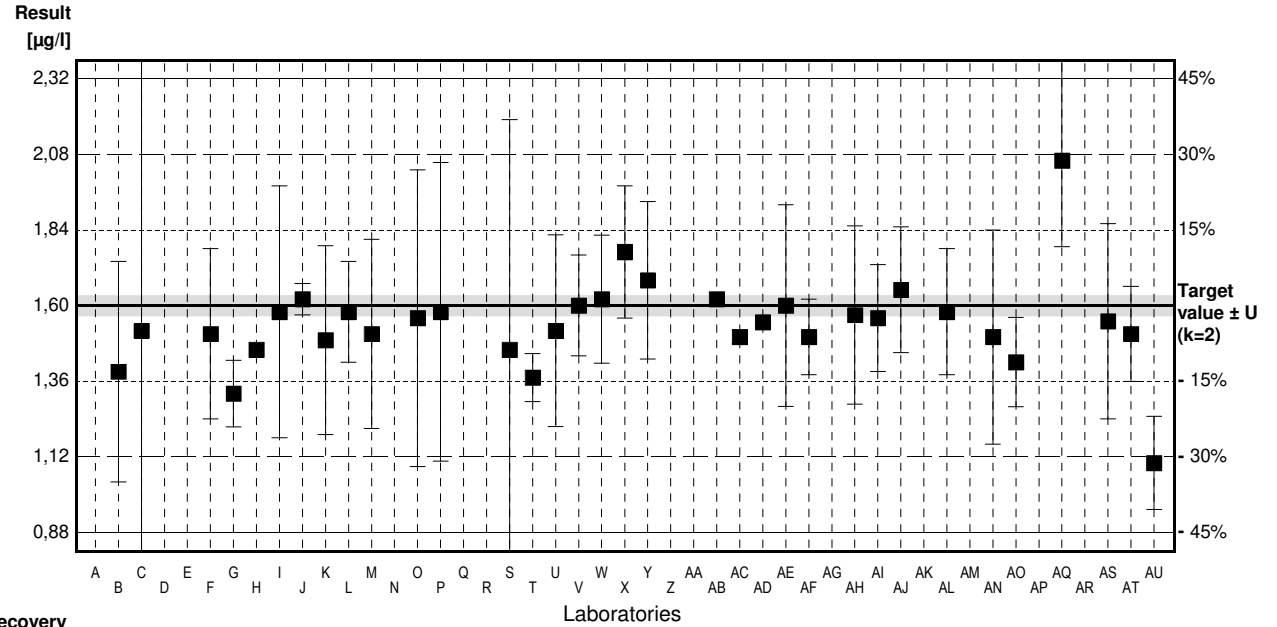


Sample M169A
Parameter Nickel

Target value ± U (k=2) 1,60 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 1,60 µg/l ± 0,11 µg/l
 Stability test ± U (k=2) 1,59 µg/l ± 0,11 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	1,39	0,35	µg/l	87%	-1,77
C	1,52	1	µg/l	95%	-0,68
D	0,60 *	0,05	µg/l	38%	-8,45
E			µg/l		
F	1,51	0,270	µg/l	94%	-0,76
G	1,32	0,106	µg/l	83%	-2,36
H	1,46		µg/l	91%	-1,18
I	1,58	0,40	µg/l	99%	-0,17
J	1,62	0,0496	µg/l	101%	0,17
K	1,49	0,30	µg/l	93%	-0,93
L	1,58	0,16	µg/l	99%	-0,17
M	1,51	0,30	µg/l	94%	-0,76
N	<2		µg/l	*	
O	1,56	0,471	µg/l	98%	-0,34
P	1,58	0,474	µg/l	99%	-0,17
Q	<5		µg/l	*	
R			µg/l		
S	1,46	0,73	µg/l	91%	-1,18
T	1,371	0,076	µg/l	86%	-1,93
U	1,52	0,304	µg/l	95%	-0,68
V	1,60	0,160	µg/l	100%	0,00
W	1,62	0,203	µg/l	101%	0,17
X	1,77	0,21	µg/l	111%	1,44
Y	1,68	0,25	µg/l	105%	0,68
Z			µg/l		
AA			µg/l		
AB	1,62		µg/l	101%	0,17
AC	1,50	0,021	µg/l	94%	-0,84
AD	1,547		µg/l	97%	-0,45
AE	1,60	0,32	µg/l	100%	0,00
AF	1,50	0,12	µg/l	94%	-0,84
AG			µg/l		
AH	1,57	0,283	µg/l	98%	-0,25
AI	1,56	0,17	µg/l	98%	-0,34
AJ	1,65	0,2	µg/l	103%	0,42
AK			µg/l		
AL	1,58	0,2	µg/l	99%	-0,17
AM			µg/l		
AN	1,50	0,34	µg/l	94%	-0,84
AO	1,42	0,142	µg/l	89%	-1,52
AP	2,45 *	0,3	µg/l	153%	7,18
AQ	2,06 *	0,273	µg/l	129%	3,89
AR	0,210 *	0,05	µg/l	13%	-11,74
AS	1,55	0,31	µg/l	97%	-0,42
AT	1,51	0,151	µg/l	94%	-0,76
AU	1,10 *	0,148	µg/l	69%	-4,22

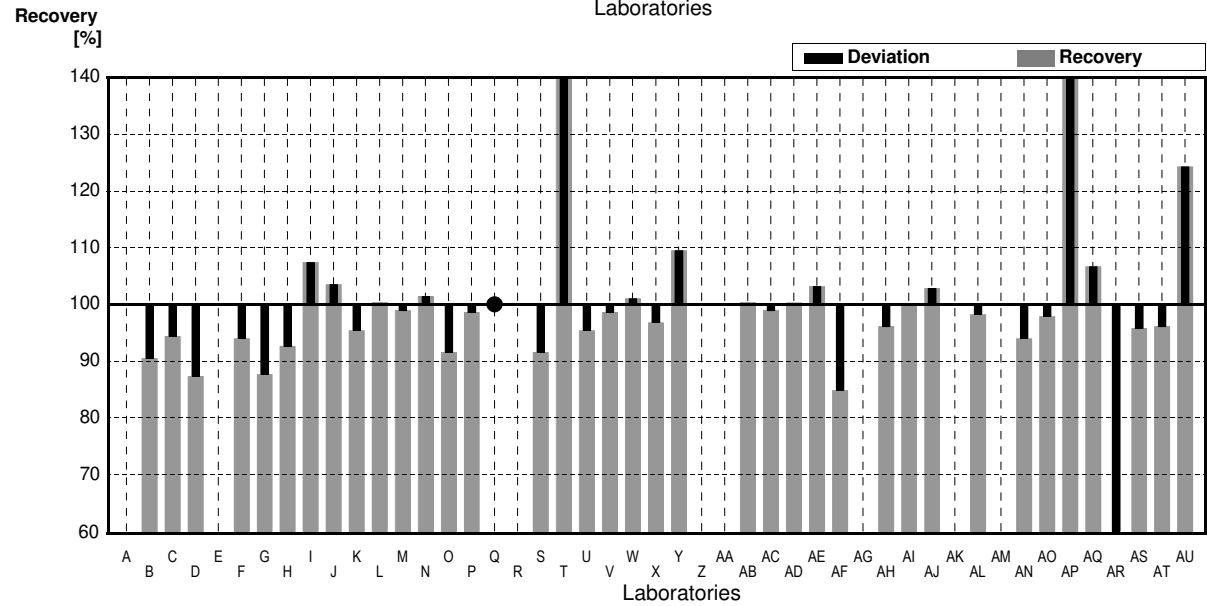
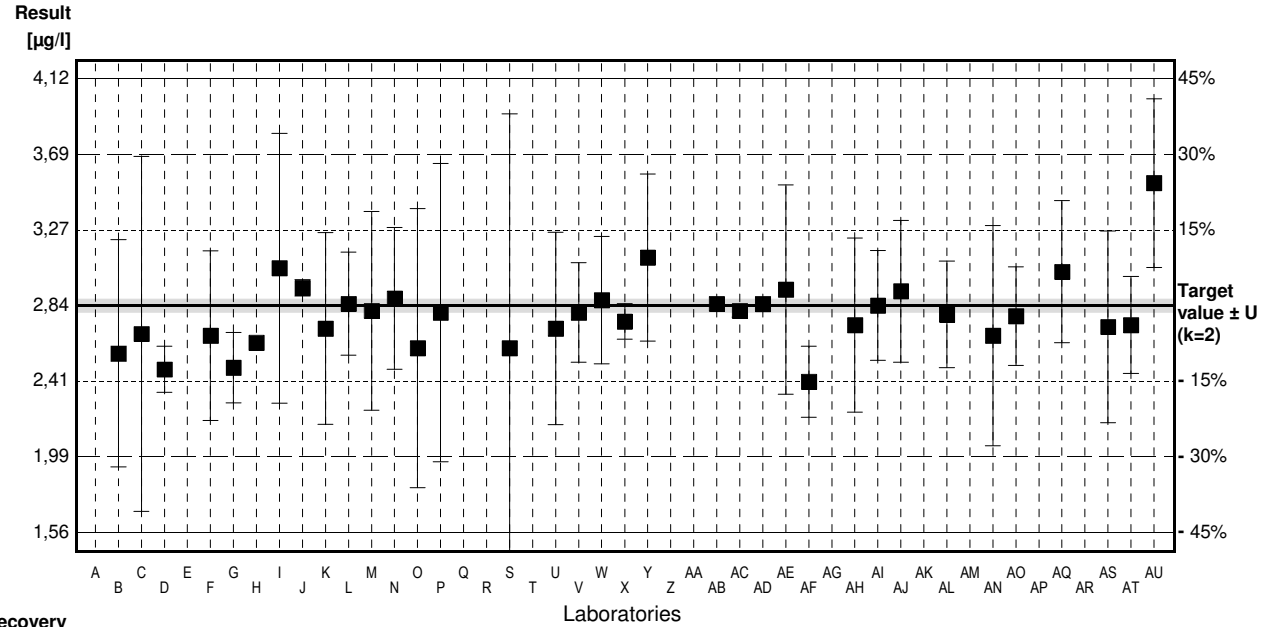
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,50 ± 0,15	1,54 ± 0,04	µg/l
Recov. ± CI(99%)	94,0 ± 9,5	96,2 ± 2,8	%
SD between labs	0,34	0,09	µg/l
RSD between labs	22,6	5,9	%
n for calculation	37	32	



Sample M169B
Parameter Nickel

Target value ± U (k=2) 2,84 µg/l ± 0,04 µg/l
 IFA result ± U (k=2) 2,84 µg/l ± 0,15 µg/l
 Stability test ± U (k=2) 2,72 µg/l ± 0,14 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	2,57	0,64	µg/l	90%	-1,28
C	2,68	1	µg/l	94%	-0,76
D	2,48	0,13	µg/l	87%	-1,71
E			µg/l		
F	2,67	0,478	µg/l	94%	-0,81
G	2,49	0,199	µg/l	88%	-1,67
H	2,63		µg/l	93%	-1,00
I	3,05	0,76	µg/l	107%	1,00
J	2,94	0,0462	µg/l	104%	0,48
K	2,71	0,54	µg/l	95%	-0,62
L	2,85	0,29	µg/l	100%	0,05
M	2,81	0,56	µg/l	99%	-0,14
N	2,88	0,4	µg/l	101%	0,19
O	2,60	0,786	µg/l	92%	-1,14
P	2,80	0,840	µg/l	99%	-0,19
Q	<5		µg/l	*	
R			µg/l		
S	2,60	1,32	µg/l	92%	-1,14
T	4,380 *	0,055	µg/l	154%	7,33
U	2,71	0,542	µg/l	95%	-0,62
V	2,80	0,280	µg/l	99%	-0,19
W	2,87	0,359	µg/l	101%	0,14
X	2,75	0,1	µg/l	97%	-0,43
Y	3,11	0,47	µg/l	110%	1,28
Z			µg/l		
AA			µg/l		
AB	2,85		µg/l	100%	0,05
AC	2,81	0,035	µg/l	99%	-0,14
AD	2,848		µg/l	100%	0,04
AE	2,93	0,59	µg/l	103%	0,43
AF	2,41	0,20	µg/l	85%	-2,05
AG			µg/l		
AH	2,73	0,491	µg/l	96%	-0,52
AI	2,84	0,31	µg/l	100%	0,00
AJ	2,92	0,4	µg/l	103%	0,38
AK			µg/l		
AL	2,79	0,3	µg/l	98%	-0,24
AM			µg/l		
AN	2,67	0,62	µg/l	94%	-0,81
AO	2,78	0,278	µg/l	98%	-0,29
AP	4,26 *	0,53	µg/l	150%	6,76
AQ	3,03	0,400	µg/l	107%	0,90
AR	0,203 *	0,05	µg/l	7%	-12,55
AS	2,72	0,54	µg/l	96%	-0,57
AT	2,73	0,273	µg/l	96%	-0,52
AU	3,53 *	0,475	µg/l	124%	3,28



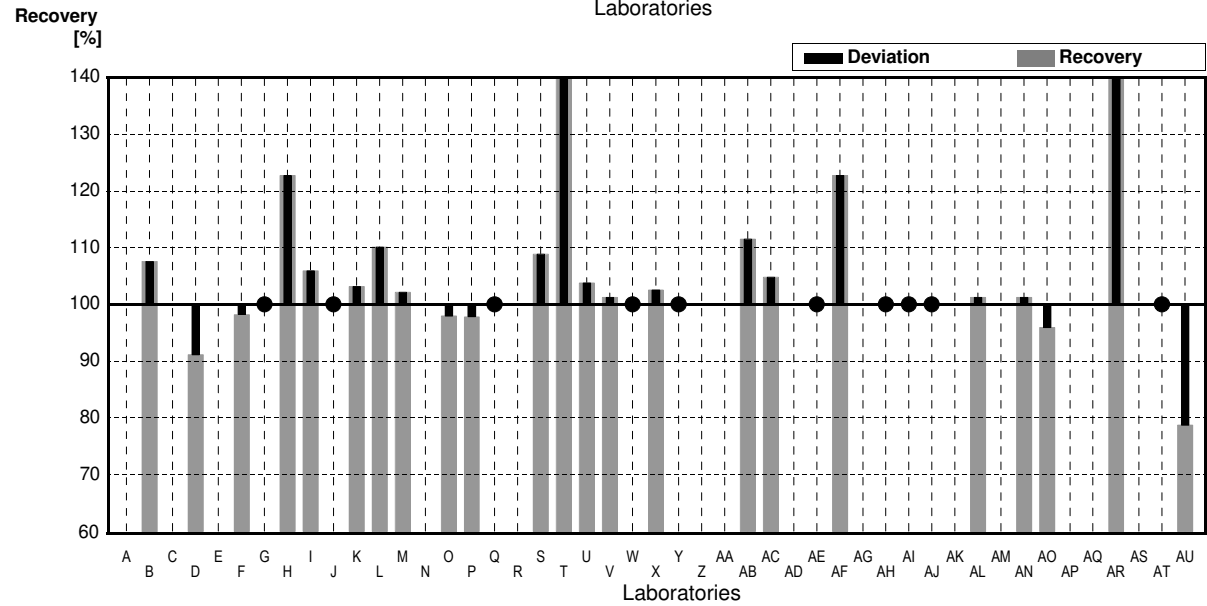
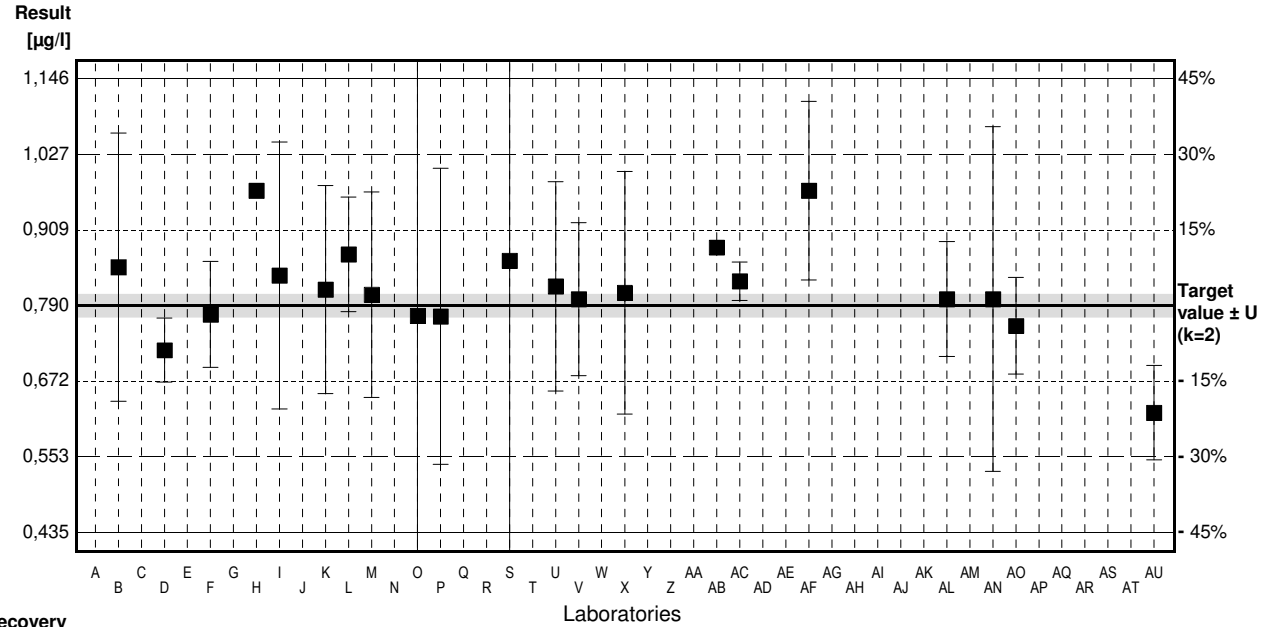
	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,80 ± 0,26	2,77 ± 0,07	µg/l
Recov. ± CI(99%)	98,6 ± 9,1	97,4 ± 2,6	%
SD between labs	0,59	0,16	µg/l
RSD between labs	21,0	5,8	%
n for calculation	38	34	

Sample M169A

Parameter Selenium

Target value ± U (k=2) 0,790 µg/l ± 0,018 µg/l
 IFA result ± U (k=2) 0,66 µg/l ± 0,09 µg/l
 Stability test ± U (k=2) 0,78 µg/l ± 0,10 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0.85	0.21	µg/l	108%	0.81
C			µg/l		
D	0.72	0.05	µg/l	91%	-0.94
E			µg/l		
F	0.776	0.083	µg/l	98%	-0.19
G	<1		µg/l	*	
H	0.97		µg/l	123%	2.42
I	0.837	0.209	µg/l	106%	0.63
J	<1.00		µg/l	*	
K	0.815	0.163	µg/l	103%	0.34
L	0.87	0.09	µg/l	110%	1.08
M	0.807	0.161	µg/l	102%	0.23
N			µg/l		
O	0.774	0.438	µg/l	98%	-0.22
P	0.773	0.232	µg/l	98%	-0.23
Q	<2		µg/l	*	
R			µg/l		
S	0.86	0.43	µg/l	109%	0.94
T	1.458 *	0.182	µg/l	185%	9.00
U	0.820	0.164	µg/l	104%	0.40
V	0.80	0.120	µg/l	101%	0.13
W	<1.0		µg/l	*	
X	0.81	0.19	µg/l	103%	0.27
Y	<1		µg/l	*	
Z			µg/l		
AA			µg/l		
AB	0.881		µg/l	112%	1.23
AC	0.828	0.030	µg/l	105%	0.51
AD			µg/l		
AE	<1		µg/l	*	
AF	0.97	0.14	µg/l	123%	2.42
AG			µg/l		
AH	<1		µg/l	*	
AI	<1.0		µg/l	*	
AJ	<1		µg/l	*	
AK			µg/l		
AL	0.80	0.09	µg/l	101%	0.13
AM			µg/l		
AN	0.80	0.27	µg/l	101%	0.13
AO	0.758	0.0758	µg/l	96%	-0.43
AP			µg/l		
AQ			µg/l		
AR	26.66 *	0.1	µg/l	3375%	348.37
AS			µg/l		
AT	<1.0		µg/l	*	
AU	0.622 *	0.074	µg/l	79%	-2.26



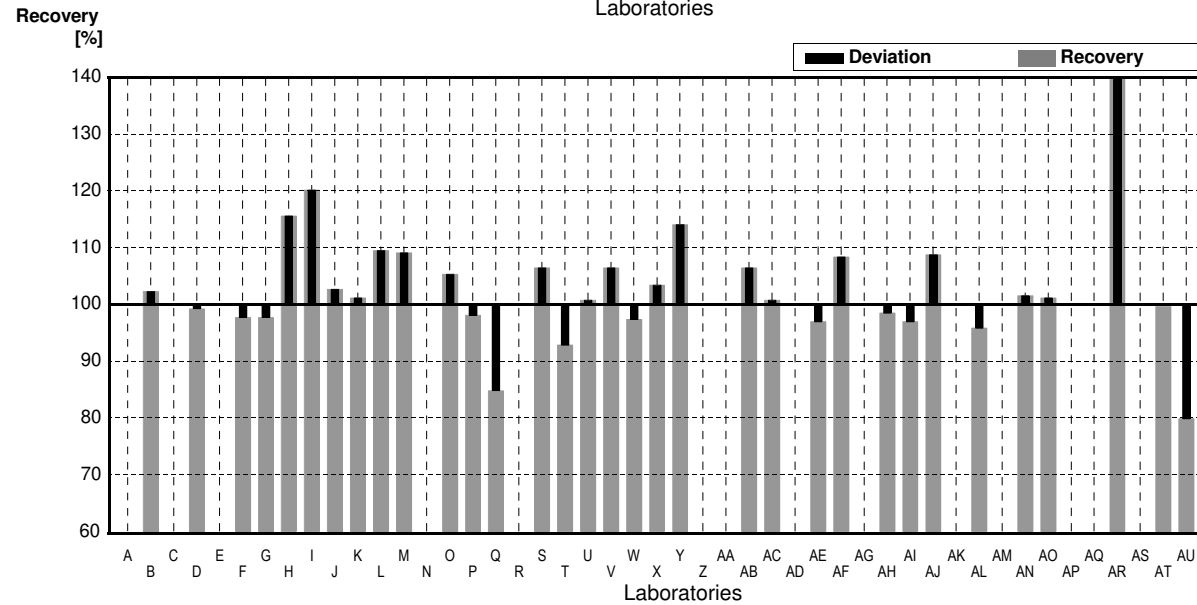
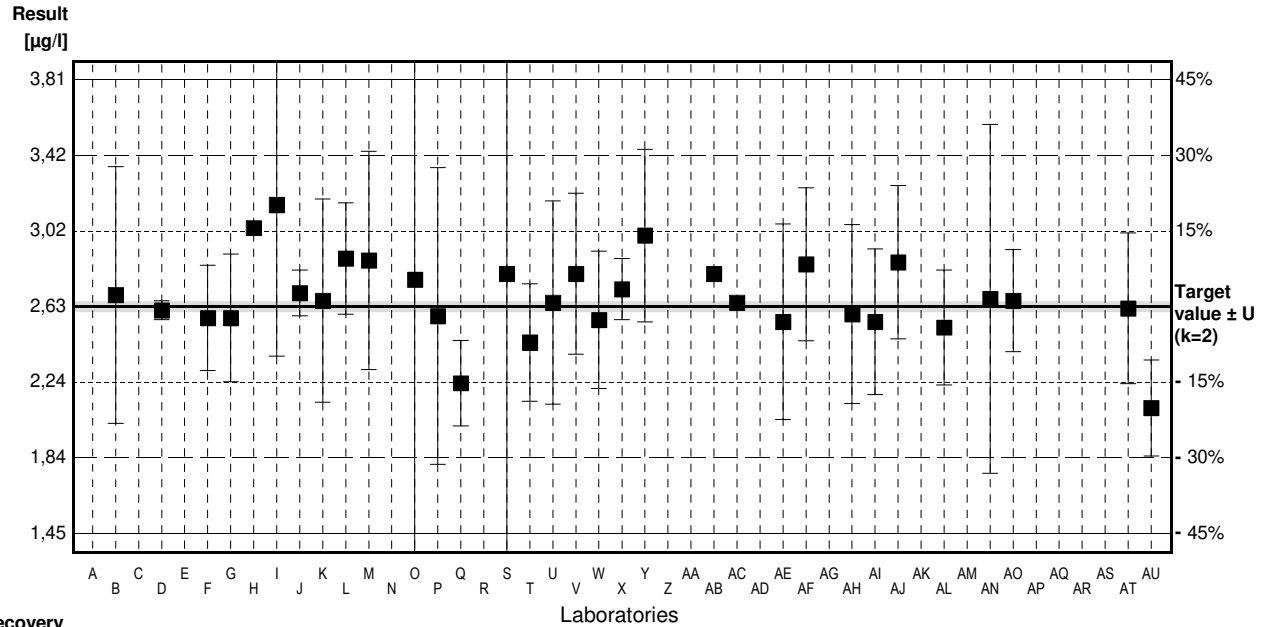
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,968 ± 3,166	0,826 ± 0,040	µg/l
Recov. ± CI(99%)	249,1 ± 400,8	104,6 ± 5,1	%
SD between labs	5,385	0,063	µg/l
RSD between labs	273,7	7,6	%
n for calculation	23	20	

Sample M169B

Parameter Selenium

Target value ± U (k=2) 2,63 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 2,67 µg/l ± 0,31 µg/l
 Stability test ± U (k=2) 2,67 µg/l ± 0,31 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	2,69	0,67	µg/l	102%	0,26
C			µg/l		
D	2,61	0,05	µg/l	99%	-0,09
E			µg/l		
F	2,57	0,275	µg/l	98%	-0,26
G	2,57	0,333	µg/l	98%	-0,26
H	3,04		µg/l	116%	1,77
I	3,16	0,79	µg/l	120%	2,29
J	2,70	0,119	µg/l	103%	0,30
K	2,66	0,53	µg/l	101%	0,13
L	2,88	0,29	µg/l	110%	1,08
M	2,87	0,57	µg/l	109%	1,04
N			µg/l		
O	2,77	1,57	µg/l	105%	0,60
P	2,58	0,774	µg/l	98%	-0,22
Q	2,23	0,223	µg/l	85%	-1,73
R			µg/l		
S	2,80	1,39	µg/l	106%	0,73
T	2,442	0,306	µg/l	93%	-0,81
U	2,65	0,53	µg/l	101%	0,09
V	2,80	0,420	µg/l	106%	0,73
W	2,56	0,358	µg/l	97%	-0,30
X	2,72	0,16	µg/l	103%	0,39
Y	3,00	0,45	µg/l	114%	1,60
Z			µg/l		
AA			µg/l		
AB	2,80		µg/l	106%	0,73
AC	2,65	0,020	µg/l	101%	0,09
AD			µg/l		
AE	2,55	0,51	µg/l	97%	-0,35
AF	2,85	0,40	µg/l	108%	0,95
AG			µg/l		
AH	2,59	0,466	µg/l	98%	-0,17
AI	2,55	0,38	µg/l	97%	-0,35
AJ	2,86	0,4	µg/l	109%	0,99
AK			µg/l		
AL	2,52	0,3	µg/l	96%	-0,48
AM			µg/l		
AN	2,67	0,91	µg/l	102%	0,17
AQ	2,66	0,266	µg/l	101%	0,13
AP			µg/l		
AQ			µg/l		
AR	24,80 *	0,10	µg/l	943%	95,79
AS			µg/l		
AT	2,62	0,393	µg/l	100%	-0,04
AU	2,10 *	0,25	µg/l	80%	-2,29



	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,35 ± 1,84	2,70 ± 0,09	µg/l
Recov. ± CI(99%)	127,3 ± 69,9	102,6 ± 3,5	%
SD between labs	3,86	0,19	µg/l
RSD between labs	115,1	6,9	%
n for calculation	33	31	

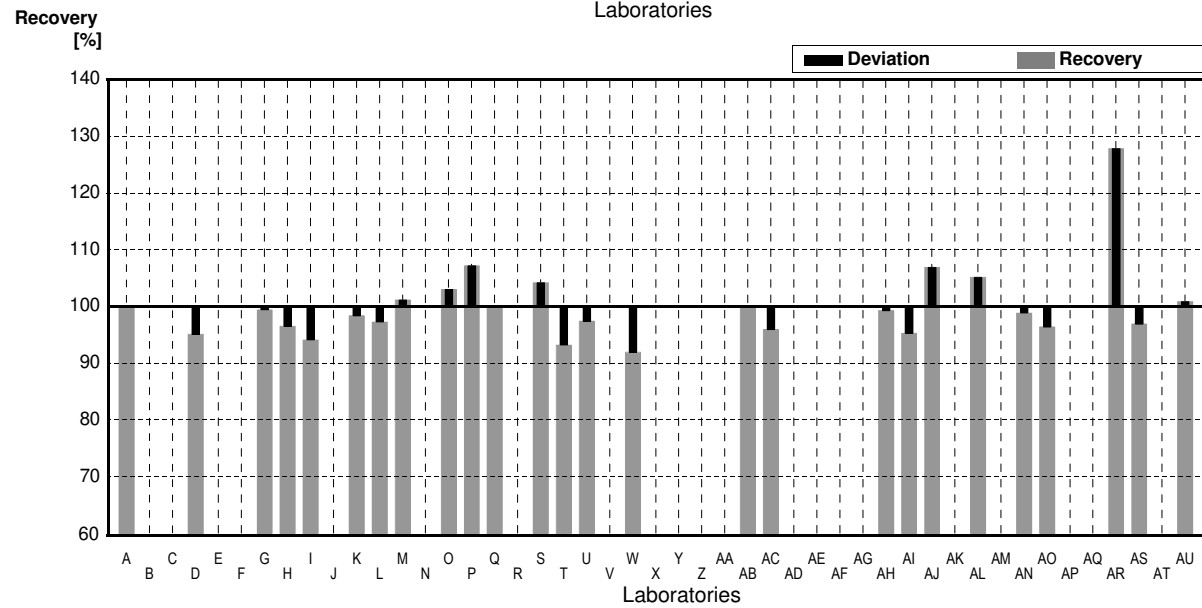
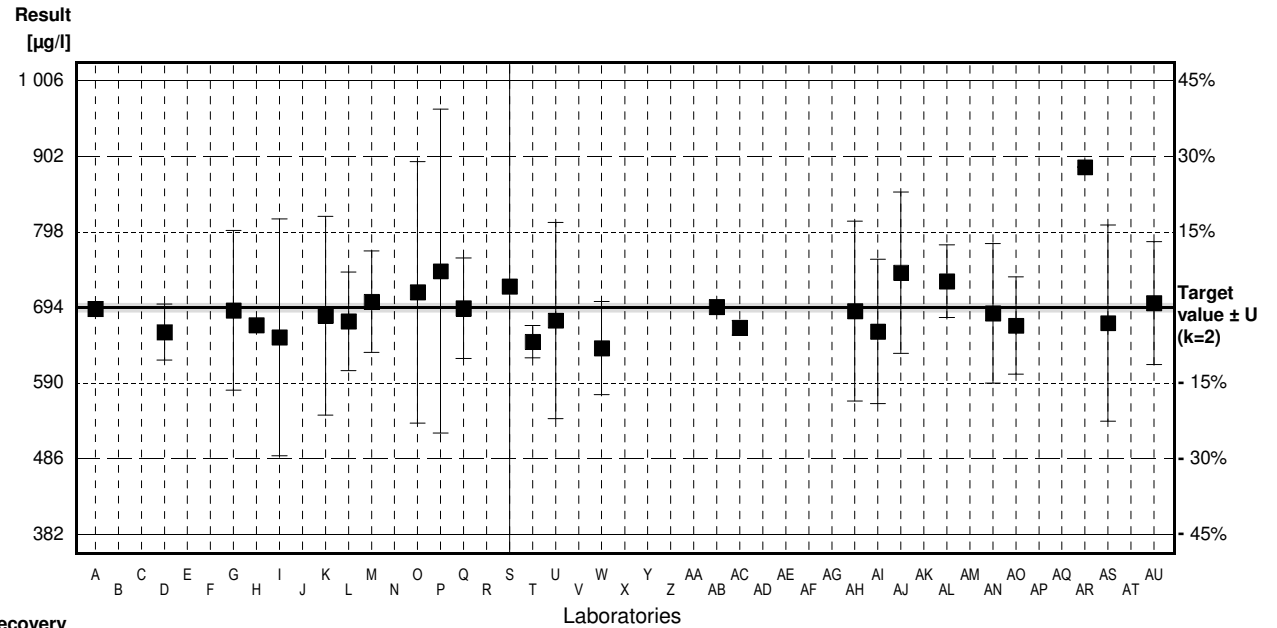
Sample M169A
Parameter Strontium*

Target value ± U (k=2) 694 µg/l ± 6 µg/l
 IFA result ± U (k=2) 664 µg/l ± 1 µg/l
 Stability test ± U (k=2) 649 µg/l ± 1 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	692.2		µg/l	100%	-0.06
B			µg/l		
C			µg/l		
D	660	38.57	µg/l	95%	-1.09
E			µg/l		
F			µg/l		
G	690	110	µg/l	99%	-0.13
H	669.89		µg/l	97%	-0.77
I	653	163	µg/l	94%	-1.31
J			µg/l		
K	682.6	137	µg/l	98%	-0.37
L	675	68	µg/l	97%	-0.61
M	702	70	µg/l	101%	0.26
N			µg/l		
O	715	180	µg/l	103%	0.67
P	744	223	µg/l	107%	1.60
Q	692.8	69.28	µg/l	100%	-0.04
R			µg/l		
S	723	361	µg/l	104%	0.93
T	646.8	22.3	µg/l	93%	-1.51
U	676	135.2	µg/l	97%	-0.58
V			µg/l		
W	638	64	µg/l	92%	-1.79
X			µg/l		
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	695		µg/l	100%	0.03
AC	666	9.8	µg/l	96%	-0.90
AD			µg/l		
AE			µg/l		
AF			µg/l		
AG			µg/l		
AH	689	124	µg/l	99%	-0.16
AI	661	99.2	µg/l	95%	-1.06
AJ	742	111	µg/l	107%	1.54
AK			µg/l		
AL	730	50	µg/l	105%	1.15
AM			µg/l		
AN	686	96	µg/l	99%	-0.26
AO	669	66.9	µg/l	96%	-0.80
AP			µg/l		
AQ			µg/l		
AR	887.2 *	0.1	µg/l	128%	6.19
AS	672.5	135	µg/l	97%	-0.69
AT			µg/l		
AU	700	84.5	µg/l	101%	0.19

*not in the accredited scope

	All results	Outliers excl.	Unit
Mean ± CI(99%)	695 ± 26	687 ± 16	µg/l
Recov. ± CI(99%)	100,1 ± 3,8	99,0 ± 2,3	%
SD between labs	48	28	µg/l
RSD between labs	6.9	4.1	%
n for calculation	26	25	



Sample M169B

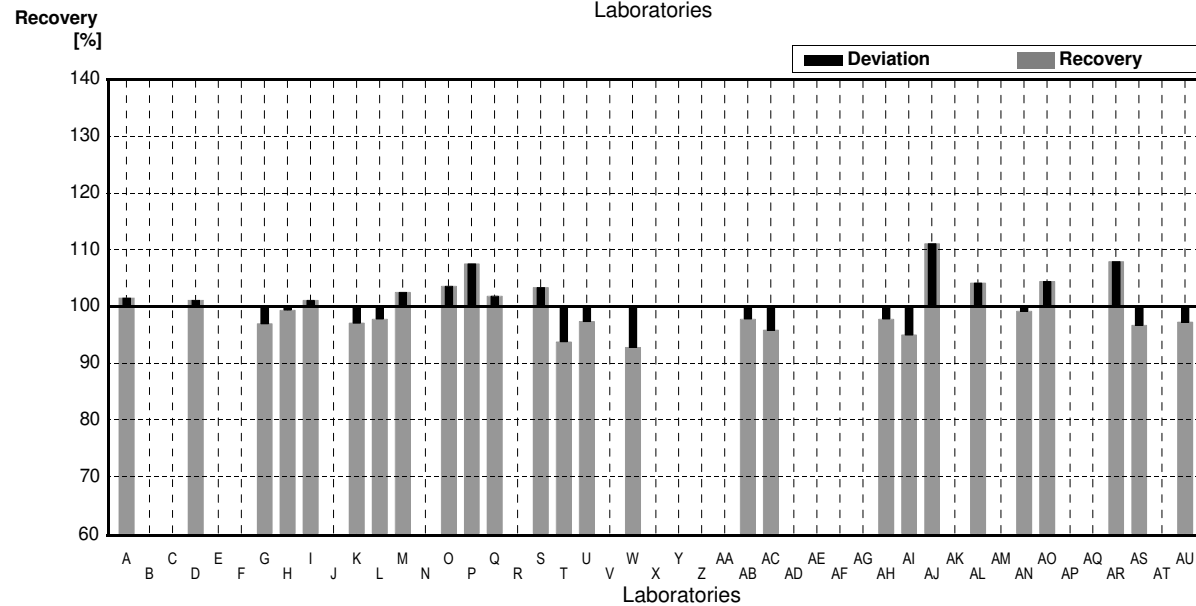
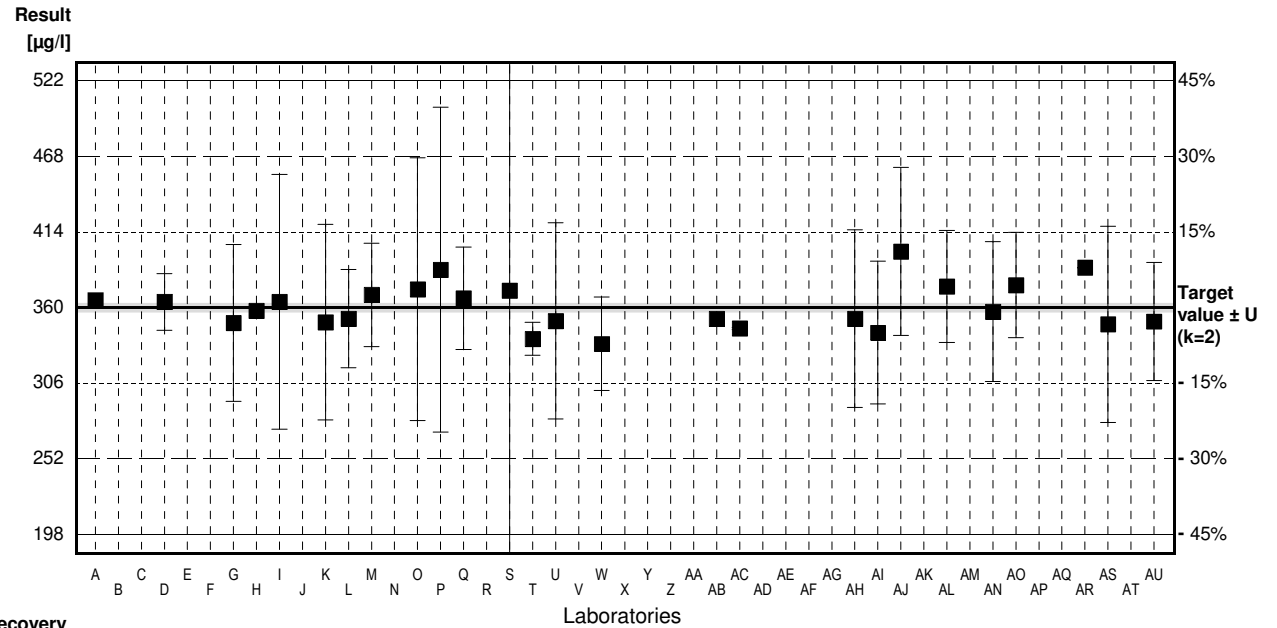
Parameter Strontium*

Target value ± U (k=2) 360 µg/l ± 3 µg/l
 IFA result ± U (k=2) 350,7 µg/l ± 0,9 µg/l
 Stability test ± U (k=2) 337,7 µg/l ± 0,9 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	365,3		µg/l	101%	0,33
B			µg/l		
C			µg/l		
D	364	20,27	µg/l	101%	0,25
E			µg/l		
F			µg/l		
G	349	56	µg/l	97%	-0,68
H	357,73		µg/l	99%	-0,14
I	364	91	µg/l	101%	0,25
J			µg/l		
K	349,5	69,9	µg/l	97%	-0,65
L	352	35	µg/l	98%	-0,49
M	369	37	µg/l	103%	0,56
N			µg/l		
O	373	93,8	µg/l	104%	0,80
P	387	116	µg/l	108%	1,67
Q	366,55	36,655	µg/l	102%	0,40
R			µg/l		
S	372	186	µg/l	103%	0,74
T	337,6	11,7	µg/l	94%	-1,38
U	350,4	70,08	µg/l	97%	-0,59
V			µg/l		
W	334	33,4	µg/l	93%	-1,60
X			µg/l		
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	352		µg/l	98%	-0,49
AC	345	0,71	µg/l	96%	-0,93
AD			µg/l		
AE			µg/l		
AF			µg/l		
AG			µg/l		
AH	352	63,4	µg/l	98%	-0,49
AI	342	51	µg/l	95%	-1,11
AJ	400	60	µg/l	111%	2,47
AK			µg/l		
AL	375	40	µg/l	104%	0,93
AM			µg/l		
AN	357	50	µg/l	99%	-0,19
AO	376	37,6	µg/l	104%	0,99
AP			µg/l		
AQ			µg/l		
AR	388,44	0,1	µg/l	108%	1,76
AS	348,0	70	µg/l	97%	-0,74
AT			µg/l		
AU	350	42,2	µg/l	97%	-0,62

*not in the accredited scope

	All results	Outliers excl.	Unit
Mean ± CI(99%)	361 ± 9	361 ± 9	µg/l
Recov. ± CI(99%)	100,2 ± 2,5	100,2 ± 2,5	%
SD between labs	16	16	µg/l
RSD between labs	4,5	4,5	%
n for calculation	26	26	

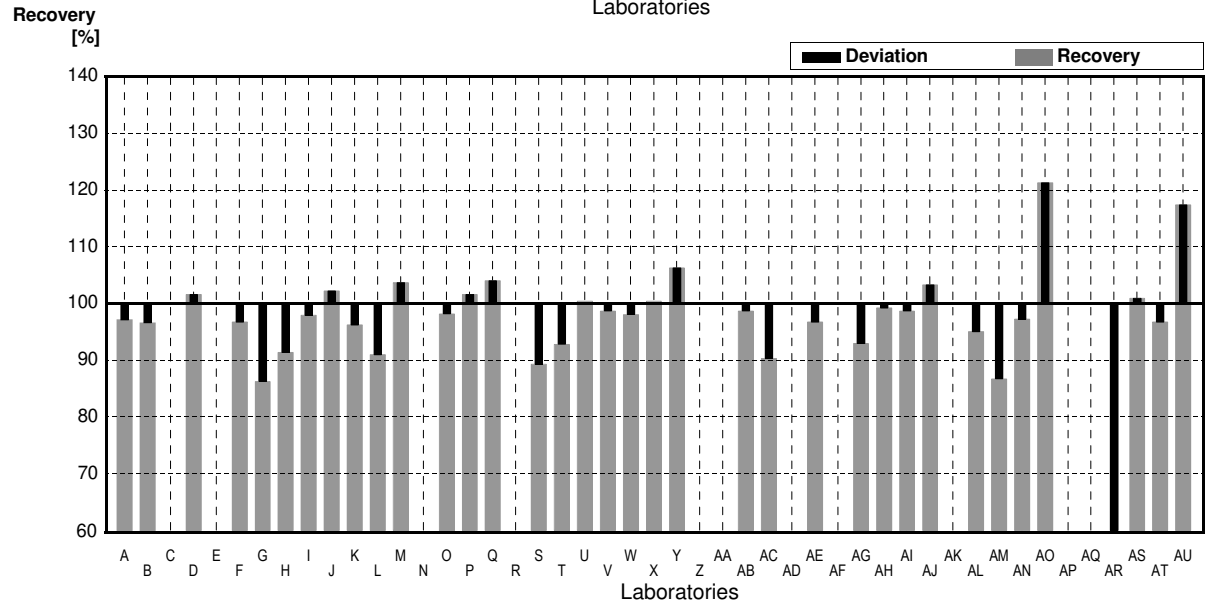
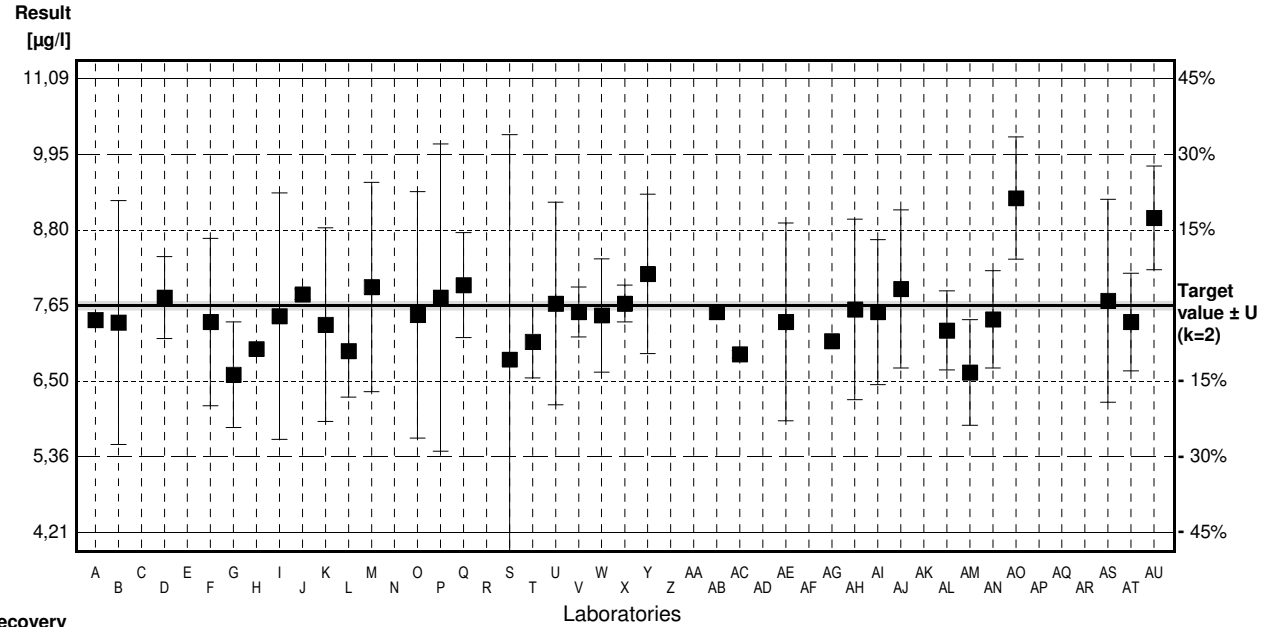


Sample M169A
Parameter Uranium

Target value ± U (k=2) 7,65 µg/l ± 0,07 µg/l
 IFA result ± U (k=2) 7,6 µg/l ± 0,9 µg/l
 Stability test ± U (k=2) 7,7 µg/l ± 0,9 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	7.43		µg/l	97%	-0.52
B	7.39	1.85	µg/l	97%	-0.62
C			µg/l		
D	7.77	0.62	µg/l	102%	0.29
E			µg/l		
F	7.40	1.27	µg/l	97%	-0.59
G	6.6	0.80	µg/l	86%	-2.50
H	6.99		µg/l	91%	-1.57
I	7.49	1.87	µg/l	98%	-0.38
J	7.82	0.0794	µg/l	102%	0.40
K	7.36	1.47	µg/l	96%	-0.69
L	6.96	0.70	µg/l	91%	-1.64
M	7.93	1.59	µg/l	104%	0.67
N			µg/l		
O	7.51	1.87	µg/l	98%	-0.33
P	7.77	2.33	µg/l	102%	0.29
Q	7.96	0.796	µg/l	104%	0.74
R			µg/l		
S	6.83	3.41	µg/l	89%	-1.95
T	7.100	0.551	µg/l	93%	-1.31
U	7.68	1.536	µg/l	100%	0.07
V	7.55	0.378	µg/l	99%	-0.24
W	7.5	0.86	µg/l	98%	-0.36
X	7.68	0.28	µg/l	100%	0.07
Y	8.13	1.21	µg/l	106%	1.14
Z			µg/l		
AA			µg/l		
AB	7.55		µg/l	99%	-0.24
AC	6.91	0.057	µg/l	90%	-1.76
AD			µg/l		
AE	7.40	1.5	µg/l	97%	-0.59
AF			µg/l		
AG	7.11		µg/l	93%	-1.28
AH	7.59	1.37	µg/l	99%	-0.14
AI	7.55	1.1	µg/l	99%	-0.24
AJ	7.9	1.2	µg/l	103%	0.59
AK			µg/l		
AL	7.27	0.6	µg/l	95%	-0.90
AM	6.633	0.8	µg/l	87%	-2.42
AN	7.44	0.74	µg/l	97%	-0.50
AO	9.28 *	0.928	µg/l	121%	3.87
AP			µg/l		
AQ			µg/l		
AR	2.91 *	0.1	µg/l	38%	-11.27
AS	7.72	1.54	µg/l	101%	0.17
AT	7.4	0.74	µg/l	97%	-0.59
AU	8.98 *	0.788	µg/l	117%	3.16

	All results	Outliers excl.	Unit
Mean ± CI(99%)	7,40 ± 0,43	7,43 ± 0,18	µg/l
Recov. ± CI(99%)	96,8 ± 5,6	97,2 ± 2,3	%
SD between labs	0,94	0,38	µg/l
RSD between labs	12,7	5,1	%
n for calculation	36	33	

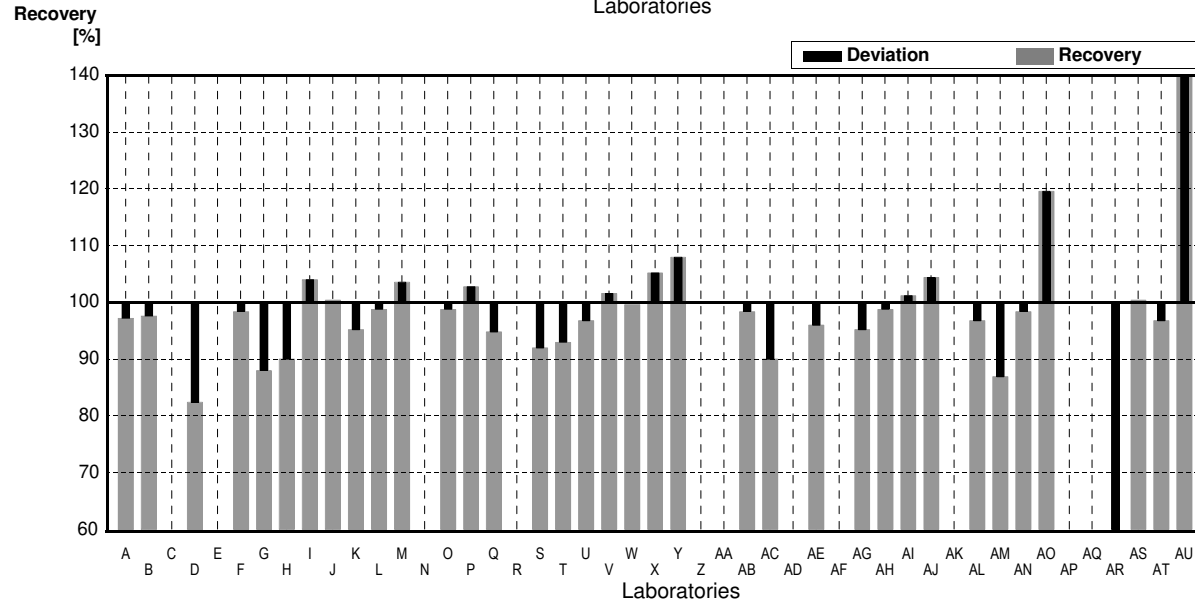
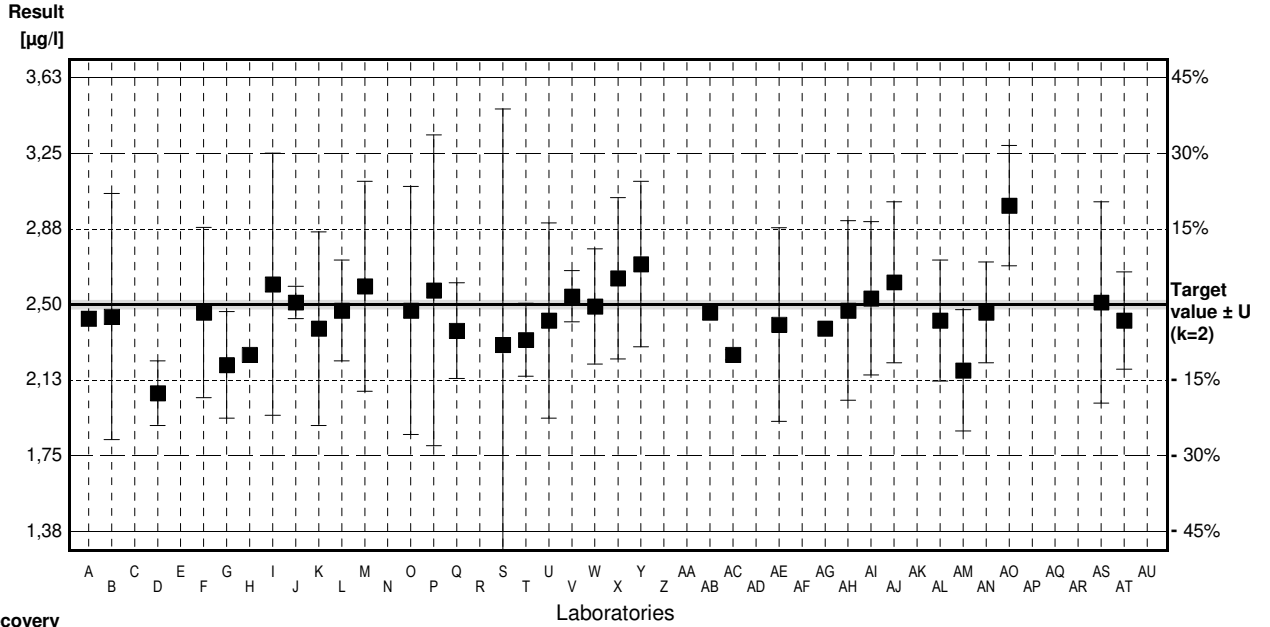


Sample M169B

Parameter Uranium

Target value ± U (k=2) 2,50 µg/l ± 0,02 µg/l
 IFA result ± U (k=2) 2,34 µg/l ± 0,26 µg/l
 Stability test ± U (k=2) 2,40 µg/l ± 0,27 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	2,43		µg/l	97%	-0,50
B	2,44	0,61	µg/l	98%	-0,43
C			µg/l		
D	2,06 *	0,16	µg/l	82%	-3,14
E			µg/l		
F	2,46	0,423	µg/l	98%	-0,29
G	2,20	0,264	µg/l	88%	-2,14
H	2,25		µg/l	90%	-1,79
I	2,60	0,65	µg/l	104%	0,71
J	2,51	0,0806	µg/l	100%	0,07
K	2,38	0,48	µg/l	95%	-0,86
L	2,47	0,25	µg/l	99%	-0,21
M	2,59	0,52	µg/l	104%	0,64
N			µg/l		
O	2,47	0,616	µg/l	99%	-0,21
P	2,57	0,771	µg/l	103%	0,50
Q	2,37	0,237	µg/l	95%	-0,93
R			µg/l		
S			µg/l		
T			µg/l		
U			µg/l		
V			µg/l		
W			µg/l		
X			µg/l		
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	2,46		µg/l	98%	-0,29
AC	2,25	0,025	µg/l	90%	-1,79
AD			µg/l		
AE	2,40	0,48	µg/l	96%	-0,71
AF			µg/l		
AG	2,38		µg/l	95%	-0,86
AH	2,47	0,445	µg/l	99%	-0,21
AI	2,53	0,38	µg/l	101%	0,21
AJ	2,61	0,4	µg/l	104%	0,79
AK			µg/l		
AL	2,42	0,3	µg/l	97%	-0,57
AM	2,173	0,3	µg/l	87%	-2,34
AN	2,46	0,25	µg/l	98%	-0,29
AO	2,99 *	0,299	µg/l	120%	3,50
AP			µg/l		
AQ			µg/l		
AR	0,92 *	0,1	µg/l	37%	-11,29
AS	2,51	0,50	µg/l	100%	0,07
AT	2,42	0,242	µg/l	97%	-0,57
AU	5,06 *	0,444	µg/l	202%	18,29



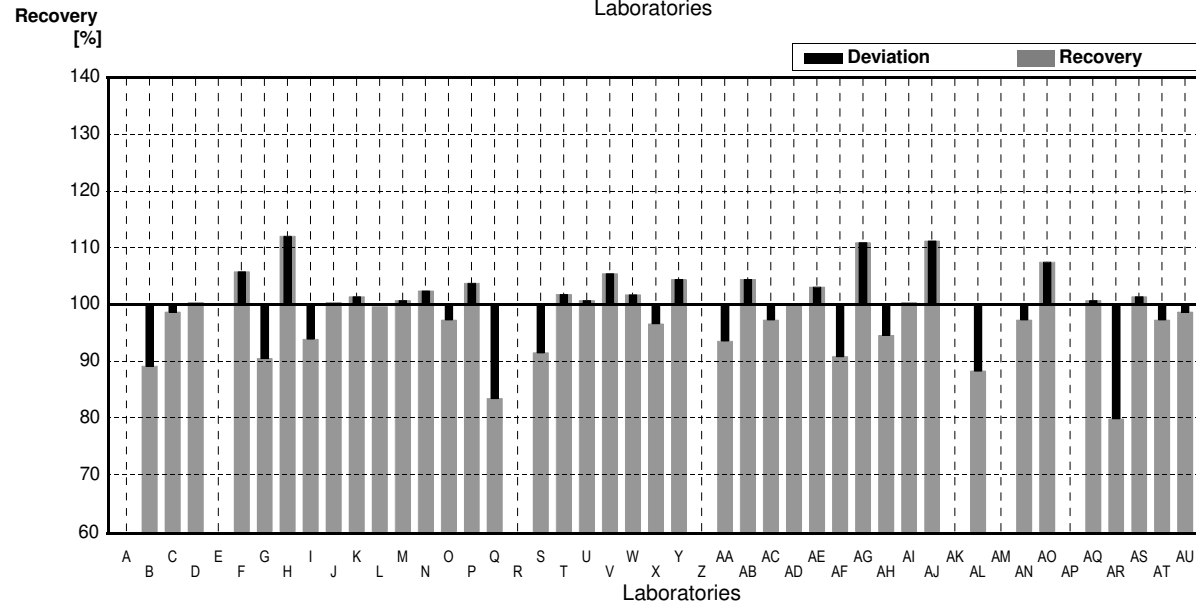
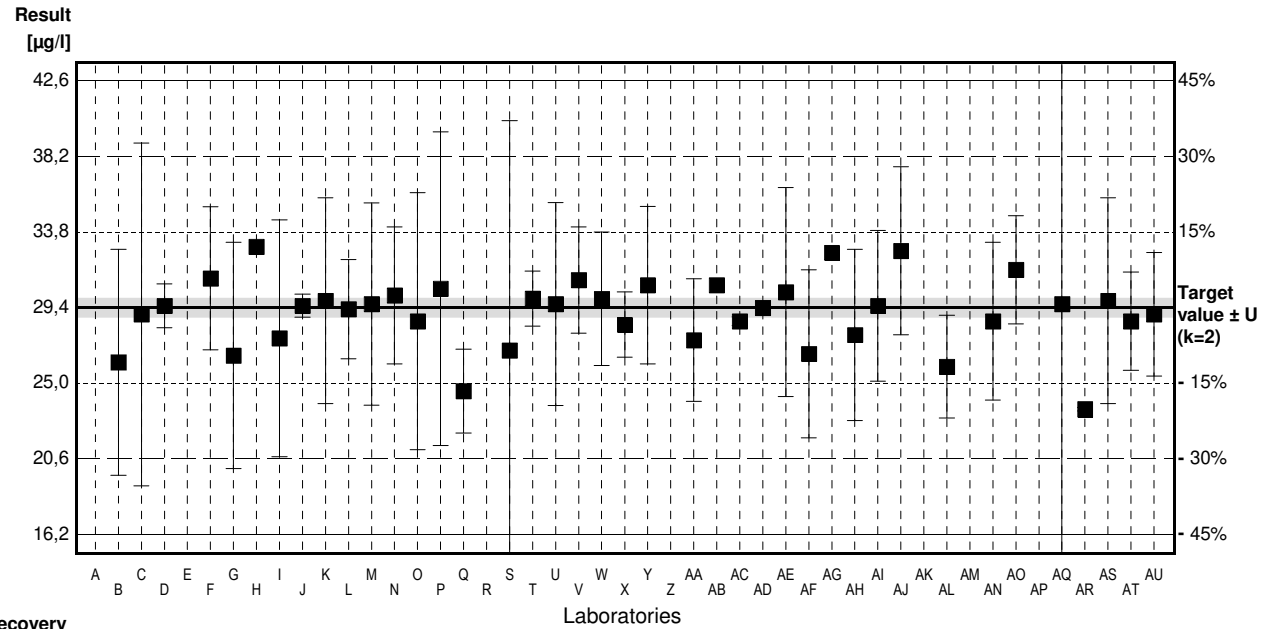
	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,48 ± 0,24	2,44 ± 0,06	µg/l
Recov. ± CI(99%)	99,2 ± 9,8	97,8 ± 2,4	%
SD between labs	0,54	0,12	µg/l
RSD between labs	21,6	5,1	%
n for calculation	36	32	

Sample M169A

Parameter Zinc

Target value ± U (k=2) 29,4 µg/l ± 0,6 µg/l
 IFA result ± U (k=2) 37,3 µg/l ± 4,2 µg/l
 Stability test ± U (k=2) 29,6 µg/l ± 3,3 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	26.2	6.6	µg/l	89%	-1.55
C	29.0	10	µg/l	99%	-0.19
D	29.5	1.28	µg/l	100%	0.05
E			µg/l		
F	31.1	4.17	µg/l	106%	0.83
G	26.6	6.6	µg/l	90%	-1.36
H	32.95		µg/l	112%	1.72
I	27.6	6.9	µg/l	94%	-0.87
J	29.5	0.673	µg/l	100%	0.05
K	29.8	6.0	µg/l	101%	0.19
L	29.3	2.9	µg/l	100%	-0.05
M	29.6	5.9	µg/l	101%	0.10
N	30.1	4	µg/l	102%	0.34
O	28.6	7.49	µg/l	97%	-0.39
P	30.5	9.15	µg/l	104%	0.53
Q	24.52 *	2.452	µg/l	83%	-2.37
R			µg/l		
S	26.9	13.4	µg/l	91%	-1.21
T	29.92	1.61	µg/l	102%	0.25
U	29.6	5.92	µg/l	101%	0.10
V	31.0	3.10	µg/l	105%	0.78
W	29.9	3.89	µg/l	102%	0.24
X	28.4	1.9	µg/l	97%	-0.49
Y	30.7	4.60	µg/l	104%	0.63
Z			µg/l		
AA	27.5	3.58	µg/l	94%	-0.92
AB	30.7		µg/l	104%	0.63
AC	28.6	0.252	µg/l	97%	-0.39
AD	29.38		µg/l	100%	-0.01
AE	30.3	6.1	µg/l	103%	0.44
AF	26.7	4.9	µg/l	91%	-1.31
AG	32.6		µg/l	111%	1.55
AH	27.8	5	µg/l	95%	-0.78
AI	29.5	4.4	µg/l	100%	0.05
AJ	32.7	4.9	µg/l	111%	1.60
AK			µg/l		
AL	25.95	3	µg/l	88%	-1.68
AM			µg/l		
AN	28.6	4.6	µg/l	97%	-0.39
AQ	31.6	3.16	µg/l	107%	1.07
AP			µg/l		
AQ	29.6	20.0	µg/l	101%	0.10
AR	23.47 *	0.1	µg/l	80%	-2.88
AS	29.8	6.0	µg/l	101%	0.19
AT	28.6	2.86	µg/l	97%	-0.39
AU	29.0	3.61	µg/l	99%	-0.19



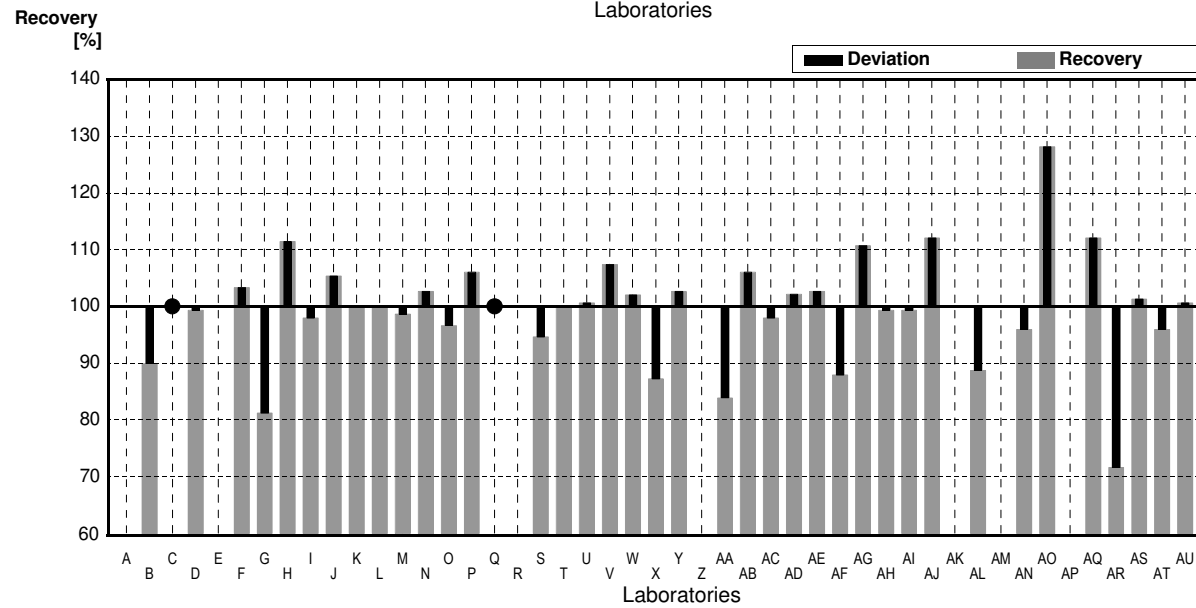
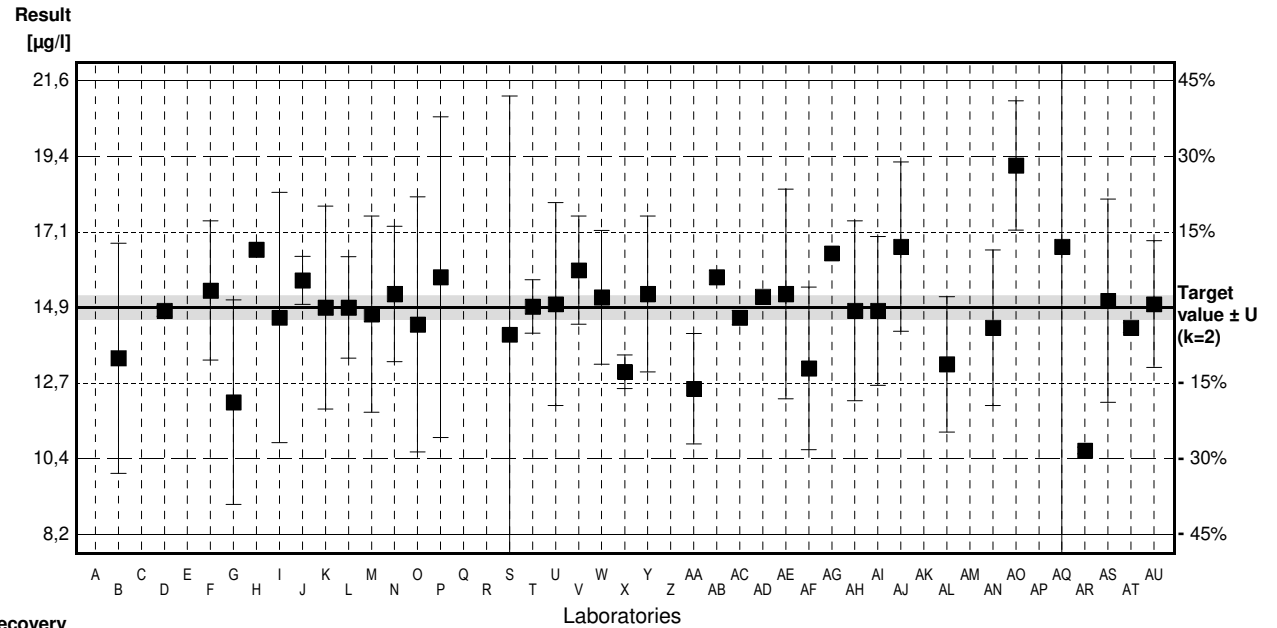
	All results	Outliers excl.	Unit
Mean ± CI(99%)	29,1 ± 0,9	29,4 ± 0,8	µg/l
Recov. ± CI(99%)	99,0 ± 3,0	99,9 ± 2,6	%
SD between labs	2,0	1,7	µg/l
RSD between labs	7,0	5,8	%
n for calculation	40	38	

Sample M169B

Parameter Zinc

Target value ± U (k=2) 14,9 µg/l ± 0,4 µg/l
 IFA result ± U (k=2) 17,4 µg/l ± 2,2 µg/l
 Stability test ± U (k=2) 16,7 µg/l ± 2,1 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	13.4	3.4	µg/l	90%	-1.44
C	<20		µg/l	*	
D	14.80	0.16	µg/l	99%	-0.10
E			µg/l		
F	15.4	2.06	µg/l	103%	0.48
G	12.1 *	3.02	µg/l	81%	-2.68
H	16.61		µg/l	111%	1.64
I	14.6	3.7	µg/l	98%	-0.29
J	15.7	0.709	µg/l	105%	0.77
K	14.9	3.0	µg/l	100%	0.00
L	14.9	1.5	µg/l	100%	0.00
M	14.7	2.9	µg/l	99%	-0.19
N	15.3	2	µg/l	103%	0.38
O	14.4	3.77	µg/l	97%	-0.48
P	15.8	4.74	µg/l	106%	0.86
Q	<15		µg/l	*	
R			µg/l		
S	14.1	7.05	µg/l	95%	-0.77
T	14.93	0.79	µg/l	100%	0.03
U	15.0	3.00	µg/l	101%	0.10
V	16.0	1.60	µg/l	107%	1.05
W	15.2	1.98	µg/l	102%	0.29
X	13.0	0.5	µg/l	87%	-1.82
Y	15.3	2.30	µg/l	103%	0.38
Z			µg/l		
AA	12.5	1.63	µg/l	84%	-2.30
AB	15.8		µg/l	106%	0.86
AC	14.6	0.212	µg/l	98%	-0.29
AD	15.22		µg/l	102%	0.31
AE	15.3	3.1	µg/l	103%	0.38
AF	13.1	2.4	µg/l	88%	-1.73
AG	16.5		µg/l	111%	1.53
AH	14.8	2.66	µg/l	99%	-0.10
AI	14.8	2.2	µg/l	99%	-0.10
AJ	16.7	2.5	µg/l	112%	1.73
AK			µg/l		
AL	13.22	2	µg/l	89%	-1.61
AM			µg/l		
AN	14.3	2.3	µg/l	96%	-0.58
AQ	19.1 *	1.91	µg/l	128%	4.03
AP			µg/l		
AQ	16.7	11.2	µg/l	112%	1.73
AR	10.67 *	0.1	µg/l	72%	-4.06
AS	15.1	3.0	µg/l	101%	0.19
AT	14.3	0.143	µg/l	96%	-0.58
AU	15.0	1.87	µg/l	101%	0.10



	All results	Outliers excl.	Unit
Mean ± CI(99%)	14,8 ± 0,6	14,9 ± 0,5	µg/l
Recov. ± CI(99%)	99,6 ± 4,3	100,1 ± 3,2	%
SD between labs	1,5	1,0	µg/l
RSD between labs	9,9	6,9	%
n for calculation	38	35	

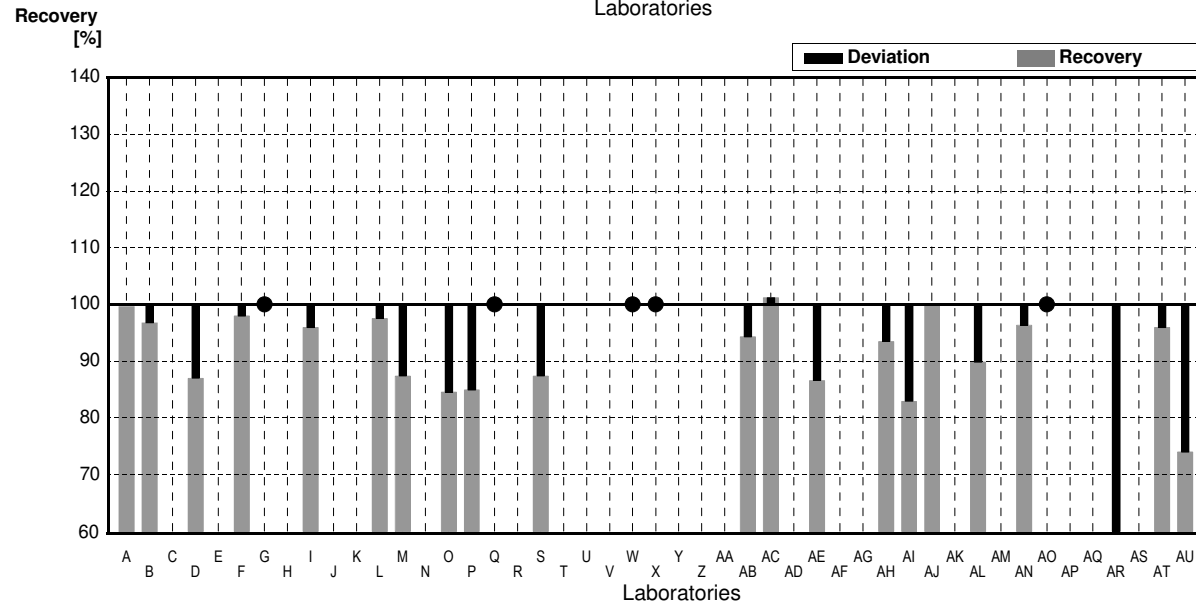
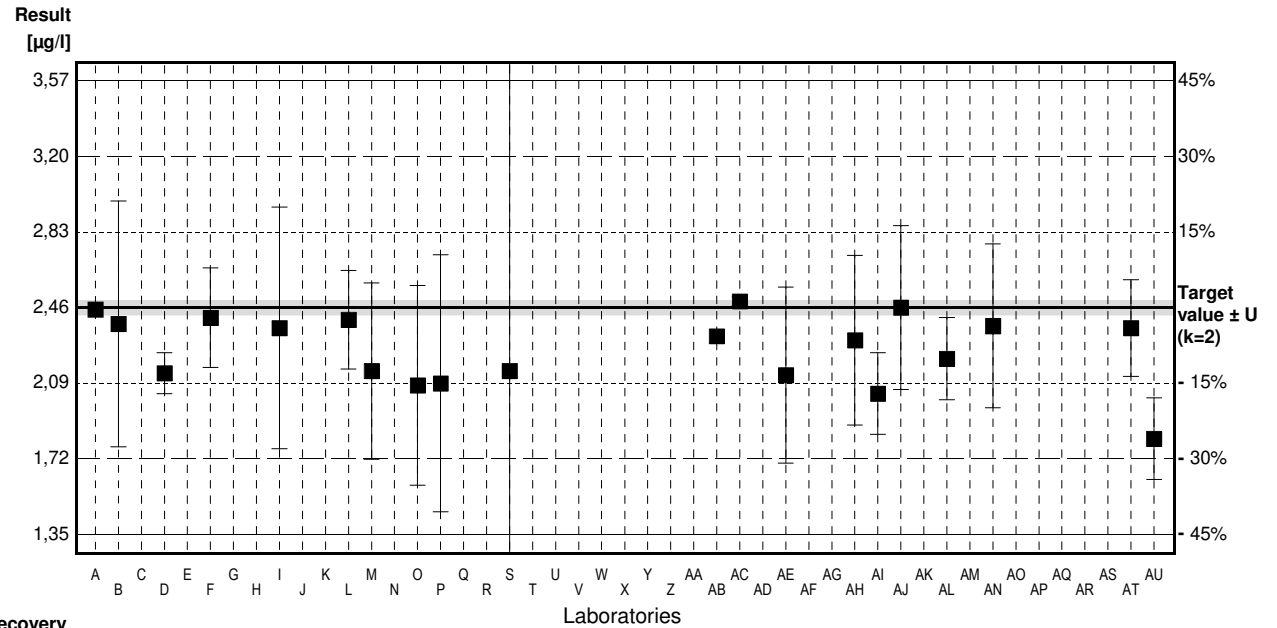
Sample M169A

Parameter Tin

Target value ± U (k=2) 2,46 µg/l ± 0,04 µg/l
 IFA result ± U (k=2) 2,39 µg/l ± 0,12 µg/l
 Stability test ± U (k=2) 2,37 µg/l ± 0,12 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	2.45		µg/l	100%	-0.04
B	2.38	0.60	µg/l	97%	-0.33
C			µg/l		
D	2.14	0.10	µg/l	87%	-1.30
E			µg/l		
F	2.41	0.243	µg/l	98%	-0.20
G	<10		µg/l	*	
H			µg/l		
I	2.36	0.59	µg/l	96%	-0.41
J			µg/l		
K			µg/l		
L	2.40	0.24	µg/l	98%	-0.24
M	2.15	0.43	µg/l	87%	-1.26
N			µg/l		
O	2.08	0.488	µg/l	85%	-1.54
P	2.09	0.627	µg/l	85%	-1.50
Q	<10		µg/l	*	
R			µg/l		
S	2.15	3.34	µg/l	87%	-1.26
T			µg/l		
U			µg/l		
V			µg/l		
W	<5.0		µg/l	*	
X	<5		µg/l	*	
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	2.32		µg/l	94%	-0.57
AC	2.49	0.021	µg/l	101%	0.12
AD			µg/l		
AE	2.13	0.43	µg/l	87%	-1.34
AF			µg/l		
AG			µg/l		
AH	2.30	0.414	µg/l	93%	-0.65
AI	2.04	0.20	µg/l	83%	-1.71
AJ	2.46	0.4	µg/l	100%	0.00
AK			µg/l		
AL	2.21	0.2	µg/l	90%	-1.02
AM			µg/l		
AN	2.37	0.40	µg/l	96%	-0.37
AO	<5.00	0.5	µg/l	*	
AP			µg/l		
AQ			µg/l		
AR			µg/l		
AS	0.91	*	0.1	37%	-6.30
AT	2.36	0.236	µg/l	96%	-0.41
AU	1.82	0.199	µg/l	74%	-2.60

	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,19 ± 0,21	2,26 ± 0,11	µg/l
Recov. ± CI(99%)	89,1 ± 8,6	91,7 ± 4,6	%
SD between labs	0,34	0,18	µg/l
RSD between labs	15,5	7,8	%
n for calculation	21	20	

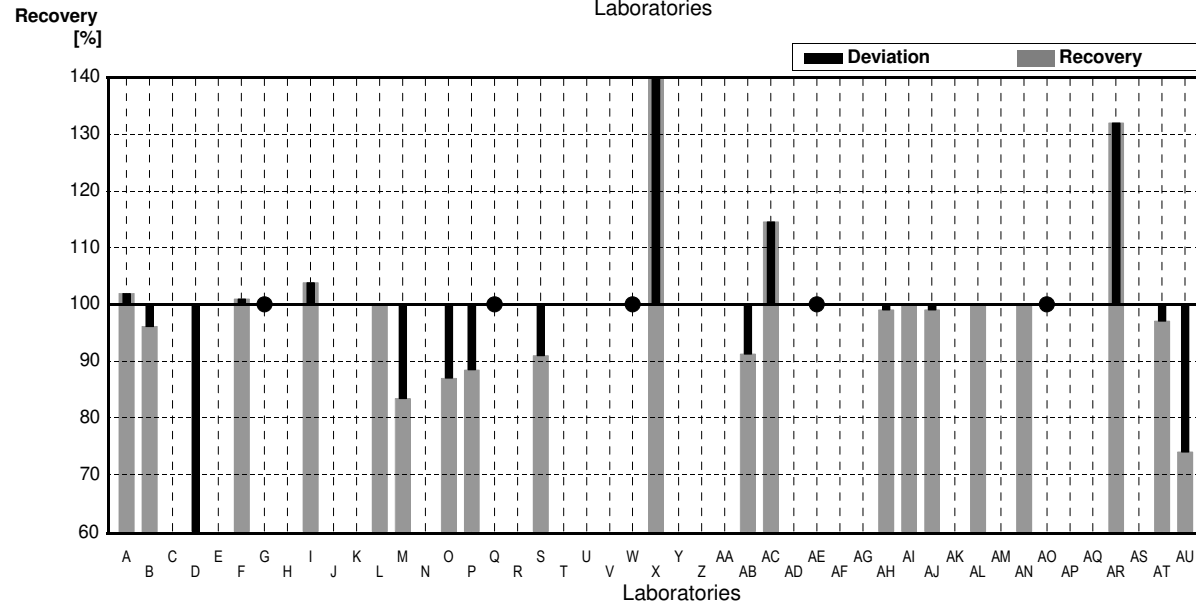
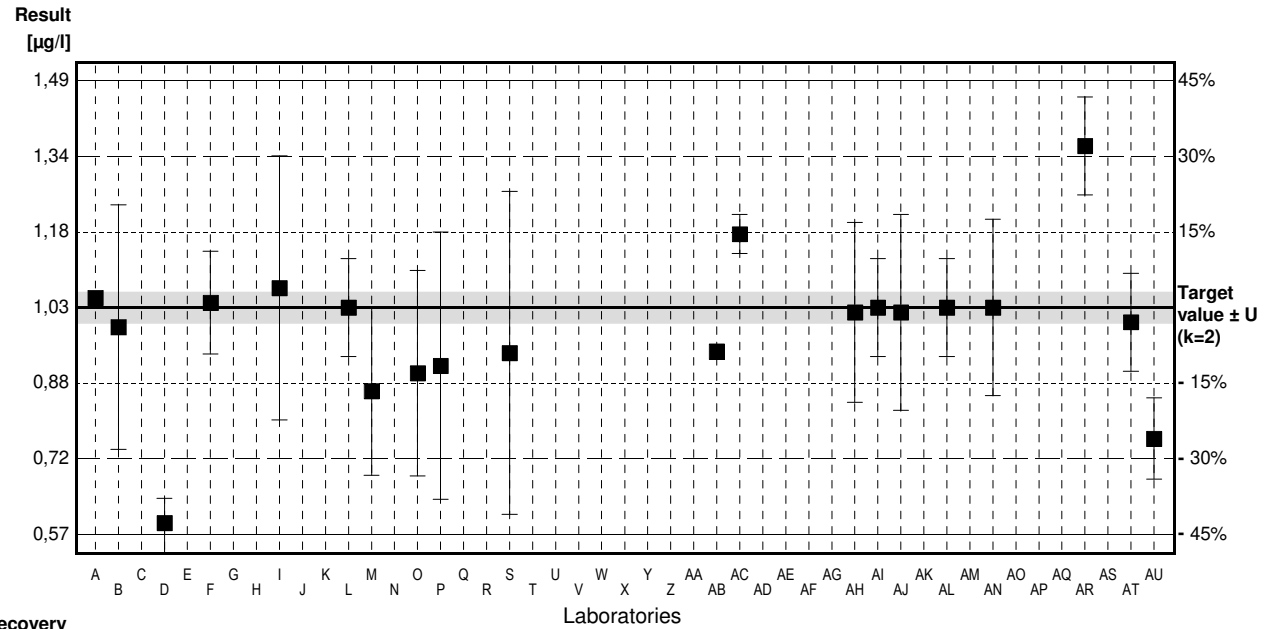


Sample M169B

Parameter Tin

Target value ± U (k=2) 1,03 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 1,00 µg/l ± 0,08 µg/l
 Stability test ± U (k=2) 1,01 µg/l ± 0,08 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	1,05		µg/l	102%	0,19
B	0,99	0,25	µg/l	96%	-0,39
C			µg/l		
D	0,59	*	0,05	57%	-4,27
E			µg/l		
F	1,04	0,105	µg/l	101%	0,10
G	<10		µg/l	*	
H			µg/l		
I	1,07	0,27	µg/l	104%	0,39
J			µg/l		
K			µg/l		
L	1,03	0,10	µg/l	100%	0,00
M	0,859	0,172	µg/l	83%	-1,66
N			µg/l		
O	0,896	0,21	µg/l	87%	-1,30
P	0,911	0,273	µg/l	88%	-1,16
Q	<10		µg/l	*	
R			µg/l		
S	0,937	0,33	µg/l	91%	-0,90
T			µg/l		
U			µg/l		
V			µg/l		
W	<5,0		µg/l	*	
X	5,0	*	µg/l	485%	38,54
Y			µg/l		
Z			µg/l		
AA			µg/l		
AB	0,94		µg/l	91%	-0,87
AC	1,18	0,040	µg/l	115%	1,46
AD			µg/l		
AE	<1		µg/l	FN	
AF			µg/l		
AG			µg/l		
AH	1,02	0,184	µg/l	99%	-0,10
AI	1,03	0,10	µg/l	100%	0,00
AJ	1,02	0,2	µg/l	99%	-0,10
AK			µg/l		
AL	1,03	0,1	µg/l	100%	0,00
AM			µg/l		
AN	1,03	0,18	µg/l	100%	0,00
AO	<5,0	0,5	µg/l	*	
AP			µg/l		
AQ			µg/l		
AR	1,36	*	0,1	132%	3,20
AS			µg/l		
AT	1,00	0,1	µg/l	97%	-0,29
AU	0,762	*	0,083	74%	-2,60



	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,18 ± 0,55	1,00 ± 0,05	µg/l
Recov. ± CI(99%)	114,4 ± 53,6	97,3 ± 5,2	%
SD between labs	0,89	0,08	µg/l
RSD between labs	75,4	7,6	%
n for calculation	21	17	

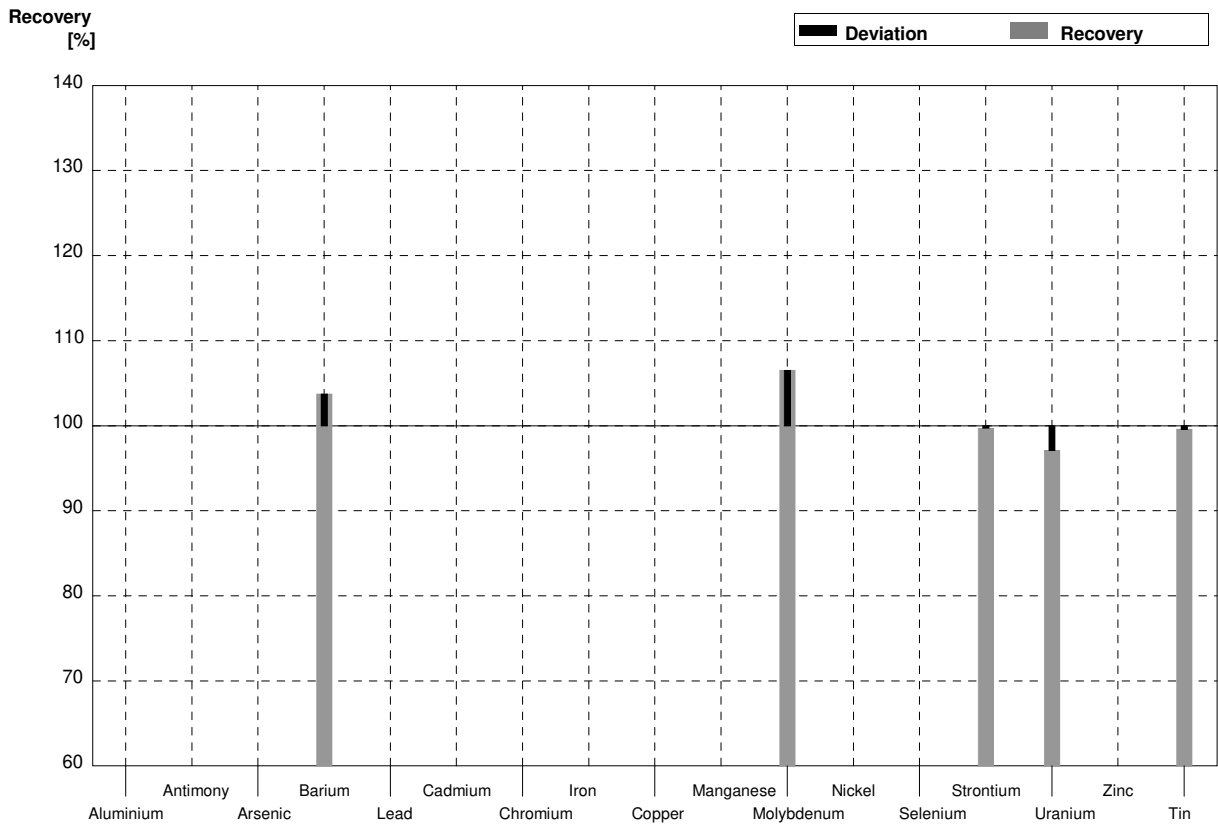
Illustration of Results Laboratory Oriented Part

Round M169
Metals

Sample Dispatch: 6 November 2023

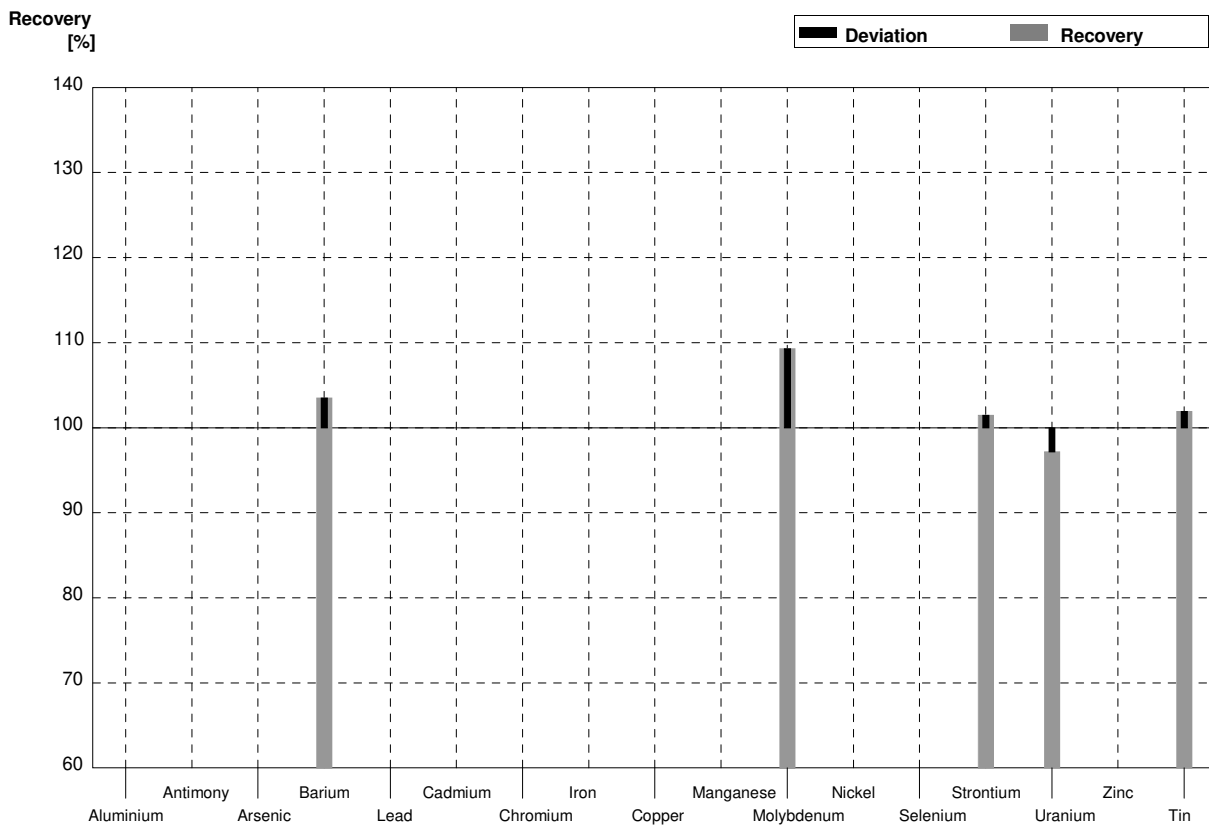
Sample M169A
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12	16,4		µg/l	104%
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2			µg/l	
Copper	3,63	0,04			µg/l	
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23	2,28		µg/l	107%
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6	692,2		µg/l	100%
Uranium	7,65	0,07	7,43		µg/l	97%
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04	2,45		µg/l	100%



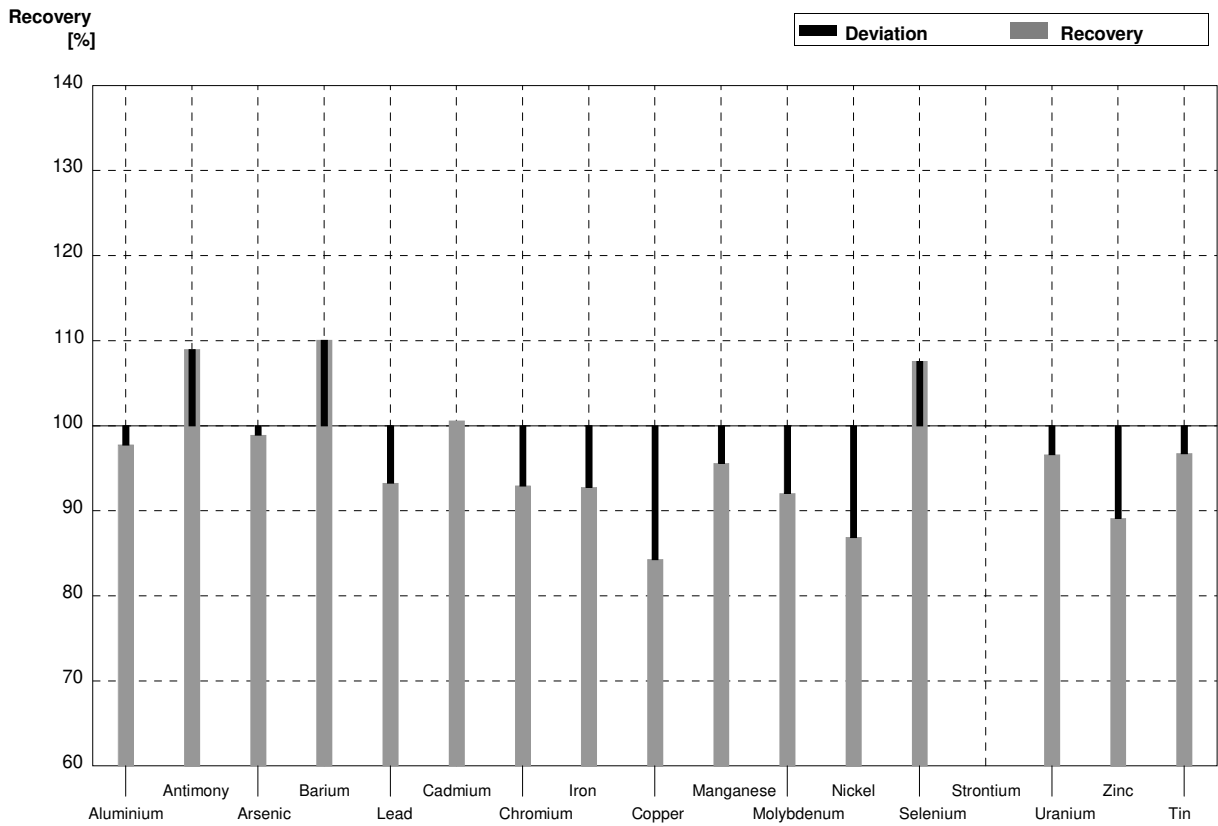
Sample M169B
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17	39,25		µg/l	104%
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3			µg/l	
Copper	8,02	0,06			µg/l	
Manganese	8,9	0,3			µg/l	
Molybdenum	0,86	0,23	0,94		µg/l	109%
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3	365,3		µg/l	101%
Uranium	2,50	0,02	2,43		µg/l	97%
Zinc	14,9	0,4			µg/l	
Tin	1,03	0,03	1,05		µg/l	102%



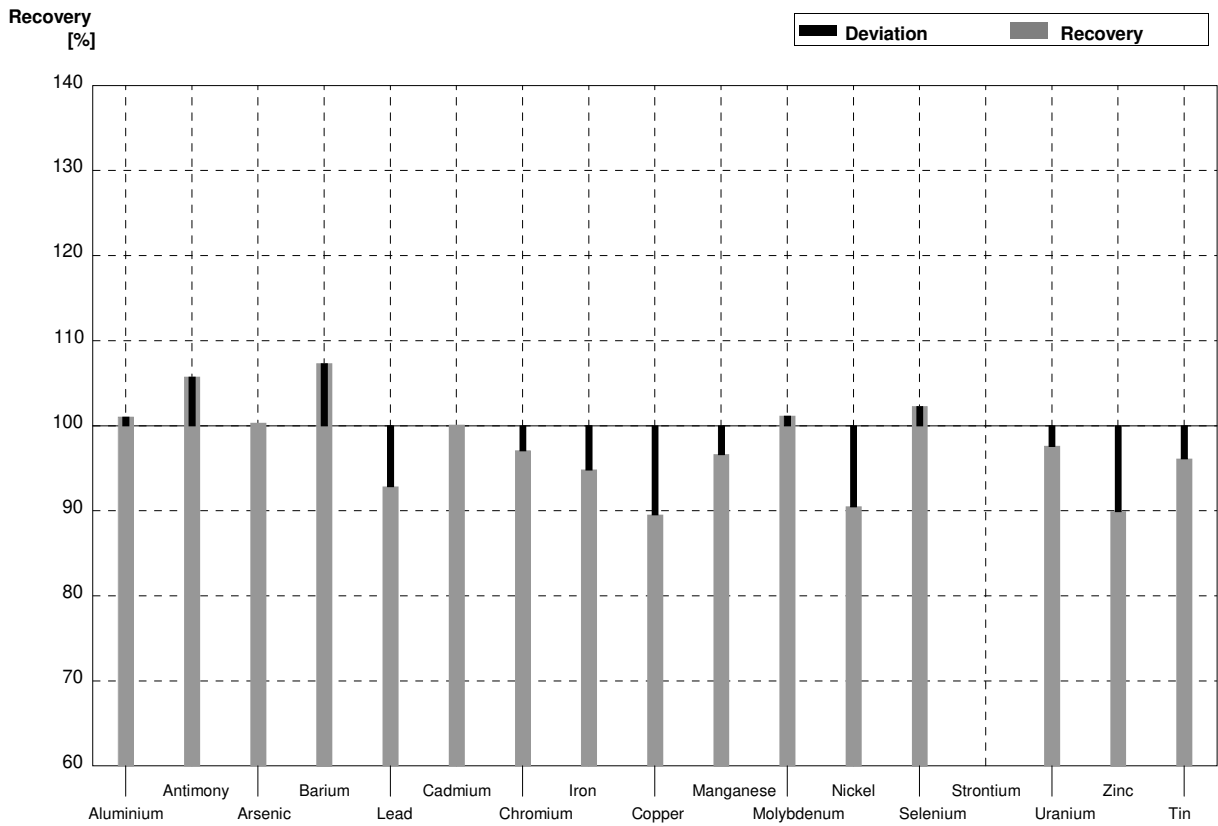
Sample M169A
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,4	4,4	µg/l	98%
Antimony	0,89	0,05	0,97	0,24	µg/l	109%
Arsenic	1,830	0,016	1,81	0,45	µg/l	99%
Barium	15,81	0,12	17,4	4,4	µg/l	110%
Lead	0,579	0,012	0,54	0,14	µg/l	93%
Cadmium	0,517	0,007	0,52	0,13	µg/l	101%
Chromium	5,52	0,05	5,13	1,28	µg/l	93%
Iron	36,0	0,2	33,4	8,4	µg/l	93%
Copper	3,63	0,04	3,06	0,77	µg/l	84%
Manganese	40,9	0,3	39,1	9,8	µg/l	96%
Molybdenum	2,14	0,23	1,97	0,49	µg/l	92%
Nickel	1,60	0,03	1,39	0,35	µg/l	87%
Selenium	0,790	0,018	0,85	0,21	µg/l	108%
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,39	1,85	µg/l	97%
Zinc	29,4	0,6	26,2	6,6	µg/l	89%
Tin	2,46	0,04	2,38	0,60	µg/l	97%



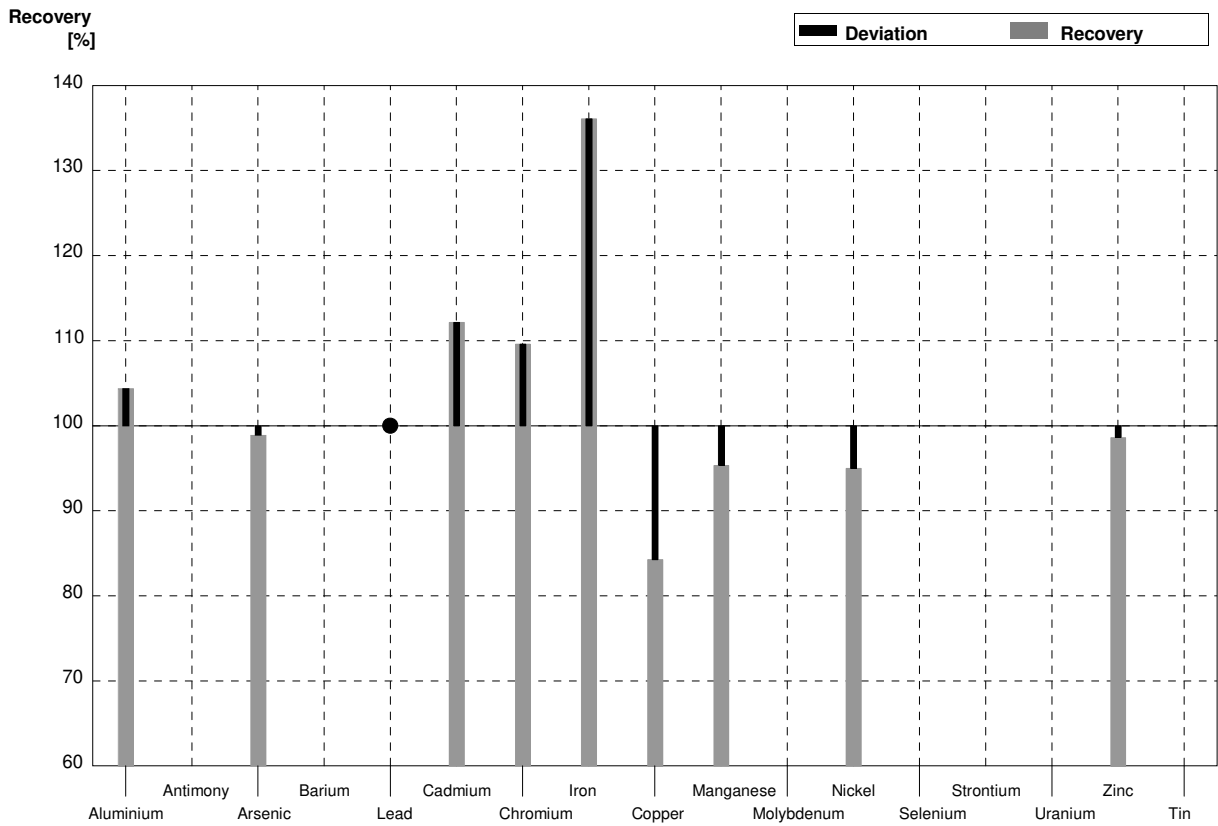
Sample M169B
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,3	9,8	µg/l	101%
Antimony	1,57	0,06	1,66	0,42	µg/l	106%
Arsenic	3,18	0,03	3,19	0,80	µg/l	100%
Barium	37,92	0,17	40,7	10,2	µg/l	107%
Lead	3,91	0,03	3,63	0,91	µg/l	93%
Cadmium	1,169	0,011	1,17	0,29	µg/l	100%
Chromium	0,752	0,010	0,73	0,18	µg/l	97%
Iron	59,8	0,3	56,7	14,2	µg/l	95%
Copper	8,02	0,06	7,18	1,80	µg/l	90%
Manganese	8,9	0,3	8,60	2,15	µg/l	97%
Molybdenum	0,86	0,23	0,87	0,22	µg/l	101%
Nickel	2,84	0,04	2,57	0,64	µg/l	90%
Selenium	2,63	0,03	2,69	0,67	µg/l	102%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,44	0,61	µg/l	98%
Zinc	14,9	0,4	13,4	3,4	µg/l	90%
Tin	1,03	0,03	0,99	0,25	µg/l	96%



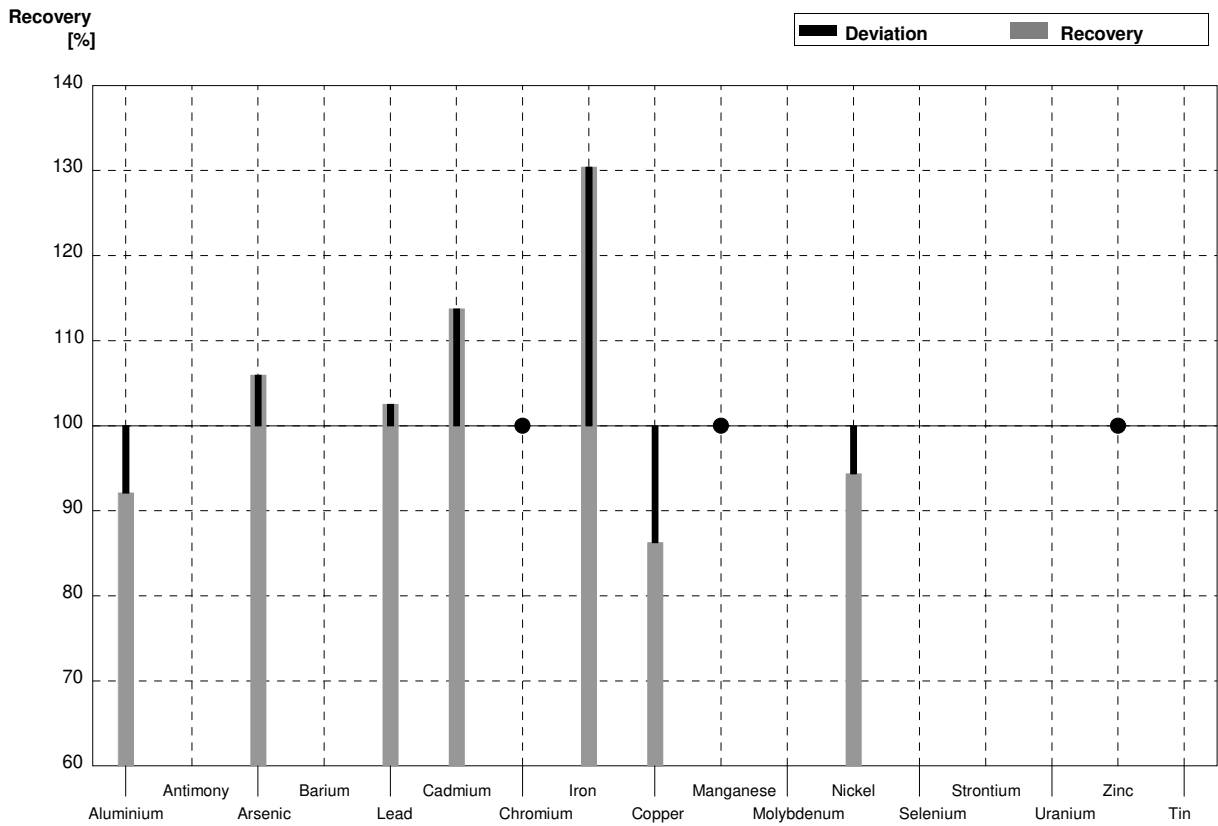
Sample M169A
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,58	5	µg/l	104%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	1,81	1	µg/l	99%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	<1		µg/l	•
Cadmium	0,517	0,007	0,58	1	µg/l	112%
Chromium	5,52	0,05	6,05	1	µg/l	110%
Iron	36,0	0,2	49,0	30	µg/l	136%
Copper	3,63	0,04	3,06	1	µg/l	84%
Manganese	40,9	0,3	39,0	15	µg/l	95%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,52	1	µg/l	95%
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	29,0	10	µg/l	99%
Tin	2,46	0,04			µg/l	



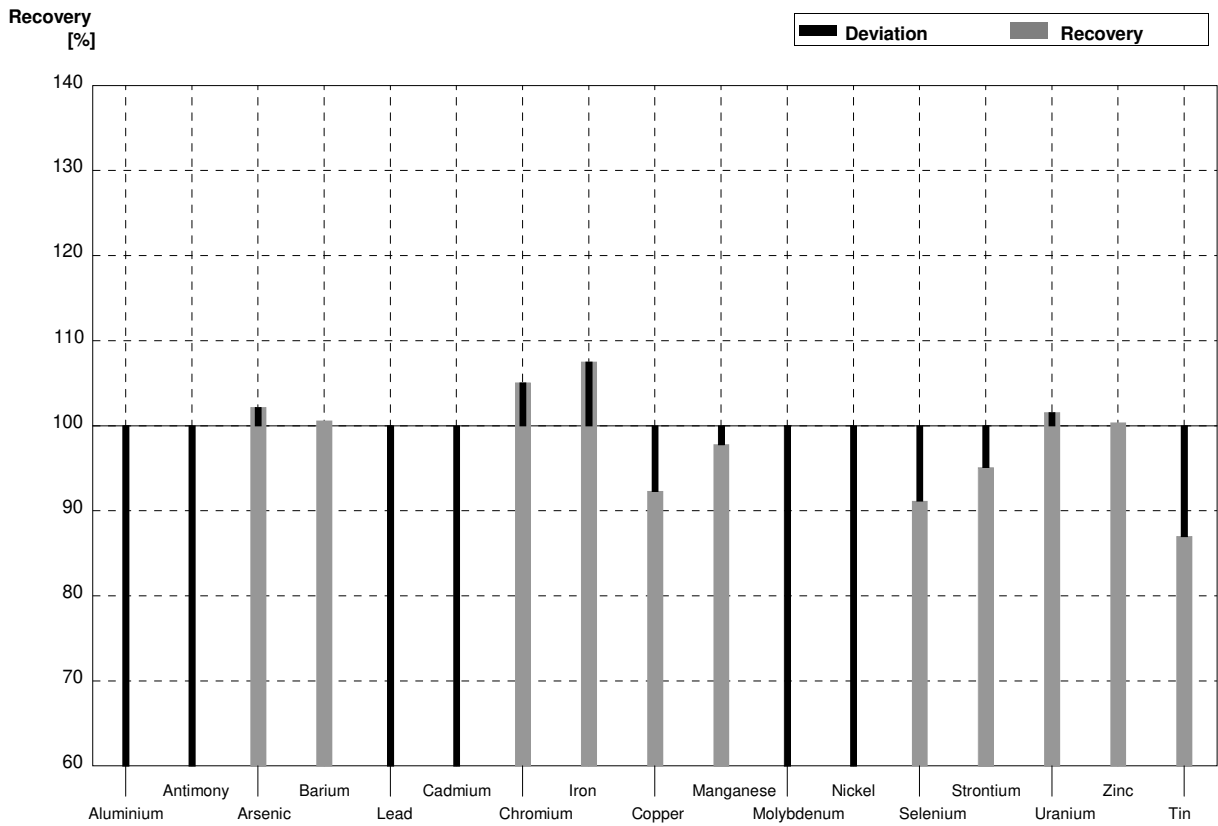
Sample M169B
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	35,83	8	µg/l	92%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,37	1	µg/l	106%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	4,01	1	µg/l	103%
Cadmium	1,169	0,011	1,33	0,15	µg/l	114%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	78	30	µg/l	130%
Copper	8,02	0,06	6,92	1	µg/l	86%
Manganese	8,9	0,3	<20		µg/l	•
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,68	1	µg/l	94%
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	<20		µg/l	•
Tin	1,03	0,03			µg/l	



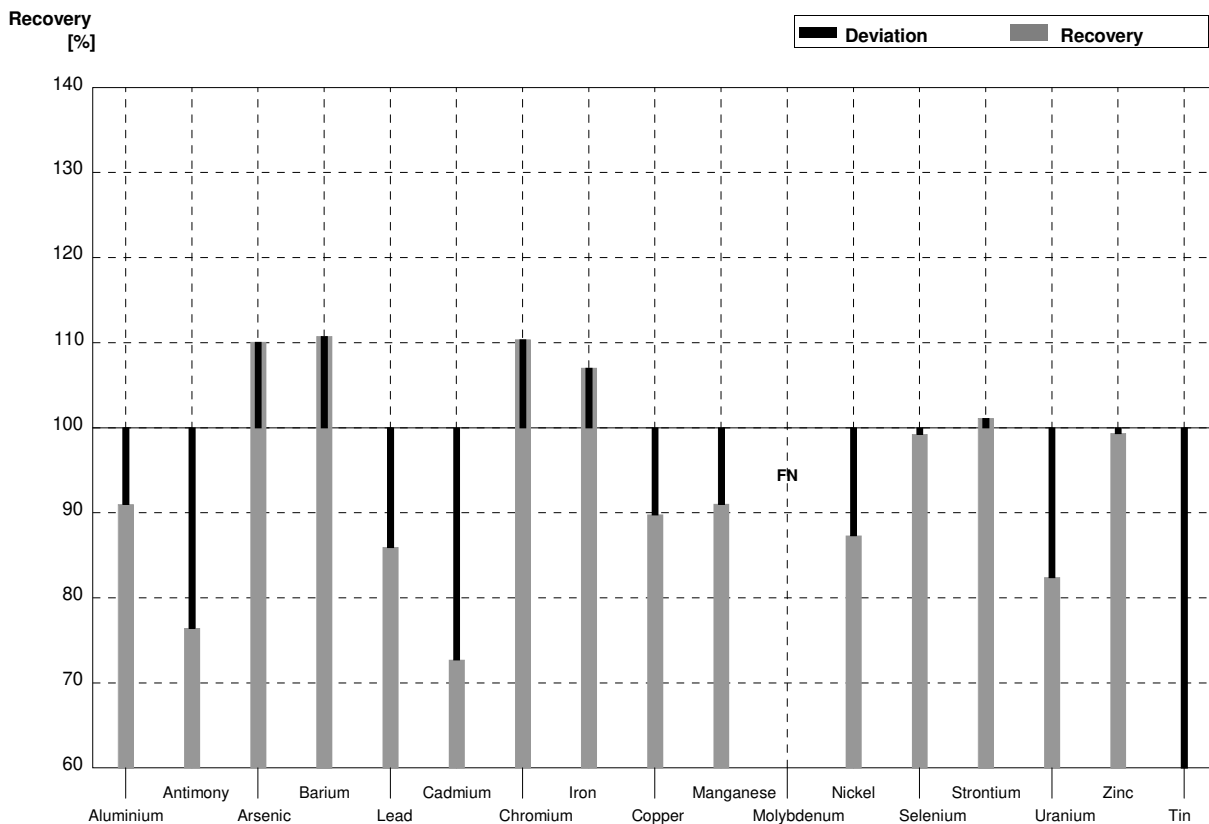
Sample M169A
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	1,71	1,32	µg/l	10%
Antimony	0,89	0,05	0,440	0,050	µg/l	49%
Arsenic	1,830	0,016	1,87	0,050	µg/l	102%
Barium	15,81	0,12	15,9	0,99	µg/l	101%
Lead	0,579	0,012	0,150	0,15	µg/l	26%
Cadmium	0,517	0,007	0,100	0,05	µg/l	19%
Chromium	5,52	0,05	5,8	0,090	µg/l	105%
Iron	36,0	0,2	38,7	0,29	µg/l	108%
Copper	3,63	0,04	3,35	0,15	µg/l	92%
Manganese	40,9	0,3	40,0	1,83	µg/l	98%
Molybdenum	2,14	0,23	1,12	0,05	µg/l	52%
Nickel	1,60	0,03	0,60	0,05	µg/l	38%
Selenium	0,790	0,018	0,72	0,05	µg/l	91%
Strontium	694	6	660	38,57	µg/l	95%
Uranium	7,65	0,07	7,77	0,62	µg/l	102%
Zinc	29,4	0,6	29,5	1,28	µg/l	100%
Tin	2,46	0,04	2,14	0,10	µg/l	87%



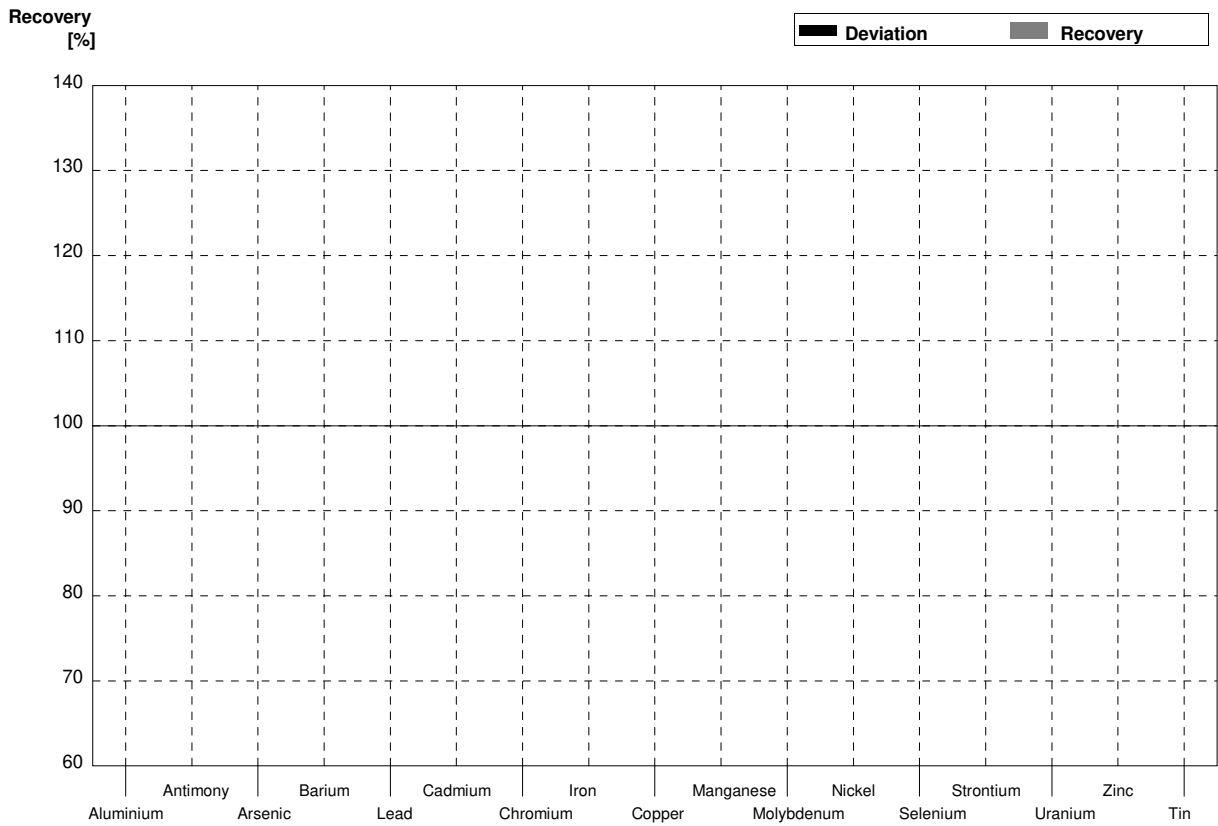
Sample M169B
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	35,40	2,21	µg/l	91%
Antimony	1,57	0,06	1,20	0,08	µg/l	76%
Arsenic	3,18	0,03	3,50	0,05	µg/l	110%
Barium	37,92	0,17	42,0	2,68	µg/l	111%
Lead	3,91	0,03	3,36	0,23	µg/l	86%
Cadmium	1,169	0,011	0,85	0,08	µg/l	73%
Chromium	0,752	0,010	0,83	0,05	µg/l	110%
Iron	59,8	0,3	64,00	1,15	µg/l	107%
Copper	8,02	0,06	7,20	0,28	µg/l	90%
Manganese	8,9	0,3	8,10	0,41	µg/l	91%
Molybdenum	0,86	0,23	<0,1	0,05	µg/l	FN
Nickel	2,84	0,04	2,48	0,13	µg/l	87%
Selenium	2,63	0,03	2,61	0,05	µg/l	99%
Strontium	360	3	364	20,27	µg/l	101%
Uranium	2,50	0,02	2,06	0,16	µg/l	82%
Zinc	14,9	0,4	14,80	0,16	µg/l	99%
Tin	1,03	0,03	0,59	0,05	µg/l	57%



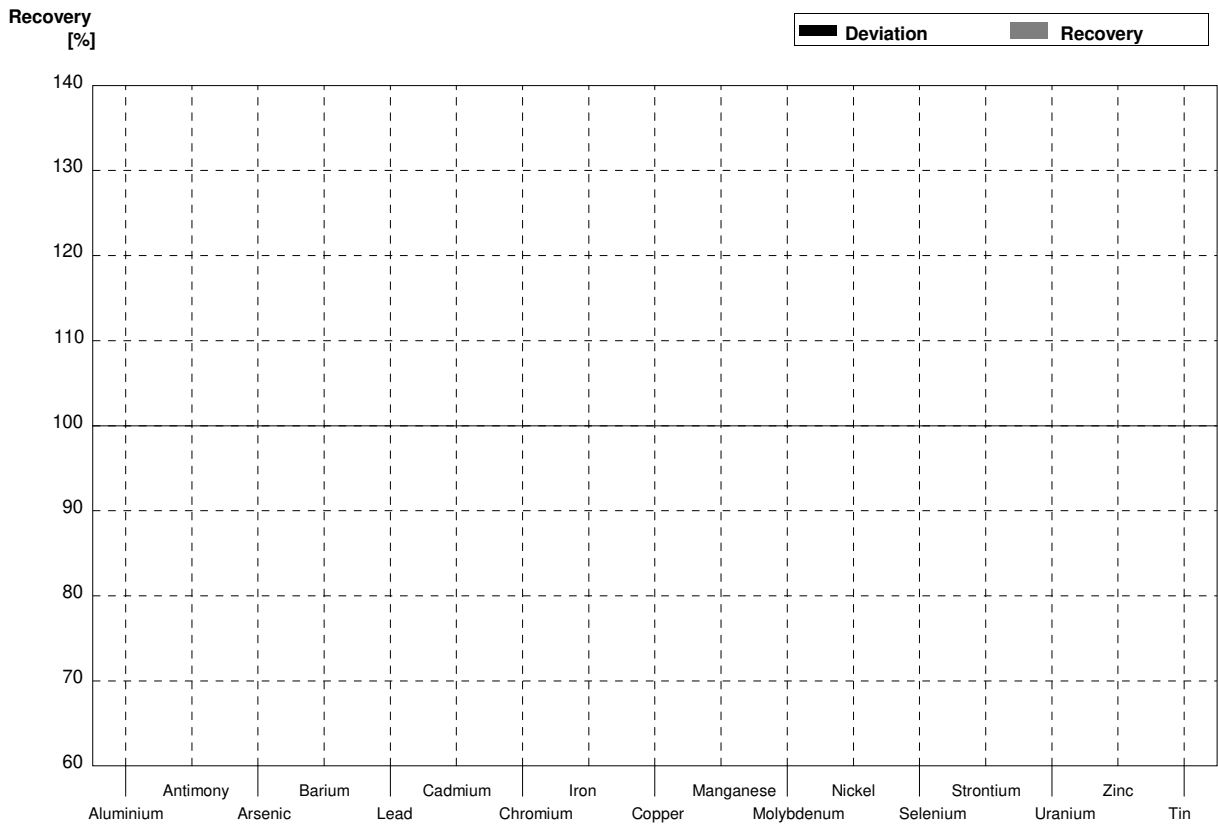
Sample M169A
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2			µg/l	
Copper	3,63	0,04			µg/l	
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04			µg/l	



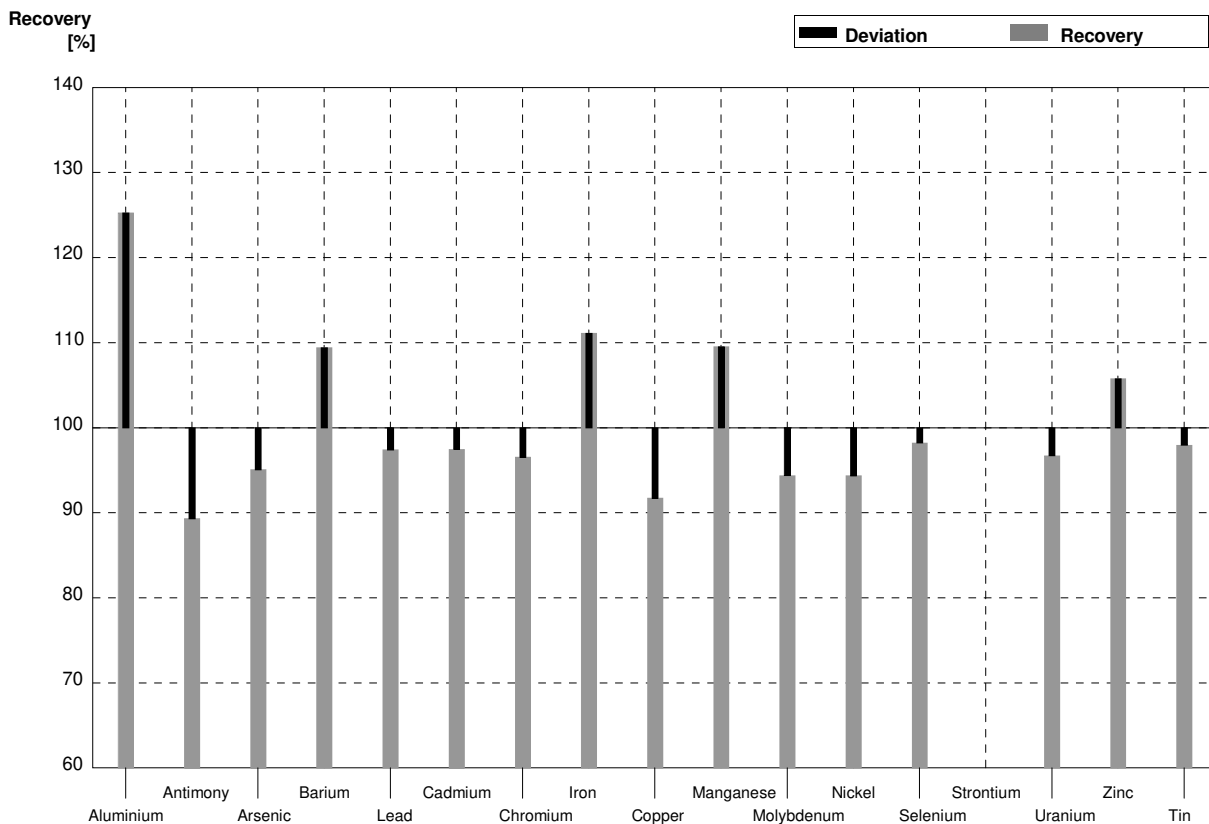
Sample M169B
Laboratory E

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Aluminium	38,9	0,8			$\mu\text{g/l}$	
Antimony	1,57	0,06			$\mu\text{g/l}$	
Arsenic	3,18	0,03			$\mu\text{g/l}$	
Barium	37,92	0,17			$\mu\text{g/l}$	
Lead	3,91	0,03			$\mu\text{g/l}$	
Cadmium	1,169	0,011			$\mu\text{g/l}$	
Chromium	0,752	0,010			$\mu\text{g/l}$	
Iron	59,8	0,3			$\mu\text{g/l}$	
Copper	8,02	0,06			$\mu\text{g/l}$	
Manganese	8,9	0,3			$\mu\text{g/l}$	
Molybdenum	0,86	0,23			$\mu\text{g/l}$	
Nickel	2,84	0,04			$\mu\text{g/l}$	
Selenium	2,63	0,03			$\mu\text{g/l}$	
Strontium	360	3			$\mu\text{g/l}$	
Uranium	2,50	0,02			$\mu\text{g/l}$	
Zinc	14,9	0,4			$\mu\text{g/l}$	
Tin	1,03	0,03			$\mu\text{g/l}$	



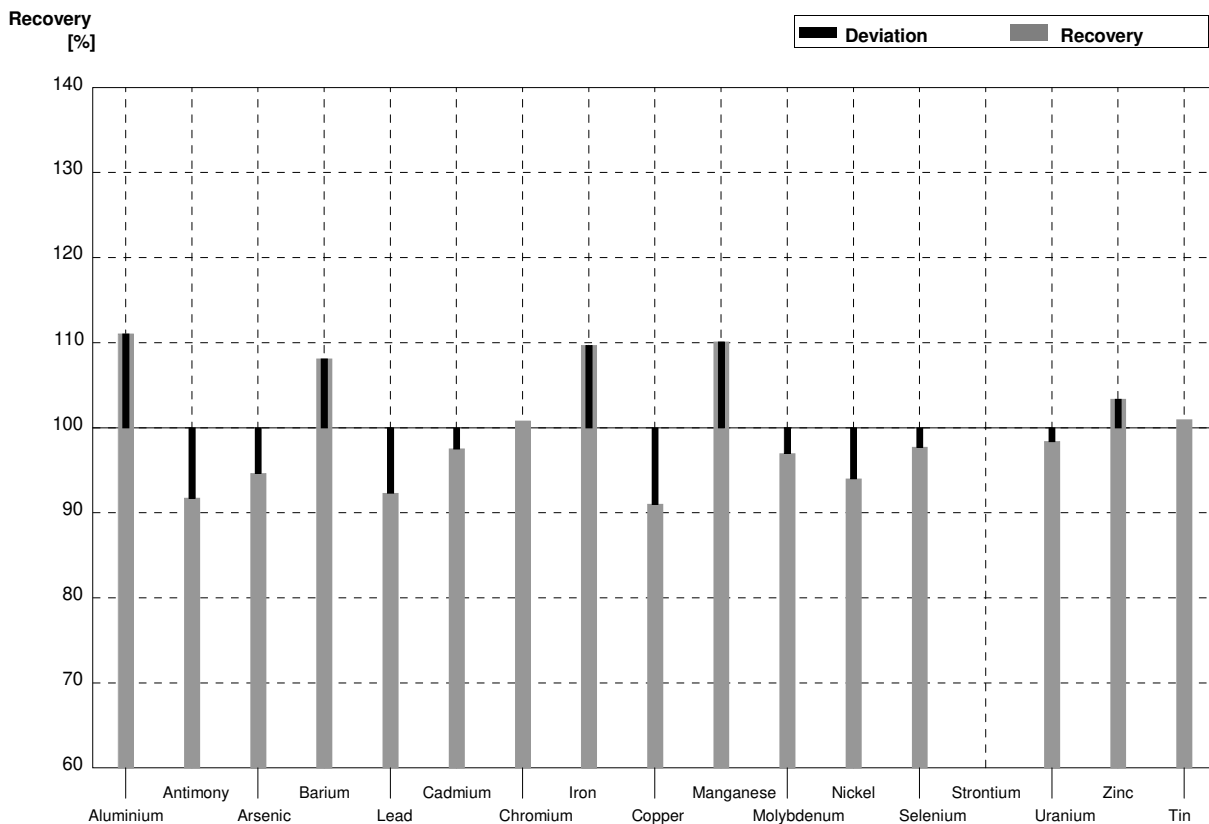
Sample M169A
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	22,3	1,65	µg/l	125%
Antimony	0,89	0,05	0,795	0,099	µg/l	89%
Arsenic	1,830	0,016	1,74	0,231	µg/l	95%
Barium	15,81	0,12	17,3	2,11	µg/l	109%
Lead	0,579	0,012	0,564	0,127	µg/l	97%
Cadmium	0,517	0,007	0,504	0,065	µg/l	97%
Chromium	5,52	0,05	5,33	0,682	µg/l	97%
Iron	36,0	0,2	40,0	12,0	µg/l	111%
Copper	3,63	0,04	3,33	0,596	µg/l	92%
Manganese	40,9	0,3	44,8	11,5	µg/l	110%
Molybdenum	2,14	0,23	2,02	0,232	µg/l	94%
Nickel	1,60	0,03	1,51	0,270	µg/l	94%
Selenium	0,790	0,018	0,776	0,083	µg/l	98%
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,40	1,27	µg/l	97%
Zinc	29,4	0,6	31,1	4,17	µg/l	106%
Tin	2,46	0,04	2,41	0,243	µg/l	98%



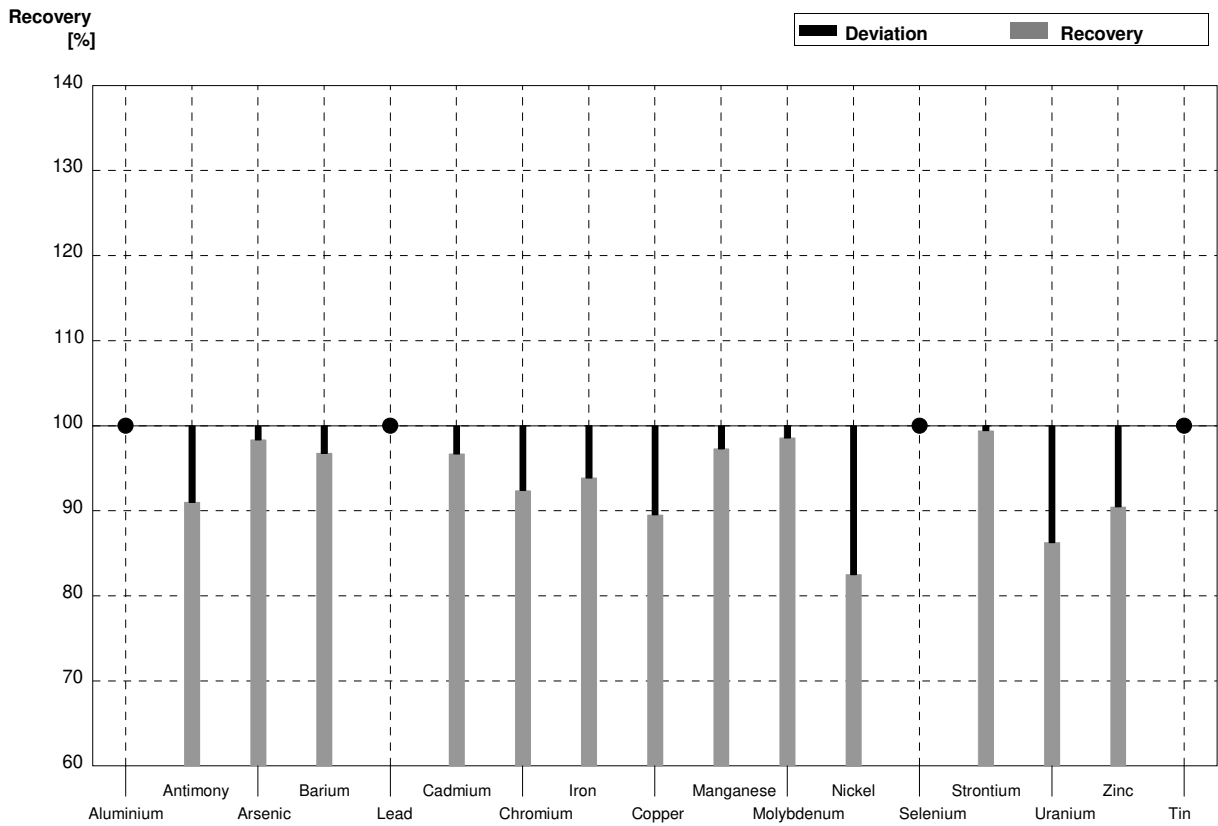
Sample M169B
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	43,2	3,2	µg/l	111%
Antimony	1,57	0,06	1,44	0,179	µg/l	92%
Arsenic	3,18	0,03	3,01	0,400	µg/l	95%
Barium	37,92	0,17	41,0	5,00	µg/l	108%
Lead	3,91	0,03	3,61	0,812	µg/l	92%
Cadmium	1,169	0,011	1,14	0,146	µg/l	98%
Chromium	0,752	0,010	0,758	0,097	µg/l	101%
Iron	59,8	0,3	65,6	19,7	µg/l	110%
Copper	8,02	0,06	7,30	1,31	µg/l	91%
Manganese	8,9	0,3	9,80	2,50	µg/l	110%
Molybdenum	0,86	0,23	0,834	0,096	µg/l	97%
Nickel	2,84	0,04	2,67	0,478	µg/l	94%
Selenium	2,63	0,03	2,57	0,275	µg/l	98%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,46	0,423	µg/l	98%
Zinc	14,9	0,4	15,4	2,06	µg/l	103%
Tin	1,03	0,03	1,04	0,105	µg/l	101%



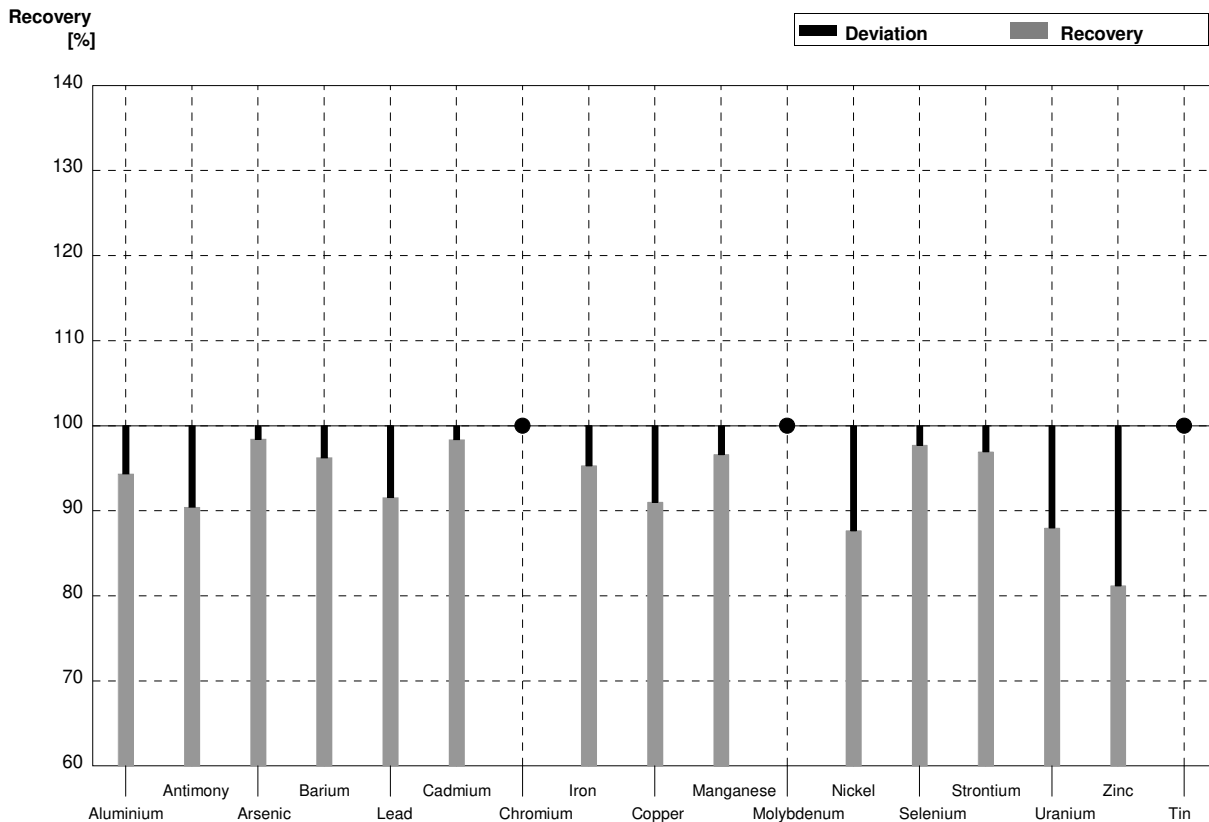
Sample M169A
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	<20		µg/l	•
Antimony	0,89	0,05	0,81	0,097	µg/l	91%
Arsenic	1,830	0,016	1,80	0,090	µg/l	98%
Barium	15,81	0,12	15,3	2,29	µg/l	97%
Lead	0,579	0,012	<0,6		µg/l	•
Cadmium	0,517	0,007	0,50	0,0429	µg/l	97%
Chromium	5,52	0,05	5,1	0,51	µg/l	92%
Iron	36,0	0,2	33,8	4,74	µg/l	94%
Copper	3,63	0,04	3,25	0,91	µg/l	90%
Manganese	40,9	0,3	39,8	2,98	µg/l	97%
Molybdenum	2,14	0,23	2,11	0,211	µg/l	99%
Nickel	1,60	0,03	1,32	0,106	µg/l	83%
Selenium	0,790	0,018	<1		µg/l	•
Strontium	694	6	690	110	µg/l	99%
Uranium	7,65	0,07	6,6	0,80	µg/l	86%
Zinc	29,4	0,6	26,6	6,6	µg/l	90%
Tin	2,46	0,04	<10		µg/l	•



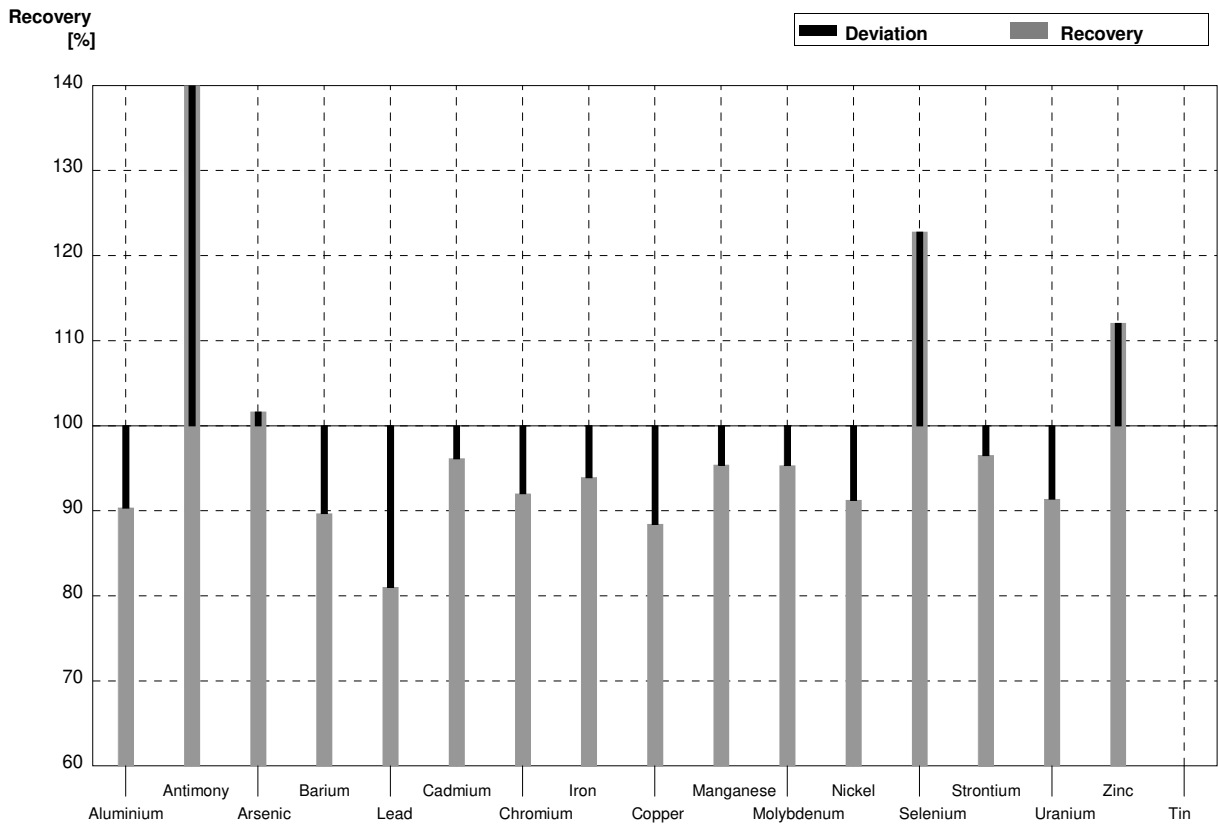
Sample M169B
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,7	3,30	µg/l	94%
Antimony	1,57	0,06	1,42	0,170	µg/l	90%
Arsenic	3,18	0,03	3,13	0,157	µg/l	98%
Barium	37,92	0,17	36,5	5,4	µg/l	96%
Lead	3,91	0,03	3,58	0,82	µg/l	92%
Cadmium	1,169	0,011	1,15	0,097	µg/l	98%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	57	7,9	µg/l	95%
Copper	8,02	0,06	7,3	2,05	µg/l	91%
Manganese	8,9	0,3	8,6	0,65	µg/l	97%
Molybdenum	0,86	0,23	<1		µg/l	•
Nickel	2,84	0,04	2,49	0,199	µg/l	88%
Selenium	2,63	0,03	2,57	0,333	µg/l	98%
Strontium	360	3	349	56	µg/l	97%
Uranium	2,50	0,02	2,20	0,264	µg/l	88%
Zinc	14,9	0,4	12,1	3,02	µg/l	81%
Tin	1,03	0,03	<10		µg/l	•



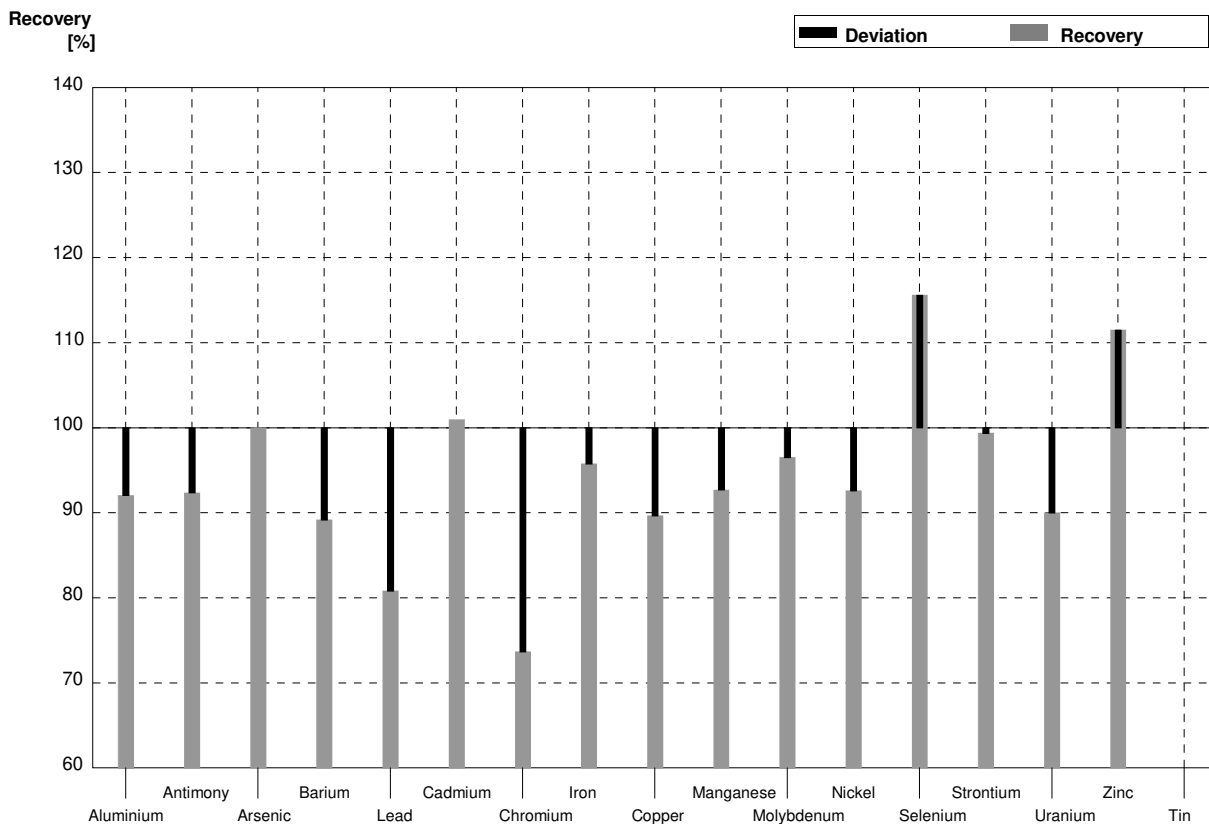
Sample M169A
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,08		µg/l	90%
Antimony	0,89	0,05	8,73		µg/l	981%
Arsenic	1,830	0,016	1,86		µg/l	102%
Barium	15,81	0,12	14,18		µg/l	90%
Lead	0,579	0,012	0,469		µg/l	81%
Cadmium	0,517	0,007	0,497		µg/l	96%
Chromium	5,52	0,05	5,08		µg/l	92%
Iron	36,0	0,2	33,81		µg/l	94%
Copper	3,63	0,04	3,21		µg/l	88%
Manganese	40,9	0,3	39,01		µg/l	95%
Molybdenum	2,14	0,23	2,04		µg/l	95%
Nickel	1,60	0,03	1,46		µg/l	91%
Selenium	0,790	0,018	0,97		µg/l	123%
Strontium	694	6	669,89		µg/l	97%
Uranium	7,65	0,07	6,99		µg/l	91%
Zinc	29,4	0,6	32,95		µg/l	112%
Tin	2,46	0,04			µg/l	



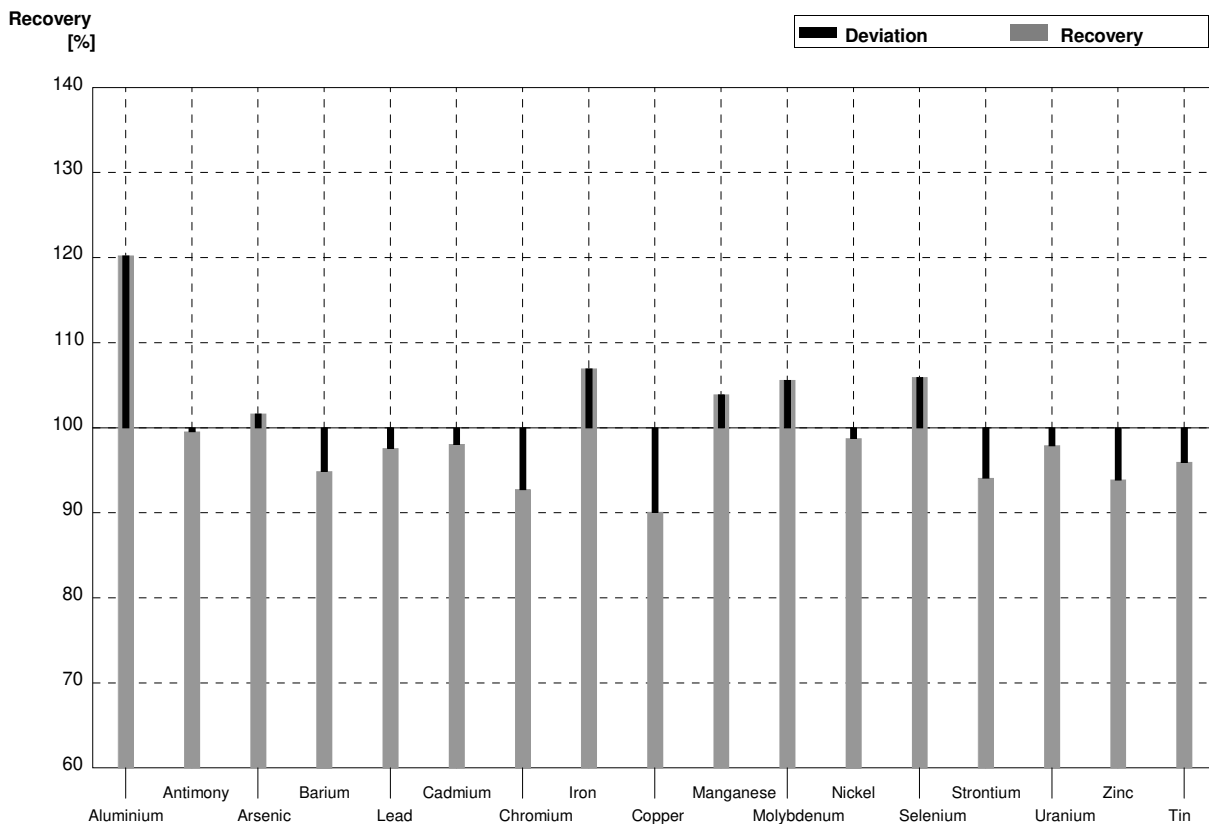
Sample M169B
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	35,81		µg/l	92%
Antimony	1,57	0,06	1,45		µg/l	92%
Arsenic	3,18	0,03	3,18		µg/l	100%
Barium	37,92	0,17	33,81		µg/l	89%
Lead	3,91	0,03	3,16		µg/l	81%
Cadmium	1,169	0,011	1,18		µg/l	101%
Chromium	0,752	0,010	0,554		µg/l	74%
Iron	59,8	0,3	57,26		µg/l	96%
Copper	8,02	0,06	7,19		µg/l	90%
Manganese	8,9	0,3	8,25		µg/l	93%
Molybdenum	0,86	0,23	0,83		µg/l	97%
Nickel	2,84	0,04	2,63		µg/l	93%
Selenium	2,63	0,03	3,04		µg/l	116%
Strontium	360	3	357,73		µg/l	99%
Uranium	2,50	0,02	2,25		µg/l	90%
Zinc	14,9	0,4	16,61		µg/l	111%
Tin	1,03	0,03			µg/l	



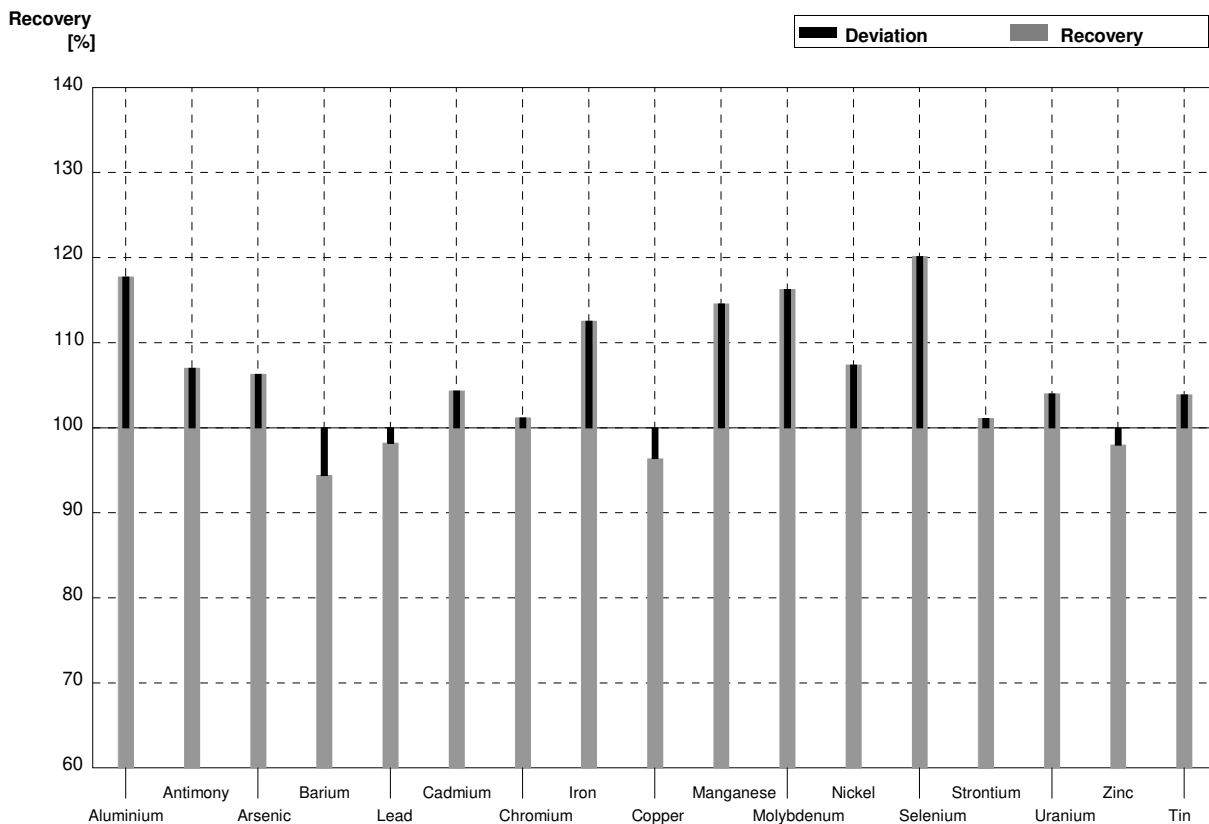
Sample M169A
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	21,4	5,4	µg/l	120%
Antimony	0,89	0,05	0,886	0,222	µg/l	100%
Arsenic	1,830	0,016	1,86	0,47	µg/l	102%
Barium	15,81	0,12	15,0	3,8	µg/l	95%
Lead	0,579	0,012	0,565	0,141	µg/l	98%
Cadmium	0,517	0,007	0,507	0,127	µg/l	98%
Chromium	5,52	0,05	5,12	1,28	µg/l	93%
Iron	36,0	0,2	38,5	9,6	µg/l	107%
Copper	3,63	0,04	3,27	0,82	µg/l	90%
Manganese	40,9	0,3	42,5	10,6	µg/l	104%
Molybdenum	2,14	0,23	2,26	0,57	µg/l	106%
Nickel	1,60	0,03	1,58	0,40	µg/l	99%
Selenium	0,790	0,018	0,837	0,209	µg/l	106%
Strontium	694	6	653	163	µg/l	94%
Uranium	7,65	0,07	7,49	1,87	µg/l	98%
Zinc	29,4	0,6	27,6	6,9	µg/l	94%
Tin	2,46	0,04	2,36	0,59	µg/l	96%



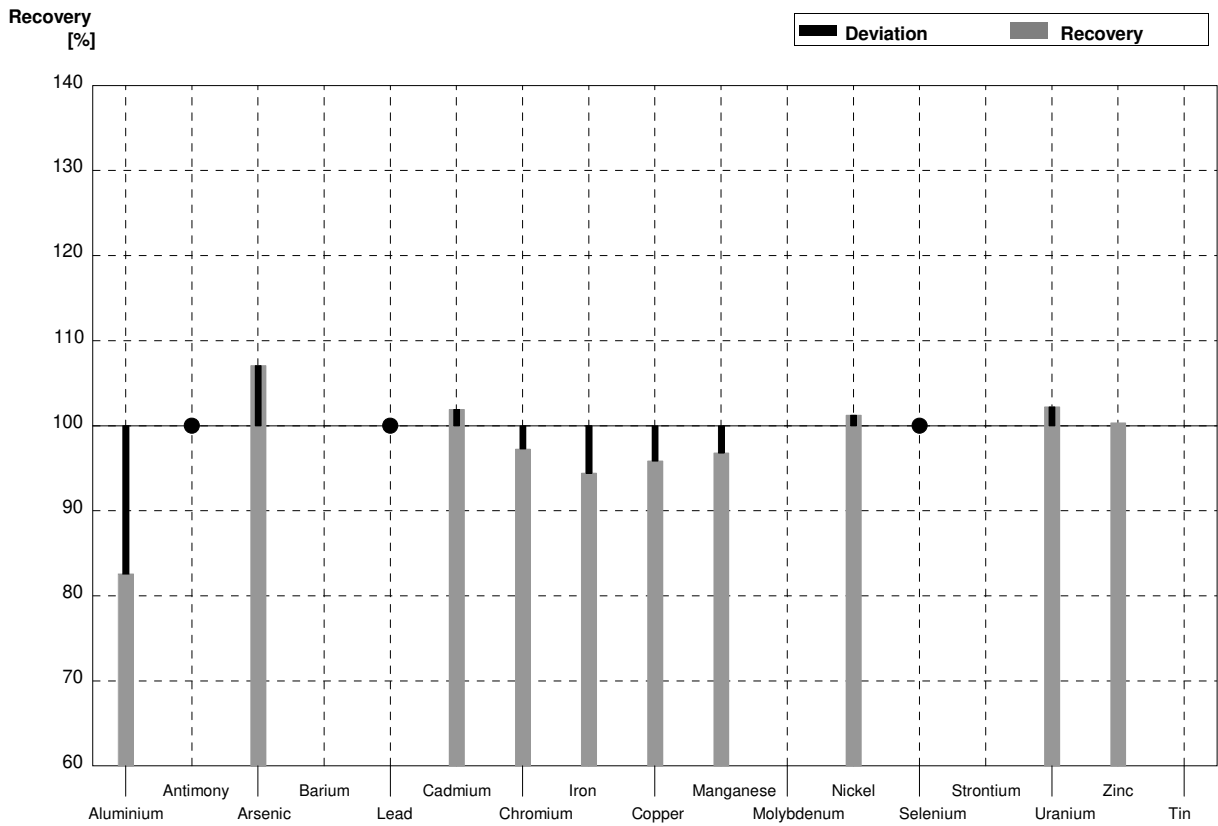
Sample M169B
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	45,8	11,5	µg/l	118%
Antimony	1,57	0,06	1,68	0,42	µg/l	107%
Arsenic	3,18	0,03	3,38	0,85	µg/l	106%
Barium	37,92	0,17	35,8	9,0	µg/l	94%
Lead	3,91	0,03	3,84	0,96	µg/l	98%
Cadmium	1,169	0,011	1,22	0,31	µg/l	104%
Chromium	0,752	0,010	0,761	0,190	µg/l	101%
Iron	59,8	0,3	67,3	16,8	µg/l	113%
Copper	8,02	0,06	7,73	1,93	µg/l	96%
Manganese	8,9	0,3	10,2	2,6	µg/l	115%
Molybdenum	0,86	0,23	1,00	0,25	µg/l	116%
Nickel	2,84	0,04	3,05	0,76	µg/l	107%
Selenium	2,63	0,03	3,16	0,79	µg/l	120%
Strontium	360	3	364	91	µg/l	101%
Uranium	2,50	0,02	2,60	0,65	µg/l	104%
Zinc	14,9	0,4	14,6	3,7	µg/l	98%
Tin	1,03	0,03	1,07	0,27	µg/l	104%



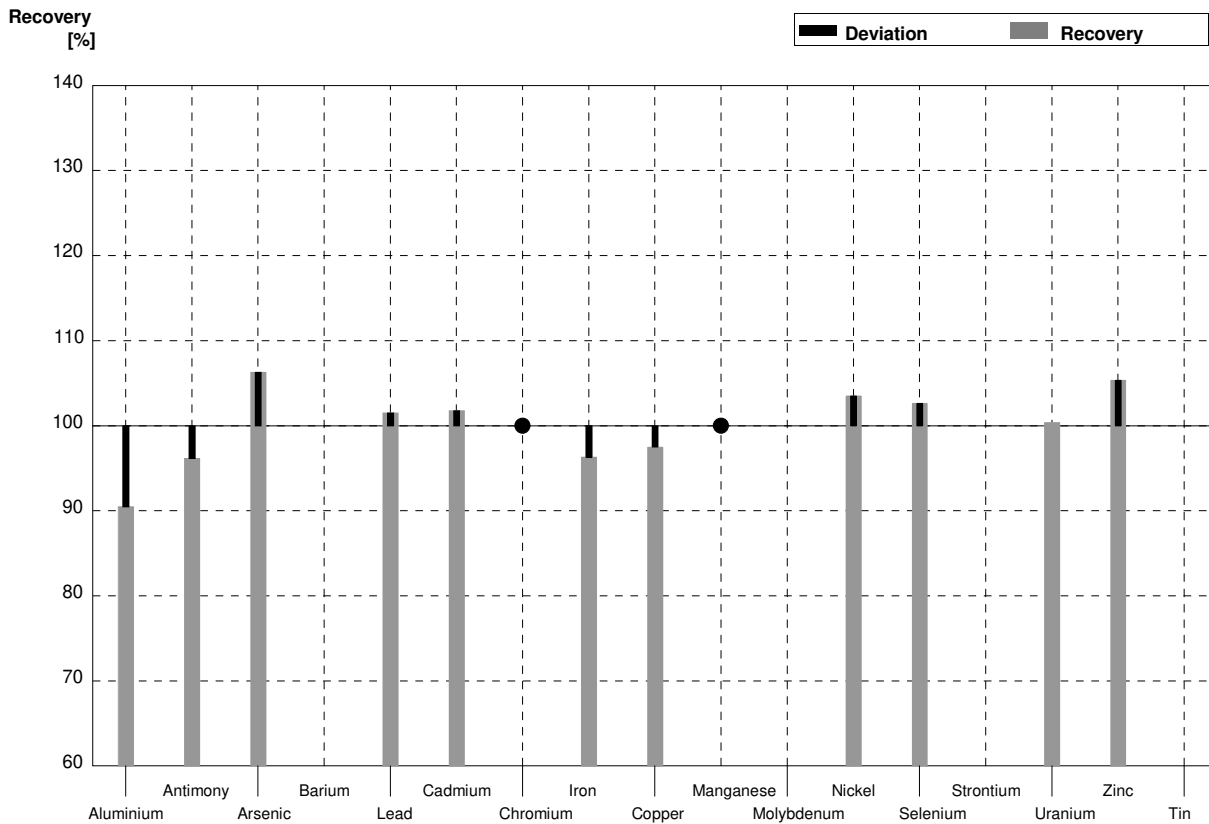
Sample M169A
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	14,7	0,480	µg/l	83%
Antimony	0,89	0,05	<1,00		µg/l	•
Arsenic	1,830	0,016	1,96	0,0354	µg/l	107%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	<1,00		µg/l	•
Cadmium	0,517	0,007	0,527	0,00317	µg/l	102%
Chromium	5,52	0,05	5,37	0,124	µg/l	97%
Iron	36,0	0,2	34,0	0,675	µg/l	94%
Copper	3,63	0,04	3,48	0,0721	µg/l	96%
Manganese	40,9	0,3	39,6	0,742	µg/l	97%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,62	0,0496	µg/l	101%
Selenium	0,790	0,018	<1,00		µg/l	•
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,82	0,0794	µg/l	102%
Zinc	29,4	0,6	29,5	0,673	µg/l	100%
Tin	2,46	0,04			µg/l	



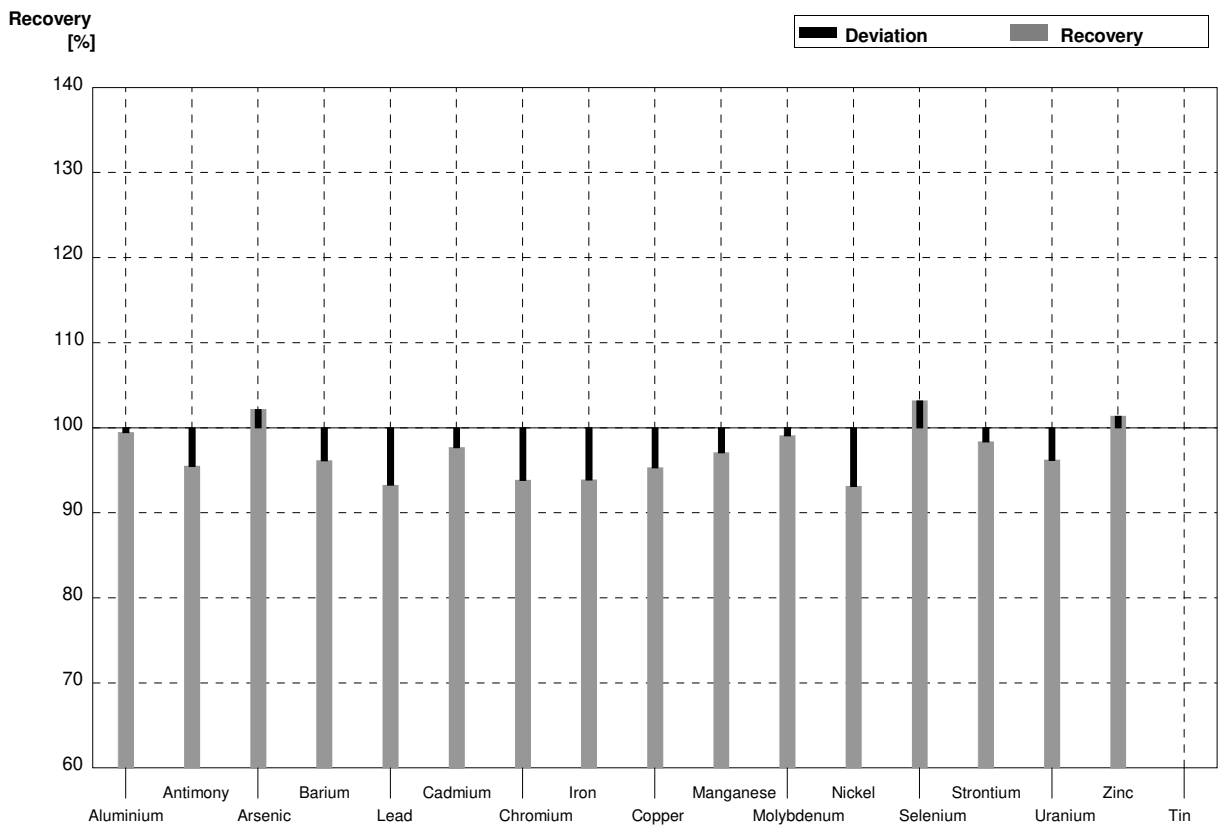
Sample M169B
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	35,2	0,437	µg/l	90%
Antimony	1,57	0,06	1,51	0,0962	µg/l	96%
Arsenic	3,18	0,03	3,38	0,0332	µg/l	106%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,97	0,0507	µg/l	102%
Cadmium	1,169	0,011	1,19	0,0225	µg/l	102%
Chromium	0,752	0,010	<1,00		µg/l	•
Iron	59,8	0,3	57,6	0,720	µg/l	96%
Copper	8,02	0,06	7,82	0,0730	µg/l	98%
Manganese	8,9	0,3	<10,0		µg/l	•
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,94	0,0462	µg/l	104%
Selenium	2,63	0,03	2,70	0,119	µg/l	103%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,51	0,0806	µg/l	100%
Zinc	14,9	0,4	15,7	0,709	µg/l	105%
Tin	1,03	0,03			µg/l	



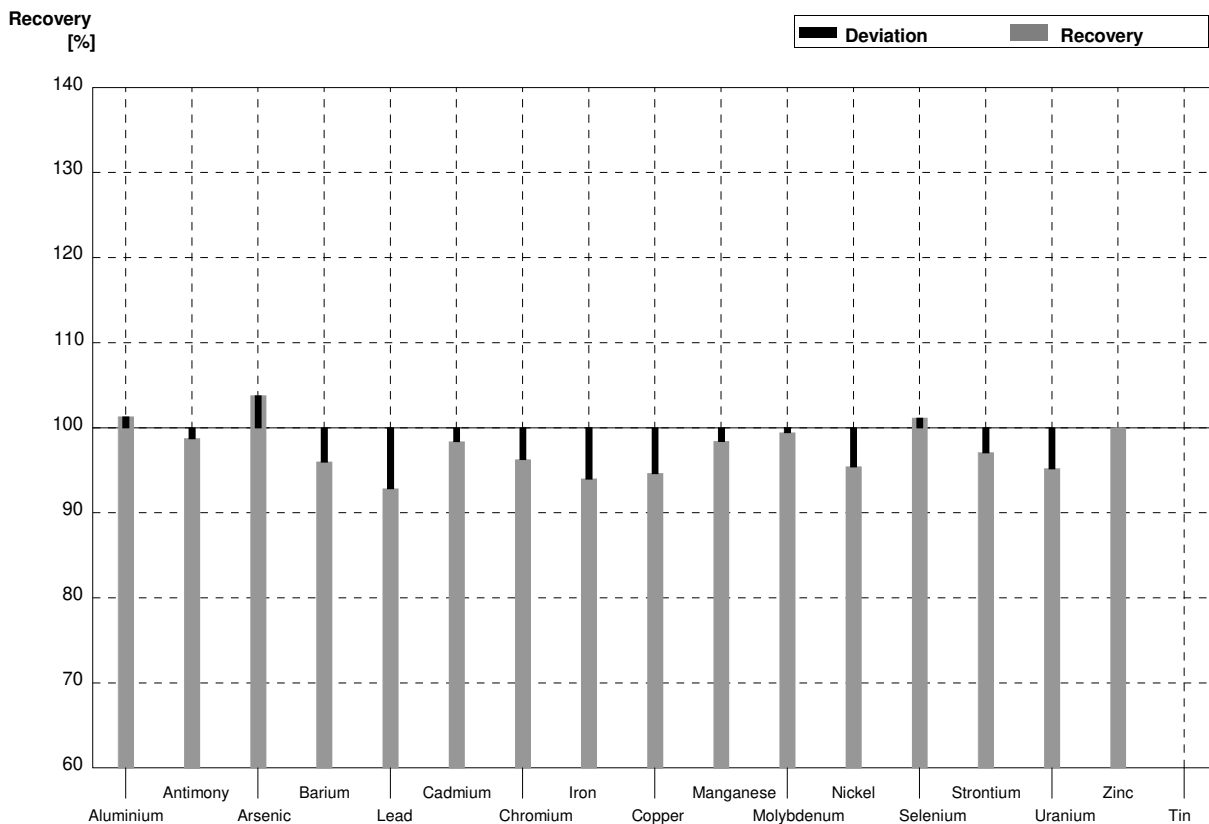
Sample M169A
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,7	3,54	µg/l	99%
Antimony	0,89	0,05	0,850	0,170	µg/l	96%
Arsenic	1,830	0,016	1,87	0,37	µg/l	102%
Barium	15,81	0,12	15,2	3,04	µg/l	96%
Lead	0,579	0,012	0,540	0,250	µg/l	93%
Cadmium	0,517	0,007	0,505	0,101	µg/l	98%
Chromium	5,52	0,05	5,18	1,04	µg/l	94%
Iron	36,0	0,2	33,8	6,77	µg/l	94%
Copper	3,63	0,04	3,46	0,69	µg/l	95%
Manganese	40,9	0,3	39,7	7,94	µg/l	97%
Molybdenum	2,14	0,23	2,12	0,424	µg/l	99%
Nickel	1,60	0,03	1,49	0,30	µg/l	93%
Selenium	0,790	0,018	0,815	0,163	µg/l	103%
Strontium	694	6	682,6	137	µg/l	98%
Uranium	7,65	0,07	7,36	1,47	µg/l	96%
Zinc	29,4	0,6	29,8	6,0	µg/l	101%
Tin	2,46	0,04			µg/l	



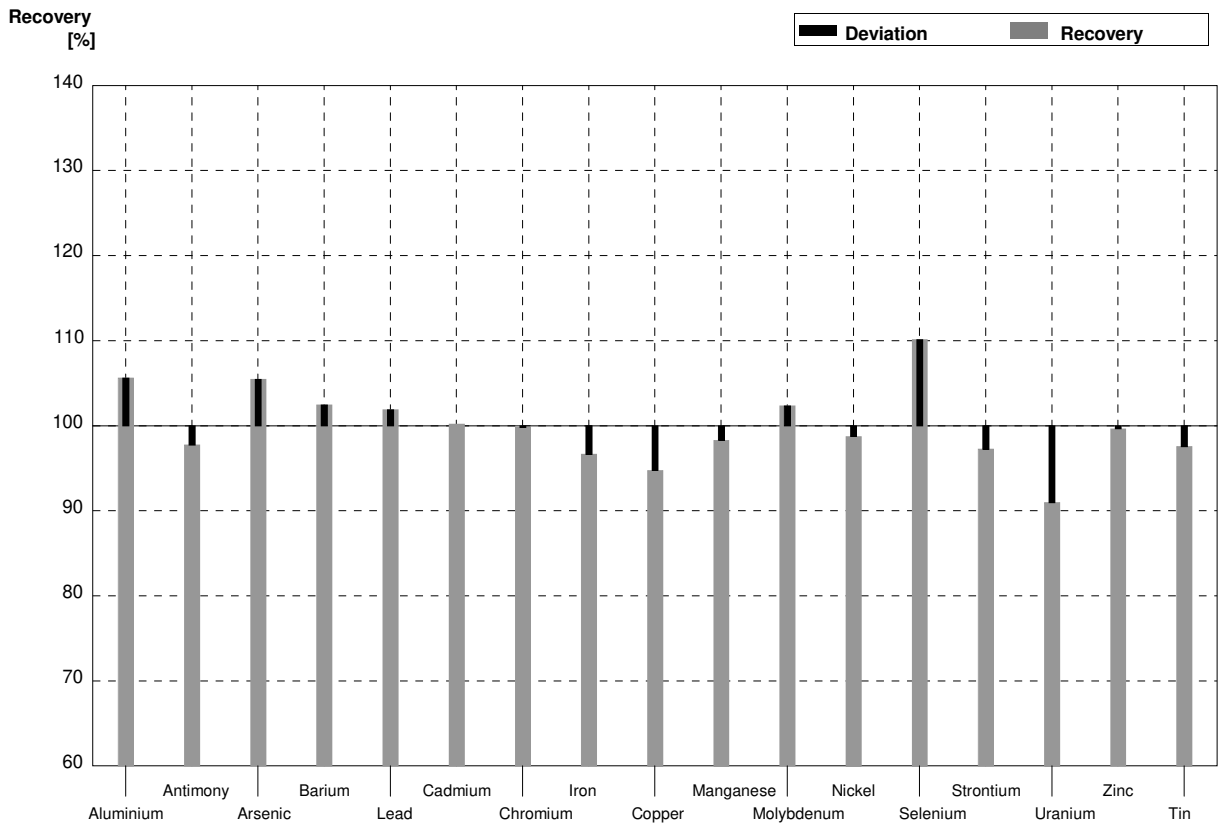
Sample M169B
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,4	7,87	µg/l	101%
Antimony	1,57	0,06	1,55	0,31	µg/l	99%
Arsenic	3,18	0,03	3,30	0,66	µg/l	104%
Barium	37,92	0,17	36,4	7,29	µg/l	96%
Lead	3,91	0,03	3,63	0,73	µg/l	93%
Cadmium	1,169	0,011	1,15	0,229	µg/l	98%
Chromium	0,752	0,010	0,724	0,145	µg/l	96%
Iron	59,8	0,3	56,2	11,2	µg/l	94%
Copper	8,02	0,06	7,59	1,52	µg/l	95%
Manganese	8,9	0,3	8,76	1,75	µg/l	98%
Molybdenum	0,86	0,23	0,855	0,171	µg/l	99%
Nickel	2,84	0,04	2,71	0,54	µg/l	95%
Selenium	2,63	0,03	2,66	0,53	µg/l	101%
Strontium	360	3	349,5	69,9	µg/l	97%
Uranium	2,50	0,02	2,38	0,48	µg/l	95%
Zinc	14,9	0,4	14,9	3,0	µg/l	100%
Tin	1,03	0,03			µg/l	



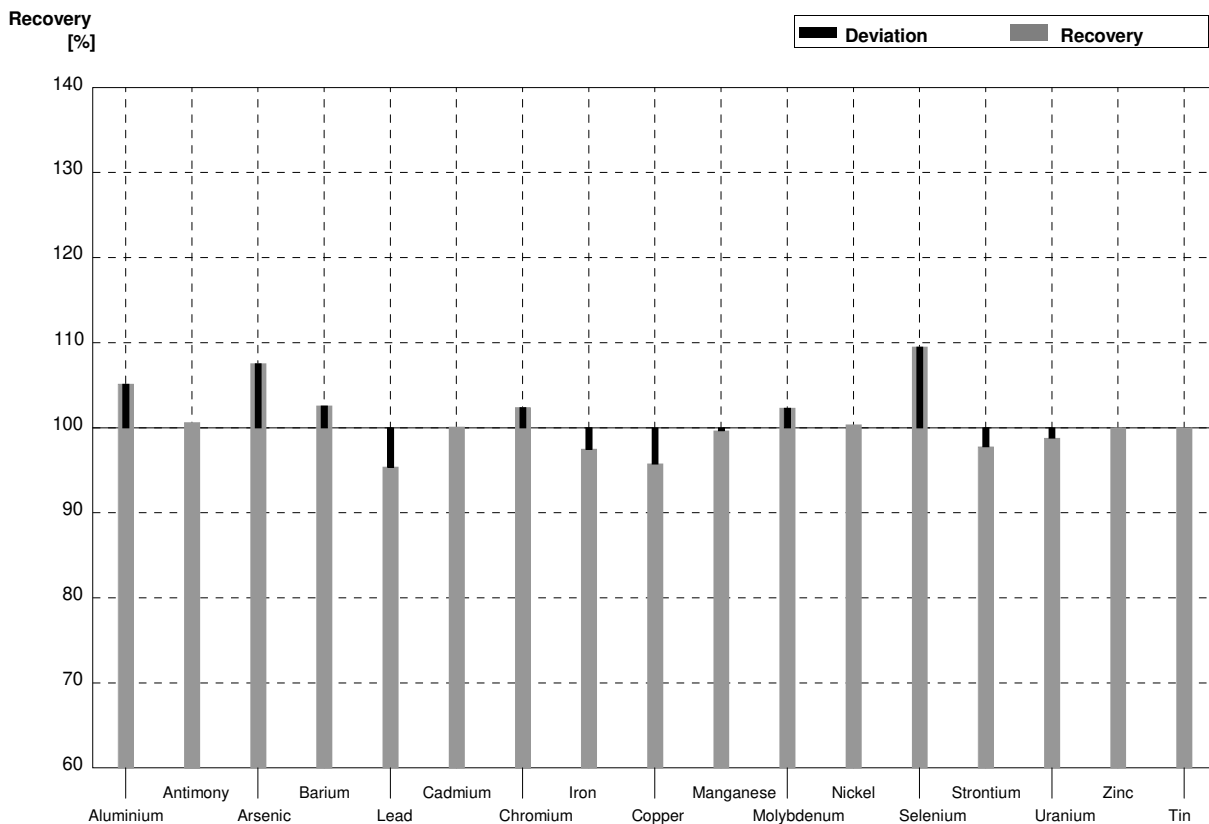
Sample M169A
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,8	1,9	µg/l	106%
Antimony	0,89	0,05	0,87	0,09	µg/l	98%
Arsenic	1,830	0,016	1,93	0,19	µg/l	105%
Barium	15,81	0,12	16,2	1,6	µg/l	102%
Lead	0,579	0,012	0,59	0,06	µg/l	102%
Cadmium	0,517	0,007	0,518	0,052	µg/l	100%
Chromium	5,52	0,05	5,51	0,55	µg/l	100%
Iron	36,0	0,2	34,8	3,5	µg/l	97%
Copper	3,63	0,04	3,44	0,34	µg/l	95%
Manganese	40,9	0,3	40,2	4,0	µg/l	98%
Molybdenum	2,14	0,23	2,19	0,22	µg/l	102%
Nickel	1,60	0,03	1,58	0,16	µg/l	99%
Selenium	0,790	0,018	0,87	0,09	µg/l	110%
Strontium	694	6	675	68	µg/l	97%
Uranium	7,65	0,07	6,96	0,70	µg/l	91%
Zinc	29,4	0,6	29,3	2,9	µg/l	100%
Tin	2,46	0,04	2,40	0,24	µg/l	98%



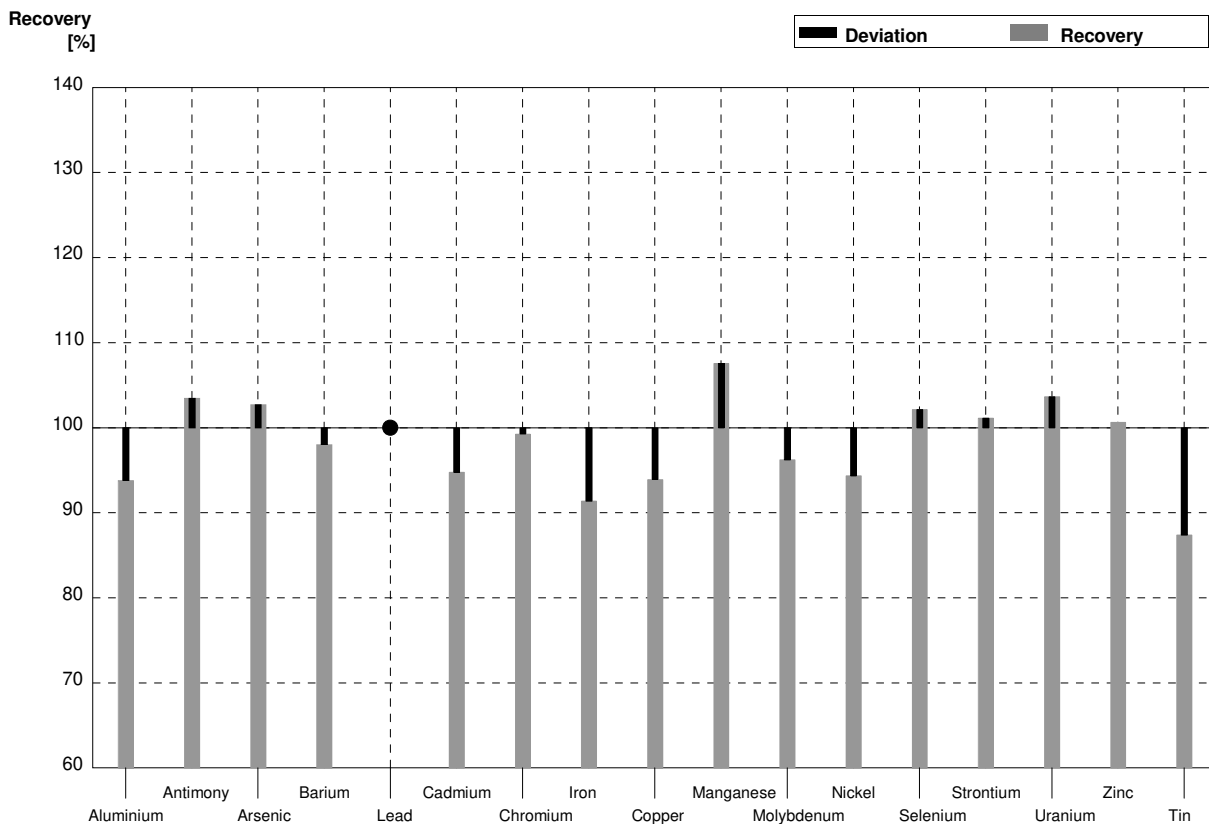
Sample M169B
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,9	4,1	µg/l	105%
Antimony	1,57	0,06	1,58	0,16	µg/l	101%
Arsenic	3,18	0,03	3,42	0,34	µg/l	108%
Barium	37,92	0,17	38,9	3,9	µg/l	103%
Lead	3,91	0,03	3,73	0,37	µg/l	95%
Cadmium	1,169	0,011	1,17	0,12	µg/l	100%
Chromium	0,752	0,010	0,77	0,08	µg/l	102%
Iron	59,8	0,3	58,3	5,8	µg/l	97%
Copper	8,02	0,06	7,68	0,77	µg/l	96%
Manganese	8,9	0,3	8,87	0,89	µg/l	100%
Molybdenum	0,86	0,23	0,88	0,09	µg/l	102%
Nickel	2,84	0,04	2,85	0,29	µg/l	100%
Selenium	2,63	0,03	2,88	0,29	µg/l	110%
Strontium	360	3	352	35	µg/l	98%
Uranium	2,50	0,02	2,47	0,25	µg/l	99%
Zinc	14,9	0,4	14,9	1,5	µg/l	100%
Tin	1,03	0,03	1,03	0,10	µg/l	100%



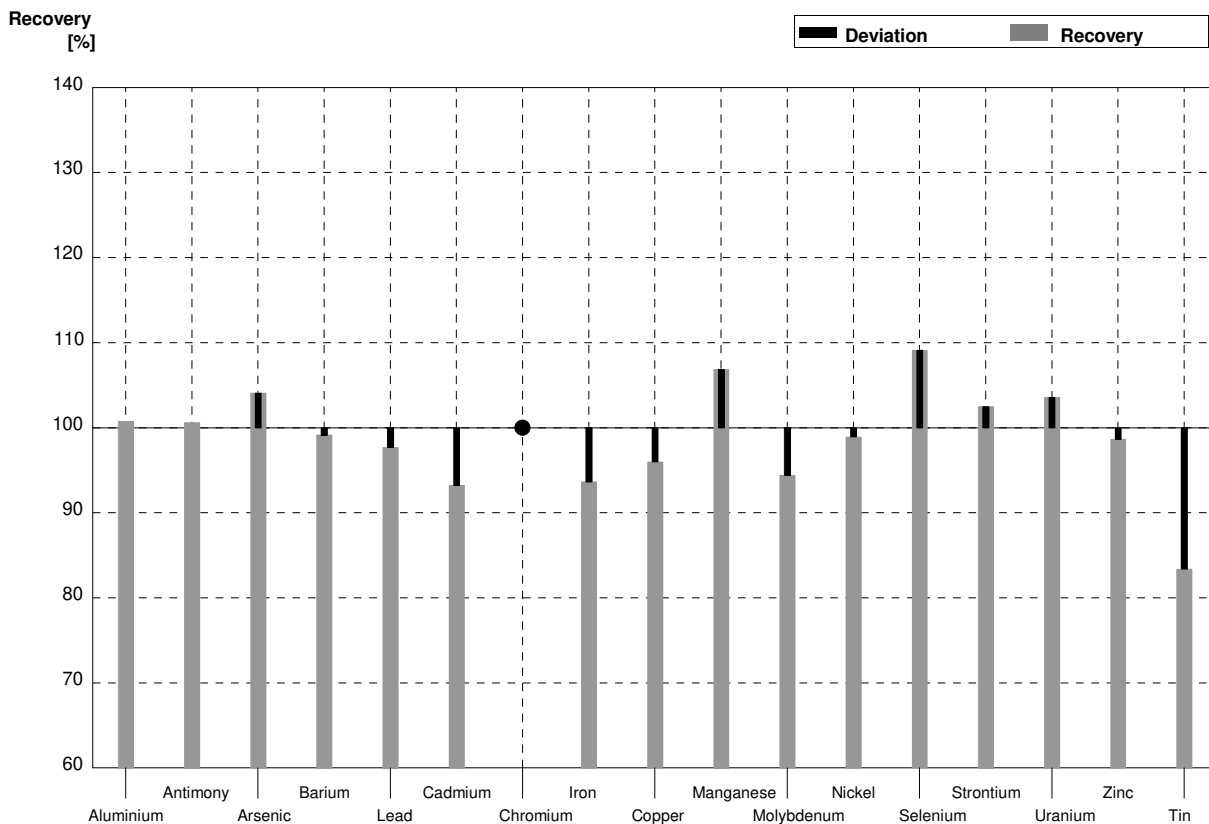
Sample M169A
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,7	3,3	µg/l	94%
Antimony	0,89	0,05	0,921	0,184	µg/l	103%
Arsenic	1,830	0,016	1,88	0,38	µg/l	103%
Barium	15,81	0,12	15,5	3,1	µg/l	98%
Lead	0,579	0,012	<1		µg/l	•
Cadmium	0,517	0,007	0,490	0,098	µg/l	95%
Chromium	5,52	0,05	5,48	1,10	µg/l	99%
Iron	36,0	0,2	32,9	6,6	µg/l	91%
Copper	3,63	0,04	3,41	0,68	µg/l	94%
Manganese	40,9	0,3	44,0	8,8	µg/l	108%
Molybdenum	2,14	0,23	2,06	0,41	µg/l	96%
Nickel	1,60	0,03	1,51	0,30	µg/l	94%
Selenium	0,790	0,018	0,807	0,161	µg/l	102%
Strontium	694	6	702	70	µg/l	101%
Uranium	7,65	0,07	7,93	1,59	µg/l	104%
Zinc	29,4	0,6	29,6	5,9	µg/l	101%
Tin	2,46	0,04	2,15	0,43	µg/l	87%



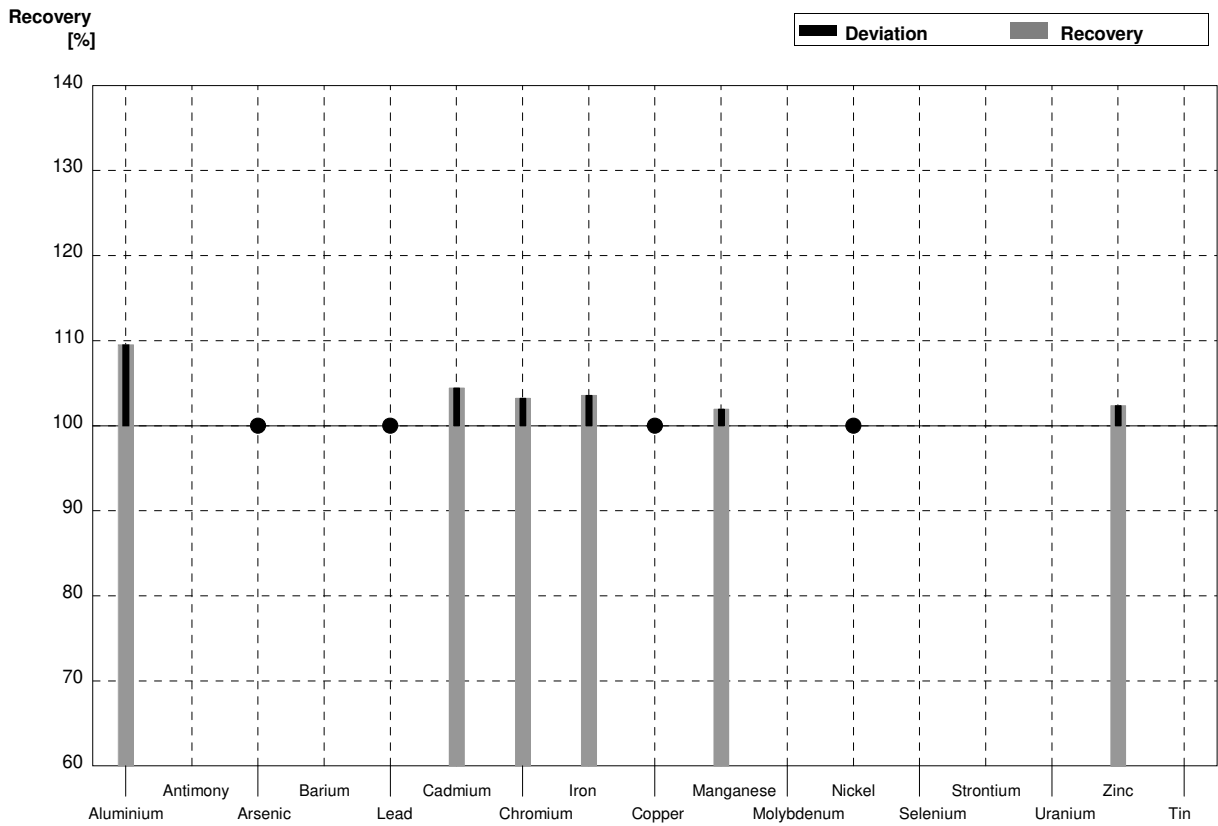
Sample M169B
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,2	7,8	µg/l	101%
Antimony	1,57	0,06	1,58	0,32	µg/l	101%
Arsenic	3,18	0,03	3,31	0,66	µg/l	104%
Barium	37,92	0,17	37,6	7,5	µg/l	99%
Lead	3,91	0,03	3,82	0,76	µg/l	98%
Cadmium	1,169	0,011	1,09	0,22	µg/l	93%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	56,0	11,2	µg/l	94%
Copper	8,02	0,06	7,70	1,54	µg/l	96%
Manganese	8,9	0,3	9,51	1,90	µg/l	107%
Molybdenum	0,86	0,23	0,812	0,162	µg/l	94%
Nickel	2,84	0,04	2,81	0,56	µg/l	99%
Selenium	2,63	0,03	2,87	0,57	µg/l	109%
Strontium	360	3	369	37	µg/l	103%
Uranium	2,50	0,02	2,59	0,52	µg/l	104%
Zinc	14,9	0,4	14,7	2,9	µg/l	99%
Tin	1,03	0,03	0,859	0,172	µg/l	83%



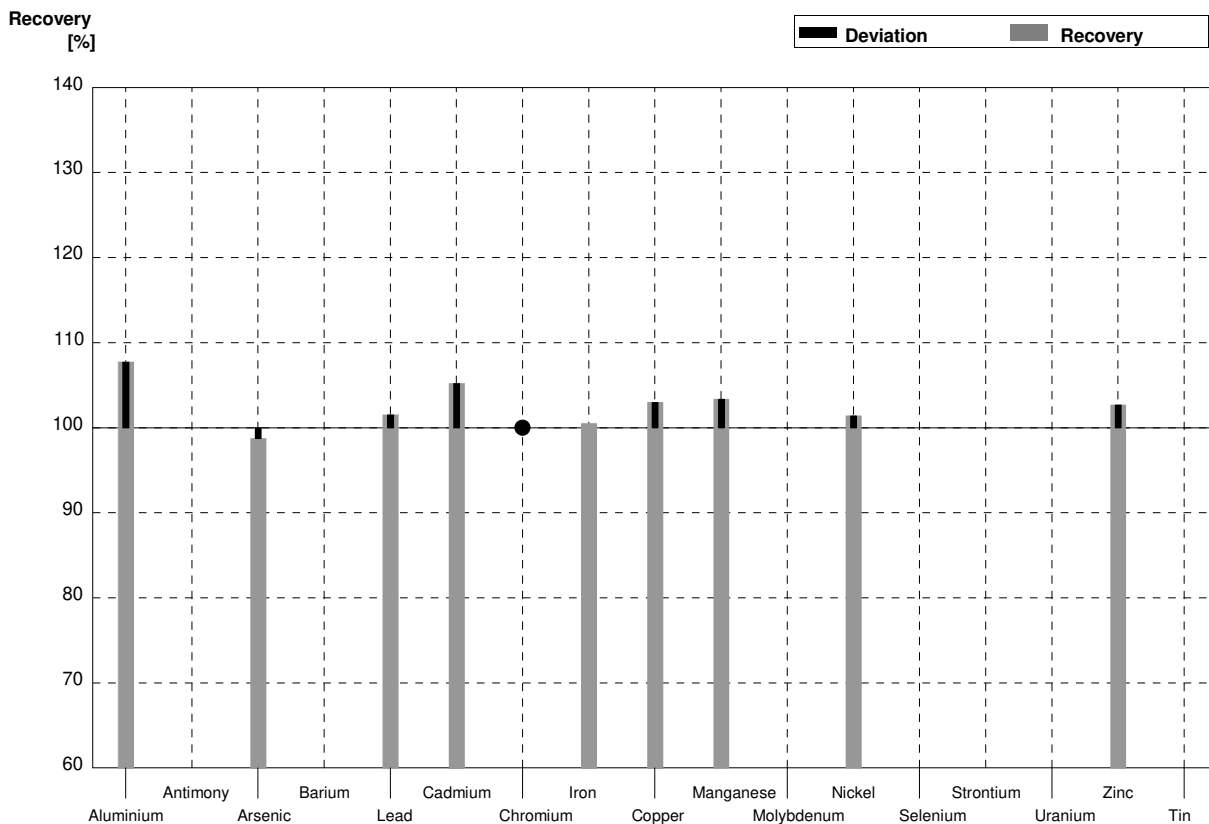
Sample M169A
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	19,5	3	µg/l	110%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	<2,0		µg/l	•
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	<2,0		µg/l	•
Cadmium	0,517	0,007	0,54	0,05	µg/l	104%
Chromium	5,52	0,05	5,70	0,5	µg/l	103%
Iron	36,0	0,2	37,3	3,1	µg/l	104%
Copper	3,63	0,04	<5		µg/l	•
Manganese	40,9	0,3	41,7	3,9	µg/l	102%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	<2		µg/l	•
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	30,1	4	µg/l	102%
Tin	2,46	0,04			µg/l	



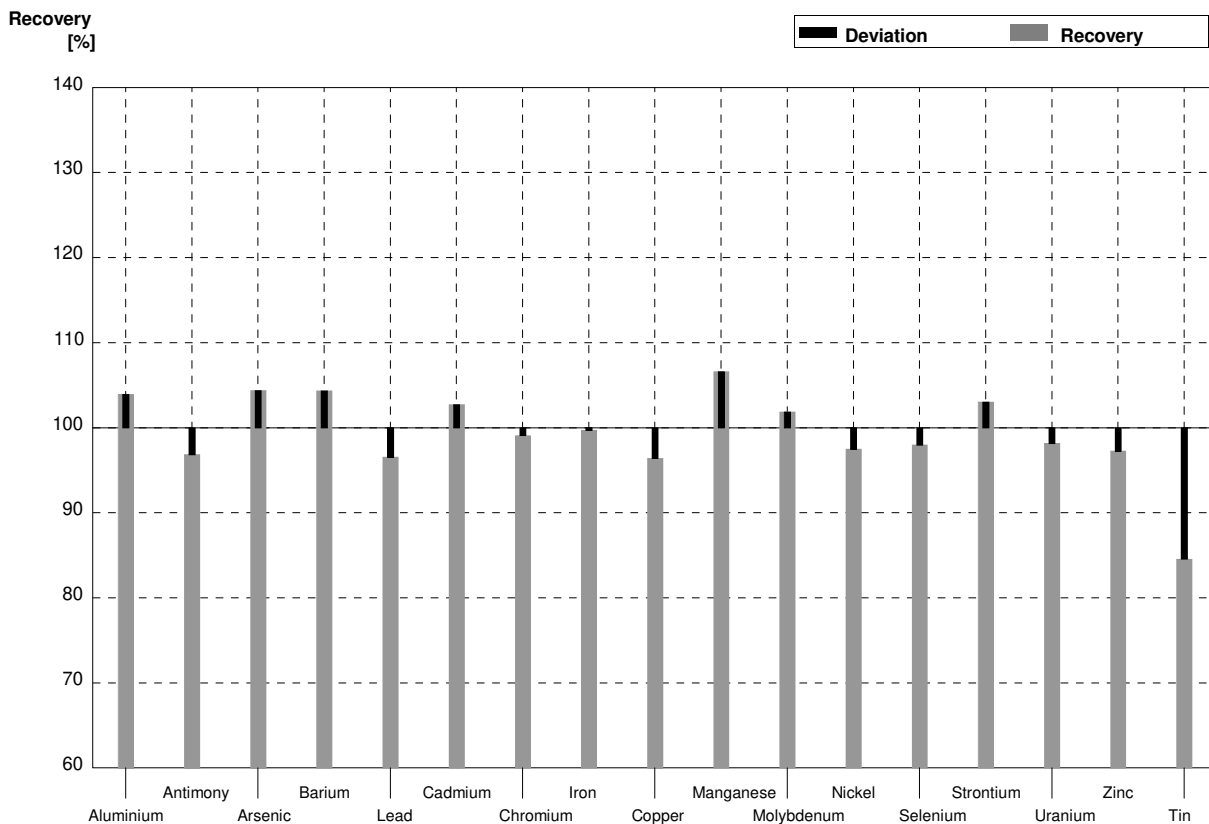
Sample M169B
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	41,9	6	µg/l	108%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,14	0,5	µg/l	99%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,97	0,7	µg/l	102%
Cadmium	1,169	0,011	1,23	0,1	µg/l	105%
Chromium	0,752	0,010	<5		µg/l	•
Iron	59,8	0,3	60,1	5,0	µg/l	101%
Copper	8,02	0,06	8,26	0,8	µg/l	103%
Manganese	8,9	0,3	9,2	0,87	µg/l	103%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,88	0,4	µg/l	101%
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	15,3	2	µg/l	103%
Tin	1,03	0,03			µg/l	



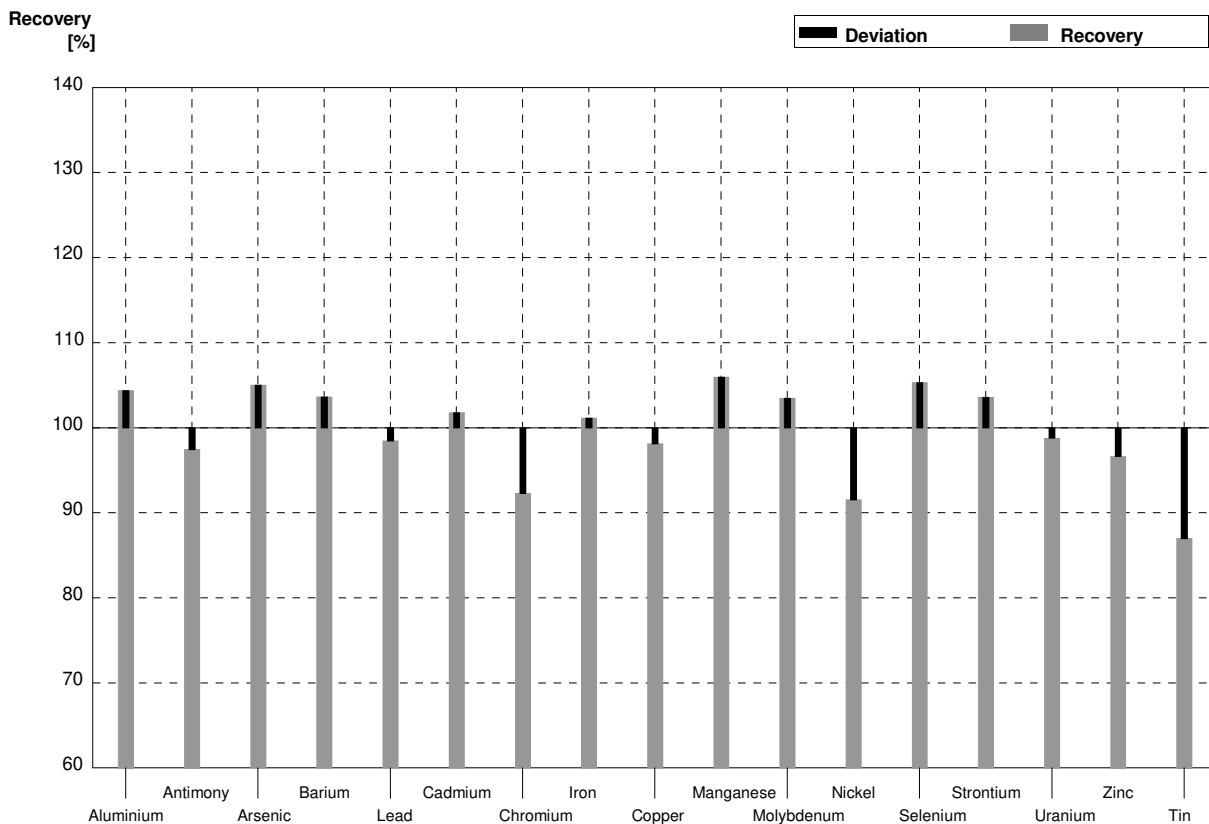
Sample M169A
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,5	6,15	µg/l	104%
Antimony	0,89	0,05	0,862	0,219	µg/l	97%
Arsenic	1,830	0,016	1,91	0,389	µg/l	104%
Barium	15,81	0,12	16,5	2,1	µg/l	104%
Lead	0,579	0,012	0,559	0,15	µg/l	97%
Cadmium	0,517	0,007	0,531	0,137	µg/l	103%
Chromium	5,52	0,05	5,47	1,04	µg/l	99%
Iron	36,0	0,2	35,9	7,22	µg/l	100%
Copper	3,63	0,04	3,50	1,06	µg/l	96%
Manganese	40,9	0,3	43,6	10	µg/l	107%
Molybdenum	2,14	0,23	2,18	0,422	µg/l	102%
Nickel	1,60	0,03	1,56	0,471	µg/l	98%
Selenium	0,790	0,018	0,774	0,438	µg/l	98%
Strontium	694	6	715	180	µg/l	103%
Uranium	7,65	0,07	7,51	1,87	µg/l	98%
Zinc	29,4	0,6	28,6	7,49	µg/l	97%
Tin	2,46	0,04	2,08	0,488	µg/l	85%



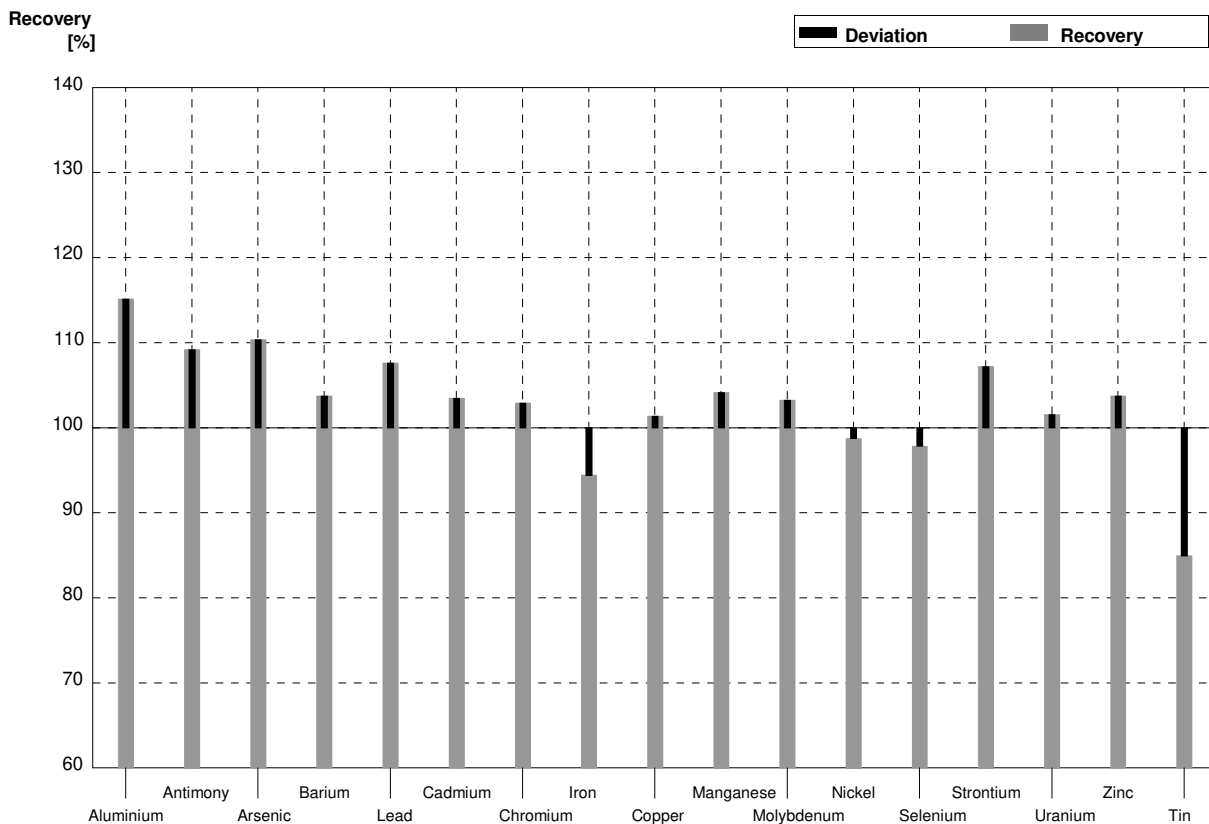
Sample M169B
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,6	13,5	µg/l	104%
Antimony	1,57	0,06	1,53	0,389	µg/l	97%
Arsenic	3,18	0,03	3,34	0,681	µg/l	105%
Barium	37,92	0,17	39,3	5	µg/l	104%
Lead	3,91	0,03	3,85	1,03	µg/l	98%
Cadmium	1,169	0,011	1,19	0,306	µg/l	102%
Chromium	0,752	0,010	0,694	0,132	µg/l	92%
Iron	59,8	0,3	60,5	12,2	µg/l	101%
Copper	8,02	0,06	7,87	2,38	µg/l	98%
Manganese	8,9	0,3	9,43	2,17	µg/l	106%
Molybdenum	0,86	0,23	0,89	0,172	µg/l	103%
Nickel	2,84	0,04	2,60	0,786	µg/l	92%
Selenium	2,63	0,03	2,77	1,57	µg/l	105%
Strontium	360	3	373	93,8	µg/l	104%
Uranium	2,50	0,02	2,47	0,616	µg/l	99%
Zinc	14,9	0,4	14,4	3,77	µg/l	97%
Tin	1,03	0,03	0,896	0,21	µg/l	87%



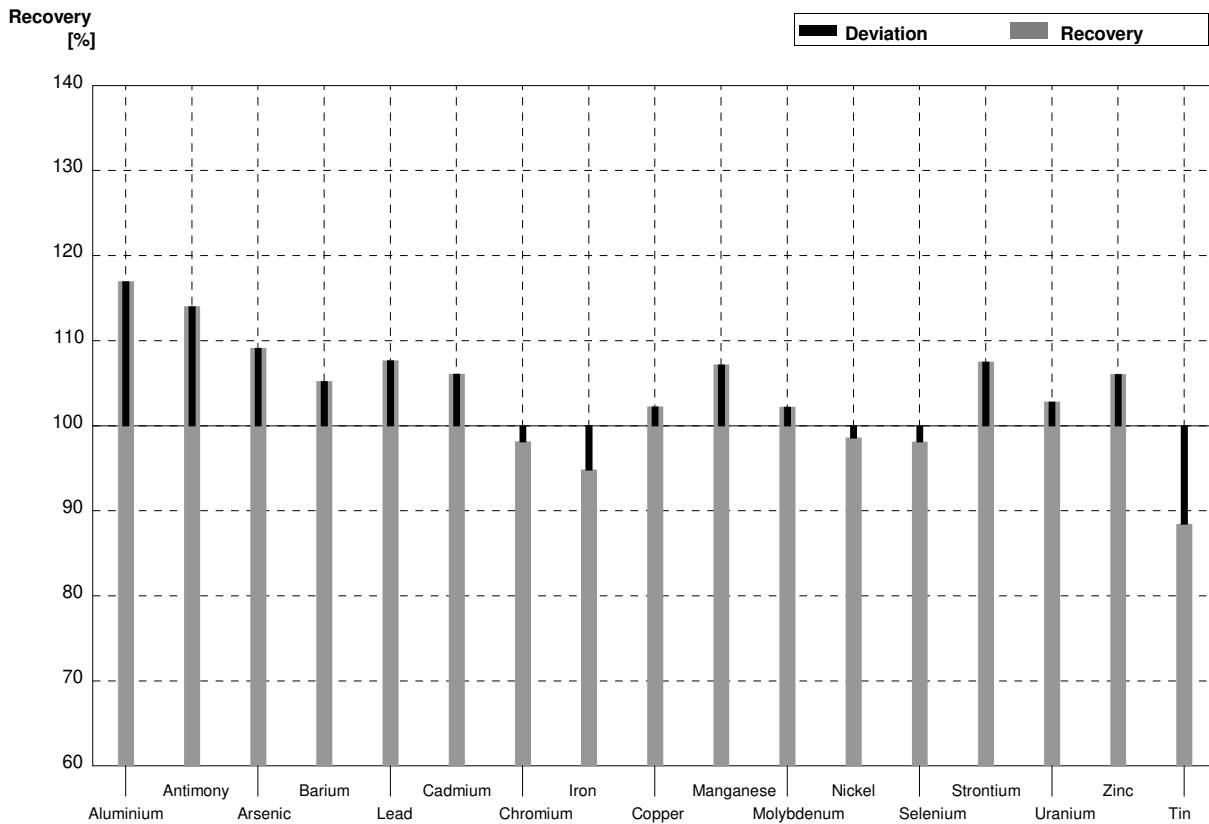
Sample M169A
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	20,5	6,15	µg/l	115%
Antimony	0,89	0,05	0,972	0,313	µg/l	109%
Arsenic	1,830	0,016	2,02	0,606	µg/l	110%
Barium	15,81	0,12	16,4	4,92	µg/l	104%
Lead	0,579	0,012	0,623	0,187	µg/l	108%
Cadmium	0,517	0,007	0,535	0,161	µg/l	103%
Chromium	5,52	0,05	5,68	1,70	µg/l	103%
Iron	36,0	0,2	34,0	10,2	µg/l	94%
Copper	3,63	0,04	3,68	1,10	µg/l	101%
Manganese	40,9	0,3	42,6	12,8	µg/l	104%
Molybdenum	2,14	0,23	2,21	0,663	µg/l	103%
Nickel	1,60	0,03	1,58	0,474	µg/l	99%
Selenium	0,790	0,018	0,773	0,232	µg/l	98%
Strontium	694	6	744	223	µg/l	107%
Uranium	7,65	0,07	7,77	2,33	µg/l	102%
Zinc	29,4	0,6	30,5	9,15	µg/l	104%
Tin	2,46	0,04	2,09	0,627	µg/l	85%



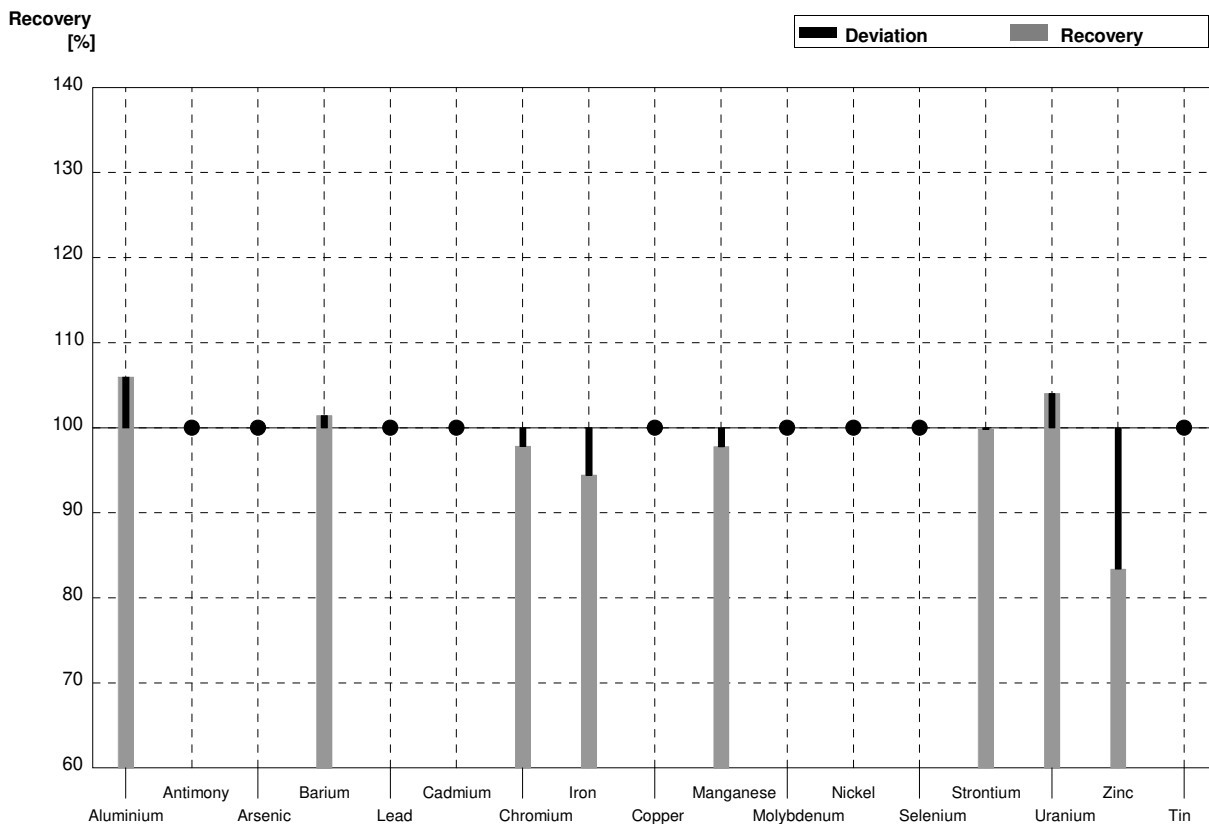
Sample M169B
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	45,5	13,6	µg/l	117%
Antimony	1,57	0,06	1,79	0,55	µg/l	114%
Arsenic	3,18	0,03	3,47	1,04	µg/l	109%
Barium	37,92	0,17	39,9	12,0	µg/l	105%
Lead	3,91	0,03	4,21	1,26	µg/l	108%
Cadmium	1,169	0,011	1,24	0,37	µg/l	106%
Chromium	0,752	0,010	0,738	0,221	µg/l	98%
Iron	59,8	0,3	56,7	16,4	µg/l	95%
Copper	8,02	0,06	8,20	2,46	µg/l	102%
Manganese	8,9	0,3	9,54	2,86	µg/l	107%
Molybdenum	0,86	0,23	0,879	0,264	µg/l	102%
Nickel	2,84	0,04	2,80	0,840	µg/l	99%
Selenium	2,63	0,03	2,58	0,774	µg/l	98%
Strontium	360	3	387	116	µg/l	108%
Uranium	2,50	0,02	2,57	0,771	µg/l	103%
Zinc	14,9	0,4	15,8	4,74	µg/l	106%
Tin	1,03	0,03	0,911	0,273	µg/l	88%



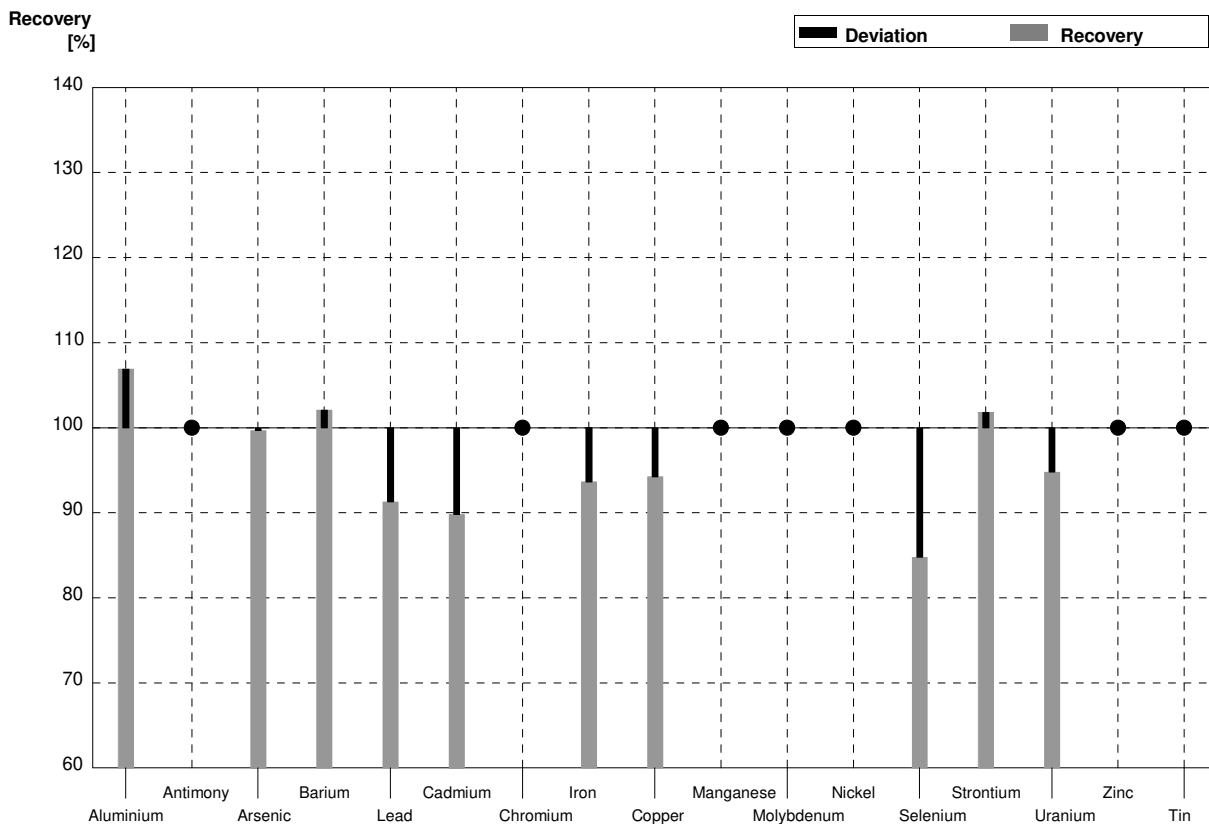
Sample M169A
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,86	1,886	µg/l	106%
Antimony	0,89	0,05	<2		µg/l	•
Arsenic	1,830	0,016	<2		µg/l	•
Barium	15,81	0,12	16,04	1,604	µg/l	101%
Lead	0,579	0,012	<2		µg/l	•
Cadmium	0,517	0,007	<1		µg/l	•
Chromium	5,52	0,05	5,4	0,54	µg/l	98%
Iron	36,0	0,2	34,0	1,7	µg/l	94%
Copper	3,63	0,04	<5		µg/l	•
Manganese	40,9	0,3	40,0	2	µg/l	98%
Molybdenum	2,14	0,23	<5		µg/l	•
Nickel	1,60	0,03	<5		µg/l	•
Selenium	0,790	0,018	<2		µg/l	•
Strontium	694	6	692,8	69,28	µg/l	100%
Uranium	7,65	0,07	7,96	0,796	µg/l	104%
Zinc	29,4	0,6	24,52	2,452	µg/l	83%
Tin	2,46	0,04	<10		µg/l	•



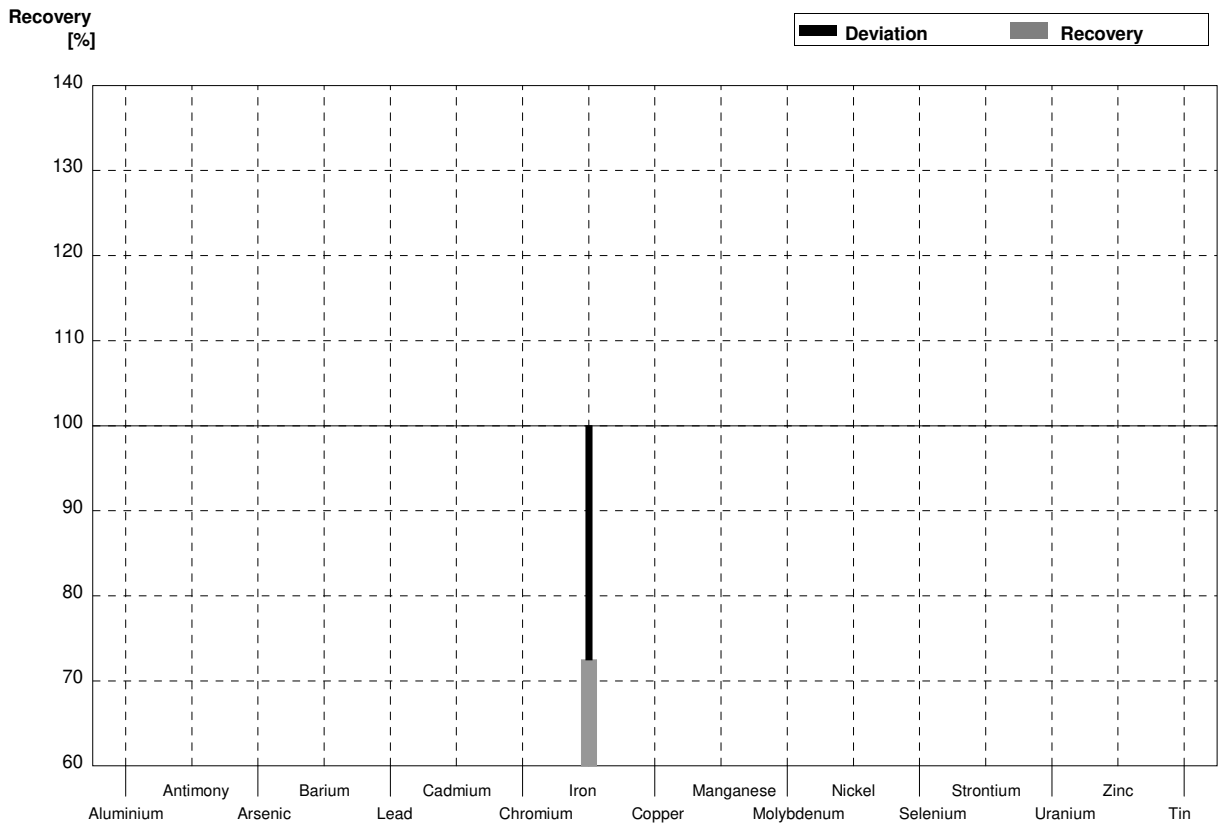
Sample M169B
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	41,59	4,159	µg/l	107%
Antimony	1,57	0,06	<2		µg/l	•
Arsenic	3,18	0,03	3,17	0,317	µg/l	100%
Barium	37,92	0,17	38,72	0,3872	µg/l	102%
Lead	3,91	0,03	3,57	0,357	µg/l	91%
Cadmium	1,169	0,011	1,05	0,105	µg/l	90%
Chromium	0,752	0,010	<5		µg/l	•
Iron	59,8	0,3	56	2,8	µg/l	94%
Copper	8,02	0,06	7,56	0,756	µg/l	94%
Manganese	8,9	0,3	<10		µg/l	•
Molybdenum	0,86	0,23	<5		µg/l	•
Nickel	2,84	0,04	<5		µg/l	•
Selenium	2,63	0,03	2,23	0,223	µg/l	85%
Strontium	360	3	366,55	36,655	µg/l	102%
Uranium	2,50	0,02	2,37	0,237	µg/l	95%
Zinc	14,9	0,4	<15		µg/l	•
Tin	1,03	0,03	<10		µg/l	•



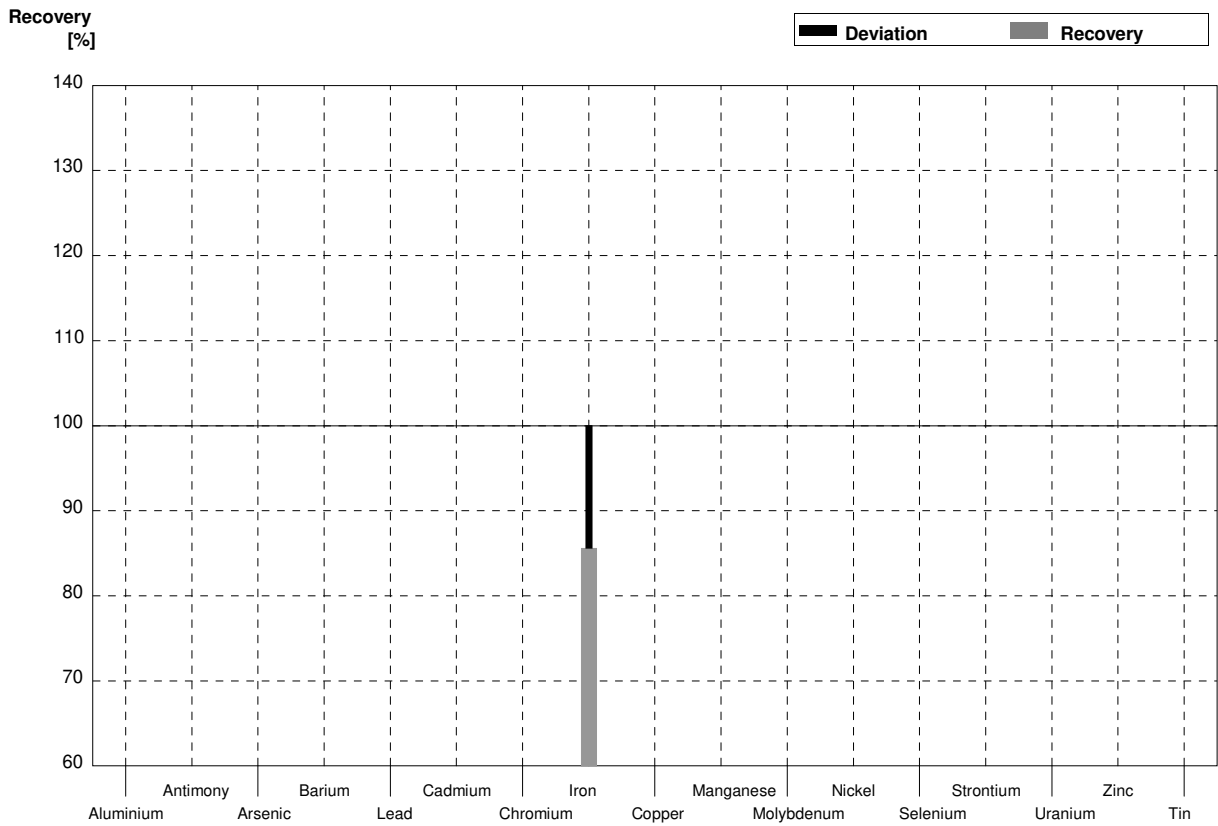
Sample M169A
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2	26,1	1,5	µg/l	73%
Copper	3,63	0,04			µg/l	
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04			µg/l	



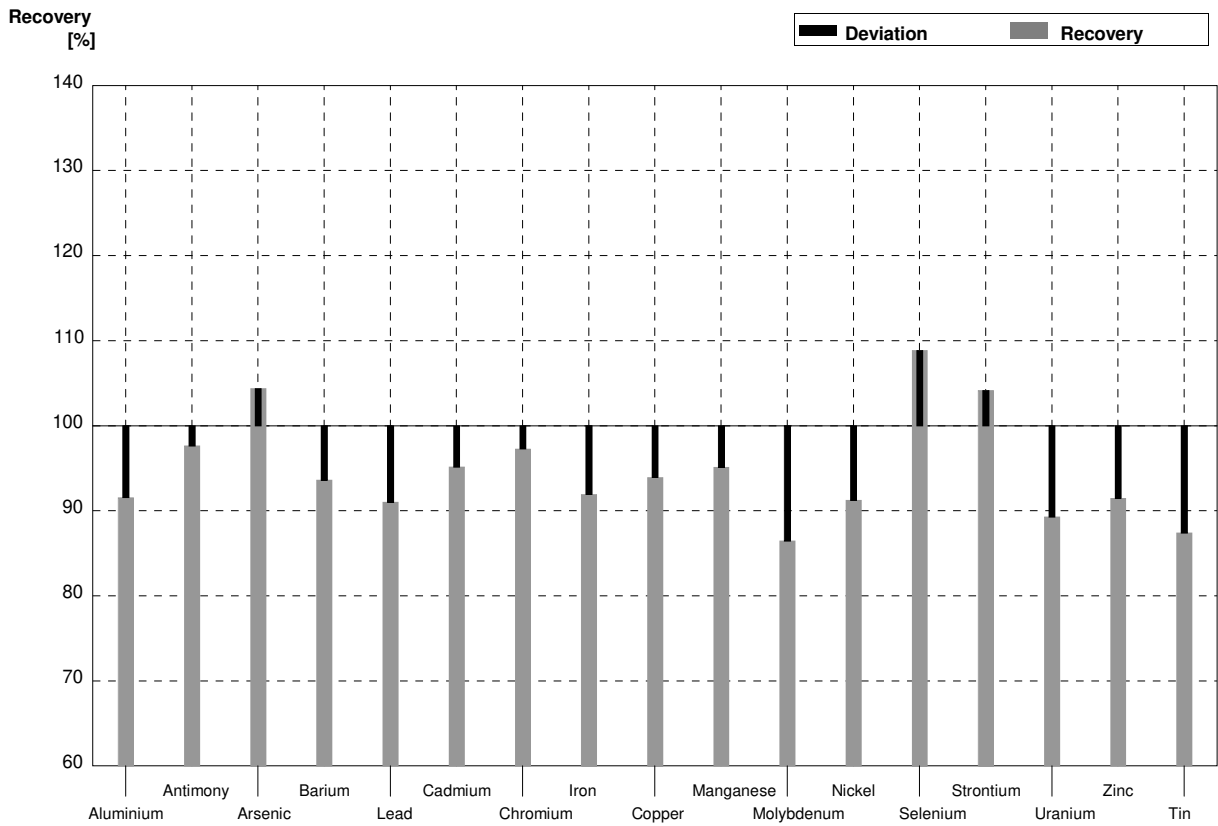
Sample M169B
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3	51,2	3	µg/l	86%
Copper	8,02	0,06			µg/l	
Manganese	8,9	0,3			µg/l	
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4			µg/l	
Tin	1,03	0,03			µg/l	



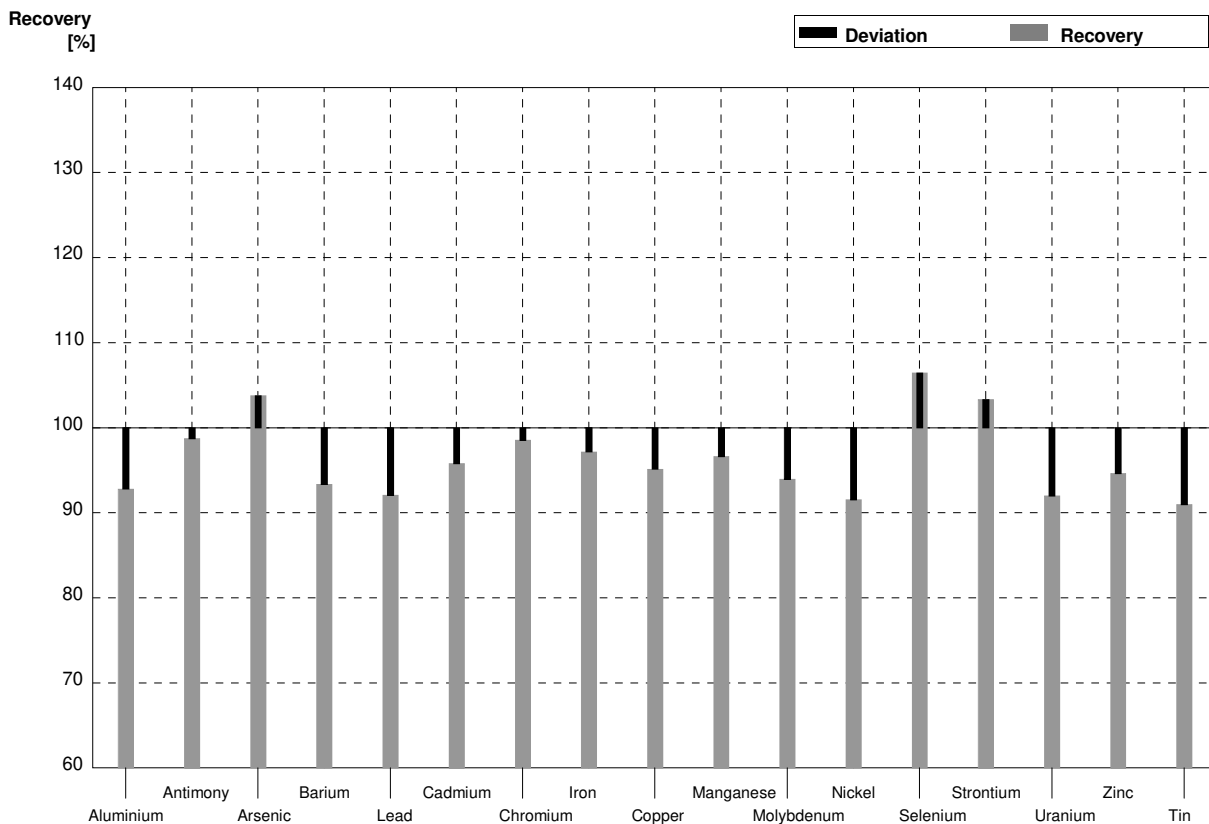
Sample M169A
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,3	8,14	µg/l	92%
Antimony	0,89	0,05	0,869	0,3	µg/l	98%
Arsenic	1,830	0,016	1,91	0,95	µg/l	104%
Barium	15,81	0,12	14,8	5,17	µg/l	94%
Lead	0,579	0,012	0,527	0,26	µg/l	91%
Cadmium	0,517	0,007	0,492	0,17	µg/l	95%
Chromium	5,52	0,05	5,37	1,88	µg/l	97%
Iron	36,0	0,2	33,1	16,6	µg/l	92%
Copper	3,63	0,04	3,41	1,2	µg/l	94%
Manganese	40,9	0,3	38,9	19,5	µg/l	95%
Molybdenum	2,14	0,23	1,85	0,65	µg/l	86%
Nickel	1,60	0,03	1,46	0,73	µg/l	91%
Selenium	0,790	0,018	0,86	0,43	µg/l	109%
Strontium	694	6	723	361	µg/l	104%
Uranium	7,65	0,07	6,83	3,41	µg/l	89%
Zinc	29,4	0,6	26,9	13,4	µg/l	91%
Tin	2,46	0,04	2,15	3,34	µg/l	87%



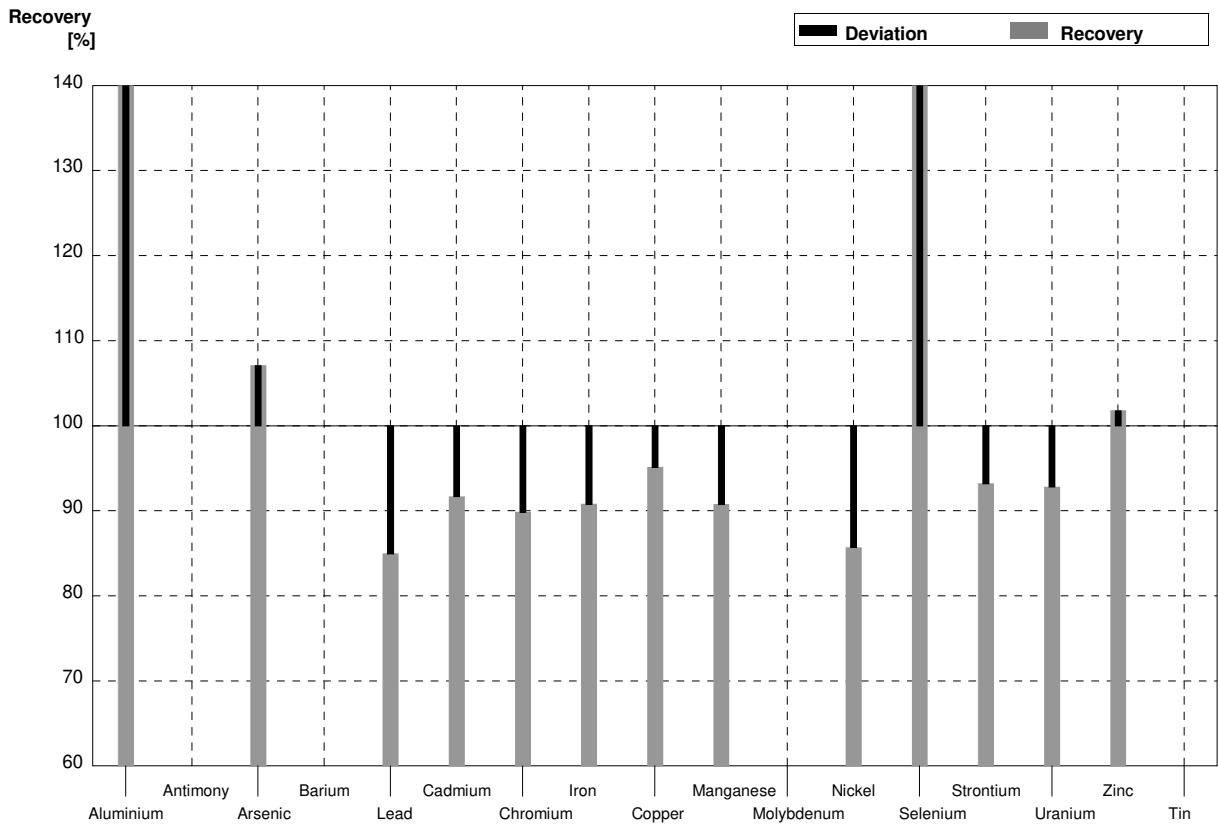
Sample M169B
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,1	18,1	µg/l	93%
Antimony	1,57	0,06	1,55	0,54	µg/l	99%
Arsenic	3,18	0,03	3,30	1,66	µg/l	104%
Barium	37,92	0,17	35,4	12,4	µg/l	93%
Lead	3,91	0,03	3,60	1,78	µg/l	92%
Cadmium	1,169	0,011	1,12	0,39	µg/l	96%
Chromium	0,752	0,010	0,741	0,26	µg/l	99%
Iron	59,8	0,3	58,1	29,1	µg/l	97%
Copper	8,02	0,06	7,63	2,67	µg/l	95%
Manganese	8,9	0,3	8,60	4,29	µg/l	97%
Molybdenum	0,86	0,23	0,808	0,28	µg/l	94%
Nickel	2,84	0,04	2,60	1,32	µg/l	92%
Selenium	2,63	0,03	2,80	1,39	µg/l	106%
Strontium	360	3	372	186	µg/l	103%
Uranium	2,50	0,02	2,30	1,17	µg/l	92%
Zinc	14,9	0,4	14,1	7,05	µg/l	95%
Tin	1,03	0,03	0,937	0,33	µg/l	91%



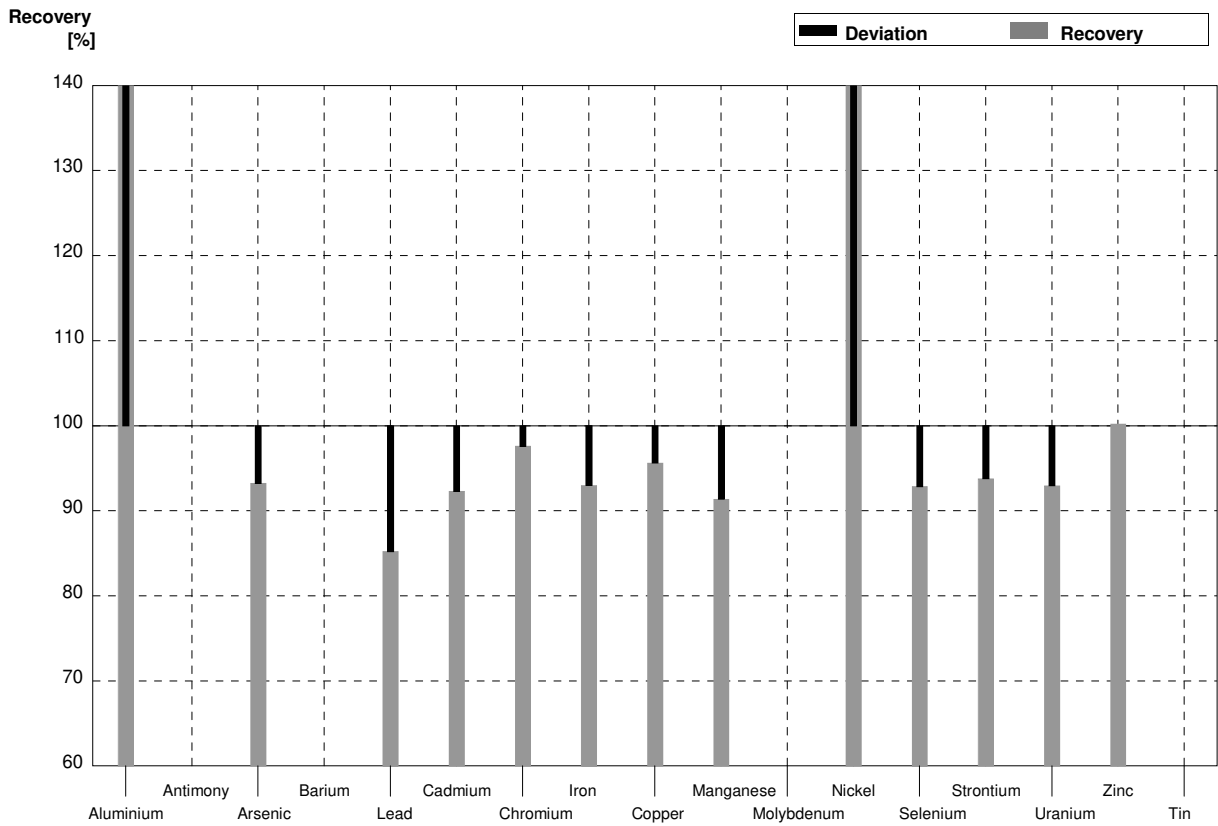
Sample M169A
Laboratory T

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	34,38	1,84	µg/l	193%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	1,960	0,128	µg/l	107%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	0,492	0,023	µg/l	85%
Cadmium	0,517	0,007	0,474	0,012	µg/l	92%
Chromium	5,52	0,05	4,959	0,208	µg/l	90%
Iron	36,0	0,2	32,68	1,37	µg/l	91%
Copper	3,63	0,04	3,453	0,131	µg/l	95%
Manganese	40,9	0,3	37,12	1,21	µg/l	91%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,371	0,076	µg/l	86%
Selenium	0,790	0,018	1,458	0,182	µg/l	185%
Strontium	694	6	646,8	22,3	µg/l	93%
Uranium	7,65	0,07	7,100	0,551	µg/l	93%
Zinc	29,4	0,6	29,92	1,61	µg/l	102%
Tin	2,46	0,04			µg/l	



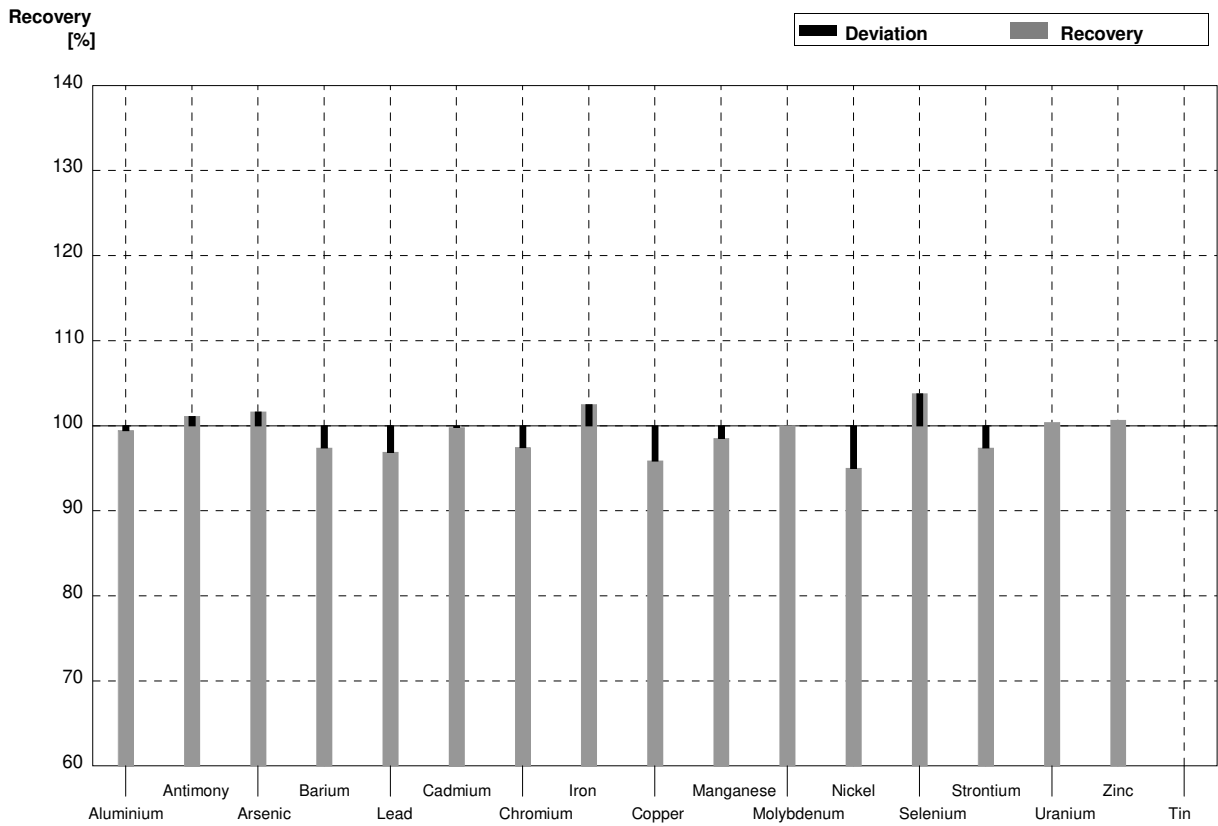
Sample M169B
Laboratory T

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	57,61	3,08	µg/l	148%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	2,965	0,193	µg/l	93%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,332	0,153	µg/l	85%
Cadmium	1,169	0,011	1,079	0,027	µg/l	92%
Chromium	0,752	0,010	0,734	0,031	µg/l	98%
Iron	59,8	0,3	55,61	2,33	µg/l	93%
Copper	8,02	0,06	7,670	0,291	µg/l	96%
Manganese	8,9	0,3	8,133	0,266	µg/l	91%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	4,380	0,055	µg/l	154%
Selenium	2,63	0,03	2,442	0,306	µg/l	93%
Strontium	360	3	337,6	11,7	µg/l	94%
Uranium	2,50	0,02	2,324	0,181	µg/l	93%
Zinc	14,9	0,4	14,93	0,79	µg/l	100%
Tin	1,03	0,03			µg/l	



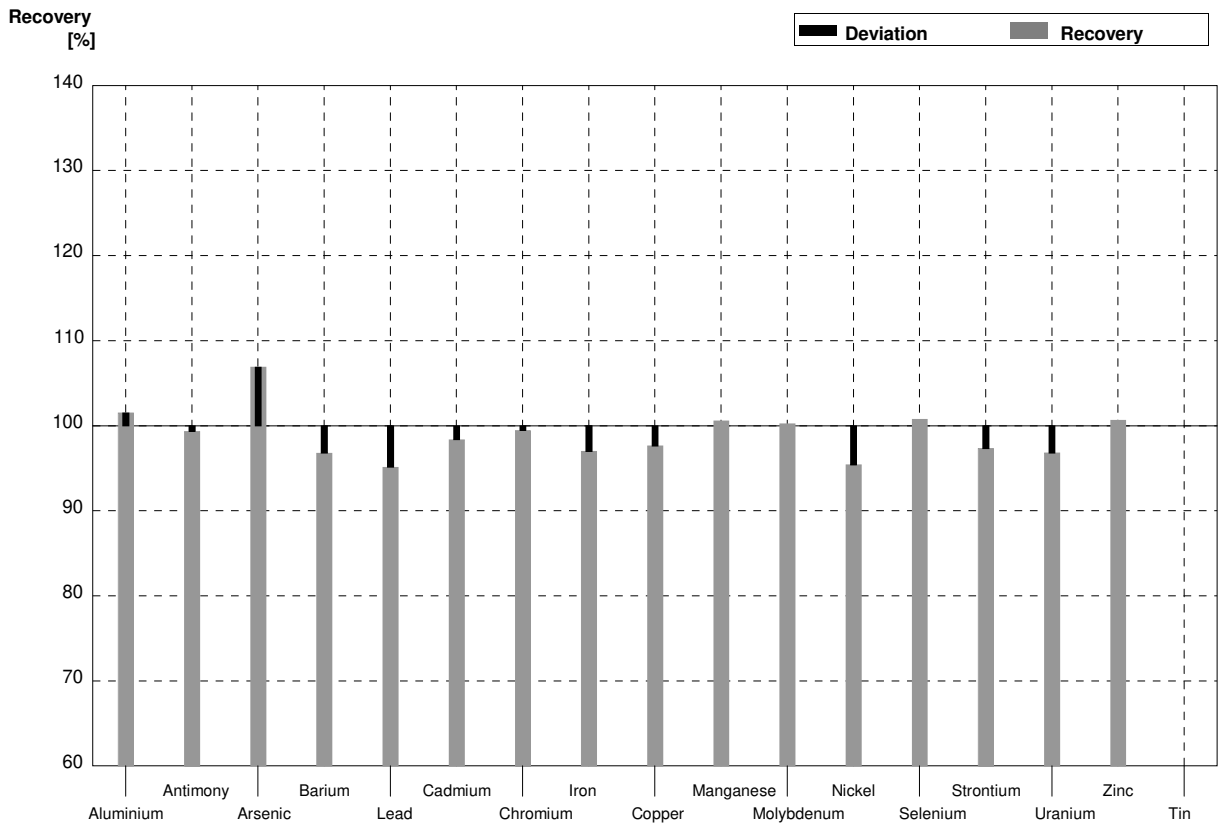
Sample M169A
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,7	3,54	µg/l	99%
Antimony	0,89	0,05	0,90	0,18	µg/l	101%
Arsenic	1,830	0,016	1,86	0,372	µg/l	102%
Barium	15,81	0,12	15,4	3,08	µg/l	97%
Lead	0,579	0,012	0,561	0,112	µg/l	97%
Cadmium	0,517	0,007	0,516	0,103	µg/l	100%
Chromium	5,52	0,05	5,38	1,076	µg/l	97%
Iron	36,0	0,2	36,9	7,38	µg/l	103%
Copper	3,63	0,04	3,48	0,696	µg/l	96%
Manganese	40,9	0,3	40,3	8,06	µg/l	99%
Molybdenum	2,14	0,23	2,14	0,428	µg/l	100%
Nickel	1,60	0,03	1,52	0,304	µg/l	95%
Selenium	0,790	0,018	0,820	0,164	µg/l	104%
Strontium	694	6	676	135,2	µg/l	97%
Uranium	7,65	0,07	7,68	1,536	µg/l	100%
Zinc	29,4	0,6	29,6	5,92	µg/l	101%
Tin	2,46	0,04			µg/l	



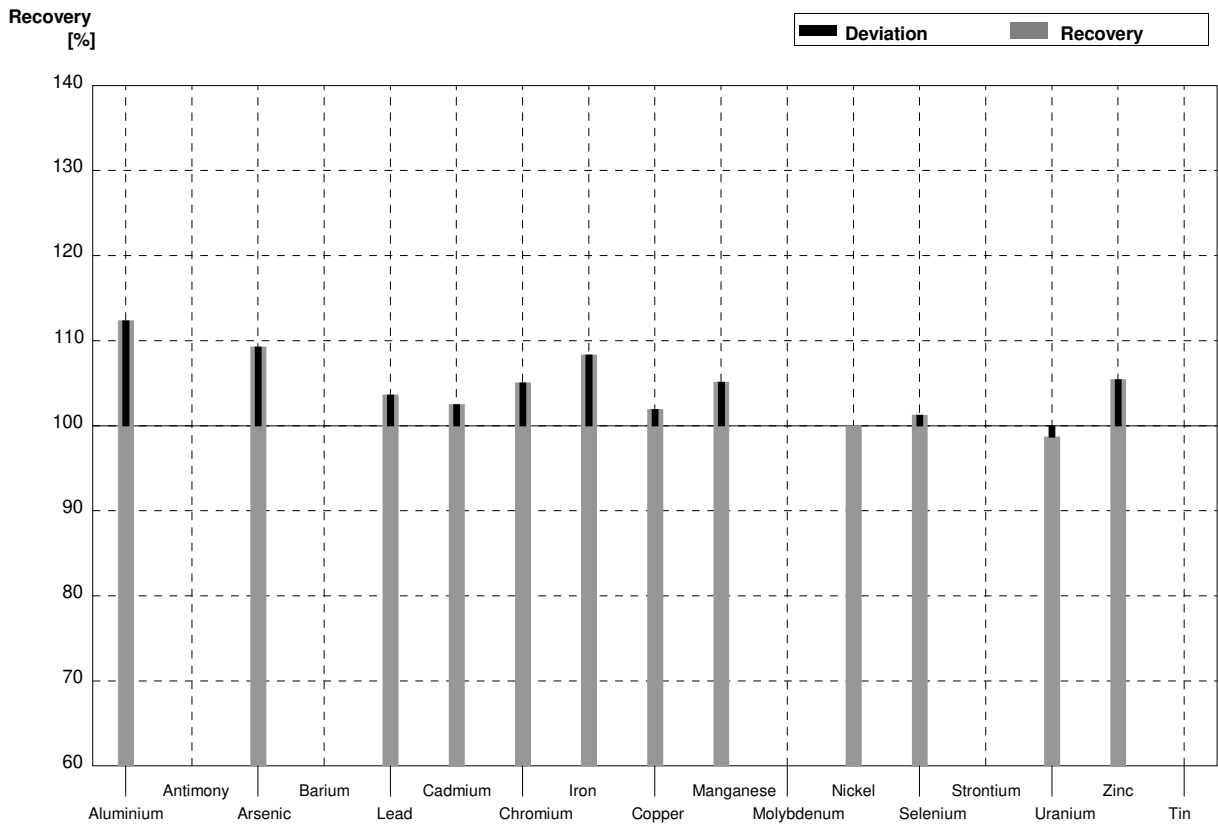
Sample M169B
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,5	7,90	µg/l	102%
Antimony	1,57	0,06	1,56	0,312	µg/l	99%
Arsenic	3,18	0,03	3,40	0,68	µg/l	107%
Barium	37,92	0,17	36,7	7,34	µg/l	97%
Lead	3,91	0,03	3,72	0,744	µg/l	95%
Cadmium	1,169	0,011	1,150	0,23	µg/l	98%
Chromium	0,752	0,010	0,748	0,1496	µg/l	99%
Iron	59,8	0,3	58,0	11,6	µg/l	97%
Copper	8,02	0,06	7,83	1,566	µg/l	98%
Manganese	8,9	0,3	8,95	1,79	µg/l	101%
Molybdenum	0,86	0,23	0,862	0,1724	µg/l	100%
Nickel	2,84	0,04	2,71	0,542	µg/l	95%
Selenium	2,63	0,03	2,65	0,53	µg/l	101%
Strontium	360	3	350,4	70,08	µg/l	97%
Uranium	2,50	0,02	2,42	0,484	µg/l	97%
Zinc	14,9	0,4	15,0	3,00	µg/l	101%
Tin	1,03	0,03			µg/l	



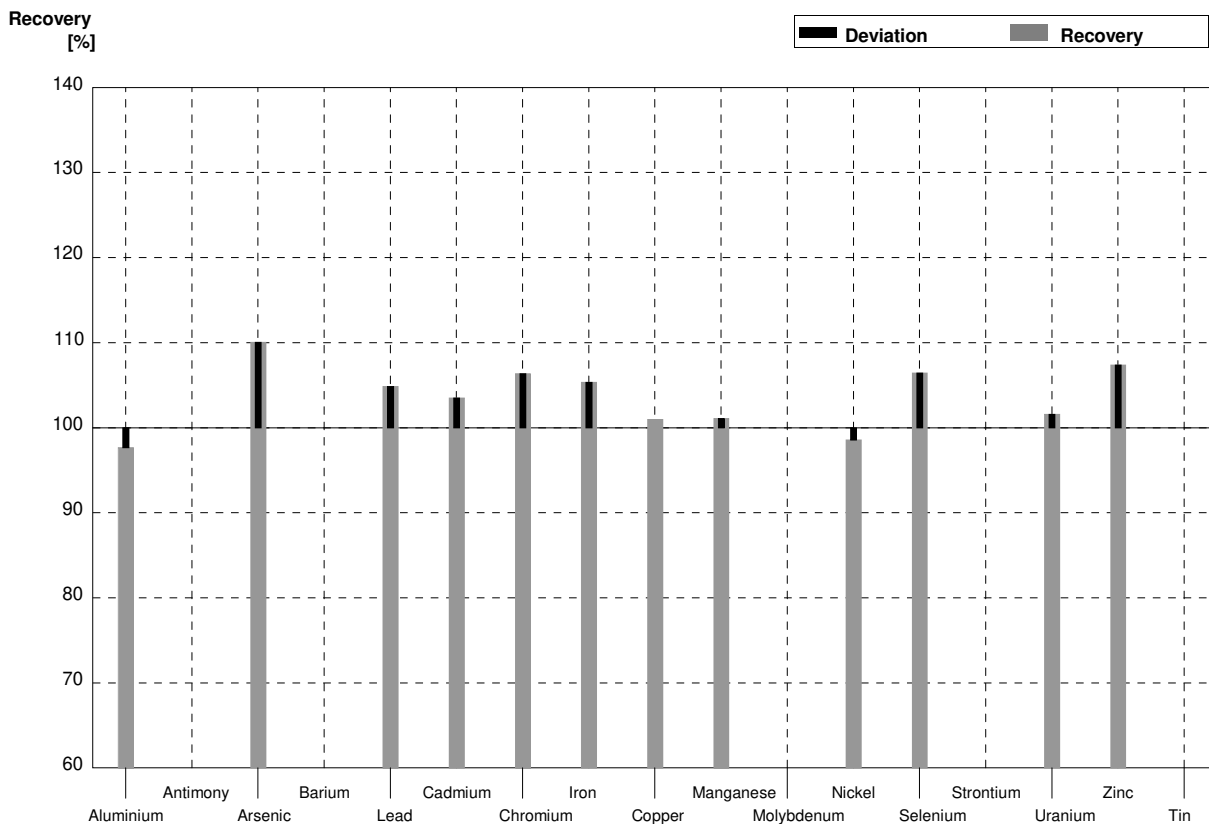
Sample M169A
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	20,0	2,00	µg/l	112%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	2,00	0,240	µg/l	109%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	0,60	0,0480	µg/l	104%
Cadmium	0,517	0,007	0,53	0,0424	µg/l	103%
Chromium	5,52	0,05	5,80	0,696	µg/l	105%
Iron	36,0	0,2	39,0	10,1	µg/l	108%
Copper	3,63	0,04	3,70	0,296	µg/l	102%
Manganese	40,9	0,3	43,0	4,30	µg/l	105%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,60	0,160	µg/l	100%
Selenium	0,790	0,018	0,80	0,120	µg/l	101%
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,55	0,378	µg/l	99%
Zinc	29,4	0,6	31,0	3,10	µg/l	105%
Tin	2,46	0,04			µg/l	



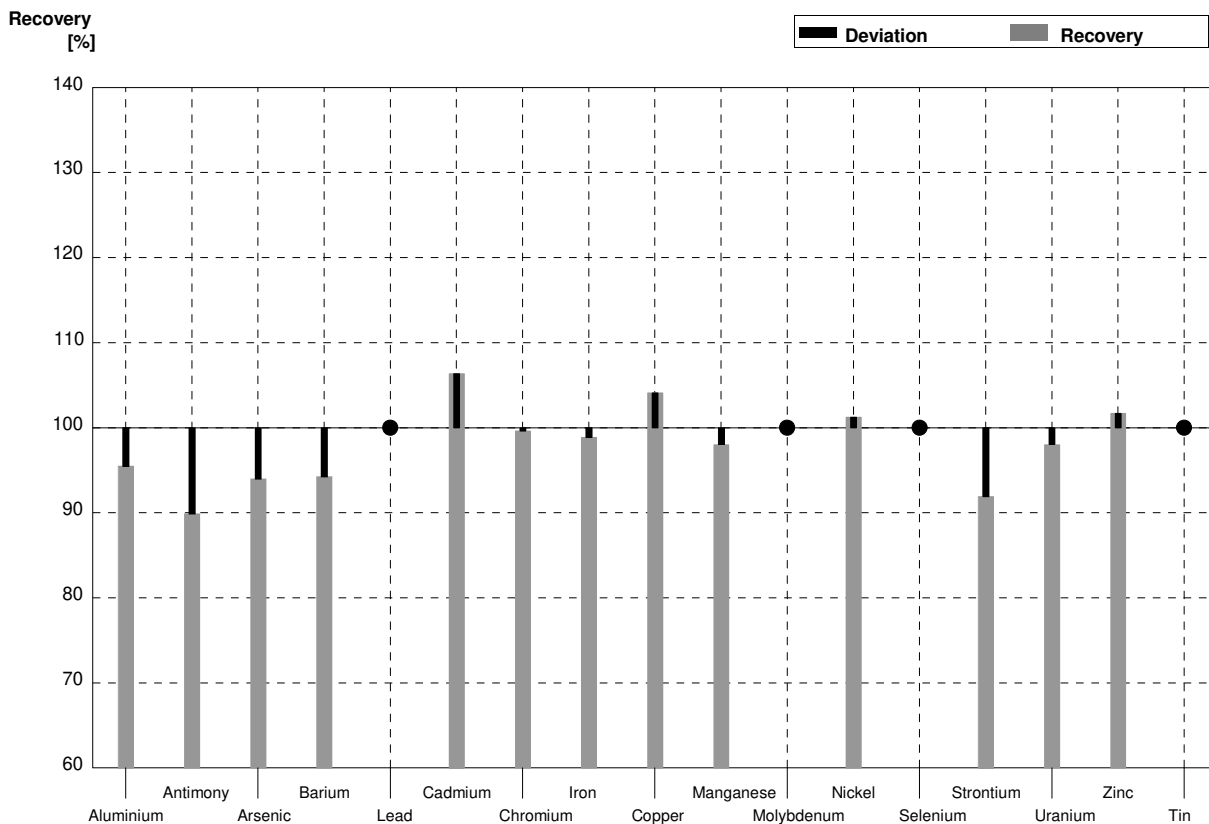
Sample M169B
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	38,0	3,80	µg/l	98%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,50	0,420	µg/l	110%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	4,10	0,328	µg/l	105%
Cadmium	1,169	0,011	1,21	0,0968	µg/l	104%
Chromium	0,752	0,010	0,80	0,096	µg/l	106%
Iron	59,8	0,3	63,0	16,4	µg/l	105%
Copper	8,02	0,06	8,10	0,648	µg/l	101%
Manganese	8,9	0,3	9,0	0,90	µg/l	101%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,80	0,280	µg/l	99%
Selenium	2,63	0,03	2,80	0,420	µg/l	106%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,54	0,127	µg/l	102%
Zinc	14,9	0,4	16,0	1,60	µg/l	107%
Tin	1,03	0,03			µg/l	



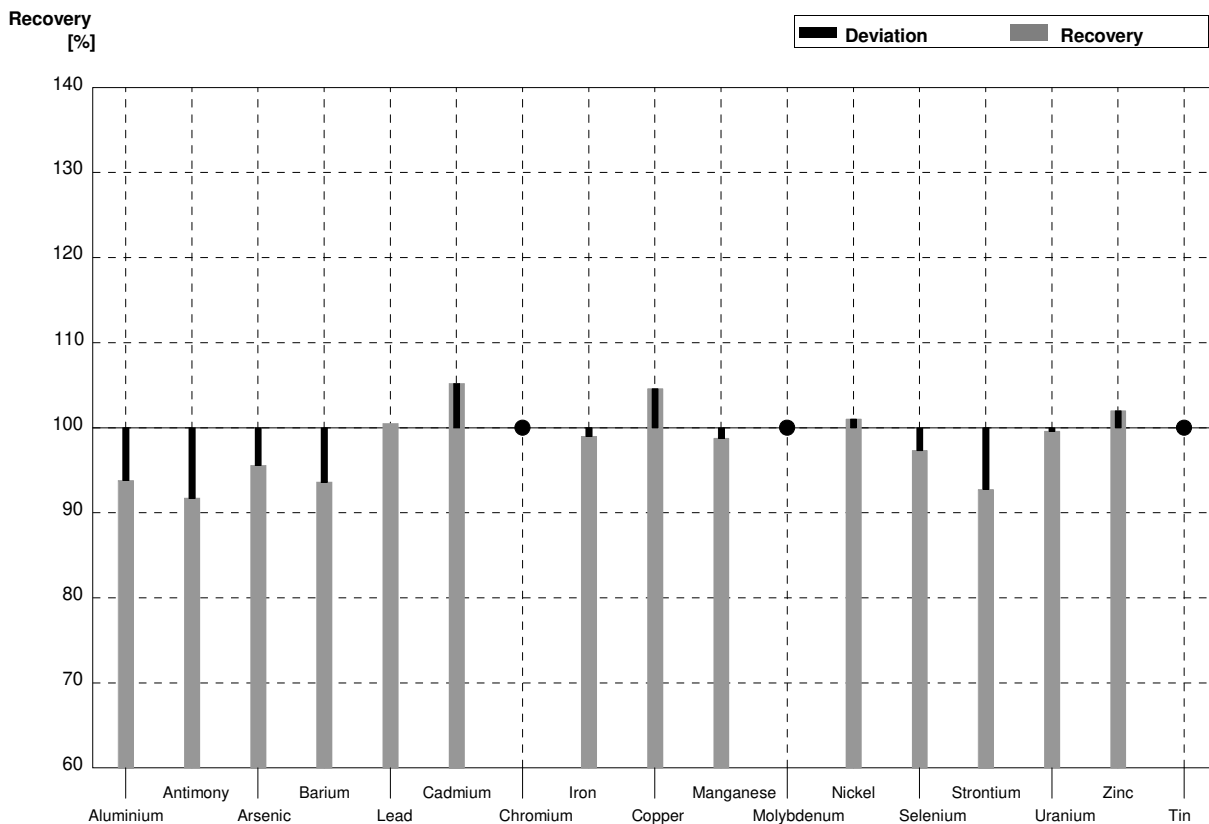
Sample M169A
Laboratory W

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,0	1,70	µg/l	96%
Antimony	0,89	0,05	0,80	0,064	µg/l	90%
Arsenic	1,830	0,016	1,72	0,224	µg/l	94%
Barium	15,81	0,12	14,9	1,04	µg/l	94%
Lead	0,579	0,012	<1,0		µg/l	•
Cadmium	0,517	0,007	0,55	0,072	µg/l	106%
Chromium	5,52	0,05	5,5	0,55	µg/l	100%
Iron	36,0	0,2	35,6	3,92	µg/l	99%
Copper	3,63	0,04	3,78	0,491	µg/l	104%
Manganese	40,9	0,3	40,1	2,81	µg/l	98%
Molybdenum	2,14	0,23	<10		µg/l	•
Nickel	1,60	0,03	1,62	0,203	µg/l	101%
Selenium	0,790	0,018	<1,0		µg/l	•
Strontium	694	6	638	64	µg/l	92%
Uranium	7,65	0,07	7,5	0,86	µg/l	98%
Zinc	29,4	0,6	29,9	3,89	µg/l	102%
Tin	2,46	0,04	<5,0		µg/l	•



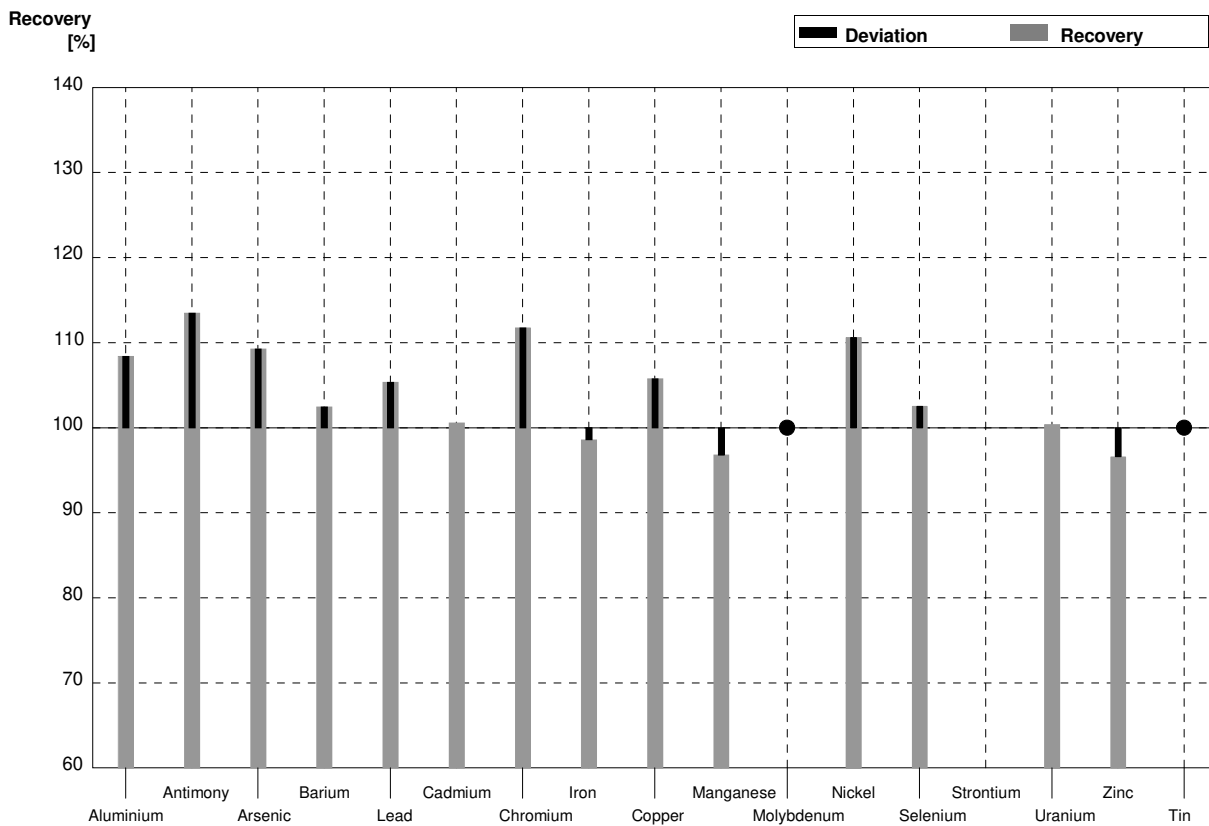
Sample M169B
Laboratory W

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,5	3,65	µg/l	94%
Antimony	1,57	0,06	1,44	0,115	µg/l	92%
Arsenic	3,18	0,03	3,04	0,395	µg/l	96%
Barium	37,92	0,17	35,5	2,49	µg/l	94%
Lead	3,91	0,03	3,93	0,55	µg/l	101%
Cadmium	1,169	0,011	1,23	0,16	µg/l	105%
Chromium	0,752	0,010	<1,0		µg/l	•
Iron	59,8	0,3	59,2	6,5	µg/l	99%
Copper	8,02	0,06	8,39	1,09	µg/l	105%
Manganese	8,9	0,3	8,79	0,62	µg/l	99%
Molybdenum	0,86	0,23	<10		µg/l	•
Nickel	2,84	0,04	2,87	0,359	µg/l	101%
Selenium	2,63	0,03	2,56	0,358	µg/l	97%
Strontium	360	3	334	33,4	µg/l	93%
Uranium	2,50	0,02	2,49	0,286	µg/l	100%
Zinc	14,9	0,4	15,2	1,98	µg/l	102%
Tin	1,03	0,03	<5,0		µg/l	•



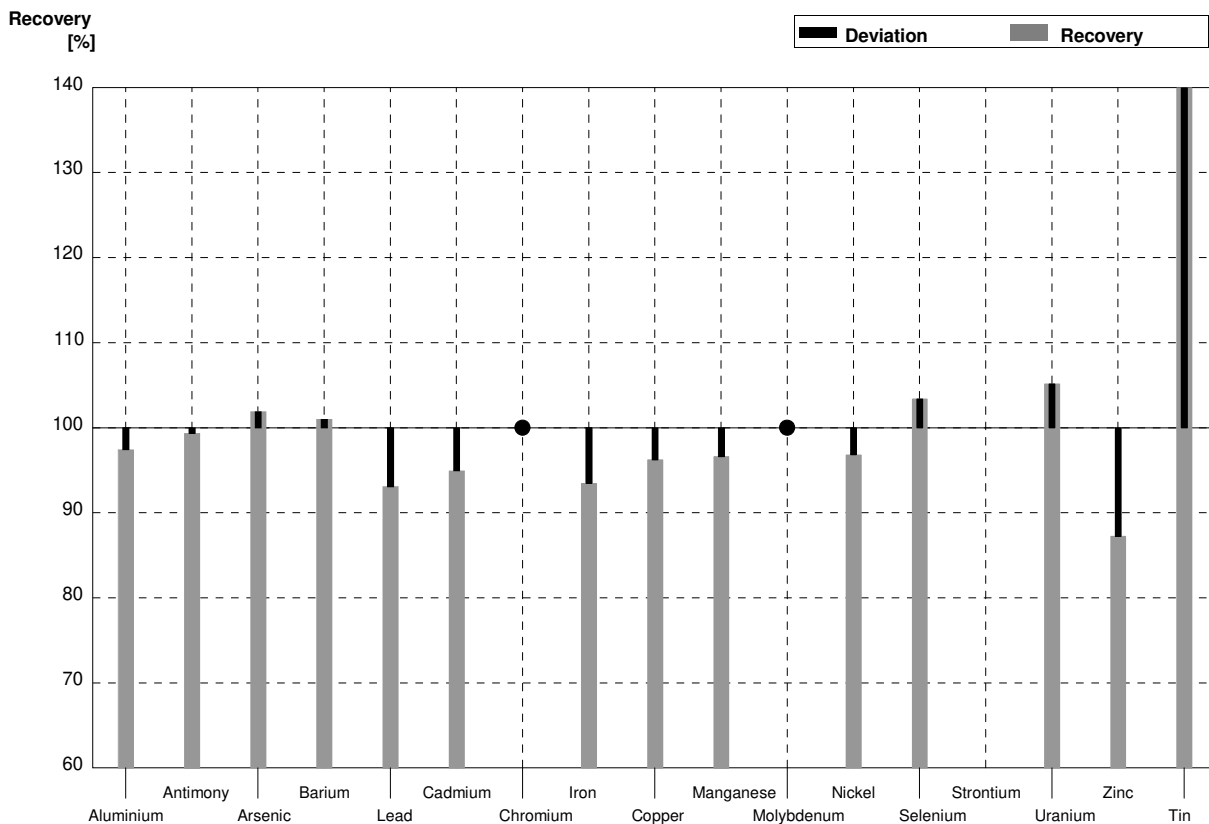
Sample M169A
Laboratory X

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	19,3	2,2	µg/l	108%
Antimony	0,89	0,05	1,01	0,31	µg/l	113%
Arsenic	1,830	0,016	2,00	0,30	µg/l	109%
Barium	15,81	0,12	16,2	0,8	µg/l	102%
Lead	0,579	0,012	0,61	0,18	µg/l	105%
Cadmium	0,517	0,007	0,52	0,09	µg/l	101%
Chromium	5,52	0,05	6,17	1,12	µg/l	112%
Iron	36,0	0,2	35,5	2,4	µg/l	99%
Copper	3,63	0,04	3,84	1,02	µg/l	106%
Manganese	40,9	0,3	39,6	0,9	µg/l	97%
Molybdenum	2,14	0,23	<5		µg/l	•
Nickel	1,60	0,03	1,77	0,21	µg/l	111%
Selenium	0,790	0,018	0,81	0,19	µg/l	103%
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,68	0,28	µg/l	100%
Zinc	29,4	0,6	28,4	1,9	µg/l	97%
Tin	2,46	0,04	<5		µg/l	•



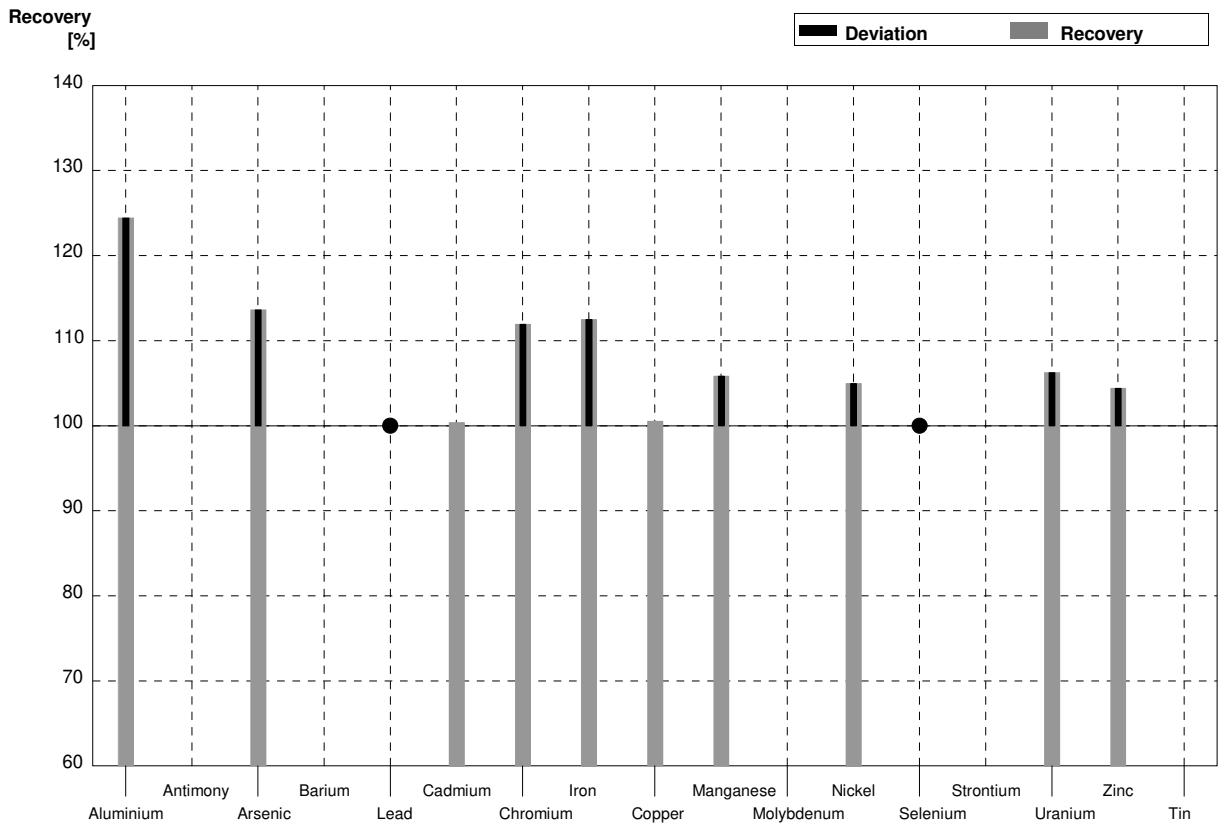
Sample M169B
Laboratory X

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	37,9	1,2	µg/l	97%
Antimony	1,57	0,06	1,56	0,3	µg/l	99%
Arsenic	3,18	0,03	3,24	0,21	µg/l	102%
Barium	37,92	0,17	38,3	0,8	µg/l	101%
Lead	3,91	0,03	3,64	0,13	µg/l	93%
Cadmium	1,169	0,011	1,11	0,1	µg/l	95%
Chromium	0,752	0,010	<5		µg/l	•
Iron	59,8	0,3	55,9	2,5	µg/l	93%
Copper	8,02	0,06	7,72	0,8	µg/l	96%
Manganese	8,9	0,3	8,6	0,5	µg/l	97%
Molybdenum	0,86	0,23	<5		µg/l	•
Nickel	2,84	0,04	2,75	0,1	µg/l	97%
Selenium	2,63	0,03	2,72	0,16	µg/l	103%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,63	0,4	µg/l	105%
Zinc	14,9	0,4	13,0	0,5	µg/l	87%
Tin	1,03	0,03	5,0		µg/l	485%



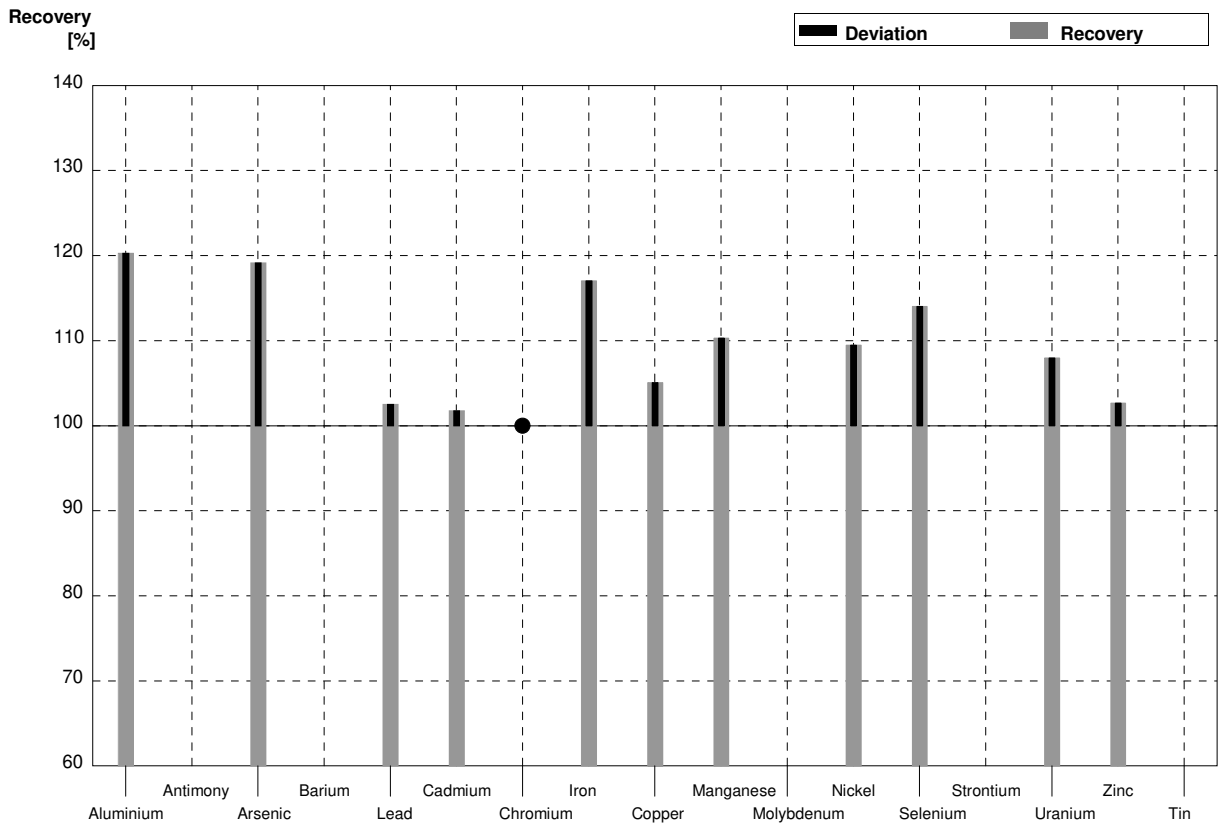
Sample M169A
Laboratory Y

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	22,15	3,32	µg/l	124%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	2,08	0,31	µg/l	114%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	<1		µg/l	•
Cadmium	0,517	0,007	0,519	0,078	µg/l	100%
Chromium	5,52	0,05	6,18	0,93	µg/l	112%
Iron	36,0	0,2	40,5	6,07	µg/l	113%
Copper	3,63	0,04	3,65	0,55	µg/l	101%
Manganese	40,9	0,3	43,3	6,49	µg/l	106%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,68	0,25	µg/l	105%
Selenium	0,790	0,018	<1		µg/l	•
Strontium	694	6			µg/l	
Uranium	7,65	0,07	8,13	1,21	µg/l	106%
Zinc	29,4	0,6	30,7	4,60	µg/l	104%
Tin	2,46	0,04			µg/l	



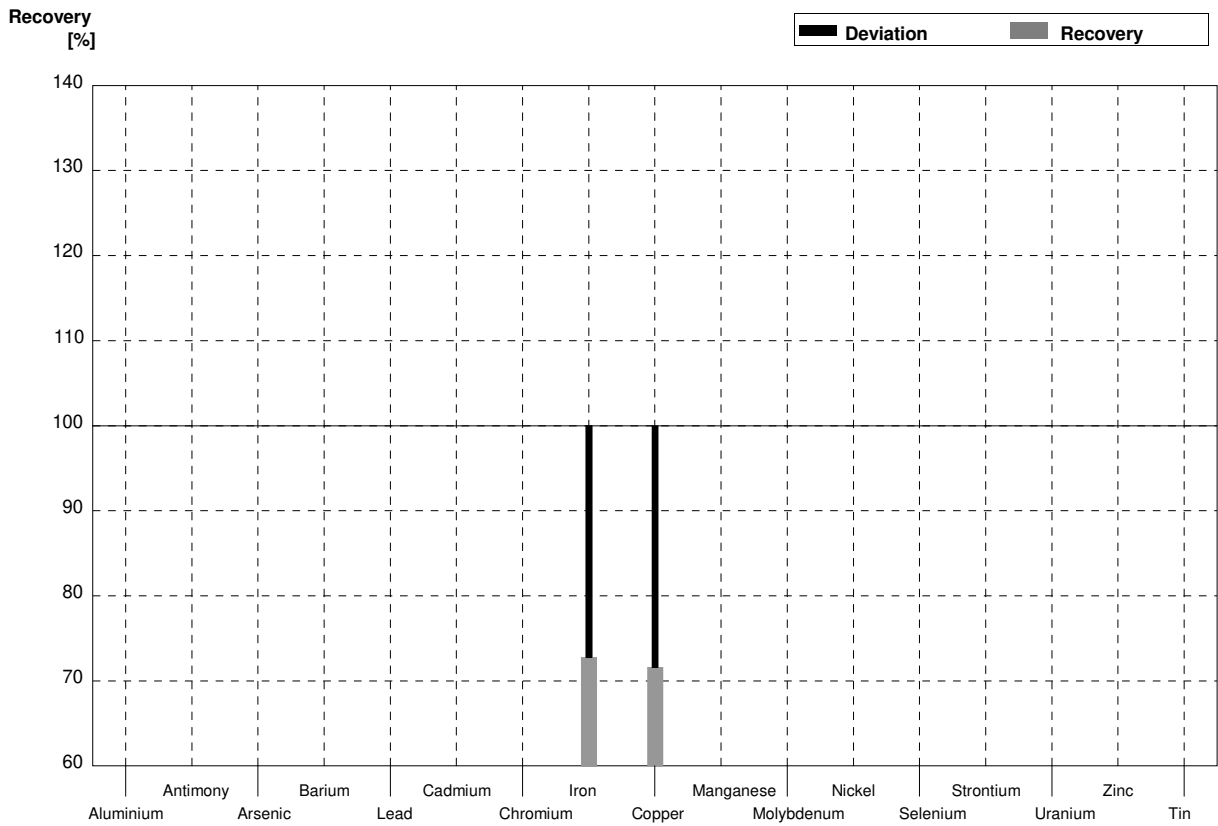
Sample M169B
Laboratory Y

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	46,8	7,02	µg/l	120%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,79	0,57	µg/l	119%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	4,01	0,60	µg/l	103%
Cadmium	1,169	0,011	1,19	0,18	µg/l	102%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	70,0	10,5	µg/l	117%
Copper	8,02	0,06	8,43	1,26	µg/l	105%
Manganese	8,9	0,3	9,82	1,47	µg/l	110%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	3,11	0,47	µg/l	110%
Selenium	2,63	0,03	3,00	0,45	µg/l	114%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,70	0,41	µg/l	108%
Zinc	14,9	0,4	15,3	2,30	µg/l	103%
Tin	1,03	0,03			µg/l	



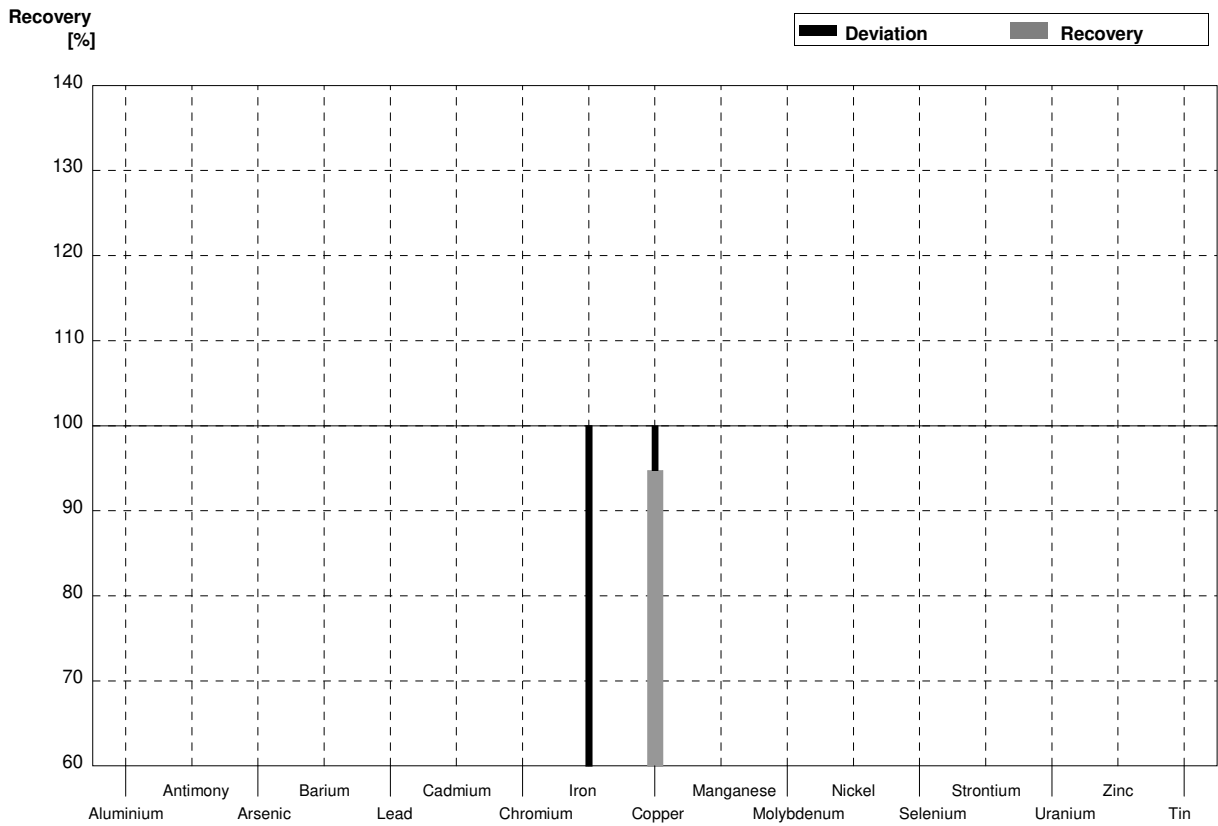
Sample M169A
Laboratory Z

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2	26,2	3	µg/l	73%
Copper	3,63	0,04	2,60	3	µg/l	72%
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04			µg/l	



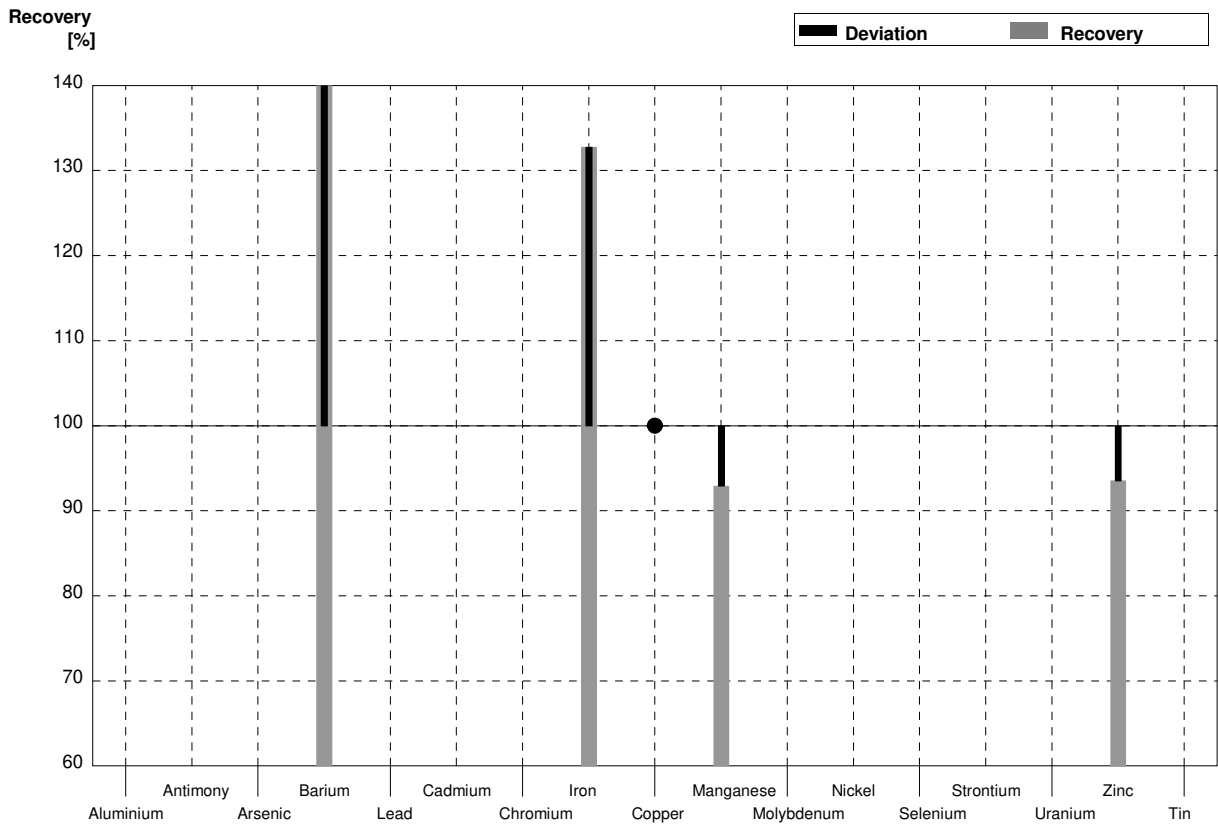
Sample M169B
Laboratory Z

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3	29,30	3	µg/l	49%
Copper	8,02	0,06	7,60	3	µg/l	95%
Manganese	8,9	0,3			µg/l	
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4			µg/l	
Tin	1,03	0,03			µg/l	



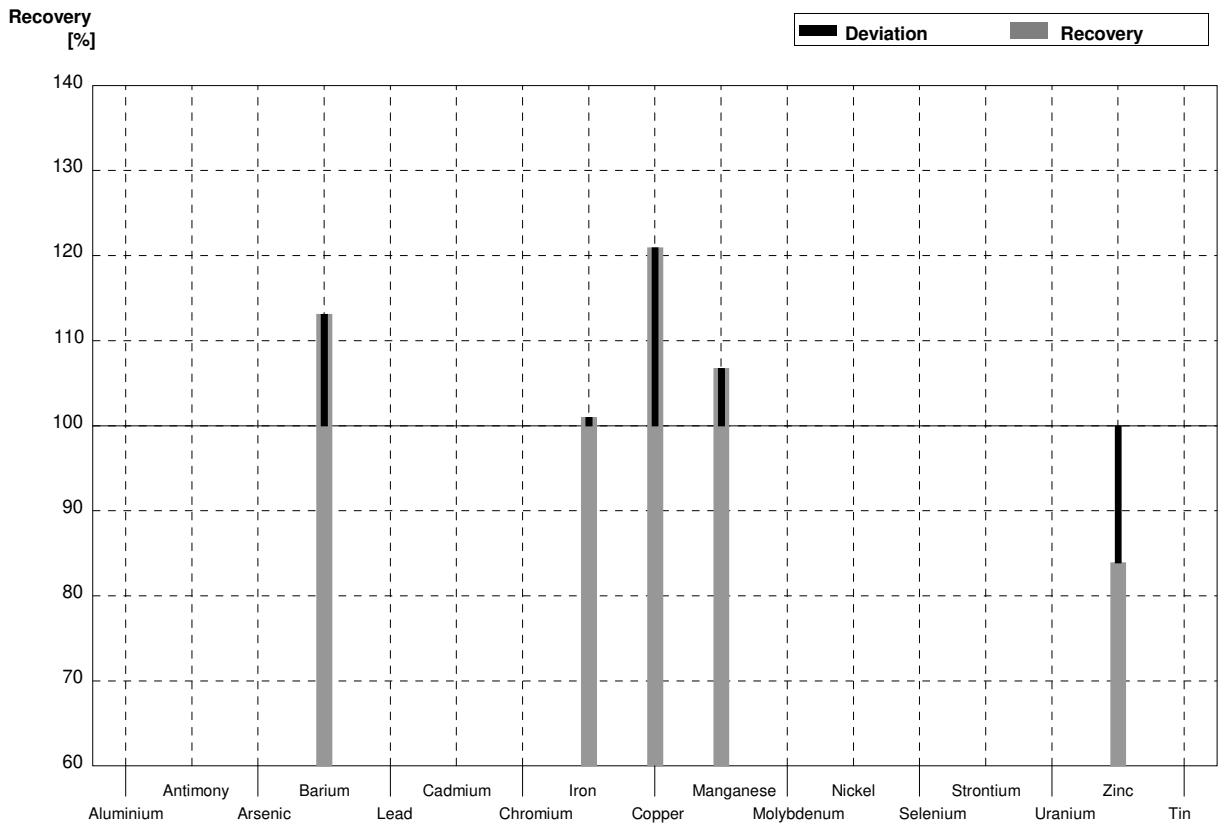
Sample M169A
Laboratory AA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12	31,1	4,35	µg/l	197%
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2	47,8	6,69	µg/l	133%
Copper	3,63	0,04	<5,00		µg/l	•
Manganese	40,9	0,3	38,0	5,32	µg/l	93%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	27,5	3,58	µg/l	94%
Tin	2,46	0,04			µg/l	



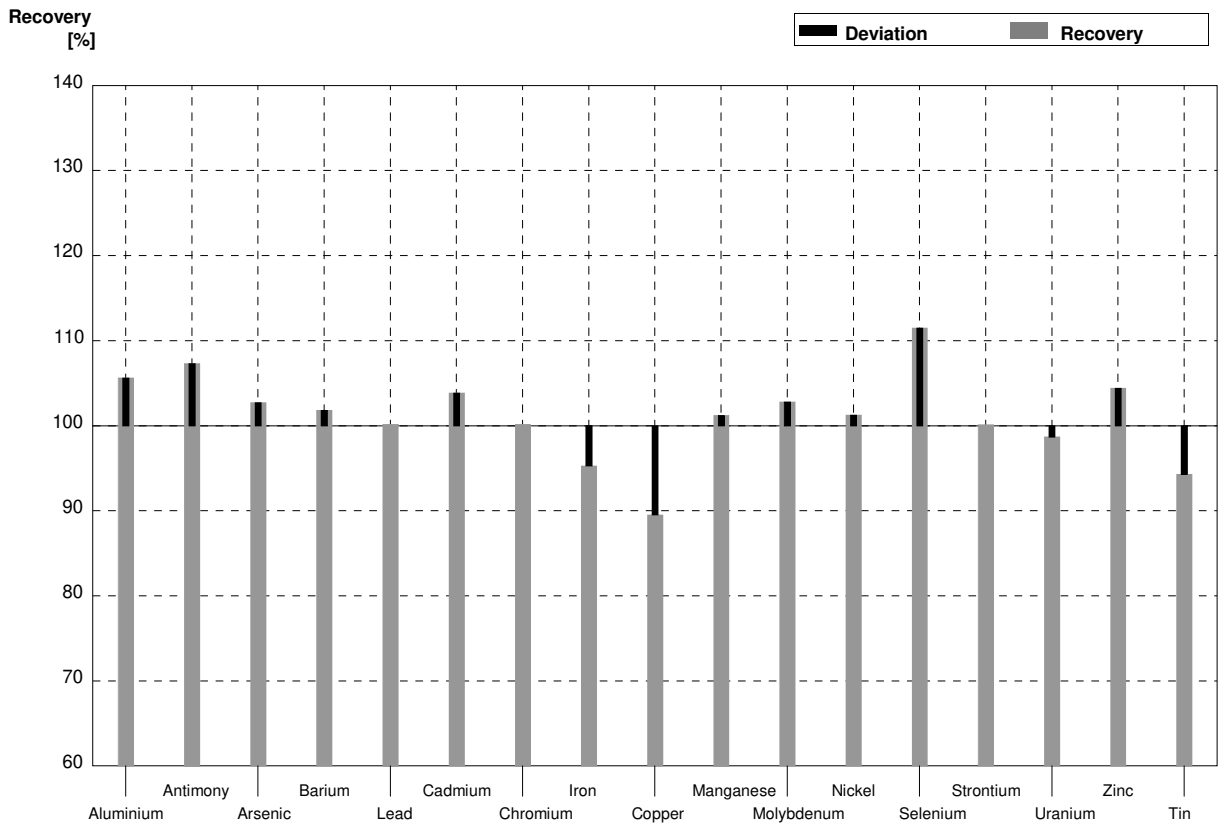
Sample M169B
Laboratory AA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17	42,9	6,01	µg/l	113%
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3	60,4	8,46	µg/l	101%
Copper	8,02	0,06	9,70	1,46	µg/l	121%
Manganese	8,9	0,3	9,50	1,33	µg/l	107%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	12,5	1,63	µg/l	84%
Tin	1,03	0,03			µg/l	



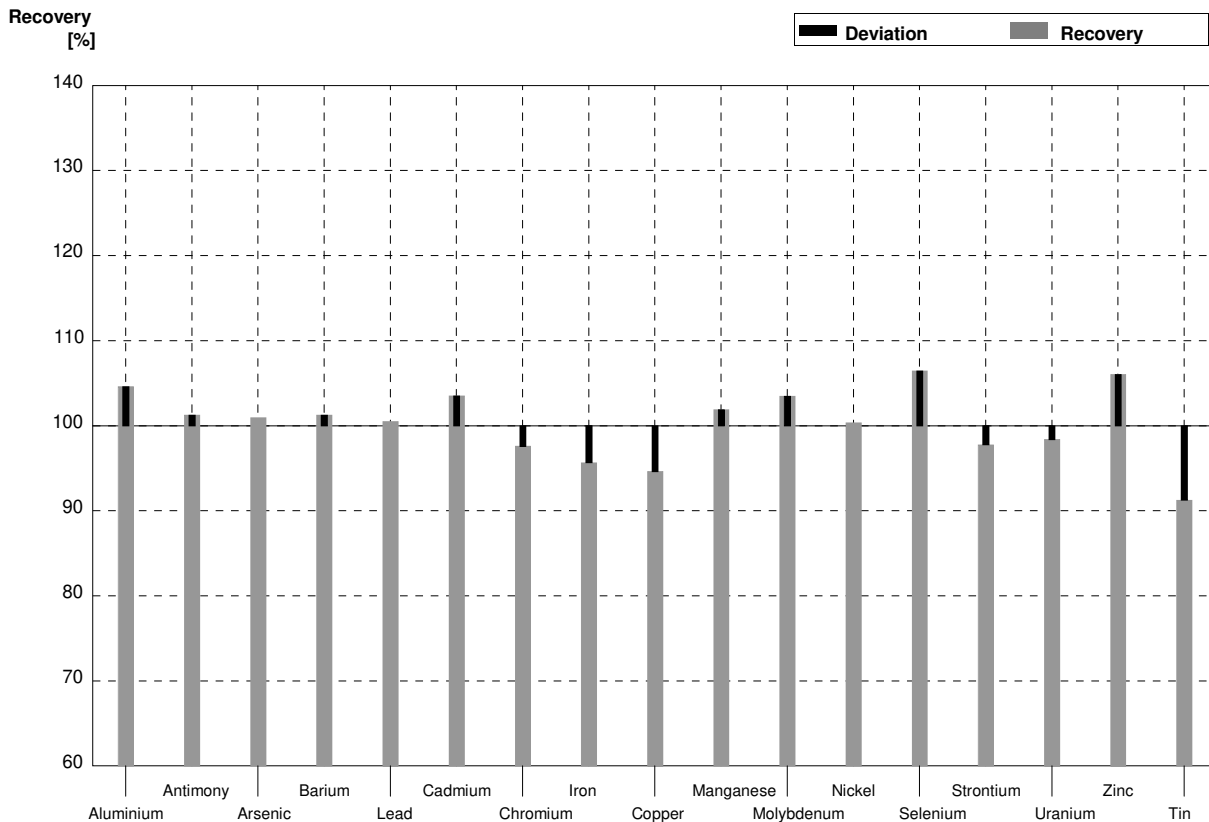
Sample M169A
Laboratory AB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,8		µg/l	106%
Antimony	0,89	0,05	0,955		µg/l	107%
Arsenic	1,830	0,016	1,88		µg/l	103%
Barium	15,81	0,12	16,1		µg/l	102%
Lead	0,579	0,012	0,580		µg/l	100%
Cadmium	0,517	0,007	0,537		µg/l	104%
Chromium	5,52	0,05	5,53		µg/l	100%
Iron	36,0	0,2	34,3		µg/l	95%
Copper	3,63	0,04	3,25		µg/l	90%
Manganese	40,9	0,3	41,4		µg/l	101%
Molybdenum	2,14	0,23	2,20		µg/l	103%
Nickel	1,60	0,03	1,62		µg/l	101%
Selenium	0,790	0,018	0,881		µg/l	112%
Strontium	694	6	695		µg/l	100%
Uranium	7,65	0,07	7,55		µg/l	99%
Zinc	29,4	0,6	30,7		µg/l	104%
Tin	2,46	0,04	2,32		µg/l	94%



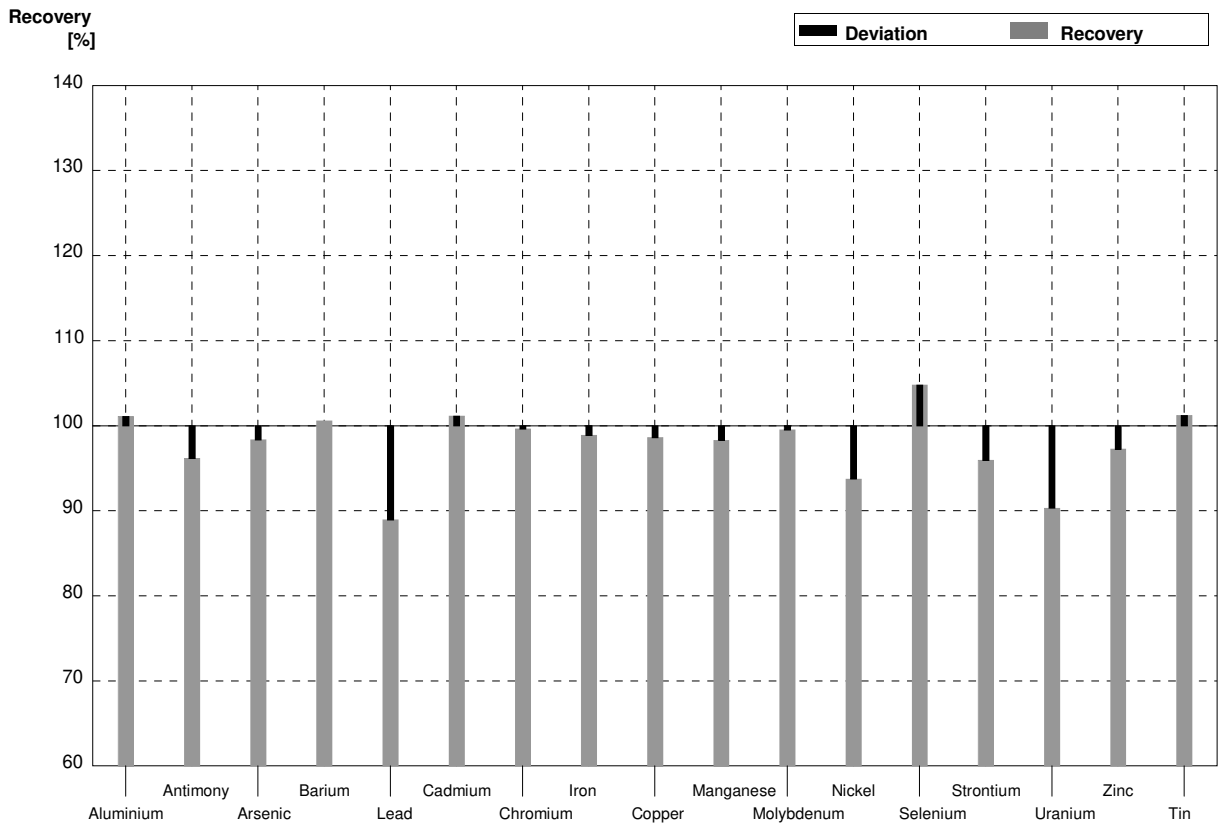
Sample M169B
Laboratory AB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,7		µg/l	105%
Antimony	1,57	0,06	1,59		µg/l	101%
Arsenic	3,18	0,03	3,21		µg/l	101%
Barium	37,92	0,17	38,4		µg/l	101%
Lead	3,91	0,03	3,93		µg/l	101%
Cadmium	1,169	0,011	1,21		µg/l	104%
Chromium	0,752	0,010	0,734		µg/l	98%
Iron	59,8	0,3	57,2		µg/l	96%
Copper	8,02	0,06	7,59		µg/l	95%
Manganese	8,9	0,3	9,07		µg/l	102%
Molybdenum	0,86	0,23	0,89		µg/l	103%
Nickel	2,84	0,04	2,85		µg/l	100%
Selenium	2,63	0,03	2,80		µg/l	106%
Strontium	360	3	352		µg/l	98%
Uranium	2,50	0,02	2,46		µg/l	98%
Zinc	14,9	0,4	15,8		µg/l	106%
Tin	1,03	0,03	0,94		µg/l	91%



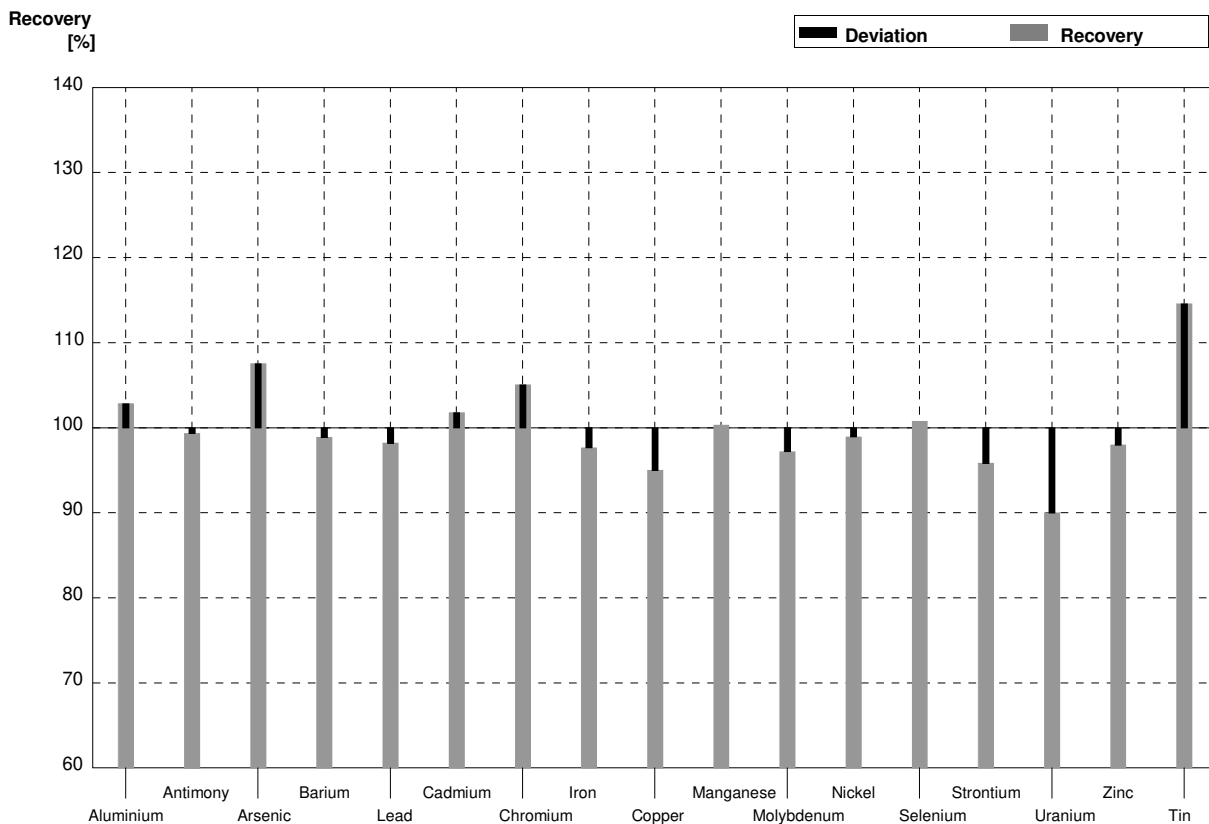
Sample M169A
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,0	0,14	µg/l	101%
Antimony	0,89	0,05	0,856	0,015	µg/l	96%
Arsenic	1,830	0,016	1,80	0,06	µg/l	98%
Barium	15,81	0,12	15,9	0,02	µg/l	101%
Lead	0,579	0,012	0,515	0,005	µg/l	89%
Cadmium	0,517	0,007	0,523	0,001	µg/l	101%
Chromium	5,52	0,05	5,50	0,089	µg/l	100%
Iron	36,0	0,2	35,6	0,252	µg/l	99%
Copper	3,63	0,04	3,58	0,026	µg/l	99%
Manganese	40,9	0,3	40,2	0,38	µg/l	98%
Molybdenum	2,14	0,23	2,13	0,014	µg/l	100%
Nickel	1,60	0,03	1,50	0,021	µg/l	94%
Selenium	0,790	0,018	0,828	0,030	µg/l	105%
Strontium	694	6	666	9,8	µg/l	96%
Uranium	7,65	0,07	6,91	0,057	µg/l	90%
Zinc	29,4	0,6	28,6	0,252	µg/l	97%
Tin	2,46	0,04	2,49	0,021	µg/l	101%



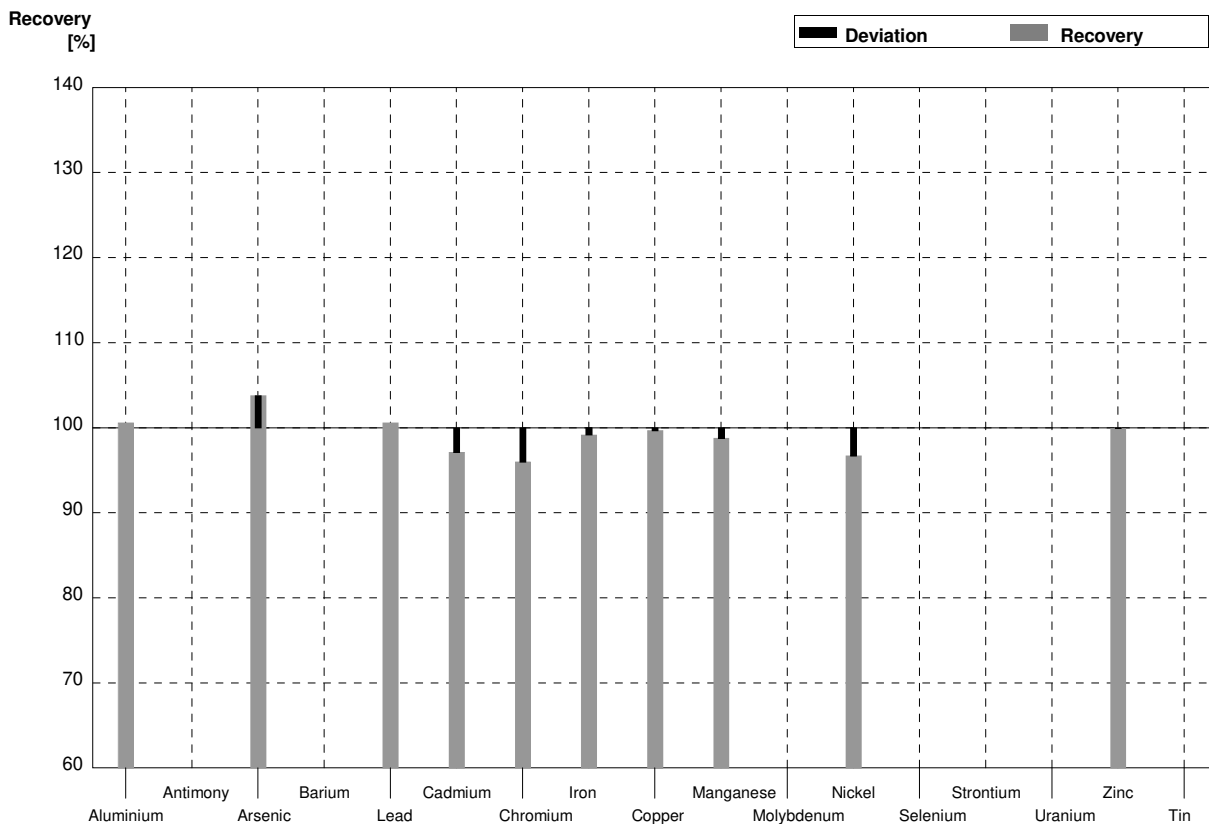
Sample M169B
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,0	0,57	µg/l	103%
Antimony	1,57	0,06	1,56	0,025	µg/l	99%
Arsenic	3,18	0,03	3,42	0,06	µg/l	108%
Barium	37,92	0,17	37,5	0,21	µg/l	99%
Lead	3,91	0,03	3,84	0,012	µg/l	98%
Cadmium	1,169	0,011	1,19	0,021	µg/l	102%
Chromium	0,752	0,010	0,790	0,018	µg/l	105%
Iron	59,8	0,3	58,4	0,153	µg/l	98%
Copper	8,02	0,06	7,62	0,099	µg/l	95%
Manganese	8,9	0,3	8,93	0,035	µg/l	100%
Molybdenum	0,86	0,23	0,836	0,015	µg/l	97%
Nickel	2,84	0,04	2,81	0,035	µg/l	99%
Selenium	2,63	0,03	2,65	0,020	µg/l	101%
Strontium	360	3	345	0,71	µg/l	96%
Uranium	2,50	0,02	2,25	0,025	µg/l	90%
Zinc	14,9	0,4	14,6	0,212	µg/l	98%
Tin	1,03	0,03	1,18	0,040	µg/l	115%



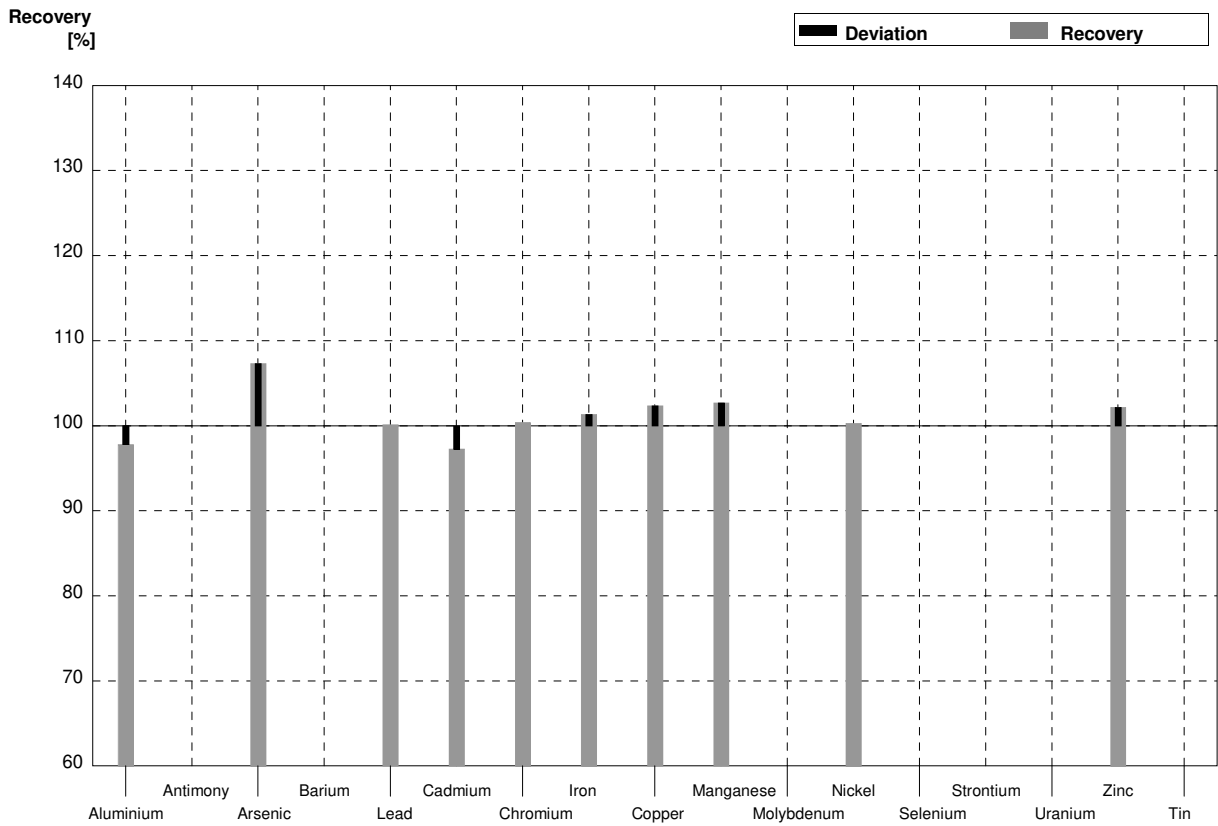
Sample M169A
Laboratory AD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,90		µg/l	101%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	1,899		µg/l	104%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	0,5823		µg/l	101%
Cadmium	0,517	0,007	0,5021		µg/l	97%
Chromium	5,52	0,05	5,299		µg/l	96%
Iron	36,0	0,2	35,70		µg/l	99%
Copper	3,63	0,04	3,618		µg/l	100%
Manganese	40,9	0,3	40,40		µg/l	99%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,547		µg/l	97%
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	29,38		µg/l	100%
Tin	2,46	0,04			µg/l	



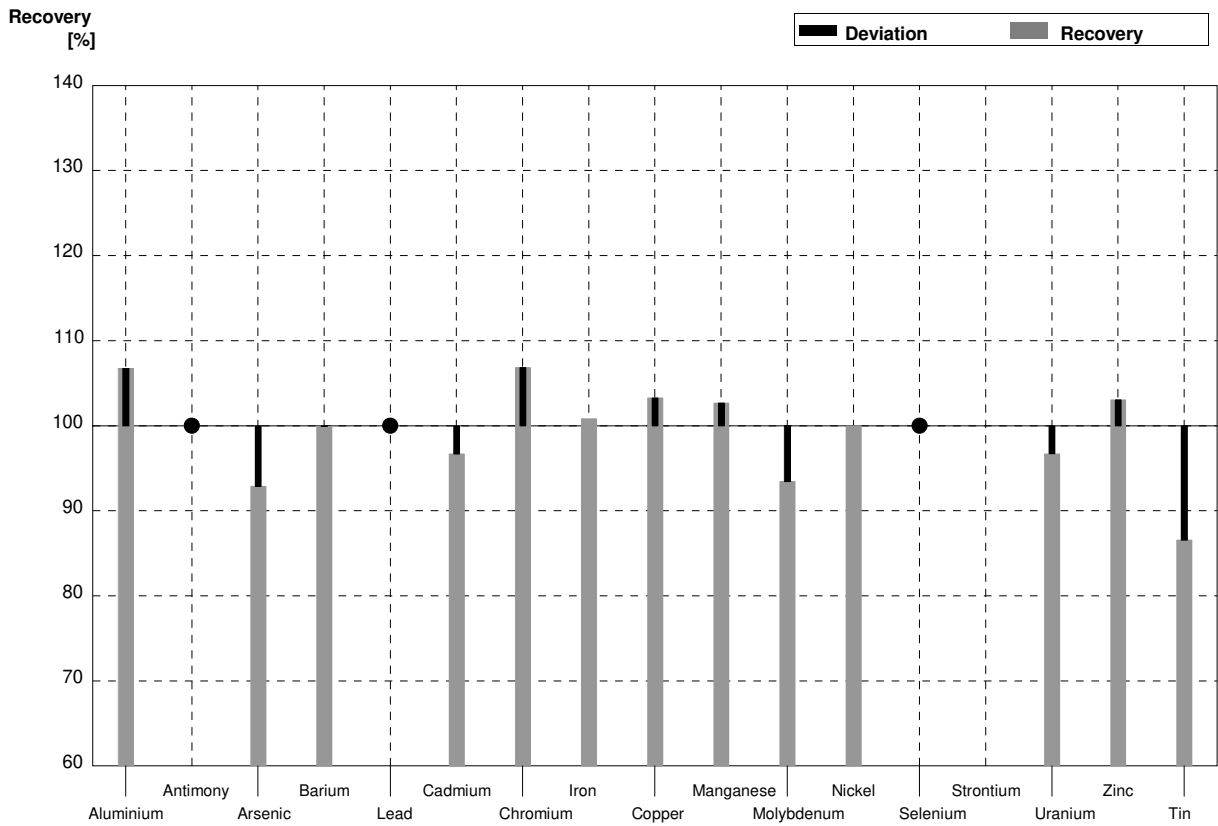
Sample M169B
Laboratory AD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	38,05		µg/l	98%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,413		µg/l	107%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,915		µg/l	100%
Cadmium	1,169	0,011	1,137		µg/l	97%
Chromium	0,752	0,010	0,7549		µg/l	100%
Iron	59,8	0,3	60,60		µg/l	101%
Copper	8,02	0,06	8,207		µg/l	102%
Manganese	8,9	0,3	9,139		µg/l	103%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,848		µg/l	100%
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	15,22		µg/l	102%
Tin	1,03	0,03			µg/l	



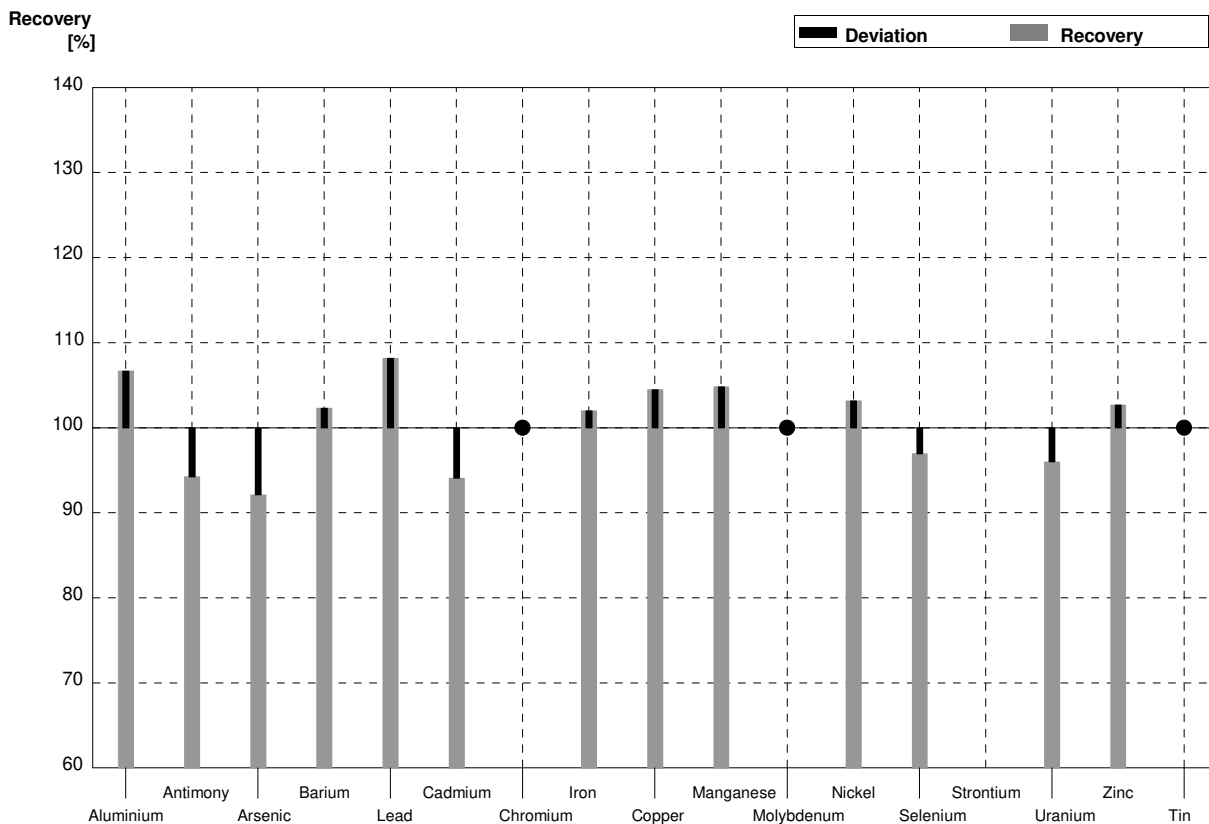
Sample M169A
Laboratory AE

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	19,0	3,8	µg/l	107%
Antimony	0,89	0,05	<1		µg/l	•
Arsenic	1,830	0,016	1,70	0,34	µg/l	93%
Barium	15,81	0,12	15,8	3,2	µg/l	100%
Lead	0,579	0,012	<1		µg/l	•
Cadmium	0,517	0,007	0,500	0,1	µg/l	97%
Chromium	5,52	0,05	5,90	1,2	µg/l	107%
Iron	36,0	0,2	36,3	7,3	µg/l	101%
Copper	3,63	0,04	3,75	0,75	µg/l	103%
Manganese	40,9	0,3	42,0	8,4	µg/l	103%
Molybdenum	2,14	0,23	2,00	0,40	µg/l	93%
Nickel	1,60	0,03	1,60	0,32	µg/l	100%
Selenium	0,790	0,018	<1		µg/l	•
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,40	1,5	µg/l	97%
Zinc	29,4	0,6	30,3	6,1	µg/l	103%
Tin	2,46	0,04	2,13	0,43	µg/l	87%



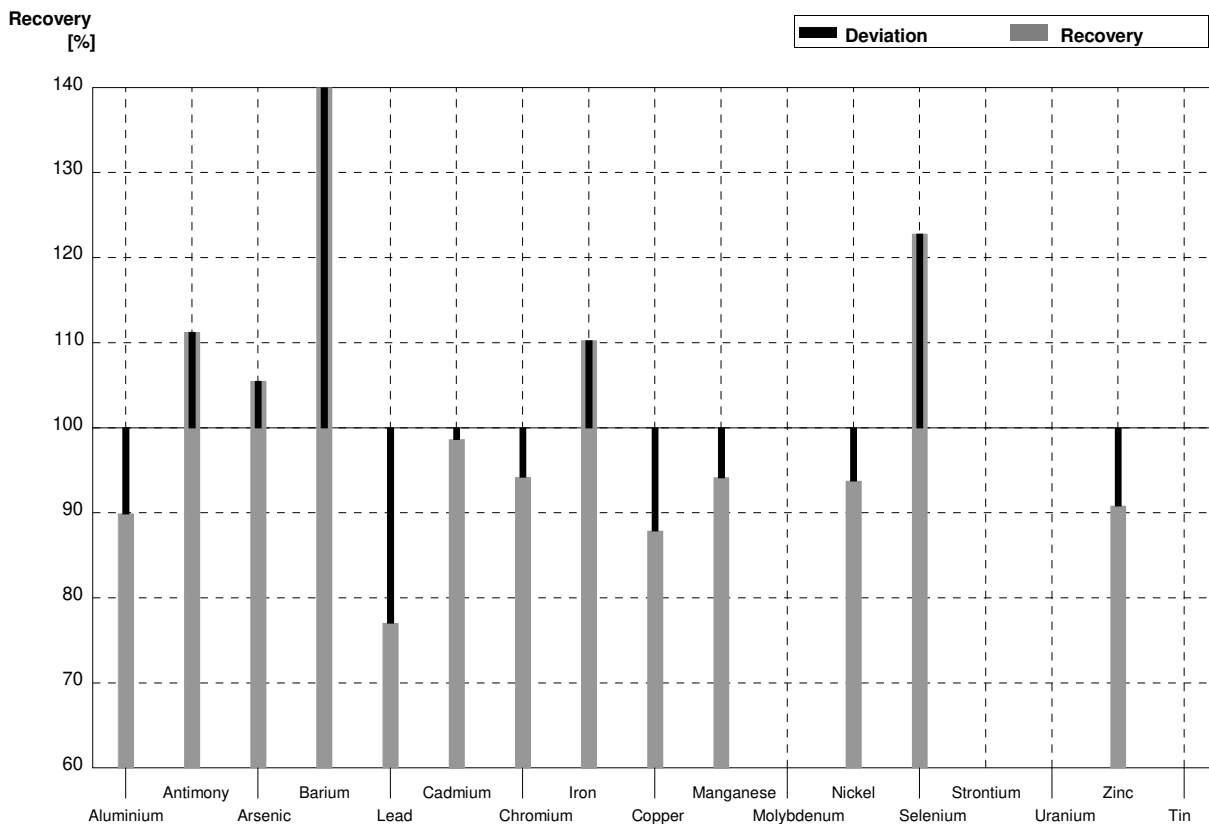
Sample M169B
Laboratory AE

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	41,5	8,3	µg/l	107%
Antimony	1,57	0,06	1,48	0,30	µg/l	94%
Arsenic	3,18	0,03	2,93	0,59	µg/l	92%
Barium	37,92	0,17	38,8	7,8	µg/l	102%
Lead	3,91	0,03	4,23	0,85	µg/l	108%
Cadmium	1,169	0,011	1,10	0,22	µg/l	94%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	61,0	12	µg/l	102%
Copper	8,02	0,06	8,38	1,7	µg/l	104%
Manganese	8,9	0,3	9,33	1,9	µg/l	105%
Molybdenum	0,86	0,23	<1		µg/l	•
Nickel	2,84	0,04	2,93	0,59	µg/l	103%
Selenium	2,63	0,03	2,55	0,51	µg/l	97%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,40	0,48	µg/l	96%
Zinc	14,9	0,4	15,3	3,1	µg/l	103%
Tin	1,03	0,03	<1		µg/l	FN



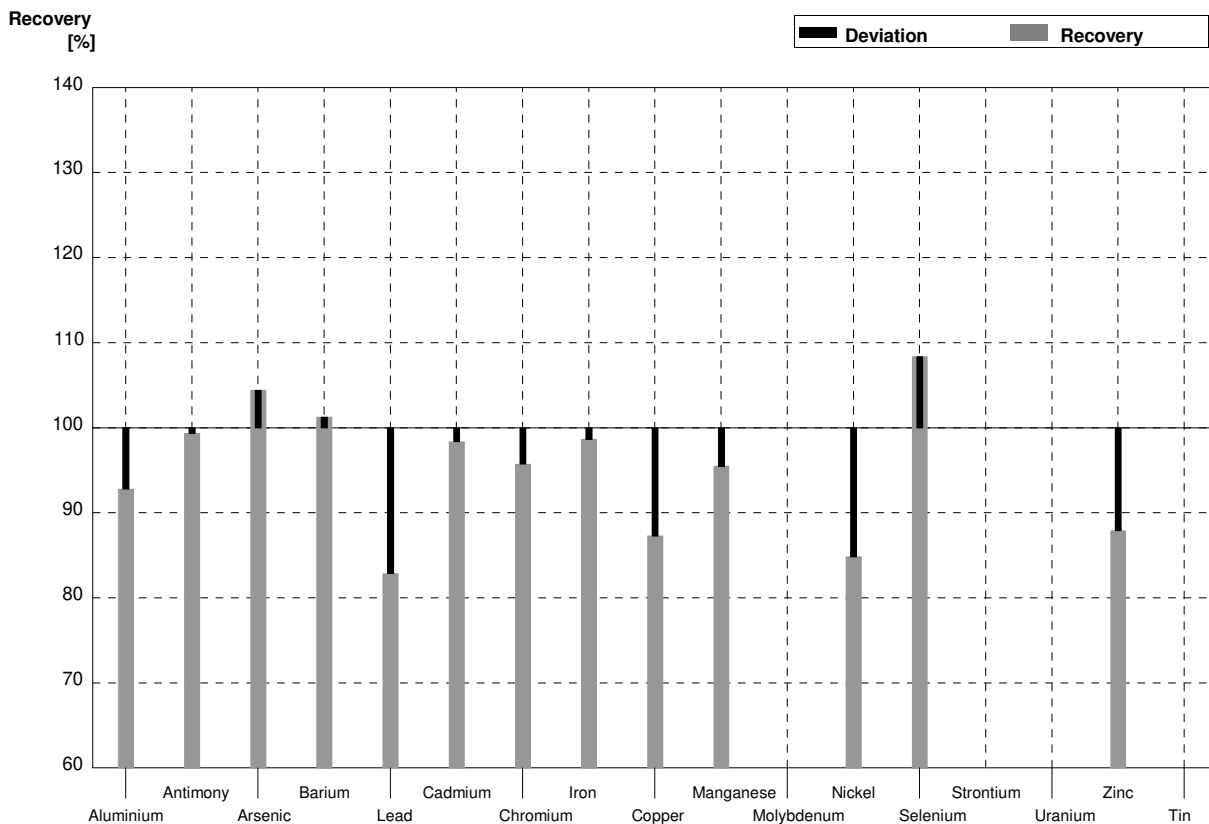
Sample M169A
Laboratory AF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,0	2,1	µg/l	90%
Antimony	0,89	0,05	0,99	0,28	µg/l	111%
Arsenic	1,830	0,016	1,93	0,51	µg/l	105%
Barium	15,81	0,12	26,0		µg/l	164%
Lead	0,579	0,012	0,446	0,120	µg/l	77%
Cadmium	0,517	0,007	0,51	0,06	µg/l	99%
Chromium	5,52	0,05	5,2	0,6	µg/l	94%
Iron	36,0	0,2	39,7	7,9	µg/l	110%
Copper	3,63	0,04	3,19	0,57	µg/l	88%
Manganese	40,9	0,3	38,5	5,0	µg/l	94%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,50	0,12	µg/l	94%
Selenium	0,790	0,018	0,97	0,14	µg/l	123%
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	26,7	4,9	µg/l	91%
Tin	2,46	0,04			µg/l	



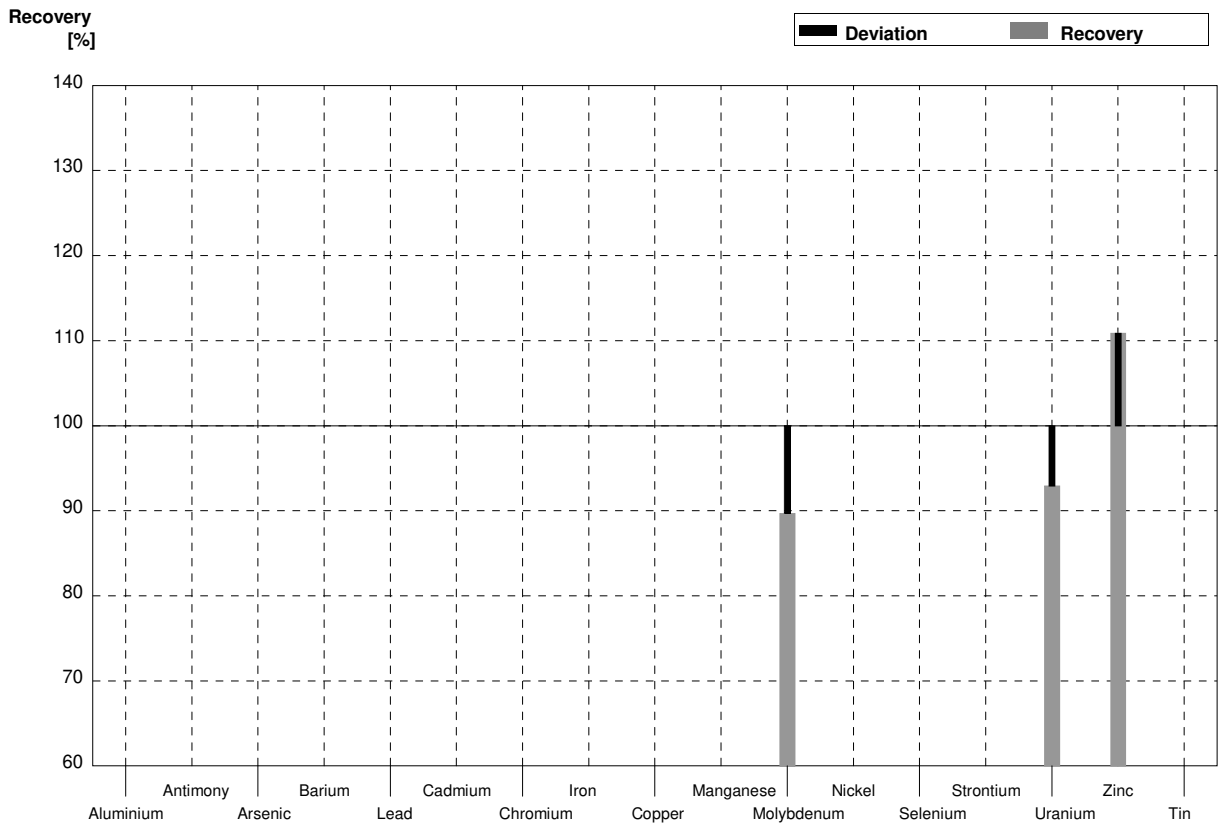
Sample M169B
Laboratory AF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,1	4,7	µg/l	93%
Antimony	1,57	0,06	1,56	0,44	µg/l	99%
Arsenic	3,18	0,03	3,32	0,88	µg/l	104%
Barium	37,92	0,17	38,4		µg/l	101%
Lead	3,91	0,03	3,24	0,87	µg/l	83%
Cadmium	1,169	0,011	1,15	0,14	µg/l	98%
Chromium	0,752	0,010	0,72	0,08	µg/l	96%
Iron	59,8	0,3	59	12	µg/l	99%
Copper	8,02	0,06	7,0	1,2	µg/l	87%
Manganese	8,9	0,3	8,5	1,1	µg/l	96%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,41	0,20	µg/l	85%
Selenium	2,63	0,03	2,85	0,40	µg/l	108%
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	13,1	2,4	µg/l	88%
Tin	1,03	0,03			µg/l	



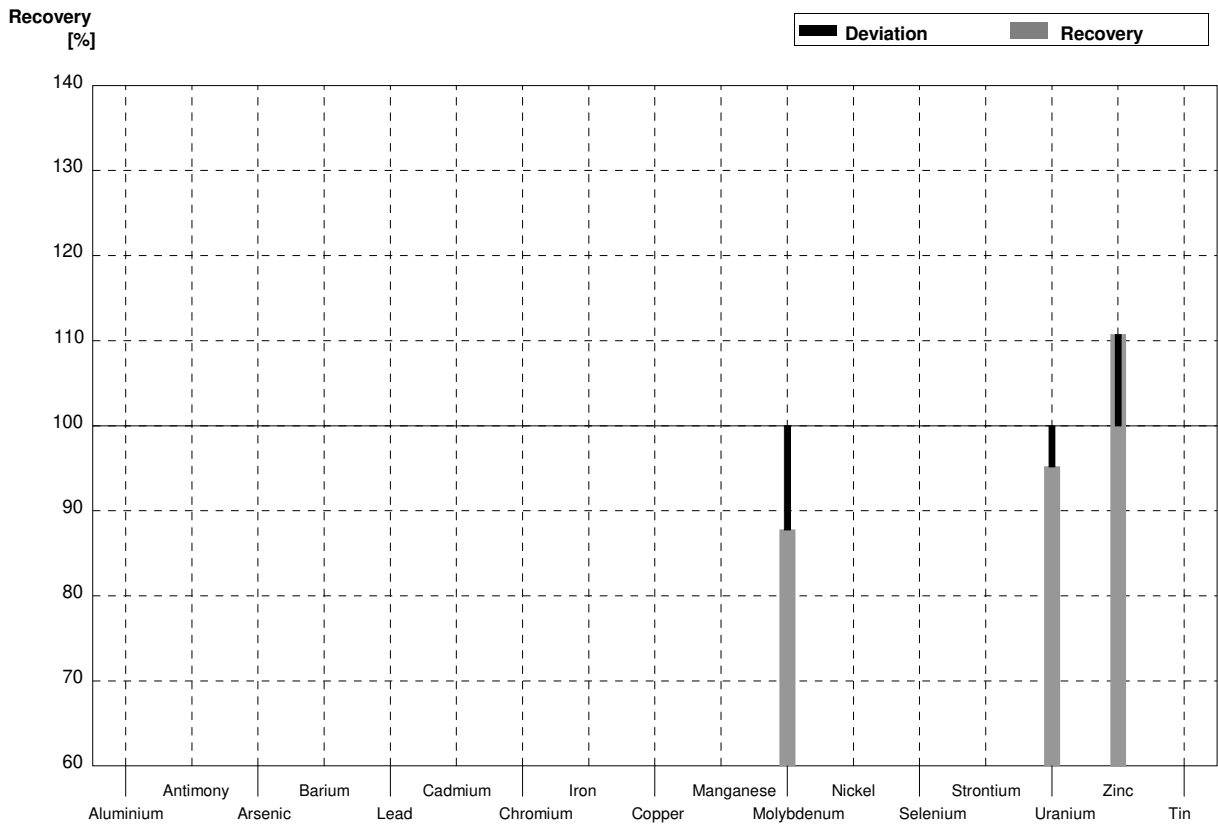
Sample M169A
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2			µg/l	
Copper	3,63	0,04			µg/l	
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23	1,92		µg/l	90%
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,11		µg/l	93%
Zinc	29,4	0,6	32,6		µg/l	111%
Tin	2,46	0,04			µg/l	



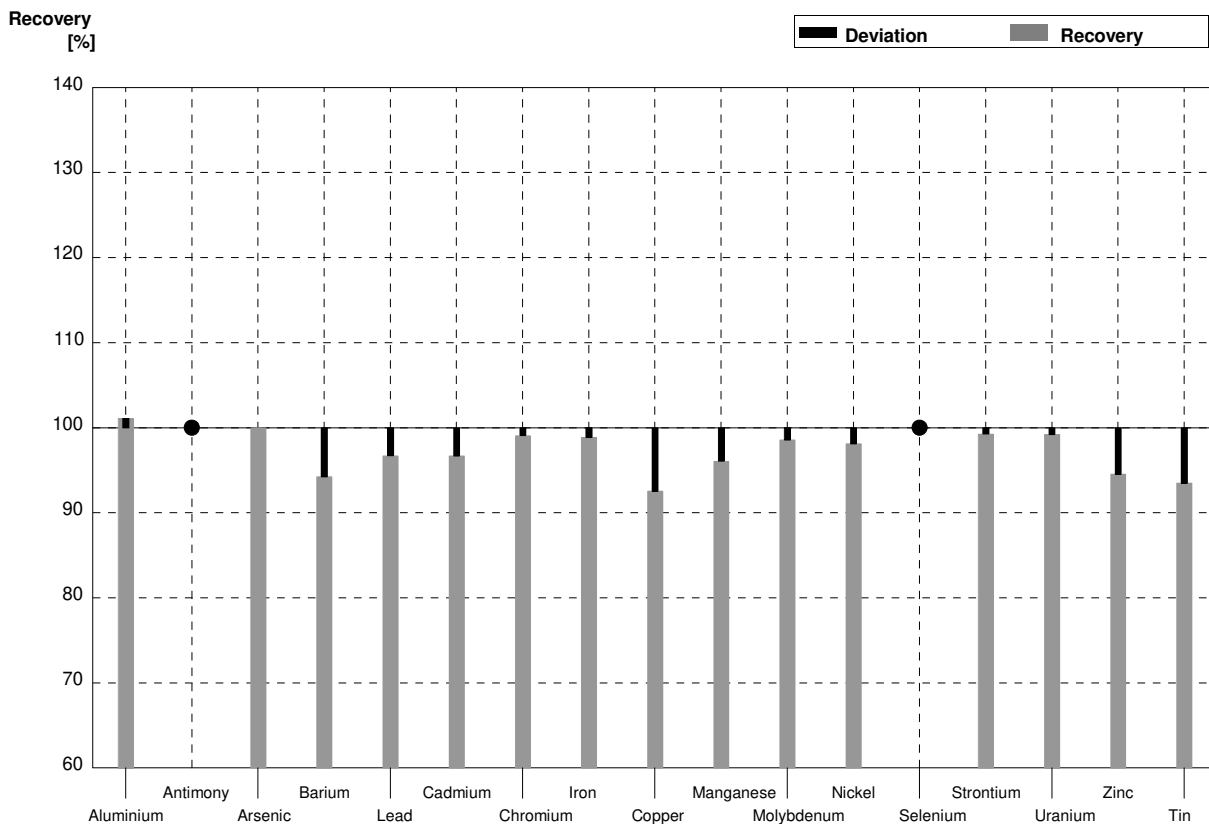
Sample M169B
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3			µg/l	
Copper	8,02	0,06			µg/l	
Manganese	8,9	0,3			µg/l	
Molybdenum	0,86	0,23	0,755		µg/l	88%
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,38		µg/l	95%
Zinc	14,9	0,4	16,5		µg/l	111%
Tin	1,03	0,03			µg/l	



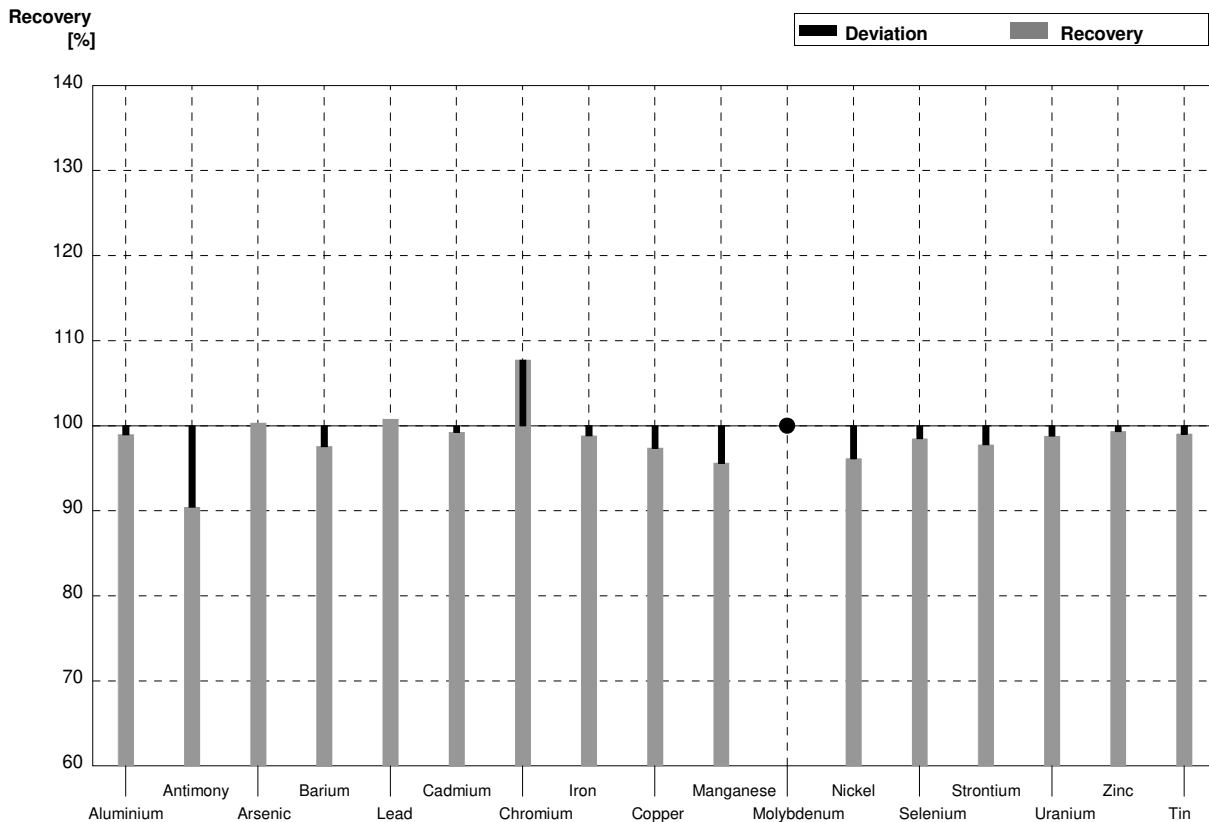
Sample M169A
Laboratory AH

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,0	3,24	µg/l	101%
Antimony	0,89	0,05	<1		µg/l	•
Arsenic	1,830	0,016	1,83	0,329	µg/l	100%
Barium	15,81	0,12	14,9	2,68	µg/l	94%
Lead	0,579	0,012	0,56	0,101	µg/l	97%
Cadmium	0,517	0,007	0,50	0,09	µg/l	97%
Chromium	5,52	0,05	5,47	0,985	µg/l	99%
Iron	36,0	0,2	35,6	6,41	µg/l	99%
Copper	3,63	0,04	3,36	0,605	µg/l	93%
Manganese	40,9	0,3	39,3	7,07	µg/l	96%
Molybdenum	2,14	0,23	2,11	0,38	µg/l	99%
Nickel	1,60	0,03	1,57	0,283	µg/l	98%
Selenium	0,790	0,018	<1		µg/l	•
Strontium	694	6	689	124	µg/l	99%
Uranium	7,65	0,07	7,59	1,37	µg/l	99%
Zinc	29,4	0,6	27,8	5	µg/l	95%
Tin	2,46	0,04	2,30	0,414	µg/l	93%



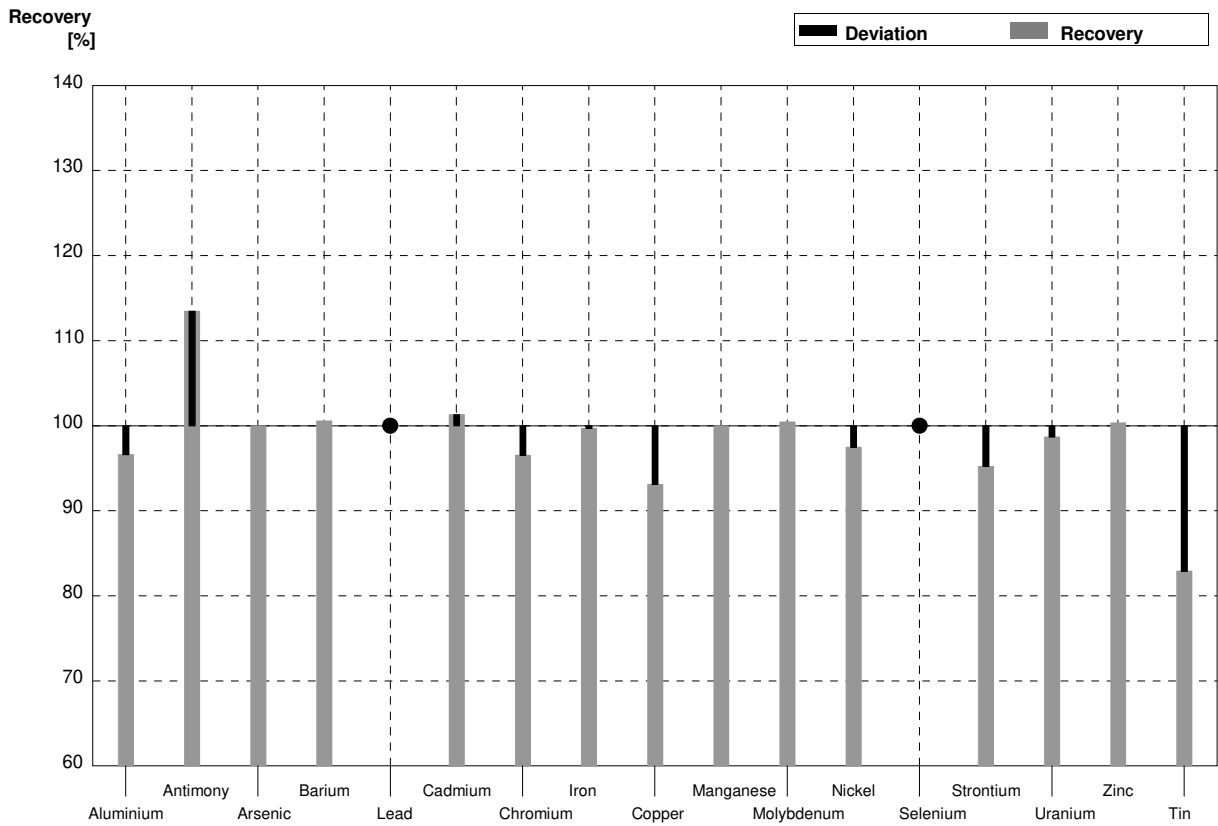
Sample M169B
Laboratory AH

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	38,5	6,93	µg/l	99%
Antimony	1,57	0,06	1,42	0,256	µg/l	90%
Arsenic	3,18	0,03	3,19	0,574	µg/l	100%
Barium	37,92	0,17	37,0	6,66	µg/l	98%
Lead	3,91	0,03	3,94	0,709	µg/l	101%
Cadmium	1,169	0,011	1,16	0,209	µg/l	99%
Chromium	0,752	0,010	0,81	0,146	µg/l	108%
Iron	59,8	0,3	59,1	10,6	µg/l	99%
Copper	8,02	0,06	7,81	1,41	µg/l	97%
Manganese	8,9	0,3	8,51	1,53	µg/l	96%
Molybdenum	0,86	0,23	<1		µg/l	•
Nickel	2,84	0,04	2,73	0,491	µg/l	96%
Selenium	2,63	0,03	2,59	0,466	µg/l	98%
Strontium	360	3	352	63,4	µg/l	98%
Uranium	2,50	0,02	2,47	0,445	µg/l	99%
Zinc	14,9	0,4	14,8	2,66	µg/l	99%
Tin	1,03	0,03	1,02	0,184	µg/l	99%



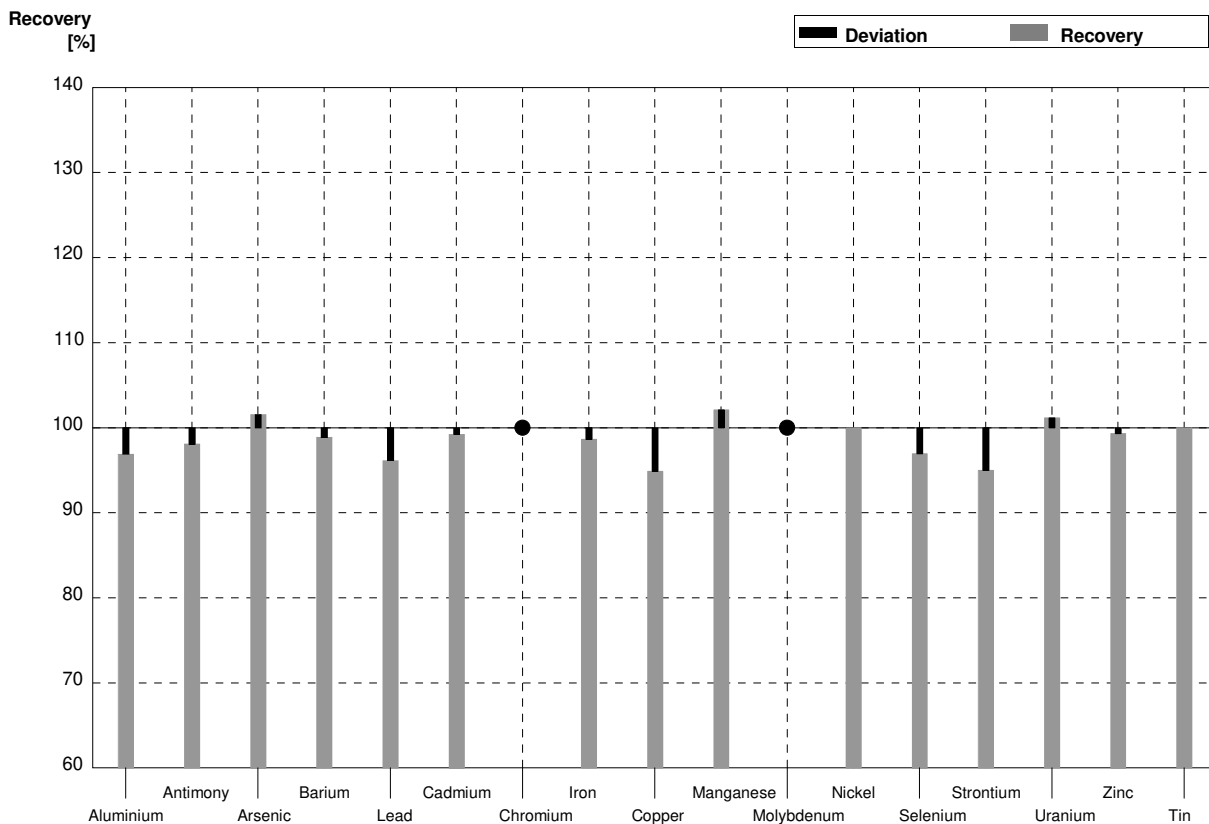
Sample M169A
Laboratory AI

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,2	3,4	µg/l	97%
Antimony	0,89	0,05	1,01	0,15	µg/l	113%
Arsenic	1,830	0,016	1,83	0,27	µg/l	100%
Barium	15,81	0,12	15,9	1,9	µg/l	101%
Lead	0,579	0,012	<1,0		µg/l	•
Cadmium	0,517	0,007	0,524	0,063	µg/l	101%
Chromium	5,52	0,05	5,33	0,80	µg/l	97%
Iron	36,0	0,2	35,9	5,4	µg/l	100%
Copper	3,63	0,04	3,38	0,41	µg/l	93%
Manganese	40,9	0,3	40,9	4,9	µg/l	100%
Molybdenum	2,14	0,23	2,15	0,26	µg/l	100%
Nickel	1,60	0,03	1,56	0,17	µg/l	98%
Selenium	0,790	0,018	<1,0		µg/l	•
Strontium	694	6	661	99,2	µg/l	95%
Uranium	7,65	0,07	7,55	1,1	µg/l	99%
Zinc	29,4	0,6	29,5	4,4	µg/l	100%
Tin	2,46	0,04	2,04	0,20	µg/l	83%



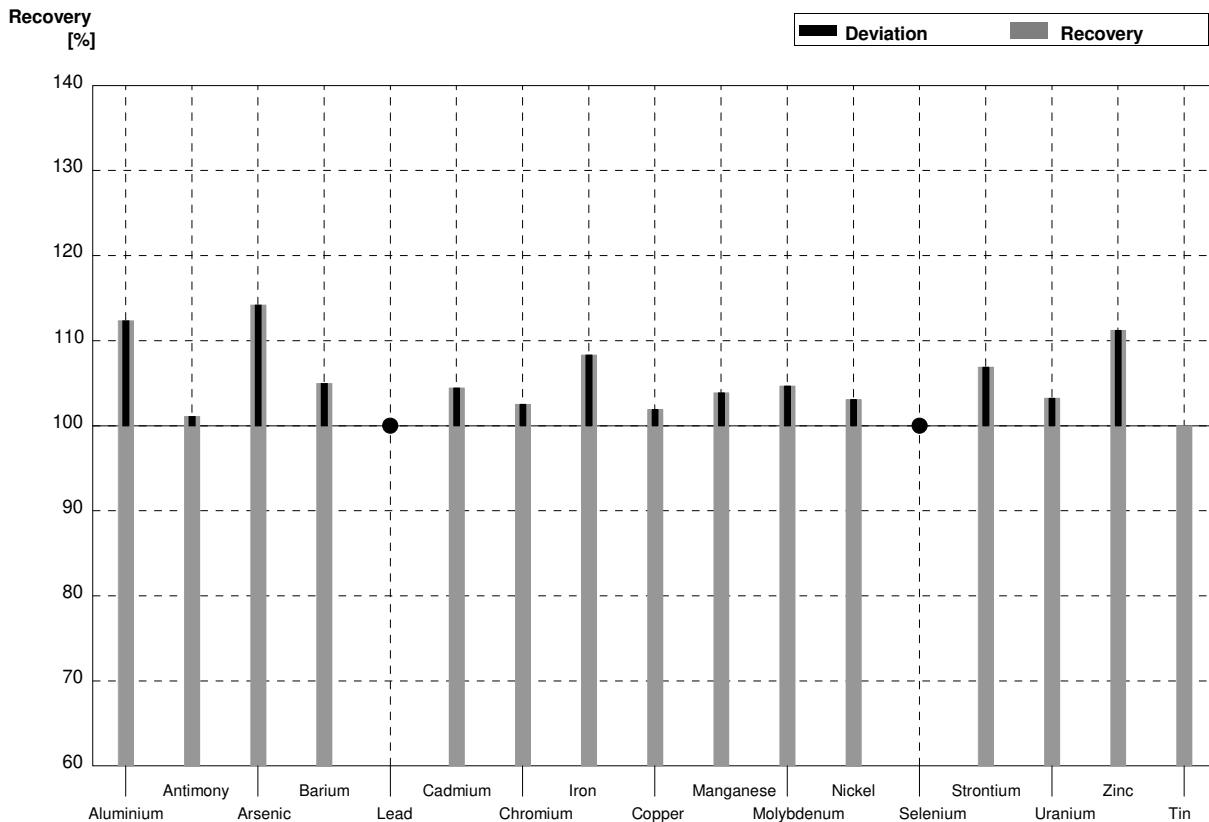
Sample M169B
Laboratory AI

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	37,7	7,5	µg/l	97%
Antimony	1,57	0,06	1,54	0,23	µg/l	98%
Arsenic	3,18	0,03	3,23	0,48	µg/l	102%
Barium	37,92	0,17	37,5	4,5	µg/l	99%
Lead	3,91	0,03	3,76	0,45	µg/l	96%
Cadmium	1,169	0,011	1,16	0,14	µg/l	99%
Chromium	0,752	0,010	<1,0		µg/l	•
Iron	59,8	0,3	59,0	8,9	µg/l	99%
Copper	8,02	0,06	7,61	0,91	µg/l	95%
Manganese	8,9	0,3	9,09	1,1	µg/l	102%
Molybdenum	0,86	0,23	<1,0		µg/l	•
Nickel	2,84	0,04	2,84	0,31	µg/l	100%
Selenium	2,63	0,03	2,55	0,38	µg/l	97%
Strontium	360	3	342	51	µg/l	95%
Uranium	2,50	0,02	2,53	0,38	µg/l	101%
Zinc	14,9	0,4	14,8	2,2	µg/l	99%
Tin	1,03	0,03	1,03	0,10	µg/l	100%



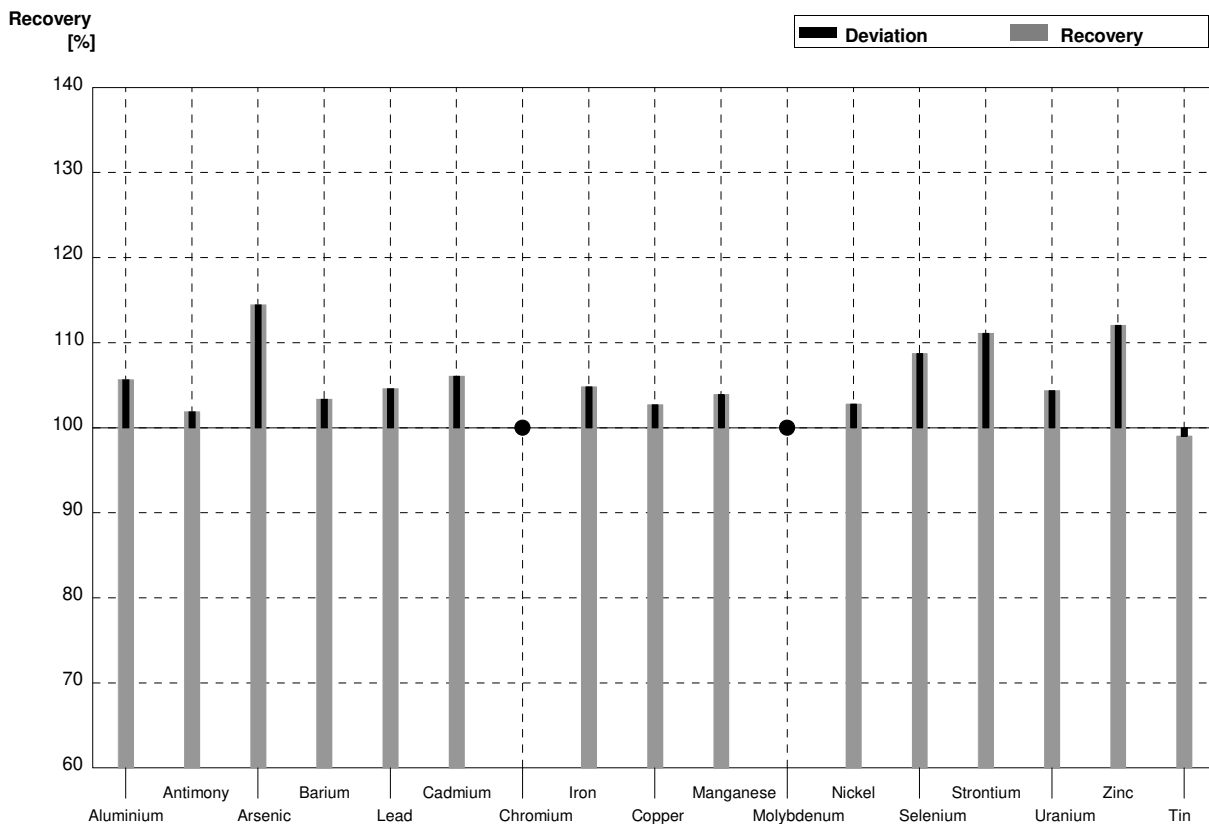
Sample M169A
Laboratory AJ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	20,0	3,0	µg/l	112%
Antimony	0,89	0,05	0,90	0,1	µg/l	101%
Arsenic	1,830	0,016	2,09	0,3	µg/l	114%
Barium	15,81	0,12	16,6	2,5	µg/l	105%
Lead	0,579	0,012	<1		µg/l	•
Cadmium	0,517	0,007	0,54	0,1	µg/l	104%
Chromium	5,52	0,05	5,66	0,8	µg/l	103%
Iron	36,0	0,2	39,0	5,9	µg/l	108%
Copper	3,63	0,04	3,70	0,6	µg/l	102%
Manganese	40,9	0,3	42,5	6,4	µg/l	104%
Molybdenum	2,14	0,23	2,24	0,3	µg/l	105%
Nickel	1,60	0,03	1,65	0,2	µg/l	103%
Selenium	0,790	0,018	<1		µg/l	•
Strontium	694	6	742	111	µg/l	107%
Uranium	7,65	0,07	7,9	1,2	µg/l	103%
Zinc	29,4	0,6	32,7	4,9	µg/l	111%
Tin	2,46	0,04	2,46	0,4	µg/l	100%



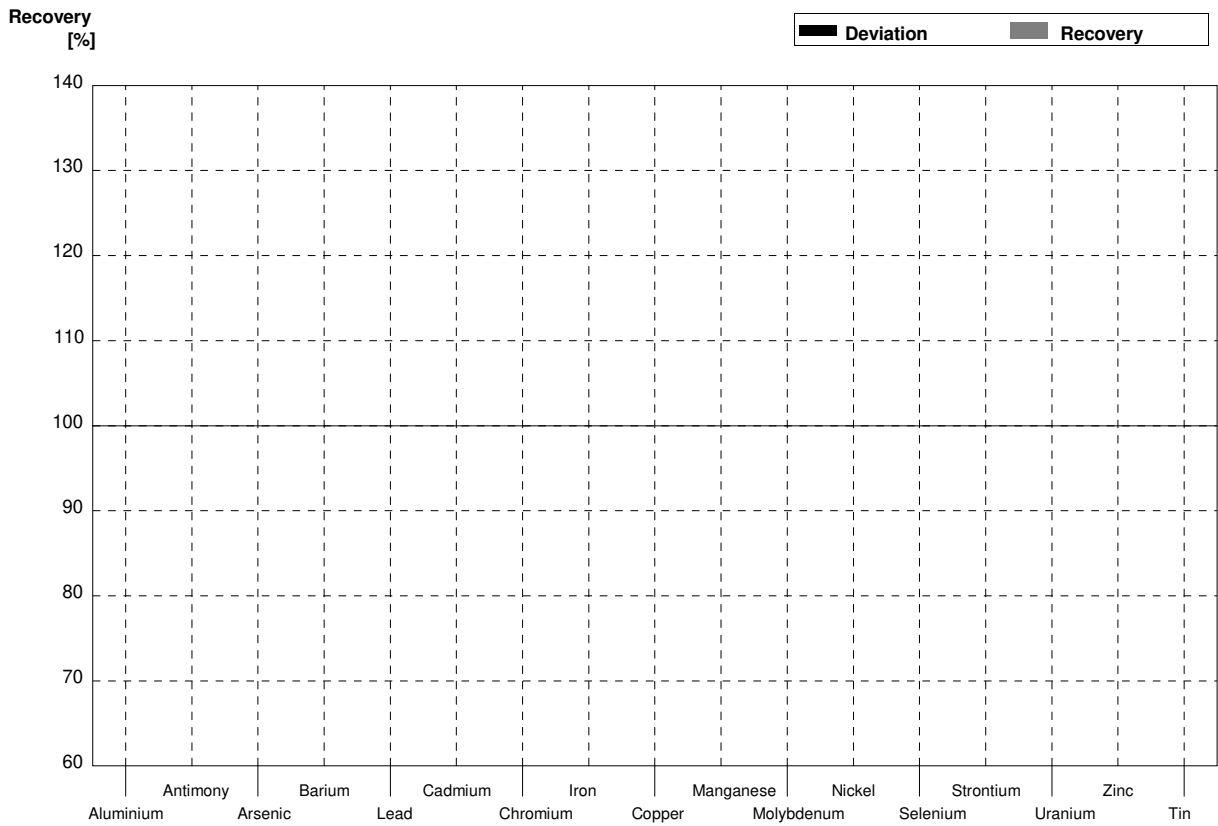
Sample M169B
Laboratory AJ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	41,1	6,2	µg/l	106%
Antimony	1,57	0,06	1,60	0,2	µg/l	102%
Arsenic	3,18	0,03	3,64	0,5	µg/l	114%
Barium	37,92	0,17	39,2	5,9	µg/l	103%
Lead	3,91	0,03	4,09	0,6	µg/l	105%
Cadmium	1,169	0,011	1,24	0,2	µg/l	106%
Chromium	0,752	0,010	<1		µg/l	•
Iron	59,8	0,3	62,7	9,4	µg/l	105%
Copper	8,02	0,06	8,24	1,2	µg/l	103%
Manganese	8,9	0,3	9,25	1,4	µg/l	104%
Molybdenum	0,86	0,23	<1		µg/l	•
Nickel	2,84	0,04	2,92	0,4	µg/l	103%
Selenium	2,63	0,03	2,86	0,4	µg/l	109%
Strontium	360	3	400	60	µg/l	111%
Uranium	2,50	0,02	2,61	0,4	µg/l	104%
Zinc	14,9	0,4	16,7	2,5	µg/l	112%
Tin	1,03	0,03	1,02	0,2	µg/l	99%



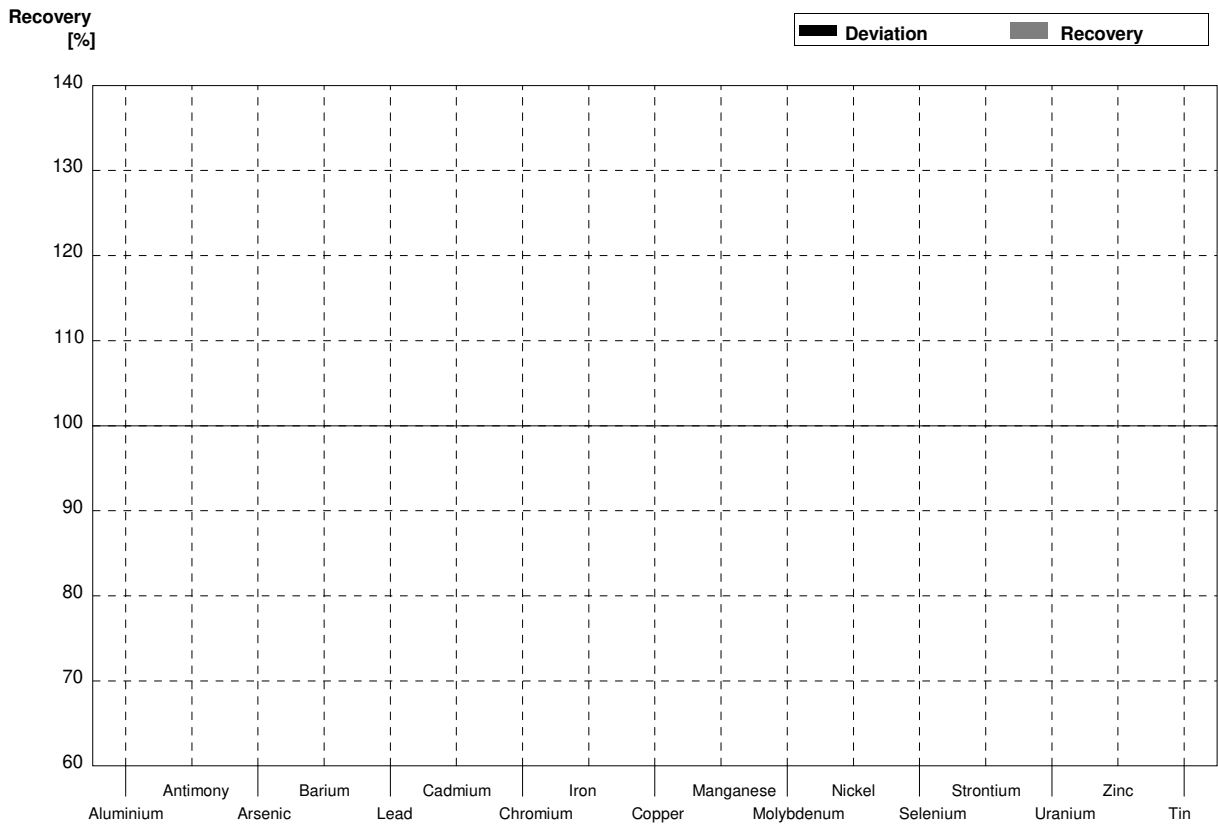
Sample M169A
Laboratory AK

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Aluminium	17,8	0,8			$\mu\text{g/l}$	
Antimony	0,89	0,05			$\mu\text{g/l}$	
Arsenic	1,830	0,016			$\mu\text{g/l}$	
Barium	15,81	0,12			$\mu\text{g/l}$	
Lead	0,579	0,012			$\mu\text{g/l}$	
Cadmium	0,517	0,007			$\mu\text{g/l}$	
Chromium	5,52	0,05			$\mu\text{g/l}$	
Iron	36,0	0,2			$\mu\text{g/l}$	
Copper	3,63	0,04			$\mu\text{g/l}$	
Manganese	40,9	0,3			$\mu\text{g/l}$	
Molybdenum	2,14	0,23			$\mu\text{g/l}$	
Nickel	1,60	0,03			$\mu\text{g/l}$	
Selenium	0,790	0,018			$\mu\text{g/l}$	
Strontium	694	6			$\mu\text{g/l}$	
Uranium	7,65	0,07			$\mu\text{g/l}$	
Zinc	29,4	0,6			$\mu\text{g/l}$	
Tin	2,46	0,04			$\mu\text{g/l}$	



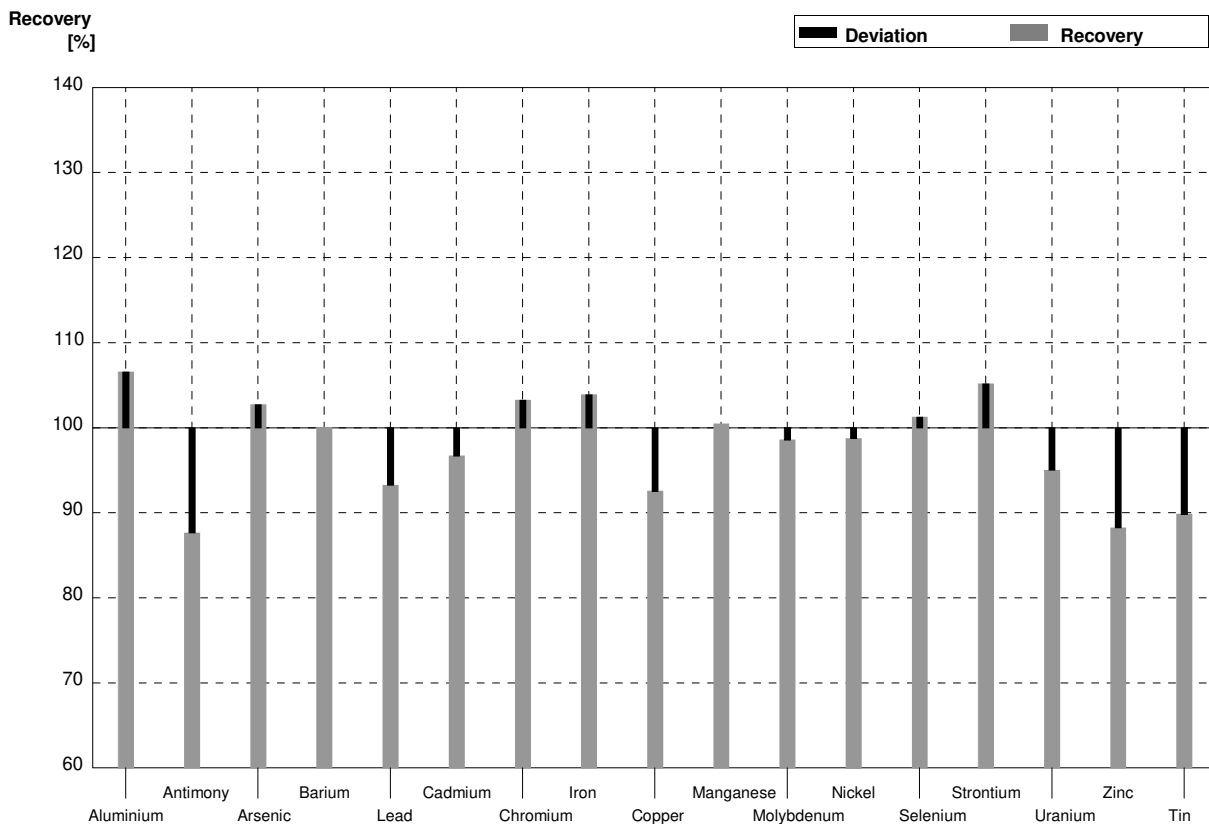
Sample M169B
Laboratory AK

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Aluminium	38,9	0,8			$\mu\text{g/l}$	
Antimony	1,57	0,06			$\mu\text{g/l}$	
Arsenic	3,18	0,03			$\mu\text{g/l}$	
Barium	37,92	0,17			$\mu\text{g/l}$	
Lead	3,91	0,03			$\mu\text{g/l}$	
Cadmium	1,169	0,011			$\mu\text{g/l}$	
Chromium	0,752	0,010			$\mu\text{g/l}$	
Iron	59,8	0,3			$\mu\text{g/l}$	
Copper	8,02	0,06			$\mu\text{g/l}$	
Manganese	8,9	0,3			$\mu\text{g/l}$	
Molybdenum	0,86	0,23			$\mu\text{g/l}$	
Nickel	2,84	0,04			$\mu\text{g/l}$	
Selenium	2,63	0,03			$\mu\text{g/l}$	
Strontium	360	3			$\mu\text{g/l}$	
Uranium	2,50	0,02			$\mu\text{g/l}$	
Zinc	14,9	0,4			$\mu\text{g/l}$	
Tin	1,03	0,03			$\mu\text{g/l}$	



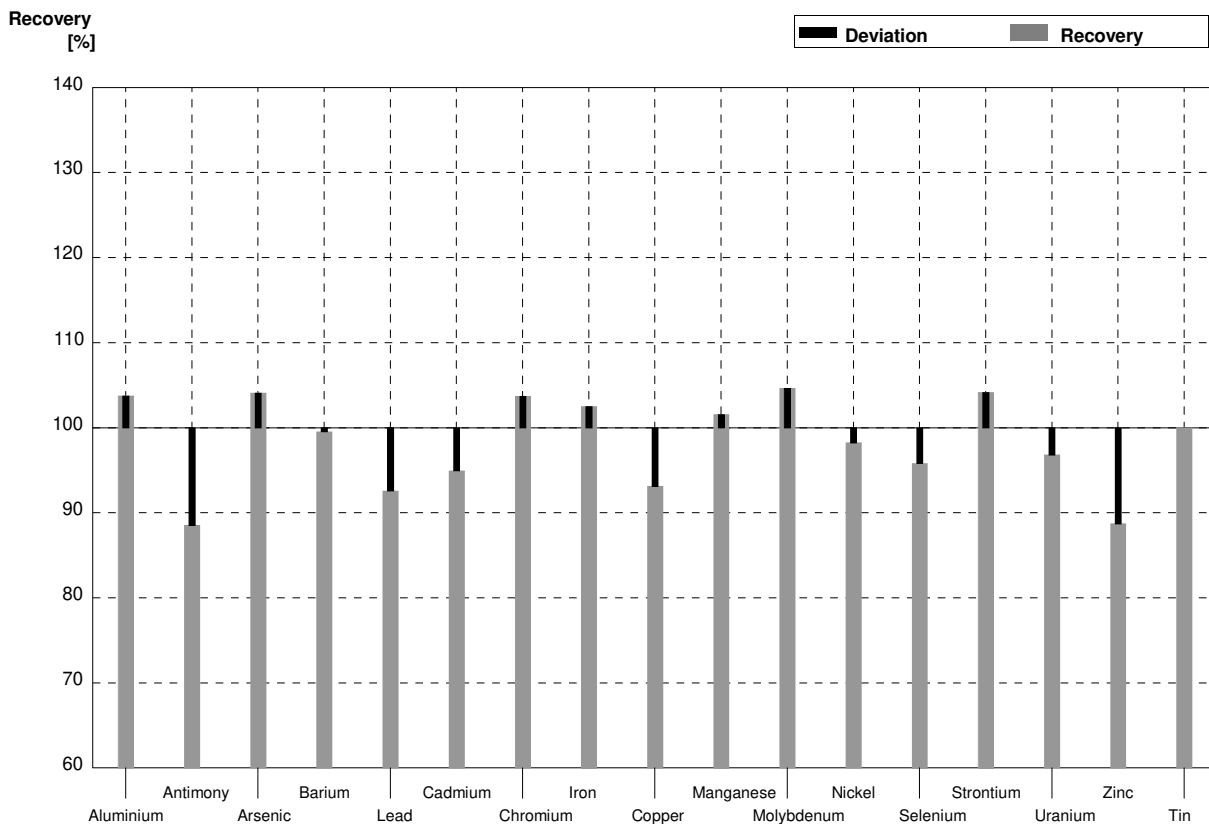
Sample M169A
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,97	3	µg/l	107%
Antimony	0,89	0,05	0,78	0,09	µg/l	88%
Arsenic	1,830	0,016	1,88	0,2	µg/l	103%
Barium	15,81	0,12	15,82	1,5	µg/l	100%
Lead	0,579	0,012	0,54	0,08	µg/l	93%
Cadmium	0,517	0,007	0,50	0,07	µg/l	97%
Chromium	5,52	0,05	5,70	0,8	µg/l	103%
Iron	36,0	0,2	37,4	3	µg/l	104%
Copper	3,63	0,04	3,36	0,4	µg/l	93%
Manganese	40,9	0,3	41,1	4	µg/l	100%
Molybdenum	2,14	0,23	2,11	0,2	µg/l	99%
Nickel	1,60	0,03	1,58	0,2	µg/l	99%
Selenium	0,790	0,018	0,80	0,09	µg/l	101%
Strontium	694	6	730	50	µg/l	105%
Uranium	7,65	0,07	7,27	0,6	µg/l	95%
Zinc	29,4	0,6	25,95	3	µg/l	88%
Tin	2,46	0,04	2,21	0,2	µg/l	90%



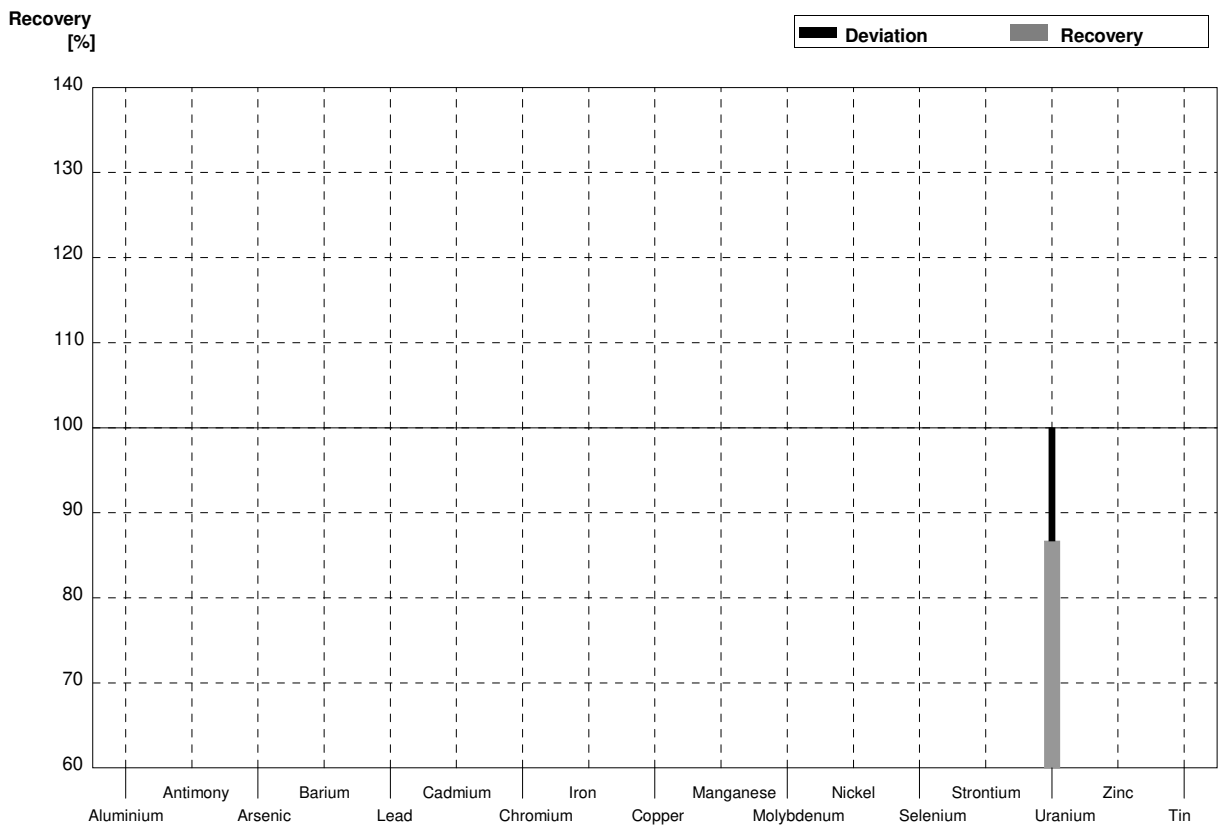
Sample M169B
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,36	4	µg/l	104%
Antimony	1,57	0,06	1,39	0,1	µg/l	89%
Arsenic	3,18	0,03	3,31	0,4	µg/l	104%
Barium	37,92	0,17	37,75	4	µg/l	100%
Lead	3,91	0,03	3,62	0,4	µg/l	93%
Cadmium	1,169	0,011	1,11	0,1	µg/l	95%
Chromium	0,752	0,010	0,78	0,09	µg/l	104%
Iron	59,8	0,3	61,3	7	µg/l	103%
Copper	8,02	0,06	7,47	0,8	µg/l	93%
Manganese	8,9	0,3	9,04	0,9	µg/l	102%
Molybdenum	0,86	0,23	0,90	0,08	µg/l	105%
Nickel	2,84	0,04	2,79	0,3	µg/l	98%
Selenium	2,63	0,03	2,52	0,3	µg/l	96%
Strontium	360	3	375	40	µg/l	104%
Uranium	2,50	0,02	2,42	0,3	µg/l	97%
Zinc	14,9	0,4	13,22	2	µg/l	89%
Tin	1,03	0,03	1,03	0,1	µg/l	100%



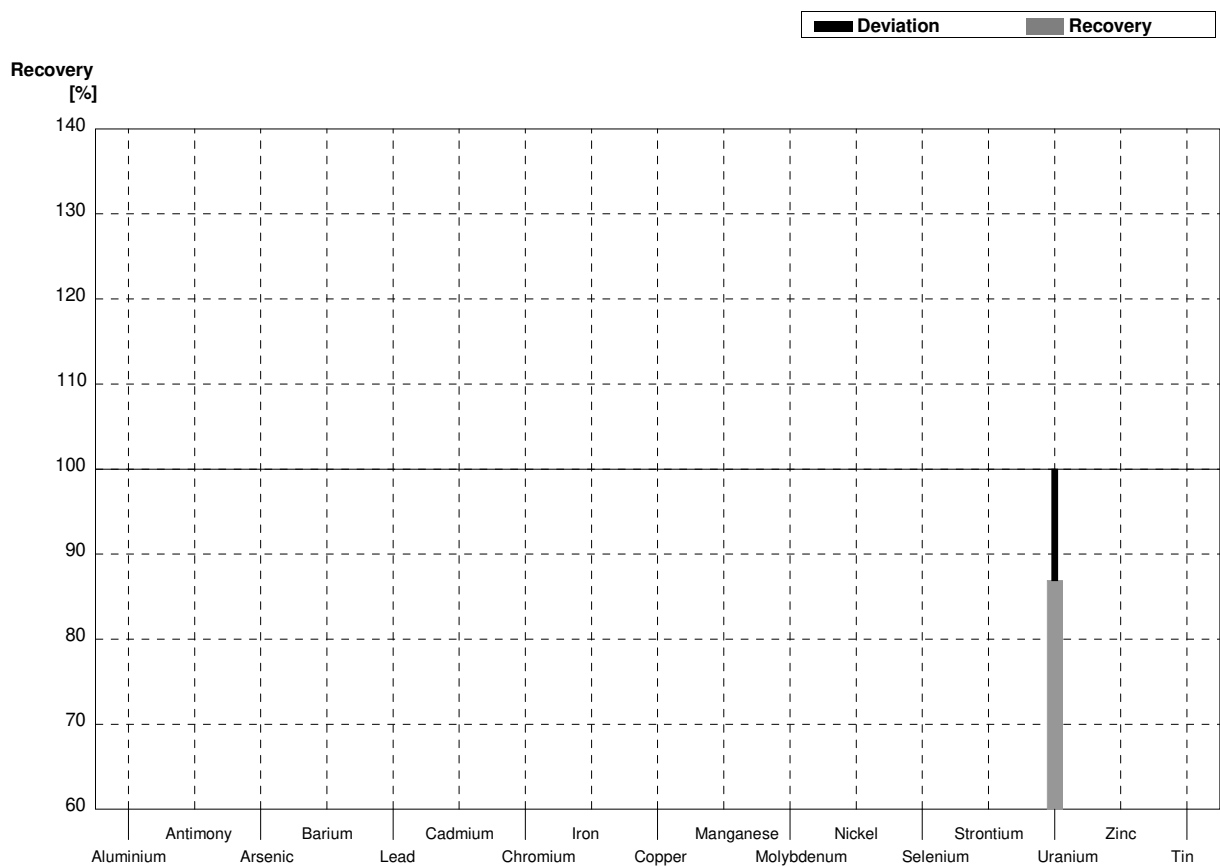
Sample M169A
Laboratory AM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8			µg/l	
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012			µg/l	
Cadmium	0,517	0,007			µg/l	
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2			µg/l	
Copper	3,63	0,04			µg/l	
Manganese	40,9	0,3			µg/l	
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03			µg/l	
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07	6,633	0,8	µg/l	87%
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04			µg/l	



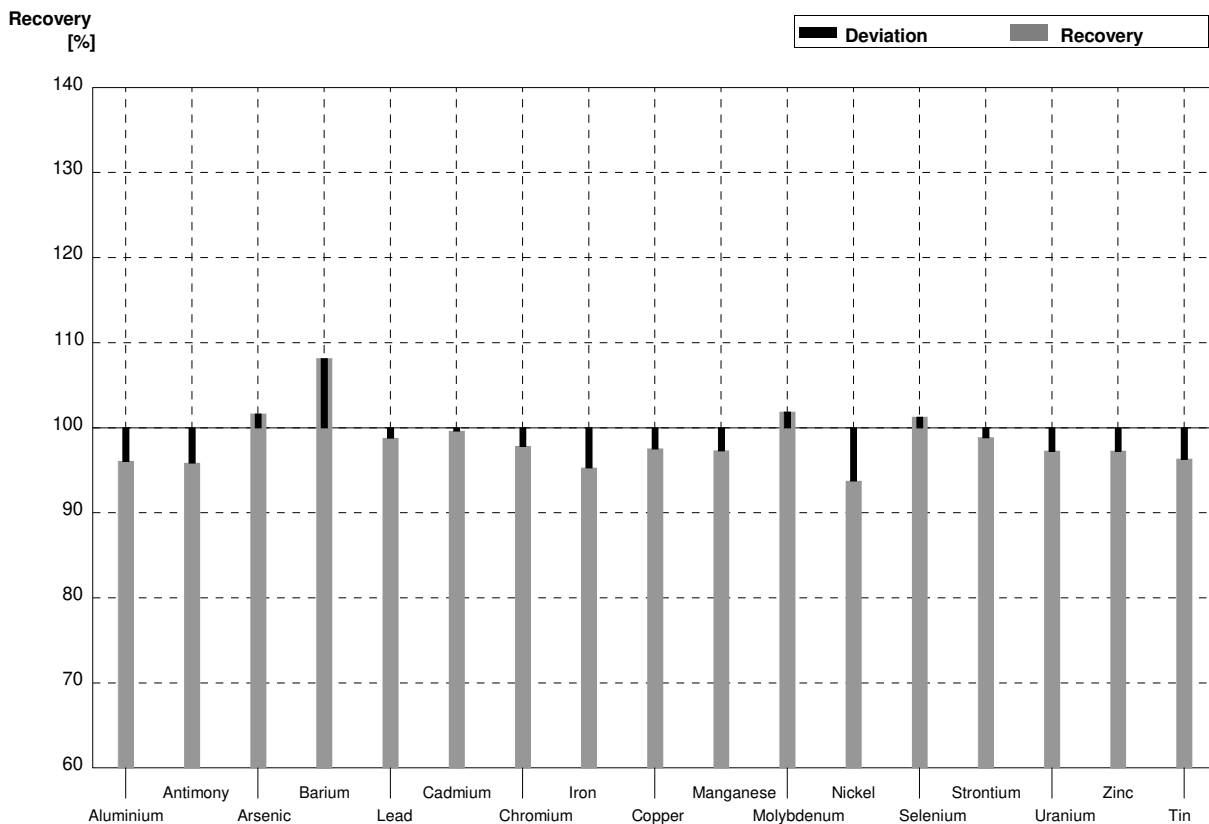
Sample M169B
Laboratory AM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8			µg/l	
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03			µg/l	
Cadmium	1,169	0,011			µg/l	
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3			µg/l	
Copper	8,02	0,06			µg/l	
Manganese	8,9	0,3			µg/l	
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04			µg/l	
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,173	0,3	µg/l	87%
Zinc	14,9	0,4			µg/l	
Tin	1,03	0,03			µg/l	



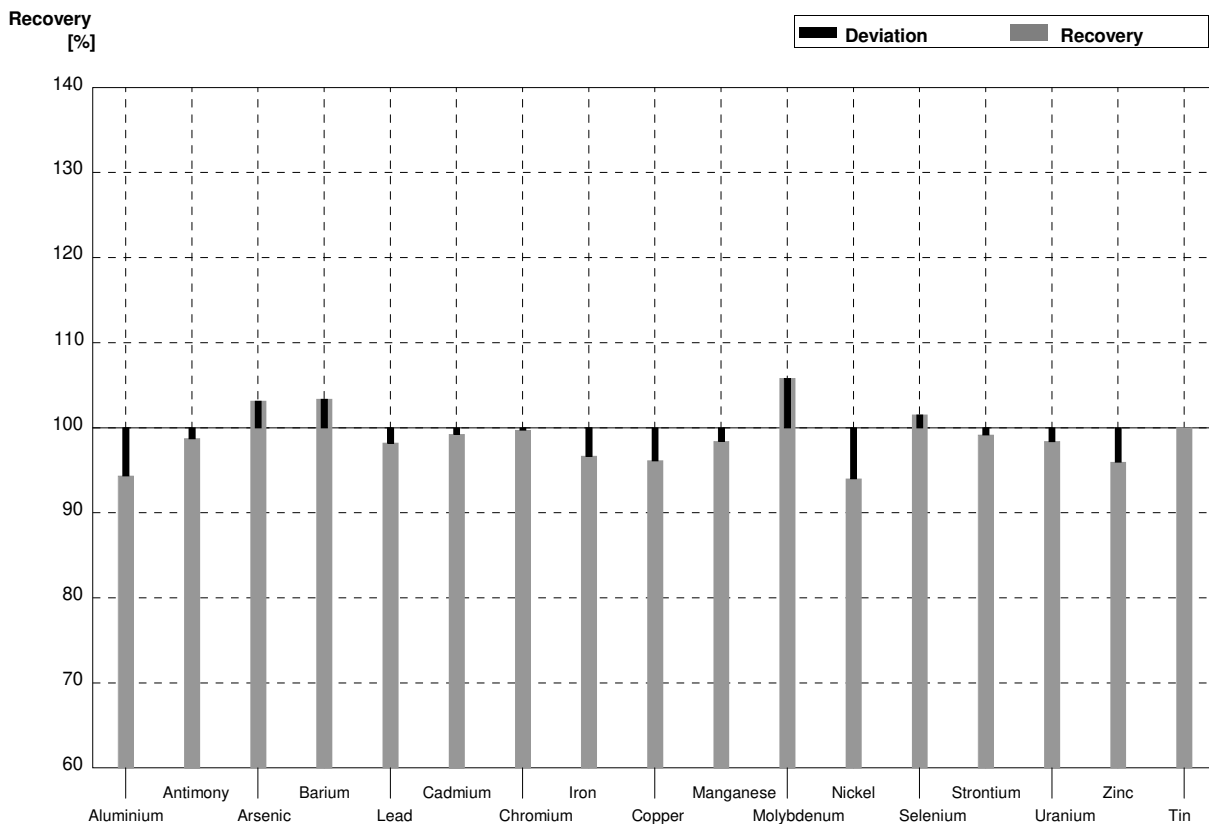
Sample M169A
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,1	2,9	µg/l	96%
Antimony	0,89	0,05	0,853	0,119	µg/l	96%
Arsenic	1,830	0,016	1,86	0,32	µg/l	102%
Barium	15,81	0,12	17,1	1,7	µg/l	108%
Lead	0,579	0,012	0,572	0,069	µg/l	99%
Cadmium	0,517	0,007	0,515	0,062	µg/l	100%
Chromium	5,52	0,05	5,40	1,03	µg/l	98%
Iron	36,0	0,2	34,3	6,2	µg/l	95%
Copper	3,63	0,04	3,54	0,39	µg/l	98%
Manganese	40,9	0,3	39,8	4,4	µg/l	97%
Molybdenum	2,14	0,23	2,18	0,28	µg/l	102%
Nickel	1,60	0,03	1,50	0,34	µg/l	94%
Selenium	0,790	0,018	0,80	0,27	µg/l	101%
Strontium	694	6	686	96	µg/l	99%
Uranium	7,65	0,07	7,44	0,74	µg/l	97%
Zinc	29,4	0,6	28,6	4,6	µg/l	97%
Tin	2,46	0,04	2,37	0,40	µg/l	96%



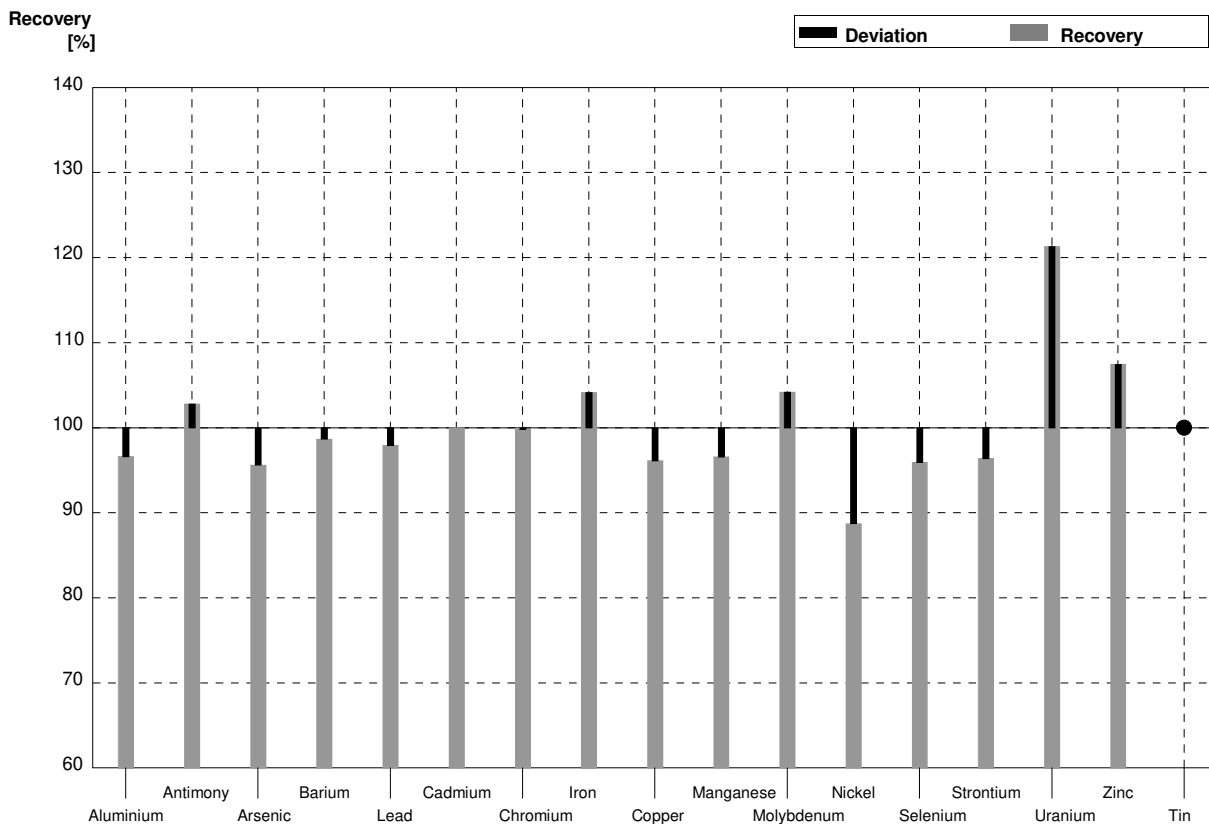
Sample M169B
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,7	4,4	µg/l	94%
Antimony	1,57	0,06	1,55	0,22	µg/l	99%
Arsenic	3,18	0,03	3,28	0,56	µg/l	103%
Barium	37,92	0,17	39,2	3,9	µg/l	103%
Lead	3,91	0,03	3,84	0,46	µg/l	98%
Cadmium	1,169	0,011	1,16	0,14	µg/l	99%
Chromium	0,752	0,010	0,75	0,14	µg/l	100%
Iron	59,8	0,3	57,8	10,4	µg/l	97%
Copper	8,02	0,06	7,71	0,85	µg/l	96%
Manganese	8,9	0,3	8,76	1,31	µg/l	98%
Molybdenum	0,86	0,23	0,91	0,12	µg/l	106%
Nickel	2,84	0,04	2,67	0,62	µg/l	94%
Selenium	2,63	0,03	2,67	0,91	µg/l	102%
Strontium	360	3	357	50	µg/l	99%
Uranium	2,50	0,02	2,46	0,25	µg/l	98%
Zinc	14,9	0,4	14,3	2,3	µg/l	96%
Tin	1,03	0,03	1,03	0,18	µg/l	100%



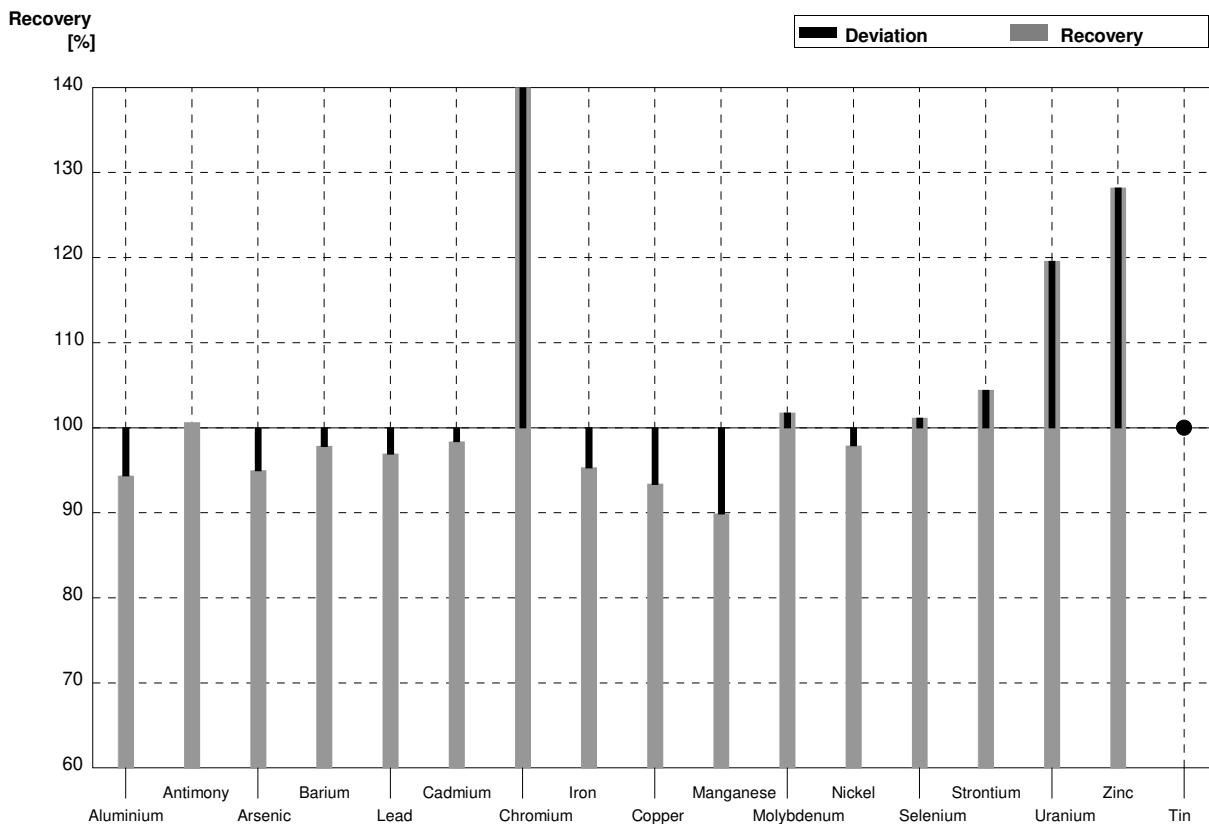
Sample M169A
Laboratory AO

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	17,2	1,72	µg/l	97%
Antimony	0,89	0,05	0,915	0,0915	µg/l	103%
Arsenic	1,830	0,016	1,75	0,175	µg/l	96%
Barium	15,81	0,12	15,6	1,56	µg/l	99%
Lead	0,579	0,012	0,567	0,0567	µg/l	98%
Cadmium	0,517	0,007	0,517	0,0517	µg/l	100%
Chromium	5,52	0,05	5,51	0,551	µg/l	100%
Iron	36,0	0,2	37,5	3,75	µg/l	104%
Copper	3,63	0,04	3,49	0,349	µg/l	96%
Manganese	40,9	0,3	39,5	3,95	µg/l	97%
Molybdenum	2,14	0,23	2,23	0,223	µg/l	104%
Nickel	1,60	0,03	1,42	0,142	µg/l	89%
Selenium	0,790	0,018	0,758	0,0758	µg/l	96%
Strontium	694	6	669	66,9	µg/l	96%
Uranium	7,65	0,07	9,28	0,928	µg/l	121%
Zinc	29,4	0,6	31,6	3,16	µg/l	107%
Tin	2,46	0,04	<5,00	0,5	µg/l	•



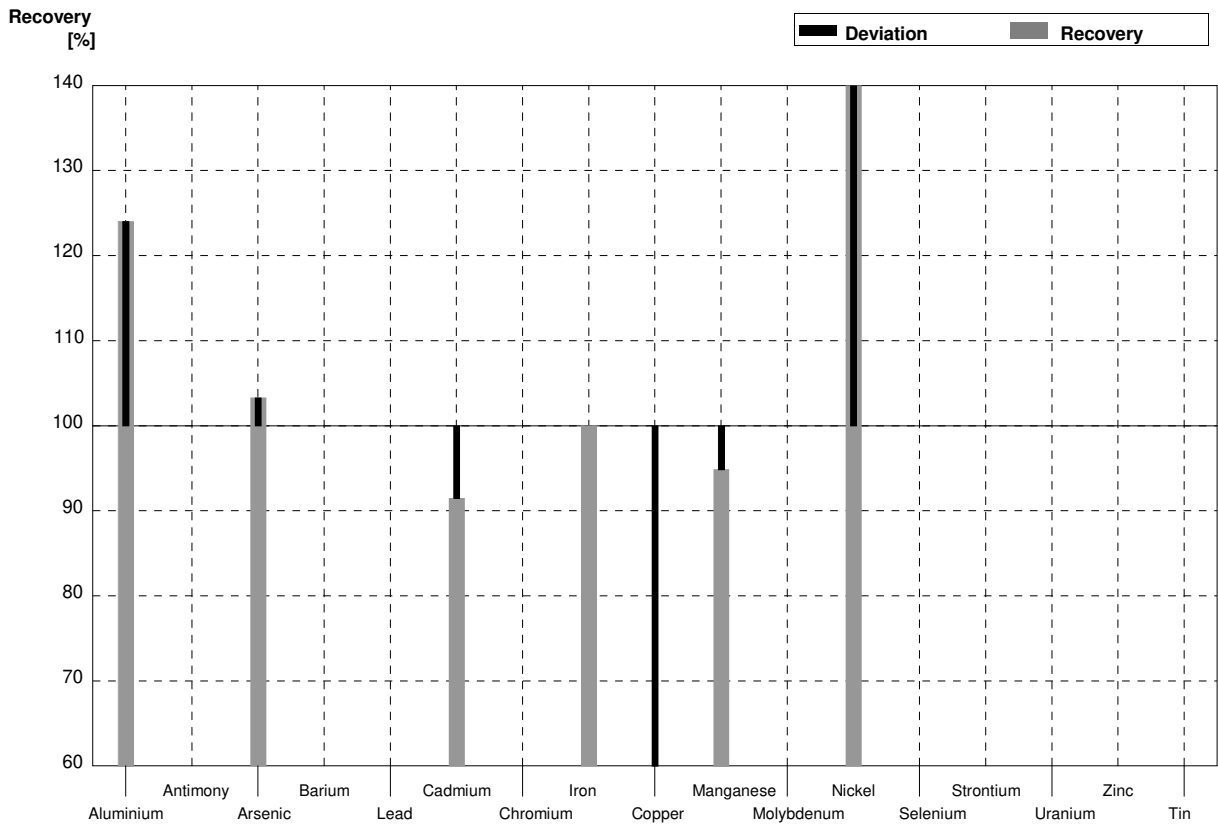
Sample M169B
Laboratory AO

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	36,7	3,67	µg/l	94%
Antimony	1,57	0,06	1,58	0,158	µg/l	101%
Arsenic	3,18	0,03	3,02	0,302	µg/l	95%
Barium	37,92	0,17	37,1	3,71	µg/l	98%
Lead	3,91	0,03	3,79	0,379	µg/l	97%
Cadmium	1,169	0,011	1,15	0,115	µg/l	98%
Chromium	0,752	0,010	3,78	0,378	µg/l	503%
Iron	59,8	0,3	57	5,7	µg/l	95%
Copper	8,02	0,06	7,49	0,749	µg/l	93%
Manganese	8,9	0,3	8,00	0,8	µg/l	90%
Molybdenum	0,86	0,23	0,875	0,0875	µg/l	102%
Nickel	2,84	0,04	2,78	0,278	µg/l	98%
Selenium	2,63	0,03	2,66	0,266	µg/l	101%
Strontium	360	3	376	37,6	µg/l	104%
Uranium	2,50	0,02	2,99	0,299	µg/l	120%
Zinc	14,9	0,4	19,1	1,91	µg/l	128%
Tin	1,03	0,03	<5,0	0,5	µg/l	•



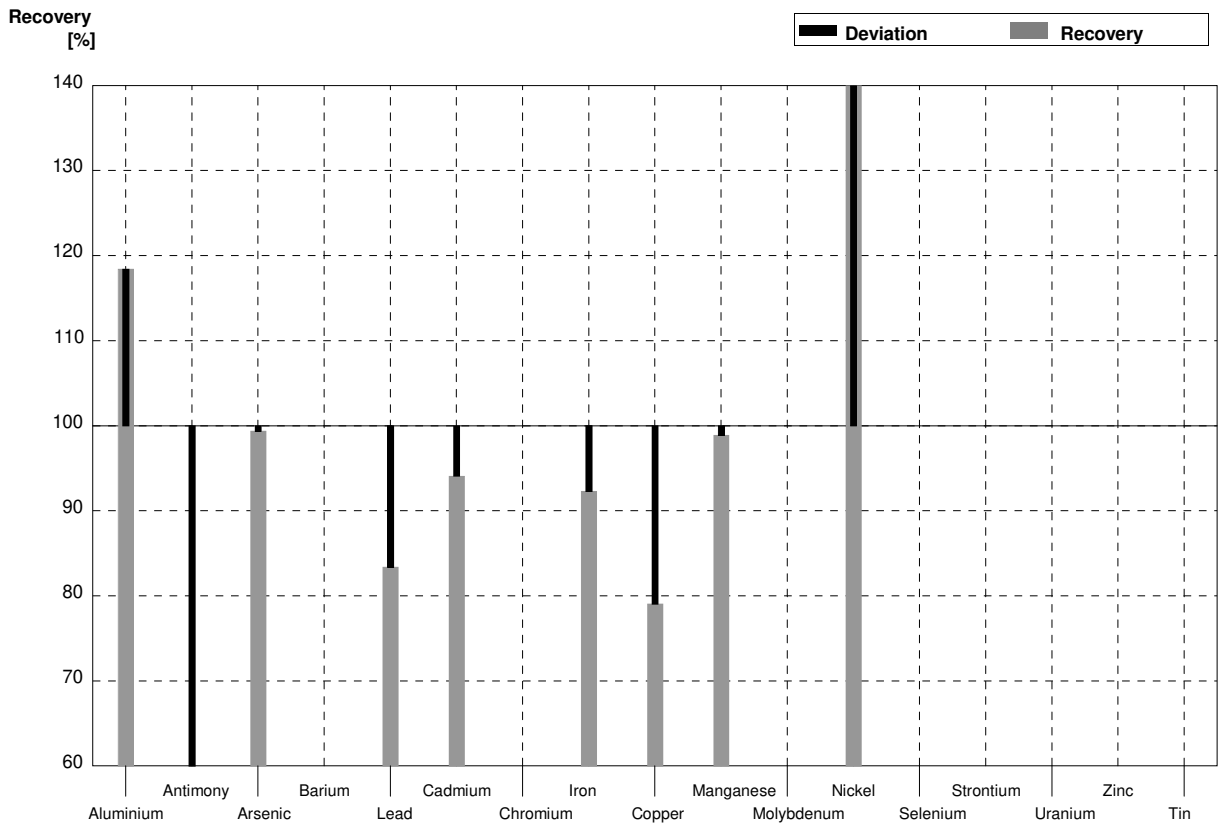
Sample M169A
Laboratory AP

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	22,08	3,5	µg/l	124%
Antimony	0,89	0,05	n.n.		µg/l	
Arsenic	1,830	0,016	1,89	0,11	µg/l	103%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	n.n.		µg/l	
Cadmium	0,517	0,007	0,473	0,06	µg/l	91%
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2	36,0	4,0	µg/l	100%
Copper	3,63	0,04	1,77	0,1	µg/l	49%
Manganese	40,9	0,3	38,8	5,9	µg/l	95%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	2,45	0,3	µg/l	153%
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6			µg/l	
Tin	2,46	0,04			µg/l	



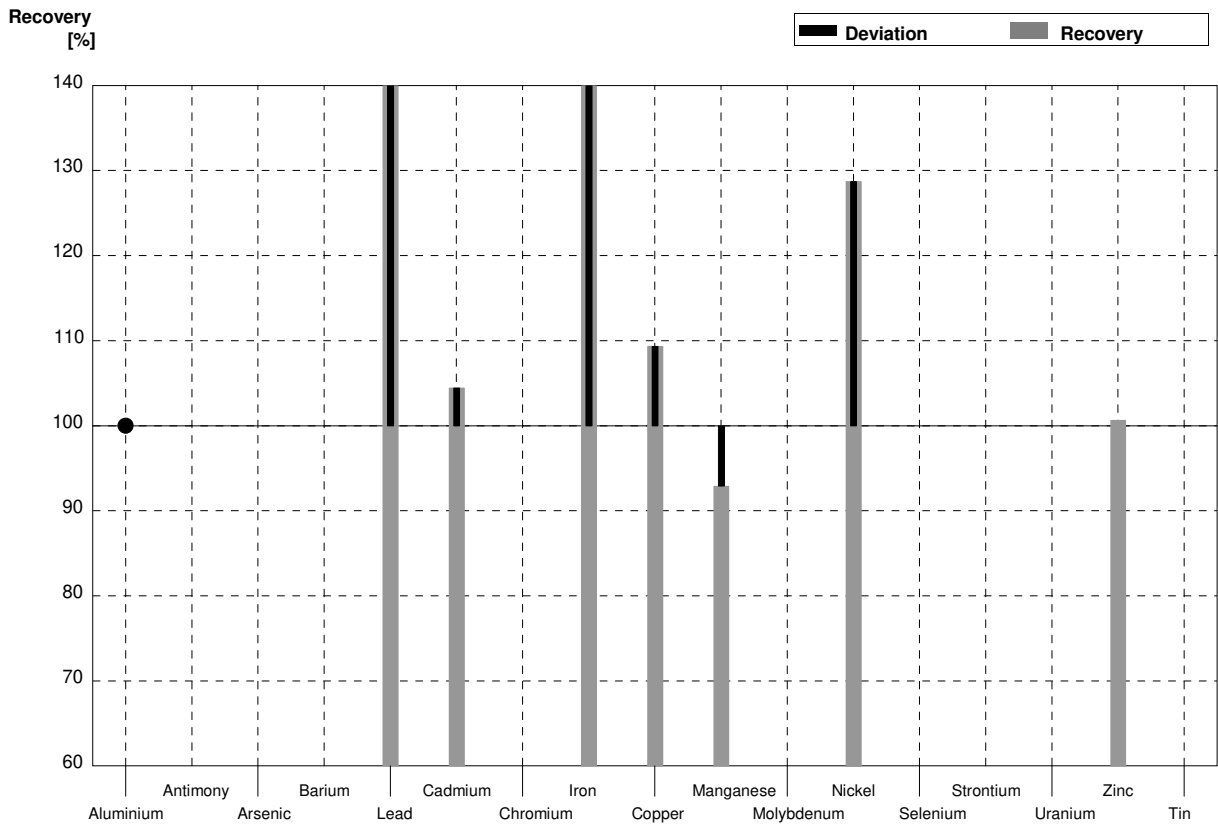
Sample M169B
Laboratory AP

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	46,06	7,3	µg/l	118%
Antimony	1,57	0,06	0,747	0,07	µg/l	48%
Arsenic	3,18	0,03	3,16	0,19	µg/l	99%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,26	0,19	µg/l	83%
Cadmium	1,169	0,011	1,10	0,14	µg/l	94%
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3	55,2	6,1	µg/l	92%
Copper	8,02	0,06	6,34	0,35	µg/l	79%
Manganese	8,9	0,3	8,80	1,0	µg/l	99%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	4,26	0,53	µg/l	150%
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4			µg/l	
Tin	1,03	0,03			µg/l	



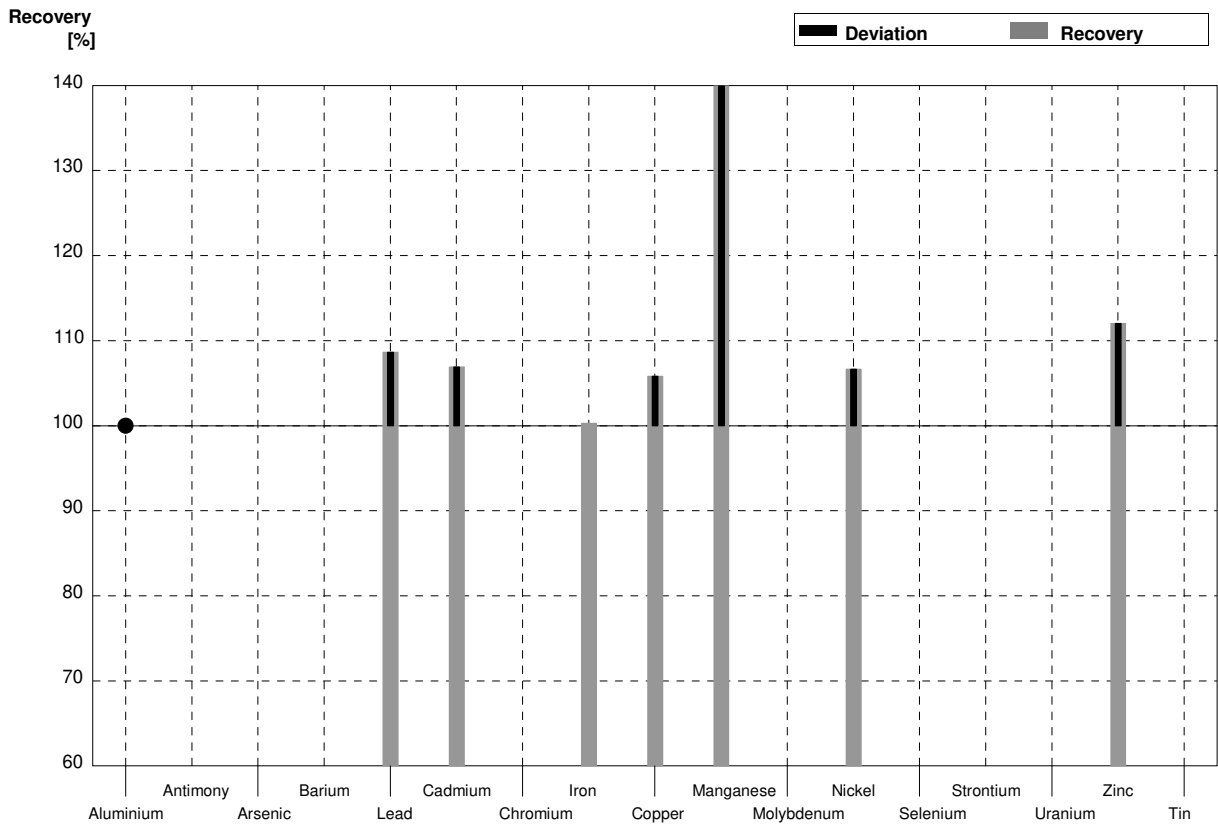
Sample M169A
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	<50		µg/l	•
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016			µg/l	
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	0,98	0,488	µg/l	169%
Cadmium	0,517	0,007	0,54	0,132	µg/l	104%
Chromium	5,52	0,05			µg/l	
Iron	36,0	0,2	60	13,9	µg/l	167%
Copper	3,63	0,04	3,97	0,86	µg/l	109%
Manganese	40,9	0,3	38,0	5,7	µg/l	93%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	2,06	0,273	µg/l	129%
Selenium	0,790	0,018			µg/l	
Strontium	694	6			µg/l	
Uranium	7,65	0,07			µg/l	
Zinc	29,4	0,6	29,6	20,0	µg/l	101%
Tin	2,46	0,04			µg/l	



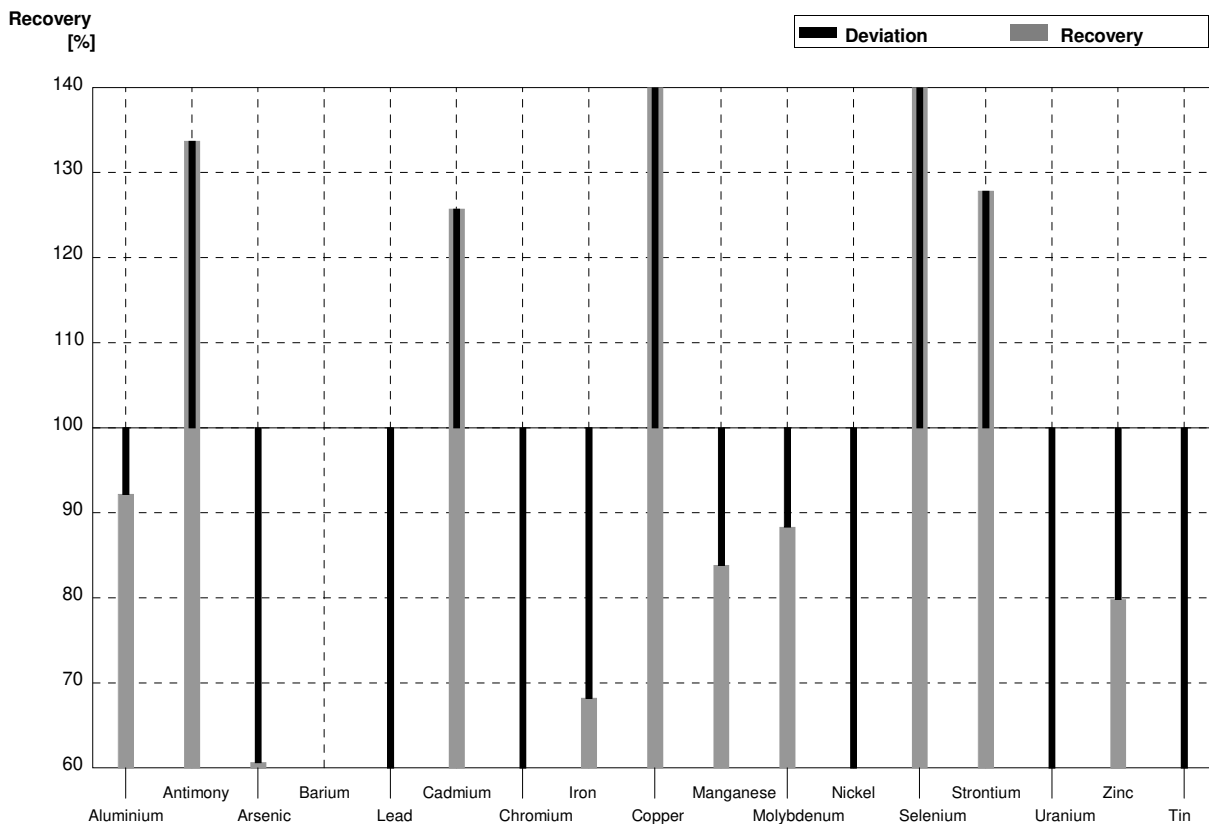
Sample M169B
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	<50		µg/l	•
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03			µg/l	
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	4,25	2,111	µg/l	109%
Cadmium	1,169	0,011	1,25	0,305	µg/l	107%
Chromium	0,752	0,010			µg/l	
Iron	59,8	0,3	60	13,9	µg/l	100%
Copper	8,02	0,06	8,49	1,85	µg/l	106%
Manganese	8,9	0,3	19,0	2,85	µg/l	213%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	3,03	0,400	µg/l	107%
Selenium	2,63	0,03			µg/l	
Strontium	360	3			µg/l	
Uranium	2,50	0,02			µg/l	
Zinc	14,9	0,4	16,7	11,2	µg/l	112%
Tin	1,03	0,03			µg/l	



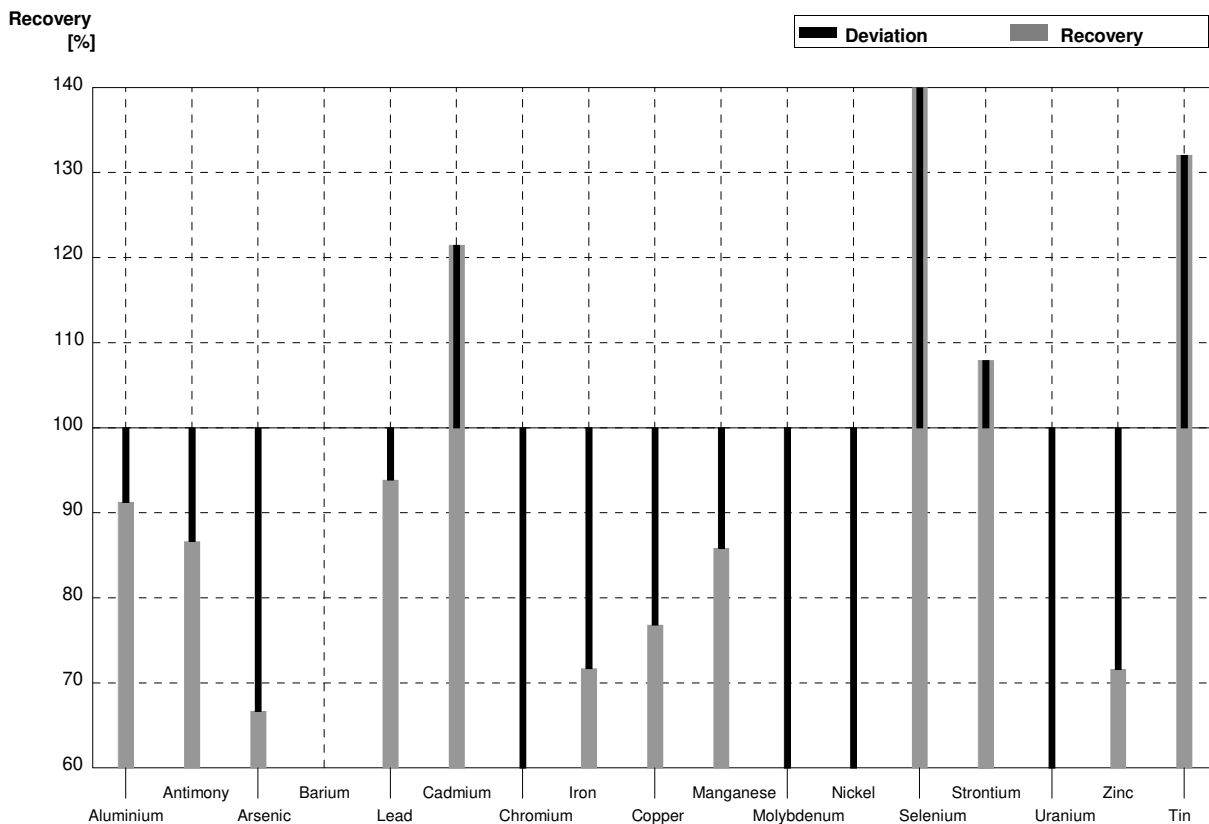
Sample M169A
Laboratory AR

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,41	0,05	µg/l	92%
Antimony	0,89	0,05	1,19	0,05	µg/l	134%
Arsenic	1,830	0,016	1,11	0,05	µg/l	61%
Barium	15,81	0,12			µg/l	
Lead	0,579	0,012	0,300	0,05	µg/l	52%
Cadmium	0,517	0,007	0,65	0,05	µg/l	126%
Chromium	5,52	0,05	2,98	0,05	µg/l	54%
Iron	36,0	0,2	24,56	0,1	µg/l	68%
Copper	3,63	0,04	23,47	0,1	µg/l	647%
Manganese	40,9	0,3	34,29	0,1	µg/l	84%
Molybdenum	2,14	0,23	1,89	0,1	µg/l	88%
Nickel	1,60	0,03	0,210	0,05	µg/l	13%
Selenium	0,790	0,018	26,66	0,1	µg/l	3375%
Strontium	694	6	887,2	0,1	µg/l	128%
Uranium	7,65	0,07	2,91	0,1	µg/l	38%
Zinc	29,4	0,6	23,47	0,1	µg/l	80%
Tin	2,46	0,04	0,91	0,1	µg/l	37%



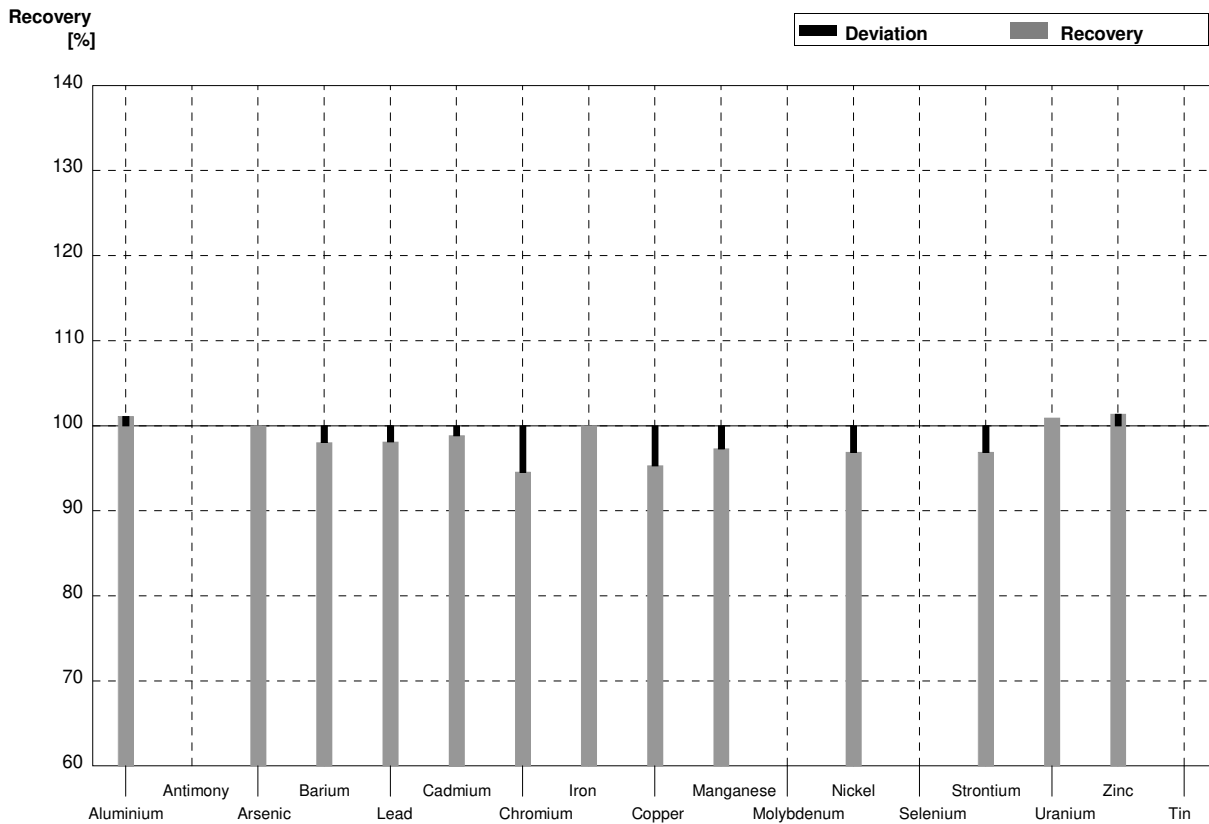
Sample M169B
Laboratory AR

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	35,50	0,05	µg/l	91%
Antimony	1,57	0,06	1,36	0,05	µg/l	87%
Arsenic	3,18	0,03	2,12	0,05	µg/l	67%
Barium	37,92	0,17			µg/l	
Lead	3,91	0,03	3,67	0,05	µg/l	94%
Cadmium	1,169	0,011	1,42	0,05	µg/l	121%
Chromium	0,752	0,010	0,092	0,025	µg/l	12%
Iron	59,8	0,3	42,88	0,1	µg/l	72%
Copper	8,02	0,06	6,16	0,1	µg/l	77%
Manganese	8,9	0,3	7,64	0,1	µg/l	86%
Molybdenum	0,86	0,23	0,052	0,01	µg/l	6%
Nickel	2,84	0,04	0,203	0,05	µg/l	7%
Selenium	2,63	0,03	24,80	0,10	µg/l	943%
Strontium	360	3	388,44	0,1	µg/l	108%
Uranium	2,50	0,02	0,92	0,1	µg/l	37%
Zinc	14,9	0,4	10,67	0,1	µg/l	72%
Tin	1,03	0,03	1,36	0,1	µg/l	132%



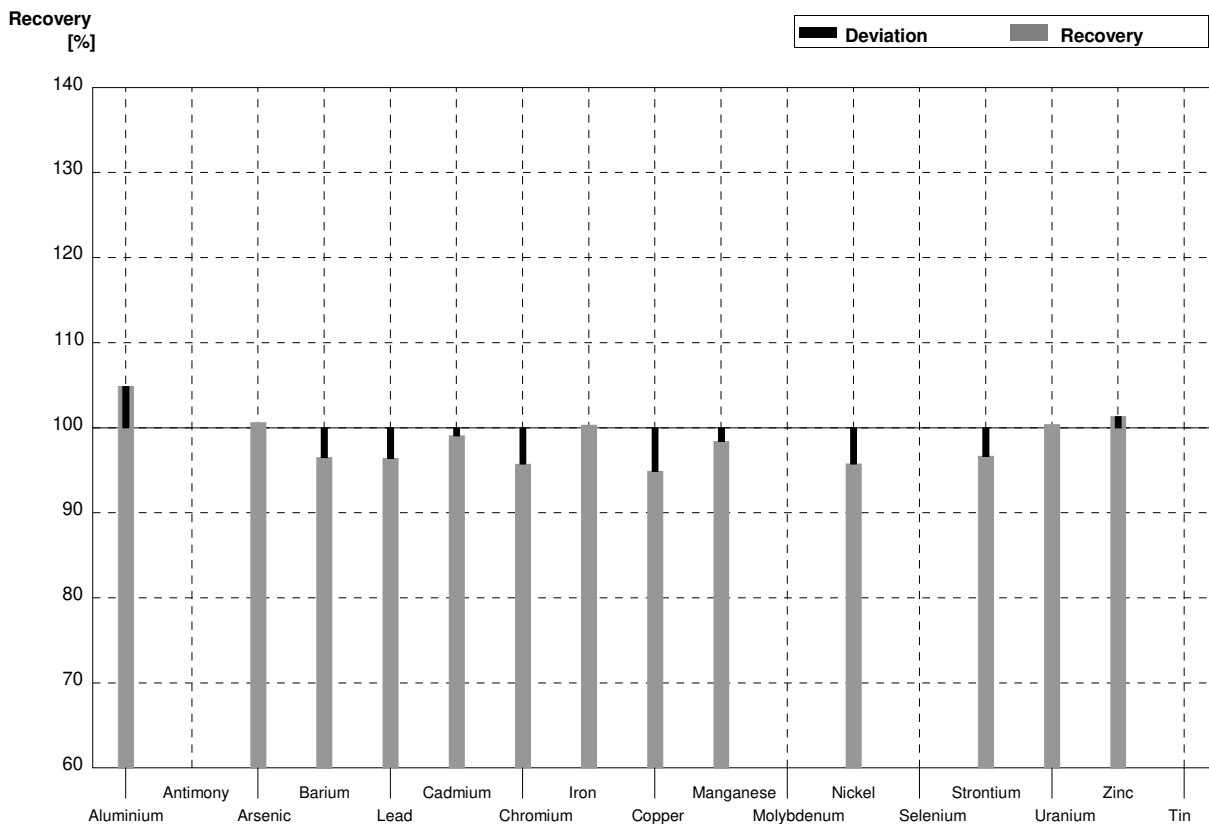
Sample M169A
Laboratory AS

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,0	3,6	µg/l	101%
Antimony	0,89	0,05			µg/l	
Arsenic	1,830	0,016	1,83	0,37	µg/l	100%
Barium	15,81	0,12	15,5	3,1	µg/l	98%
Lead	0,579	0,012	0,568	0,125	µg/l	98%
Cadmium	0,517	0,007	0,511	0,102	µg/l	99%
Chromium	5,52	0,05	5,22	1,04	µg/l	95%
Iron	36,0	0,2	36,0	7,2	µg/l	100%
Copper	3,63	0,04	3,46	0,69	µg/l	95%
Manganese	40,9	0,3	39,8	8,0	µg/l	97%
Molybdenum	2,14	0,23			µg/l	
Nickel	1,60	0,03	1,55	0,31	µg/l	97%
Selenium	0,790	0,018			µg/l	
Strontium	694	6	672,5	135	µg/l	97%
Uranium	7,65	0,07	7,72	1,54	µg/l	101%
Zinc	29,4	0,6	29,8	6,0	µg/l	101%
Tin	2,46	0,04			µg/l	



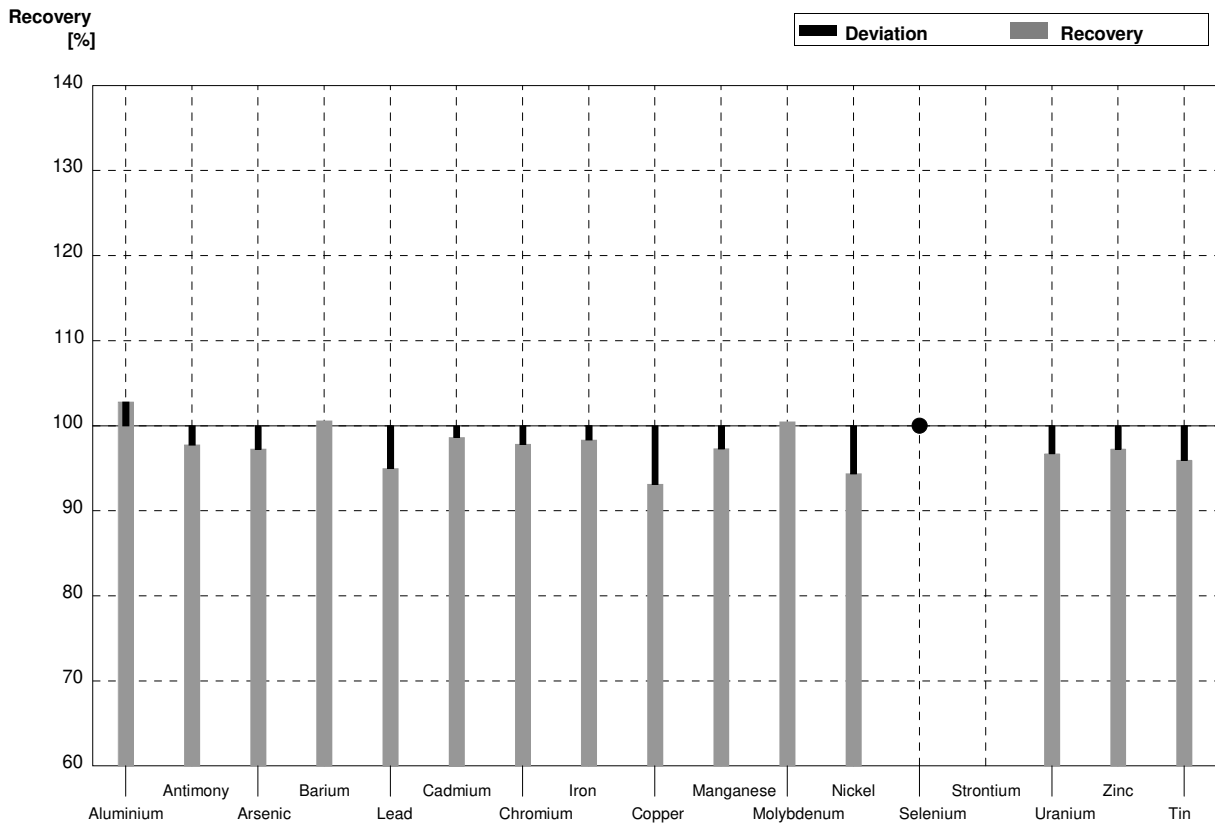
Sample M169B
Laboratory AS

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	40,8	8,2	µg/l	105%
Antimony	1,57	0,06			µg/l	
Arsenic	3,18	0,03	3,20	0,64	µg/l	101%
Barium	37,92	0,17	36,6	7,3	µg/l	97%
Lead	3,91	0,03	3,77	0,75	µg/l	96%
Cadmium	1,169	0,011	1,158	0,232	µg/l	99%
Chromium	0,752	0,010	0,720	0,144	µg/l	96%
Iron	59,8	0,3	60,0	12	µg/l	100%
Copper	8,02	0,06	7,61	1,52	µg/l	95%
Manganese	8,9	0,3	8,76	1,75	µg/l	98%
Molybdenum	0,86	0,23			µg/l	
Nickel	2,84	0,04	2,72	0,54	µg/l	96%
Selenium	2,63	0,03			µg/l	
Strontium	360	3	348,0	70	µg/l	97%
Uranium	2,50	0,02	2,51	0,50	µg/l	100%
Zinc	14,9	0,4	15,1	3,0	µg/l	101%
Tin	1,03	0,03			µg/l	



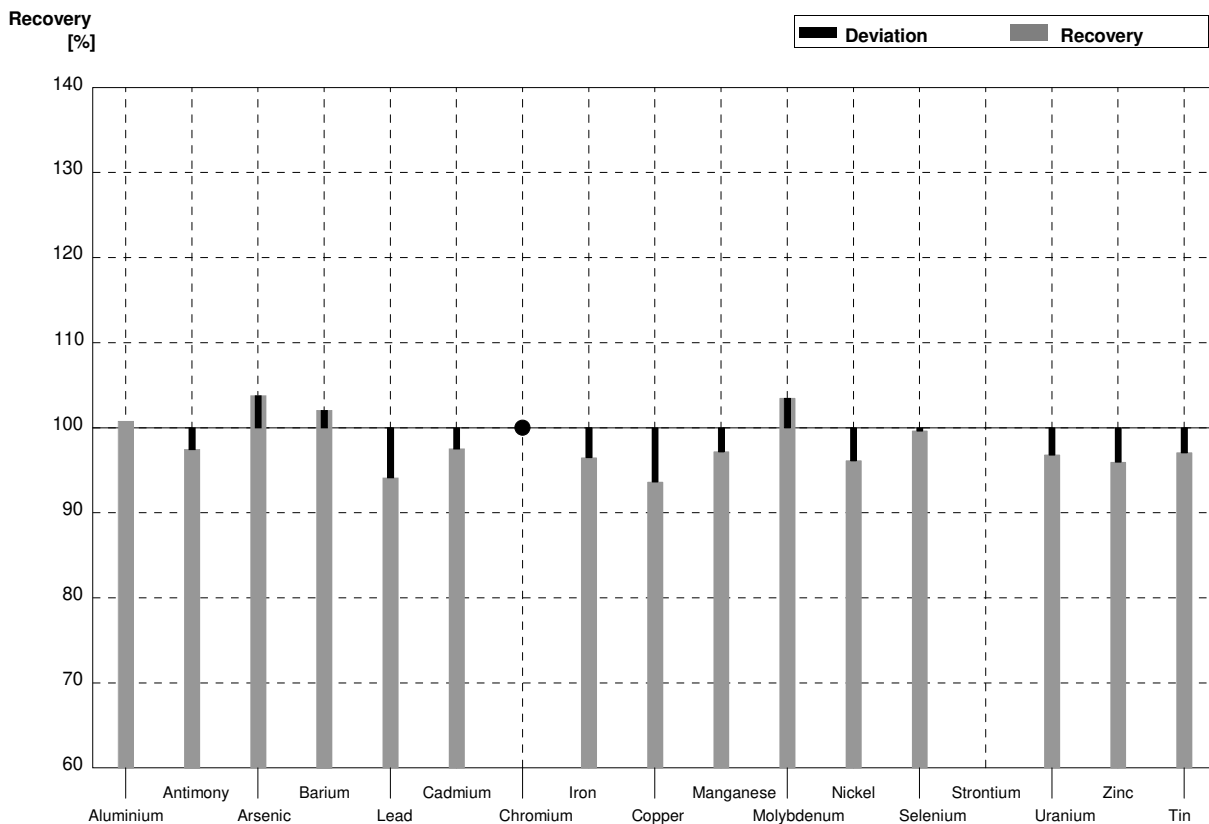
Sample M169A
Laboratory AT

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	18,3	1,83	µg/l	103%
Antimony	0,89	0,05	0,87	0,087	µg/l	98%
Arsenic	1,830	0,016	1,78	0,267	µg/l	97%
Barium	15,81	0,12	15,9	1,59	µg/l	101%
Lead	0,579	0,012	0,55	0,055	µg/l	95%
Cadmium	0,517	0,007	0,51	0,051	µg/l	99%
Chromium	5,52	0,05	5,4	0,54	µg/l	98%
Iron	36,0	0,2	35,4	0,354	µg/l	98%
Copper	3,63	0,04	3,38	0,338	µg/l	93%
Manganese	40,9	0,3	39,8	3,98	µg/l	97%
Molybdenum	2,14	0,23	2,15	2,15	µg/l	100%
Nickel	1,60	0,03	1,51	0,151	µg/l	94%
Selenium	0,790	0,018	<1,0		µg/l	•
Strontium	694	6			µg/l	
Uranium	7,65	0,07	7,4	0,74	µg/l	97%
Zinc	29,4	0,6	28,6	2,86	µg/l	97%
Tin	2,46	0,04	2,36	0,236	µg/l	96%



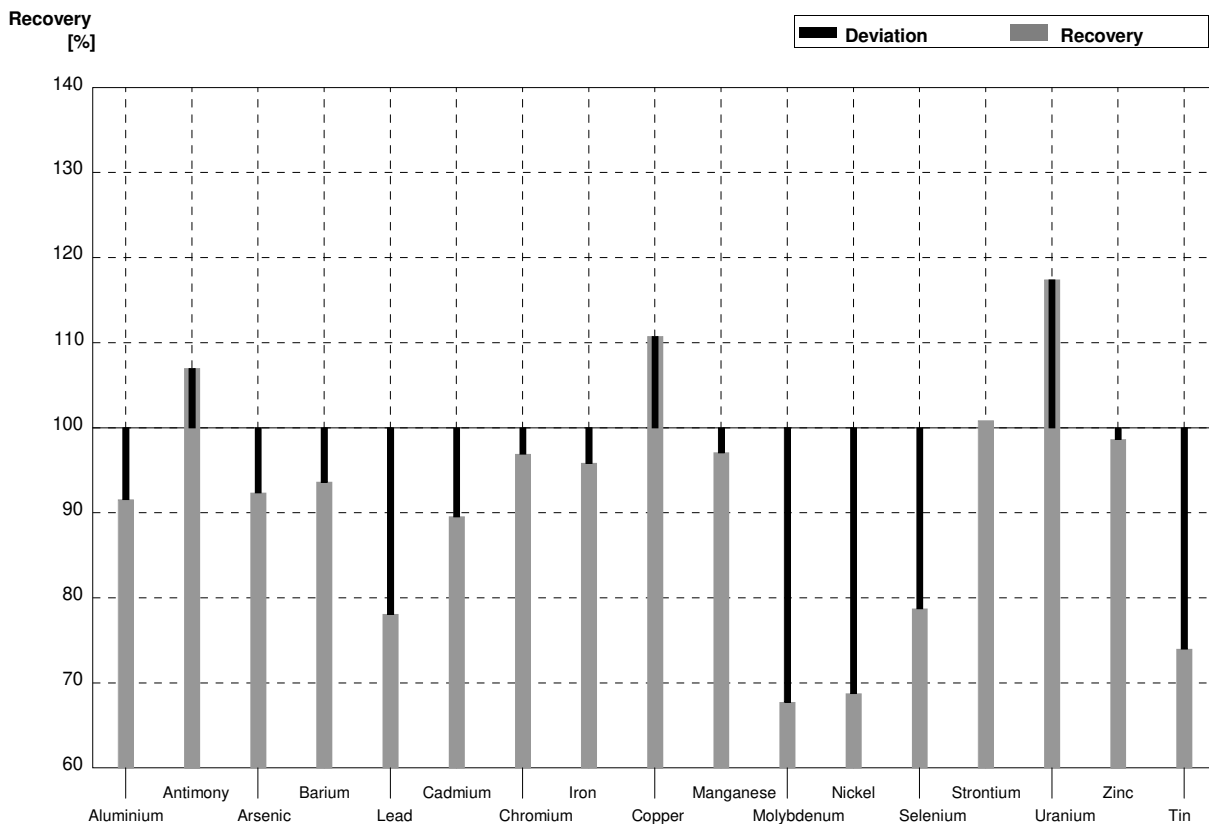
Sample M169B
Laboratory AT

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,2	3,92	µg/l	101%
Antimony	1,57	0,06	1,53	0,153	µg/l	97%
Arsenic	3,18	0,03	3,30	0,495	µg/l	104%
Barium	37,92	0,17	38,7	3,87	µg/l	102%
Lead	3,91	0,03	3,68	0,368	µg/l	94%
Cadmium	1,169	0,011	1,14	0,114	µg/l	98%
Chromium	0,752	0,010	<1,0		µg/l	•
Iron	59,8	0,3	57,7	5,77	µg/l	96%
Copper	8,02	0,06	7,51	0,751	µg/l	94%
Manganese	8,9	0,3	8,65	0,865	µg/l	97%
Molybdenum	0,86	0,23	0,89	0,089	µg/l	103%
Nickel	2,84	0,04	2,73	0,273	µg/l	96%
Selenium	2,63	0,03	2,62	0,393	µg/l	100%
Strontium	360	3			µg/l	
Uranium	2,50	0,02	2,42	0,242	µg/l	97%
Zinc	14,9	0,4	14,3	0,143	µg/l	96%
Tin	1,03	0,03	1,00	0,1	µg/l	97%



Sample M169A
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	17,8	0,8	16,3	1,86	µg/l	92%
Antimony	0,89	0,05	0,952	0,113	µg/l	107%
Arsenic	1,830	0,016	1,69	0,235	µg/l	92%
Barium	15,81	0,12	14,8	1,72	µg/l	94%
Lead	0,579	0,012	0,452	0,051	µg/l	78%
Cadmium	0,517	0,007	0,463	0,068	µg/l	90%
Chromium	5,52	0,05	5,35	0,600	µg/l	97%
Iron	36,0	0,2	34,5	3,57	µg/l	96%
Copper	3,63	0,04	4,02	0,447	µg/l	111%
Manganese	40,9	0,3	39,7	4,12	µg/l	97%
Molybdenum	2,14	0,23	1,45	0,157	µg/l	68%
Nickel	1,60	0,03	1,10	0,148	µg/l	69%
Selenium	0,790	0,018	0,622	0,074	µg/l	79%
Strontium	694	6	700	84,5	µg/l	101%
Uranium	7,65	0,07	8,98	0,788	µg/l	117%
Zinc	29,4	0,6	29,0	3,61	µg/l	99%
Tin	2,46	0,04	1,82	0,199	µg/l	74%



Sample M169B
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	38,9	0,8	39,1	4,47	µg/l	101%
Antimony	1,57	0,06	1,34	0,159	µg/l	85%
Arsenic	3,18	0,03	2,65	0,368	µg/l	83%
Barium	37,92	0,17	37,1	4,31	µg/l	98%
Lead	3,91	0,03	3,68	0,413	µg/l	94%
Cadmium	1,169	0,011	1,28	0,189	µg/l	109%
Chromium	0,752	0,010	0,653	0,073	µg/l	87%
Iron	59,8	0,3	57,8	5,95	µg/l	97%
Copper	8,02	0,06	8,53	0,949	µg/l	106%
Manganese	8,9	0,3	8,65	0,90	µg/l	97%
Molybdenum	0,86	0,23	0,300	0,033	µg/l	35%
Nickel	2,84	0,04	3,53	0,475	µg/l	124%
Selenium	2,63	0,03	2,10	0,25	µg/l	80%
Strontium	360	3	350	42,2	µg/l	97%
Uranium	2,50	0,02	5,06	0,444	µg/l	202%
Zinc	14,9	0,4	15,0	1,87	µg/l	101%
Tin	1,03	0,03	0,762	0,083	µg/l	74%

