

IFA-Proficiency Testing Scheme for Water Analysis

**Round M159
Metals**

Sample Dispatch: 8 November 2021



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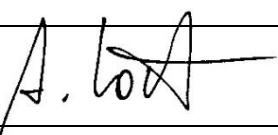
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This report summarises the results of round M159 (trace metals) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples M159A and M159B were distributed to 44 participants on Monday, 8 November 2021. Each participant received two samples of 250 mL filled into LDPE bottles.

Closing date for reporting results to the IFA-Tulln was Friday, 2 December 2021. 43 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 45.8 mg/L Ca, 19.6 mg/L Mg, 9.0 mg/L Na, 1.26 mg/L K, 20.3 mg/L SO₄²⁻ and 15.7 mg/L Cl⁻ in sample M159A and 45.7 mg/L Ca, 19.5 mg/L Mg, 9.0 mg/L Na, 1.26 mg/L K, 20.3 mg/L SO₄²⁻ and 15.7 mg/L Cl⁻ in sample M159B. 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, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, U and Zn were added, using certified spectroscopy standards. For all compounds added to the samples, the target concentrations were higher than the minimum quantifiable values of the Austrian ground and river water monitoring program. The calculation of the target concentrations of the compounds was based on the mass of standard added to the samples.

Homogeneity, accuracy and stability tests at the IFA-Tulln

Some samples of the round M159A and M159B 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 check the stability of the proficiency test samples, all parameters were determined in M159A and M159B four weeks after shipment.

According to our experience, the concentrations of Al, As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, U and Zn in the samples remain stable up to 18 months when stored at 4-6 °C in the dark. For Hg a concentration decrease of 2 % to 4 % per month can be expected.

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 %).

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 93.7 % (mercury in sample M159B) and 118.8 % (selenium in sample M159A).

The between laboratory CVs covered the ranged between 3.5 % (cadmium in sample M159A) and 27.5 % (selenium in sample M159A).

All confidence intervals of the outlier-corrected laboratory mean values except that for lead in sample M159A ($94.2\% \pm 3.1\%$) and in sample M159B ($96.4\% \pm 2.2\%$), cadmium in sample M159A ($97.6\% \pm 1.7\%$), copper in sample M159A ($94.6\% \pm 3.4\%$) and mercury in sample B ($93.7\% \pm 3.7\%$) 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 2010 to 2020. 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.

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 7.9 %, which is 5.7 µg/L Al, when based on the target value.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{73.7 \text{ µg/L} - 72.3 \text{ µg/L}}{5.7 \text{ µg/L}} \approx 0.25 \quad \text{or} \quad \frac{102\% - 100\%}{7.9\%} \approx 0.25$$

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} 5.7 µg/L equivalent to 7.9 % (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.

Parameter	standard deviation for proficiency assessment	Lower limit
Aluminium	7.9 %	8 µg/L
Arsenic	7.9 %	0.5 µg/L
Cadmium	5.6 %	0.1 µg/L
Chromium	6.6 %	0.5 µg/L
Copper	8.5 %	1.0 µg/L
Iron	6.8 %	10 µg/L
Lead	7.3 %	0.3 µg/L
Manganese	5.4 %	2.0 µg/L
Mercury	11 %	0.2 µg/L
Nickel	8.0 %	1.0 µg/L
Selenium	11 %	0.3 µg/L
Uranium	5.8 %	0.35 µg/L
Zinc	7.8 %	3 µg/L

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.

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
- “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, 13 December 2021

EXPLANATION

Sample M106A

Parameter Copper

Target value $\pm U$ ($k=2$) $4,79 \mu\text{g/l} \pm 0,13 \mu\text{g/l}$

IFA result $\pm U$ ($k=2$) $4,79 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

Stability test $\pm U$ ($k=2$) $4,69 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

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

An asterisk 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 $\pm CI(99\%)$	$4,65 \pm 0,57$	$4,51 \pm 0,42$	$\mu\text{g/l}$
Recov. $\pm CI(99\%)$	$97,1 \pm 12,0$	$94,1 \pm 8,8$	%
SD between labs	0.84	0.59	$\mu\text{g/l}$
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

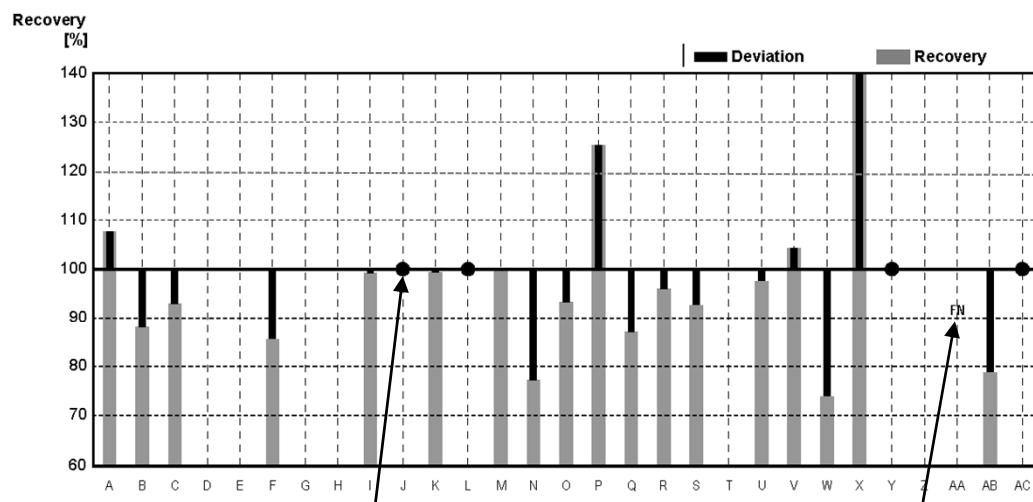


Diagram 2: Recoveries and deviations from target values

Illustration of Results Tables and Parameter Oriented Part

Round M159
Metals

Sample Dispatch: 8 November 2021



Results Sample M159A

	Aluminium	Arsenic	Lead	Cadmium	Chromium	Iron	Copper
Target value	49.1	3.07	3.50	4.16	1.29	45.0	6.61
IFA result	49.7	3.02	3.44	4.25	1.31	43.3	6.35
Stability test	48.3	2.96	3.40	3.99	1.31	43.4	6.64
A	45.1	2.58	2.93	3.93	1.21	44.6	6.9
B	54.3	3.43	3.59	4.12	1.40	48.4	6.51
C	49.6	2.99	3.18	3.96	1.23	38.8	6.19
D	54.9	3.28	3.40	4.05	1.39	49.0	6.63
E	49.9	2.99	3.25	4.13	1.31	43.0	6.20
F	48.95	3.20	3.50	4.10	<5	42.25	6.95
G	44.4	3.01	3.27	3.90	1.24	43.4	5.92
H							
I							
J	48.2	3.14	3.45	4.072	1.24	44.3	6.46
K	45.4	3.00	3.31	4.04	1.24	41.3	5.60
L	47.64	3.142	3.410	4.060	1.348	42.64	6.123
M				3.93			
N	48.9	3.32	3.51	4.20	1.22	42.2	6.51
O	51.16	3.53	3.51	4.60	1.42	52.09	7.35
P	46.8	3.02	3.29	4.18	1.21	42.8	6.2
Q	48.5	3.31	2.95	3.62	1.40	49.5	6.40
R		3.58			2.03		5.40
S	49.8	2.71	3.48	3.78	1.61	43.0	5.1
T	50.8	2.83	2.91	4.34	<5.0	46.5	7.77
U	47.9	3.11	3.20	3.96	<5	44.8	5.96
V	47.6	3.04	3.66	4.27	1.40	39.3	6.30
W	48.0	3.13	3.29	4.07	1.35	45.4	6.51
X							
Y							
Z	46.1	3.01	3.18	3.93	1.25	42.7	6.07
AA	48.8	3.11	3.12	4.00	1.27	40.1	6.02
AB	53					40.7	<10
AC	48.3	3.22	3.42	4.03	1.22	43.2	5.81
AD	46.4	2.91	3.15	3.95	1.51	41.5	5.98
AE	53.0000	3.2000	3.30000	4.04000	1.20000	43.000	6.5000
AF	51.5	2.904	3.474	3.992	1.231	45.4	6.210
AG	49.8	2.95	3.60	3.88	1.30	41.5	6.53
AH	47.9	3.38	3.41	4.06	1.31	43.1	6.56
AI	45.07	3.87	2.84	4.34	1.21	29.56	4.81
AJ			<1.0	3.60		33.0	13.0
AK							
AL							
AM	47.5	3.17	3.22	4.03	1.25	43.4	6.0
AN							
AO	37.6	2.75	2.83	3.36	1.10	94.8	6.24
AP	48.3	3.25	3.51	4.39	1.22	44.5	6.66
AQ	50.8	3.08	3.36	4.12	1.30	44.6	6.07
AR							

All data in µg/L

Measurement Uncertainties Sample M159A

	Aluminium ±	Arsenic ±	Lead ±	Cadmium ±	Chromium ±	Iron ±	Copper ±
Target value	0.3	0.02	0.03	0.02	0.01	0.3	0.04
IFA result	2.5	0.33	0.10	0.26	0.07	3.5	0.32
Stability test	2.4	0.33	0.10	0.24	0.07	3.5	0.33
A							
B	8.14	0.51	0.54	0.62	0.21	7.26	0.98
C	5.5	0.17	0.3	0.18	0.17	4.3	0.34
D	3.5	0.19	0.40	0.18	0.15	1.5	0.64
E	10	0.60	0.65	0.85	0.30	8.6	1.5
F							
G	4	0.5	0.5	0.5	0.3	4	1
H							
I							
J	9.6	0.6	0.7	0.8	0.3	8.9	1.3
K	1.75	0.09	0.06	0.11	0.09	2.1	0.48
L	4	0.3	0.3	0.4	0.1	4	0.6
M				0.51			
N	9.8	0.66	0.70	0.84	0.24	8.4	1.30
O							
P	7.0	0.60	0.494	0.54	0.121	6.4	0.93
Q	12.1	0.83	0.74	0.91	0.35	12.4	1.60
R		0.46			0.43		0.98
S							
T	7.82	0.43	0.50	0.31		3.91	1.94
U	2.5	0.13	0.04	0.05		1.1	0.5
V	4.05	0.21	0.35	0.41	0.07	2.73	0.37
W	9.60	0.72	0.76	0.98	0.23	11.8	1.69
X							
Y							
Z	1.5	0.10	0.19	0.15	0.03	1.3	0.13
AA	3.4	0.25	0.19	0.20	0.06	1.6	0.30
AB	9					7.3	
AC							
AD	2.6	0.10	0.020	0.10	0.032	0.10	0.040
AE	5.30000	0.38400	0.26400	0.32320	0.14400	11.1800	0.52000
AF	5.2	0.29	0.35	0.4	0.12	4.5	0.62
AG	10	0.59	0.72	0.88	0.26	8.3	1.3
AH	0.813	0.222	0.0697	0.143	0.169	0.260	0.0610
AI	1	0.8	0.6	0.5	0.8	2	0.5
AJ			0.06	0.02		0.4	0.08
AK							
AL							
AM	4.75	0.48	0.322	0.403	0.125	4.34	0.60
AN							
AO	3.16	0.05	0.42	0.71	0.13	28.2	1.02
AP	7.3	0.49	0.65	0.68	0.18	6.7	1.00
AQ	3.2	0.18	0.40	0.52	0.048	1.3	0.58
AR							

All data in µg/L

Results Sample M159A

	Manganese	Nickel	Mercury	Selenium	Uranium	Zinc
Target value	11.6	3.71	1.20	0.398	2.77	15.3
IFA result	11.4	3.71	1.22	0.394	2.61	15.6
Stability test	11.6	3.64	1.06	0.340	2.66	15.5
A	11.2	3.67	1.18			14.4
B	11.9	3.84	1.285	<1	2.97	15.0
C	10.9	3.53	1.06	<1	2.53	14.4
D	12.3	3.87	1.13	0.390	2.97	14.4
E	11.1	3.67	1.17	1.10	2.66	14.8
F	10.70	3.55	1.073	1.20		15.00
G	11.3	3.48	1.22	<1.0	2.68	14.2
H					2.698	
I					2.83	
J	11.4	3.35	1.15	<1	2.68	14.24
K	10.9	3.28	0.990	0.550	2.40	13.9
L	12.94	3.603		0.4367	2.690	14.06
M			1.175		2.67	
N	12.1	3.89	1.17	0.408	2.83	15.4
O	13.24	4.12	2.85	0.440	2.918	17.63
P	10.8	3.52	1.20	0.361	2.63	14.5
Q	11.2	3.67	0.948	0.642	2.41	17.6
R		3.60				14.0
S	12.1	4.06	1.06	0.79	2.43	16.8
T	11.9	3.76		<5		16.1
U	10.8	3.54	1.16	<1	2.67	14.2
V	11.8	3.70	1.21	0.98	2.90	15.9
W	11.4	3.89	1.25			13.9
X						15.1
Y			1.195			
Z	10.5	3.53	1.12	0.371	2.64	15.0
AA	11.3	3.13	0.921	<2	2.46	13.3
AB	10.5					
AC	11.4	3.02	1.09	0.37		14.1
AD	10.5	3.47	1.01	<0.440	2.47	15.0
AE	11.000	3.80000	1.145	<0.5000	2.75000	17.0000
AF	11.3	3.545	1.171	0.385	2.639	14.1
AG	11.8	3.68	1.05	<1	2.60	14.5
AH	10.9	3.80	1.19	<1.00	2.80	15.5
AI	9.9	3.35		0.475	2.51	13.55
AJ	60.0	4.00	0.50			17.0
AK					2.73	
AL	11.0					
AM	11.1	3.61	1.26	<1.0	2.69	14.4
AN				<1.00		
AO	9.52	3.66		1.04	2.57	12.8
AP	11.4	3.62	1.05	0.62	2.71	16.6
AQ	11.5	3.62	1.21	0.381	2.86	14.8
AR						

All data in µg/L

Measurement Uncertainties Sample M159A

	Manganese ±	Nickel ±	Mercury ±	Selenium ±	Uranium ±	Zinc ±
Target value	0.1	0.03	0.02	0.015	0.02	1.9
IFA result	0.8	0.19	0.23	0.059	0.29	2.0
Stability test	0.8	0.18	0.20	0.051	0.29	2.0
A						
B	1.79	0.58	0.193		0.45	2.26
C	0.6	0.27	0.16		0.27	0.9
D	0.38	0.31	0.023	0.013	0.37	2.3
E	2.5	0.80	0.25	0.25	0.60	3.0
F						
G	1.5	0.5	0.2		0.5	2
H					0.432	
I						
J	2.3	0.7	0.2		0.5	2.9
K	0.3	0.21	0.150	0.060	0.15	0.8
L	1	0.4		0.1	0.3	1
M			0.15		0.23	
N	2.4	0.78	0.23	0.082	0.57	3.1
O						
P	1.08	0.352	0.239	0.054	0.263	1.30
Q	2.8	0.92	0.237	0.161	0.6	4.4
R		0.51				2.2
S						
T	1.12	0.46				2.25
U	0.3	0.13	0.02		0.81	0.8
V	0.79	0.28	0.15	0.07	0.17	1.65
W	1.83	0.93	0.36			2.23
X						1.5
Y			0.1795			
Z	0.6	0.16	0.03	0.020	0.16	0.7
AA	0.57	0.16	0.046		0.17	0.8
AB	1.9					
AC						
AD	0.058	0.070	0.015		0.017	0.058
AE	1.10000	0.38000	0.17200		0.13800	1.70000
AF	1.1	0.36	0.12	0.04	0.26	1.4
AG	2.4	0.74	0.21		0.52	2.9
AH	1.17	0.123	0.0322		0.0774	0.372
AI	0.3	0.1		0.1	0.4	0.5
AJ	0.8	0.02	0.02			1.2
AK					0.3	
AL						
AM	1.11	0.361	0.126		0.269	1.44
AN				0.20		
AO	1.24	0.50		0.17	0.45	2.69
AP	1.7	0.38	0.16	0.09	0.15	2.5
AQ	0.36	0.29	0.024	0.013	0.35	2.3
AR						

All data in µg/L

Results Sample M159B

	Aluminium	Arsenic	Lead	Cadmium	Chromium	Iron	Copper
Target value	12.2	4.27	6.55	1.16	5.28	12.5	3.11
IFA result	12.6	4.14	6.39	1.22	5.38	11.7	3.01
Stability test	12.4	4.10	6.39	1.14	5.36	11.9	3.10
A	11.8	3.59	6.3	1.07	5.1	11.9	3.57
B	14.3	4.84	6.69	1.152	5.74	14.3	3.06
C	12.3	4.15	6.06	1.11	5.07	11.3	2.93
D	14.6	4.69	6.50	1.15	5.92	14.2	3.25
E	12.0	4.22	6.14	1.17	5.24	12.2	2.80
F	13.6	4.15	6.70	1.25	5.00	11.75	3.55
G	11.5	4.18	6.13	1.10	5.10	11.9	2.75
H							
I							
J	12.1	4.27	6.40	1.12	5.31	11.5	3.05
K	12.5	4.08	6.14	1.10	4.95	11.4	2.60
L	11.01	4.336	6.359	1.128	5.435	11.74	2.922
M				1.14			
N	11.7	4.56	6.61	1.16	5.70	12.0	2.93
O	10.94	4.80	6.60	1.20	6.14	14.58	3.40
P	11.5	4.17	6.1	1.12	4.98	11.6	2.92
Q	12.8	4.55	6.09	1.12	5.39	13.2	3.05
R		4.75			6.90		2.70
S	12.4	4.00	6.1	1.07	6.8	10.8	2.94
T	<15.0	4.65	7.03	1.21	5.50	<30	<5
U	10.9	4.25	5.95	1.10	5.54	13.8	<5
V	16.7	4.15	6.33	1.20	5.52	8.23	3.10
W	12.8	4.44	6.11	1.17	5.53	13.4	3.15
X							
Y							
Z	11.7	4.19	5.87	1.10	5.07	12.2	2.89
AA	12.9	4.35	5.86	1.12	5.25	11.5	2.84
AB	12.5					11.1	<10
AC	11.8	4.49	6.43	1.15	5.15	11.4	2.53
AD	12.9	4.03	5.90	1.08	5.41	11.5	2.93
AE	15.0000	4.40000	6.20000	1.13000	5.20000	14.000	3.30000
AF	12.9	4.042	6.548	1.111	5.135	12.6	2.903
AG	15.3	4.08	6.73	1.10	5.38	11.0	3.10
AH	11.0	4.27	6.24	1.14	5.03	10.6	3.30
AI	12.70	5.68	6.22	0.52	4.79	13.1	2.14
AJ			1.80	20.0		<1.0	11.0
AK							
AL							
AM	12.5	4.08	6.06	1.14	5.05	12.1	2.84
AN							
AO	12.9	4.58	6.55	1.22	5.36	146	3.36
AP	11.8	4.58	6.7	1.18	5.2	12.0	3.10
AQ	13.1	4.32	6.35	1.15	5.38	12.6	2.85
AR							

All data in µg/L

Measurement Uncertainties Sample M159B

	Aluminium ±	Arsenic ±	Lead ±	Cadmium ±	Chromium ±	Iron ±	Copper ±
Target value	0.2	0.03	0.05	0.01	0.04	0.3	0.03
IFA result	0.6	0.46	0.19	0.07	0.16	1.1	0.18
Stability test	0.6	0.45	0.19	0.07	0.16	1.1	0.19
A							
B	2.14	0.73	1.00	0.173	0.86	2.14	0.46
C	1.4	0.23	0.64	0.09	0.71	1.3	0.16
D	0.94	0.28	0.77	0.75	0.04	0.43	0.31
E	2.5	0.85	0.35	0.25	1.5	2.5	0.60
F							
G	1	0.5	1	0.2	1	2	0.5
H							
I							
J	2.4	0.8	1.3	0.2	1.1	2.3	0.6
K	1.16	0.10	0.18	0	0.10	0.7	0.32
L	1	0.4	0.6	0.1	0.5	1	0.3
M				0.15			
N	2.3	0.91	1.32	0.23	1.14	2.4	0.59
O							
P	1.73	0.83	0.92	0.146	0.498	1.75	0.438
Q	3.2	1.14	1.52	0.28	1.35	3.3	0.76
R		0.61			1.42		0.50
S							
T		0.70	1.20	0.09	0.46		
U	3	0.12	0.06	0.03	0.05	1	
V	1.42	0.28	0.60	0.11	0.27	0.57	0.18
W	2.57	1.02	1.40	0.28	0.94	3.49	0.82
X							
Y							
Z	0.7	0.14	0.32	0.04	0.21	0.5	0.11
AA	0.9	0.35	0.35	0.06	0.26	0.5	0.14
AB	2.1					2.0	
AC							
AD	0.14	0.20	0.076	0.006	0.16	0.15	0.042
AE	1.50000	0.52800	0.49600	0.09040	0.62400	3.64000	0.26400
AF	1.3	0.4	0.66	0.11	0.51	1.26	0.29
AG	3.1	0.82	1.35	0.22	1.1	2.2	0.62
AH	0.956	0.216	0.0872	0.144	0.140	0.302	0.0618
AI	0.5	0.8	0.8	0.1	0.3	1	0.4
AJ			0.06	0.02		0.4	0.08
AK							
AL							
AM	1.25	0.61	0.61	0.114	0.51	0.121	0.284
AN							
AO	1.08	0.08	0.98	0.26	0.61	43.7	0.55
AP	1.8	0.69	1.2	0.18	0.8	1.8	0.47
AQ	0.84	0.26	0.76	0.15	0.20	0.38	0.27
AR							

All data in µg/L

Results Sample M159B

	Manganese	Nickel	Mercury	Selenium	Uranium	Zinc
Target value	40.2	5.10	1.72	1.94	4.93	26.0
IFA result	38.8	5.11	1.73	1.91	4.60	26.0
Stability test	39.3	5.07	1.54	2.09	4.74	25.6
A	39.1	4.99	1.70			24.7
B	42.3	5.24	1.81	2.27	5.53	25.9
C	38.5	4.87	1.54	1.82	4.38	24.5
D	44.1	5.50	1.64	1.95	5.42	25.4
E	38.5	5.10	1.68	2.00	4.77	25.0
F	37.15	4.85	1.567	3.05		25.5
G	39.3	4.81	1.75	1.92	4.78	24.1
H					4.803	
I					5.0	
J	39.6	4.74	1.65	1.87	4.78	24.0
K	38.8	4.72	1.41	2.09	4.21	23.3
L	45.37	4.977		1.936	4.656	24.73
M			1.634		4.84	
N	43.9	5.30	1.66	1.94	5.00	26.7
O	46.99	5.49	3.77	2.45	5.08	31.05
P	37.4	4.83	1.65	1.81	4.62	24.4
Q	38.8	5.04	1.49	2.31	4.67	26.1
R		4.84				24.1
S	47.2	5.1	1.40	1.86	4.77	27.5
T	41.3	5.65		<5		26.7
U	37.5	4.77	1.50	1.70	4.04	25.1
V	39.6	5.00	1.67	1.80	4.70	27.7
W	41.6	5.56	1.81	2.44		24.9
X						25.9
Y			1.658			
Z	36.7	4.85	1.60	1.81	4.77	24.9
AA	40.0	4.48	1.36	2.18	4.38	24.8
AB	36.5					
AC	39.7	4.3	1.58	1.96		24.3
AD	36.7	4.96	1.46	1.82	4.36	24.5
AE	41.0000	5.20000	1.76100	1.90000	4.85000	27.0000
AF	39.5	4.935	1.682	1.869	4.727	24.4
AG	40.0	5.08	1.55	2.08	4.60	25.3
AH	39.6	5.01	1.68	2.12	4.95	26.8
AI	34.5	4.52		2.53	5.28	23.9
AJ	90.0	<1.0	1.40			26.0
AK					4.75	
AL	38.4					
AM	38.7	4.85	1.80	1.89	4.71	24.9
AN				1.925		
AO	41.7	6.14		1.97	4.98	26.5
AP	39.4	4.94	1.53	2.17	4.74	28.6
AQ	40.57	5.02	1.73	1.96	5.14	25.2
AR						

All data in µg/L

Measurement Uncertainties Sample M159B

	Manganese ±	Nickel ±	Mercury ±	Selenium ±	Uranium ±	Zinc ±
Target value	0.3	0.04	0.03	0.02	0.04	1.9
IFA result	2.7	0.20	0.33	0.23	0.51	3.1
Stability test	2.8	0.20	0.29	0.25	0.52	3.1
A						
B	6.35	0.79	0.27	0.34	0.83	3.88
C	2.1	0.37	0.24	0.22	0.46	1.5
D	1.4	0.45	0.033	0.066	0.67	4.0
E	8.0	1.5	0.25	0.40	1.0	5.0
F						
G	5	1	0.3	0.3	1	5
H					0.768	
I						
J	7.9	0.9	0.3	0.4	1.0	0.5
K	1.8	0.26	0.22	0.18	0.38	1.5
L	5	0.5		0.2	0.5	2
M			0.21		0.42	
N	8.8	1.06	0.33	0.39	1	5.3
O						
P	3.74	0.483	0.331	0.271	0.462	2.19
Q	9.7	1.26	0.37	0.58	1.17	6.5
R		0.69				3.9
S						
T	3.88	0.70				3.74
U	0.5	0.1	0.02	0.22	0.77	1
V	2.66	0.37	0.20	0.13	0.28	2.87
W	6.65	1.33	0.54	0.71		3.98
X						2.6
Y			0.2487			
Z	1.8	0.25	0.02	0.11	0.15	0.7
AA	2.0	0.22	0.07	0.09	0.30	1.5
AB	6.6					
AC						
AD	0.32	0.11	0.017	0.049	0.035	0.25
AE	4.1000	0.52000	0.26400	0.28500	0.24300	2.70000
AF	4	0.49	0.17	0.19	0.47	2.5
AG	8.0	1.0	0.31	0.42	0.92	5.1
AH	0.985	0.120	0.0338	0.139	0.0724	0.342
AI	1	0.2		0.5	0.8	0.5
AJ	0.8	0.02	0.02			1.2
AK					0.5	
AL						
AM	3.87	0.485	0.180	0.284	0.471	2.49
AN				0.385		
AO	5.42	0.84		0.32	0.87	5.57
AP	5.9	0.52	0.23	0.33	0.26	4.3
AQ	1.3	0.41	0.030	0.067	0.63	4.0
AR						

All data in µg/L

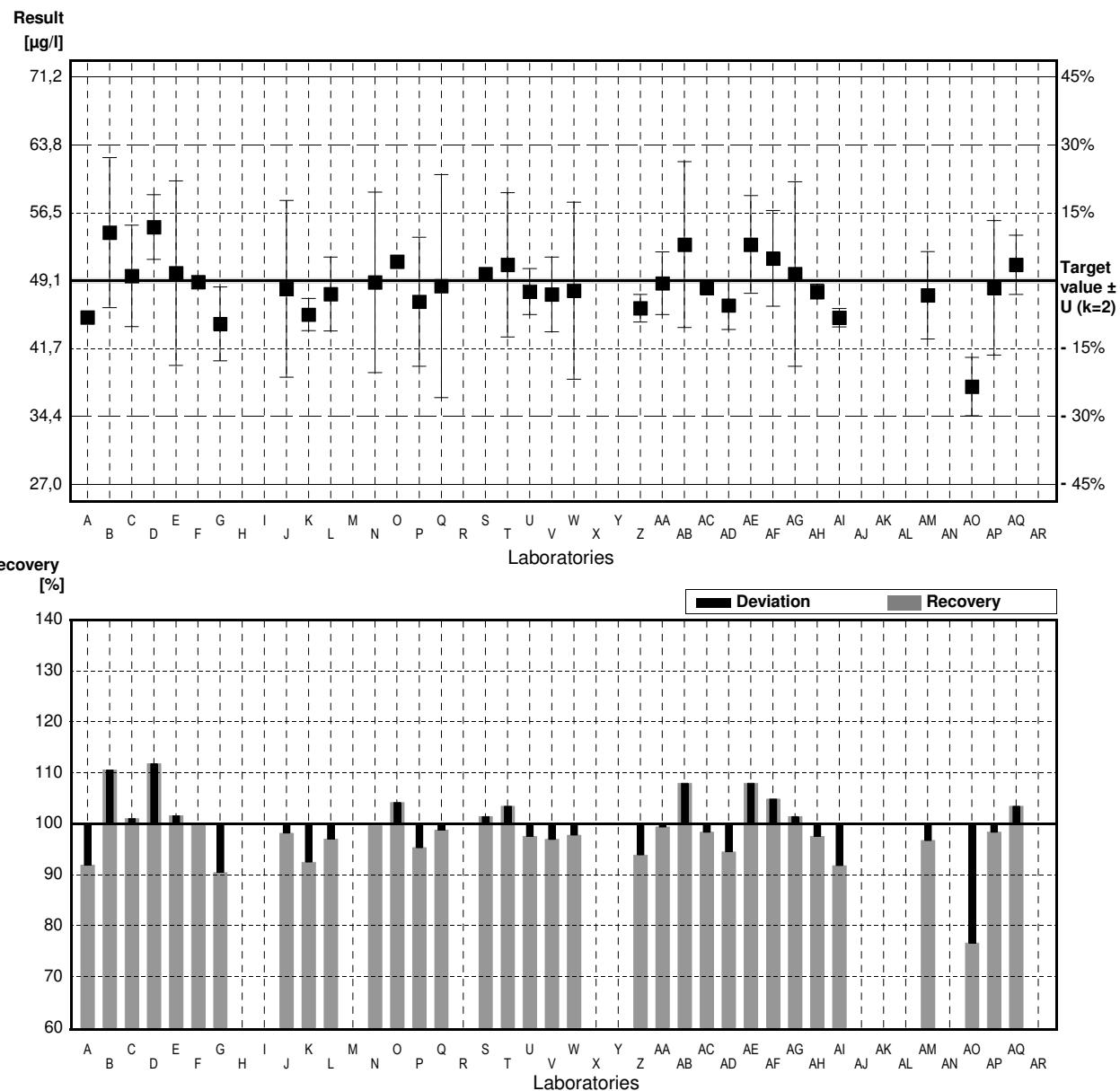
Sample M159A

Parameter Aluminium

Target value $\pm U$ ($k=2$) 49,1 $\mu\text{g/l}$ \pm 0,3 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 49,7 $\mu\text{g/l}$ \pm 2,5 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 48,3 $\mu\text{g/l}$ \pm 2,4 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	45,1		$\mu\text{g/l}$	92%	-1,03
B	54,3	8,14	$\mu\text{g/l}$	111%	1,34
C	49,6	5,5	$\mu\text{g/l}$	101%	0,13
D	54,9	3,5	$\mu\text{g/l}$	112%	1,50
E	49,9	10	$\mu\text{g/l}$	102%	0,21
F	48,95		$\mu\text{g/l}$	100%	-0,04
G	44,4	4	$\mu\text{g/l}$	90%	-1,21
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	48,2	9,6	$\mu\text{g/l}$	98%	-0,23
K	45,4	1,75	$\mu\text{g/l}$	92%	-0,95
L	47,64	4	$\mu\text{g/l}$	97%	-0,38
M			$\mu\text{g/l}$		
N	48,9	9,8	$\mu\text{g/l}$	100%	-0,05
O	51,16		$\mu\text{g/l}$	104%	0,53
P	46,8	7,0	$\mu\text{g/l}$	95%	-0,59
Q	48,5	12,1	$\mu\text{g/l}$	99%	-0,15
R			$\mu\text{g/l}$		
S	49,8		$\mu\text{g/l}$	101%	0,18
T	50,8	7,82	$\mu\text{g/l}$	103%	0,44
U	47,9	2,5	$\mu\text{g/l}$	98%	-0,31
V	47,6	4,05	$\mu\text{g/l}$	97%	-0,39
W	48,0	9,60	$\mu\text{g/l}$	98%	-0,28
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	46,1	1,5	$\mu\text{g/l}$	94%	-0,77
AA	48,8	3,4	$\mu\text{g/l}$	99%	-0,08
AB	53	9	$\mu\text{g/l}$	108%	1,01
AC	48,3		$\mu\text{g/l}$	98%	-0,21
AD	46,4	2,6	$\mu\text{g/l}$	95%	-0,70
AE	53,0000	5,30000	$\mu\text{g/l}$	108%	1,01
AF	51,5	5,2	$\mu\text{g/l}$	105%	0,62
AG	49,8	10	$\mu\text{g/l}$	101%	0,18
AH	47,9	0,813	$\mu\text{g/l}$	98%	-0,31
AI	45,07	1	$\mu\text{g/l}$	92%	-1,04
AJ			$\mu\text{g/l}$		
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	47,5	4,75	$\mu\text{g/l}$	97%	-0,41
AN			$\mu\text{g/l}$		
AO	37,6 *	3,16	$\mu\text{g/l}$	77%	-2,96
AP	48,3	7,3	$\mu\text{g/l}$	98%	-0,21
AQ	50,8	3,2	$\mu\text{g/l}$	103%	0,44
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	48,5 \pm 1,5	48,9 \pm 1,3	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	98,9 \pm 3,1	99,6 \pm 2,6	%
SD between labs	3,2	2,6	$\mu\text{g/l}$
RSD between labs	6,7	5,3	%
n for calculation	33	32	



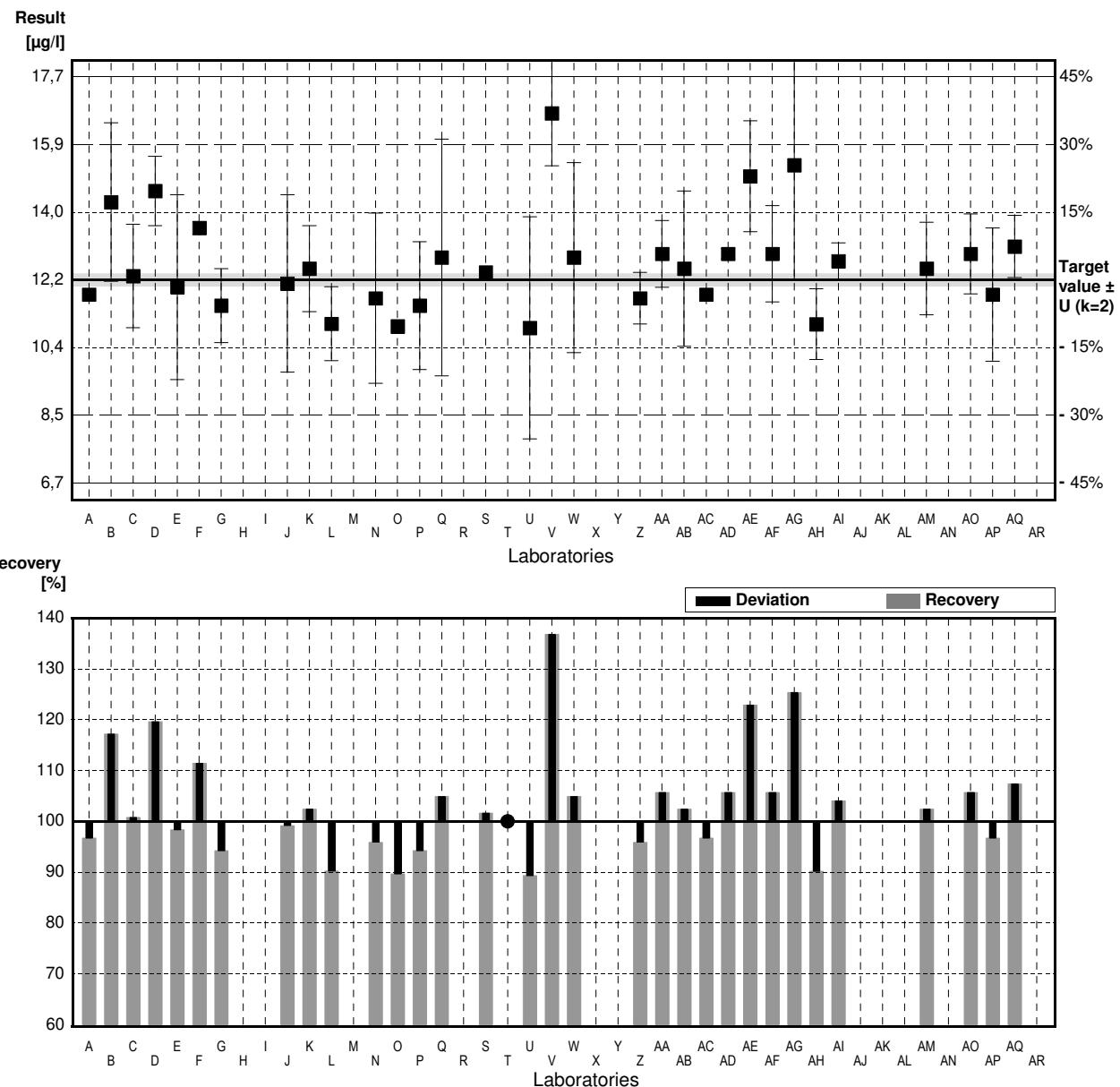
Sample M159B

Parameter Aluminium

Target value $\pm U$ ($k=2$) 12,2 $\mu\text{g/l}$ \pm 0,2 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 12,6 $\mu\text{g/l}$ \pm 0,6 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 12,4 $\mu\text{g/l}$ \pm 0,6 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	11.8		$\mu\text{g/l}$	97%	-0.42
B	14.3	2,14	$\mu\text{g/l}$	117%	2,18
C	12,3	1,4	$\mu\text{g/l}$	101%	0,10
D	14,6	0,94	$\mu\text{g/l}$	120%	2,49
E	12,0	2,5	$\mu\text{g/l}$	98%	-0,21
F	13,6		$\mu\text{g/l}$	111%	1,45
G	11,5	1	$\mu\text{g/l}$	94%	-0,73
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	12,1	2,4	$\mu\text{g/l}$	99%	-0,10
K	12,5	1,16	$\mu\text{g/l}$	102%	0,31
L	11,01	1	$\mu\text{g/l}$	90%	-1,23
M			$\mu\text{g/l}$		
N	11,7	2,3	$\mu\text{g/l}$	96%	-0,52
O	10,94		$\mu\text{g/l}$	90%	-1,31
P	11,5	1,73	$\mu\text{g/l}$	94%	-0,73
Q	12,8	3,2	$\mu\text{g/l}$	105%	0,62
R			$\mu\text{g/l}$		
S	12,4		$\mu\text{g/l}$	102%	0,21
T	<15,0		$\mu\text{g/l}$	*	
U	10,9	3	$\mu\text{g/l}$	89%	-1,35
V	16,7 *	1,42	$\mu\text{g/l}$	137%	4,67
W	12,8	2,57	$\mu\text{g/l}$	105%	0,62
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	11,7	0,7	$\mu\text{g/l}$	96%	-0,52
AA	12,9	0,9	$\mu\text{g/l}$	106%	0,73
AB	12,5	2,1	$\mu\text{g/l}$	102%	0,31
AC	11,8		$\mu\text{g/l}$	97%	-0,42
AD	12,9	0,14	$\mu\text{g/l}$	106%	0,73
AE	15,0000	1,50000	$\mu\text{g/l}$	123%	2,91
AF	12,9	1,3	$\mu\text{g/l}$	106%	0,73
AG	15,3	3,1	$\mu\text{g/l}$	125%	3,22
AH	11,0	0,956	$\mu\text{g/l}$	90%	-1,25
AI	12,70	0,5	$\mu\text{g/l}$	104%	0,52
AJ			$\mu\text{g/l}$		
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	12,5	1,25	$\mu\text{g/l}$	102%	0,31
AN			$\mu\text{g/l}$		
AO	12,9	1,08	$\mu\text{g/l}$	106%	0,73
AP	11,8	1,8	$\mu\text{g/l}$	97%	-0,42
AQ	13,1	0,84	$\mu\text{g/l}$	107%	0,93
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	$12,6 \pm 0,7$	$12,5 \pm 0,6$	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	$103,6 \pm 5,3$	$102,5 \pm 4,6$	%
SD between labs	1,3	1,1	$\mu\text{g/l}$
RSD between labs	10,6	9,1	%
n for calculation	32	31	



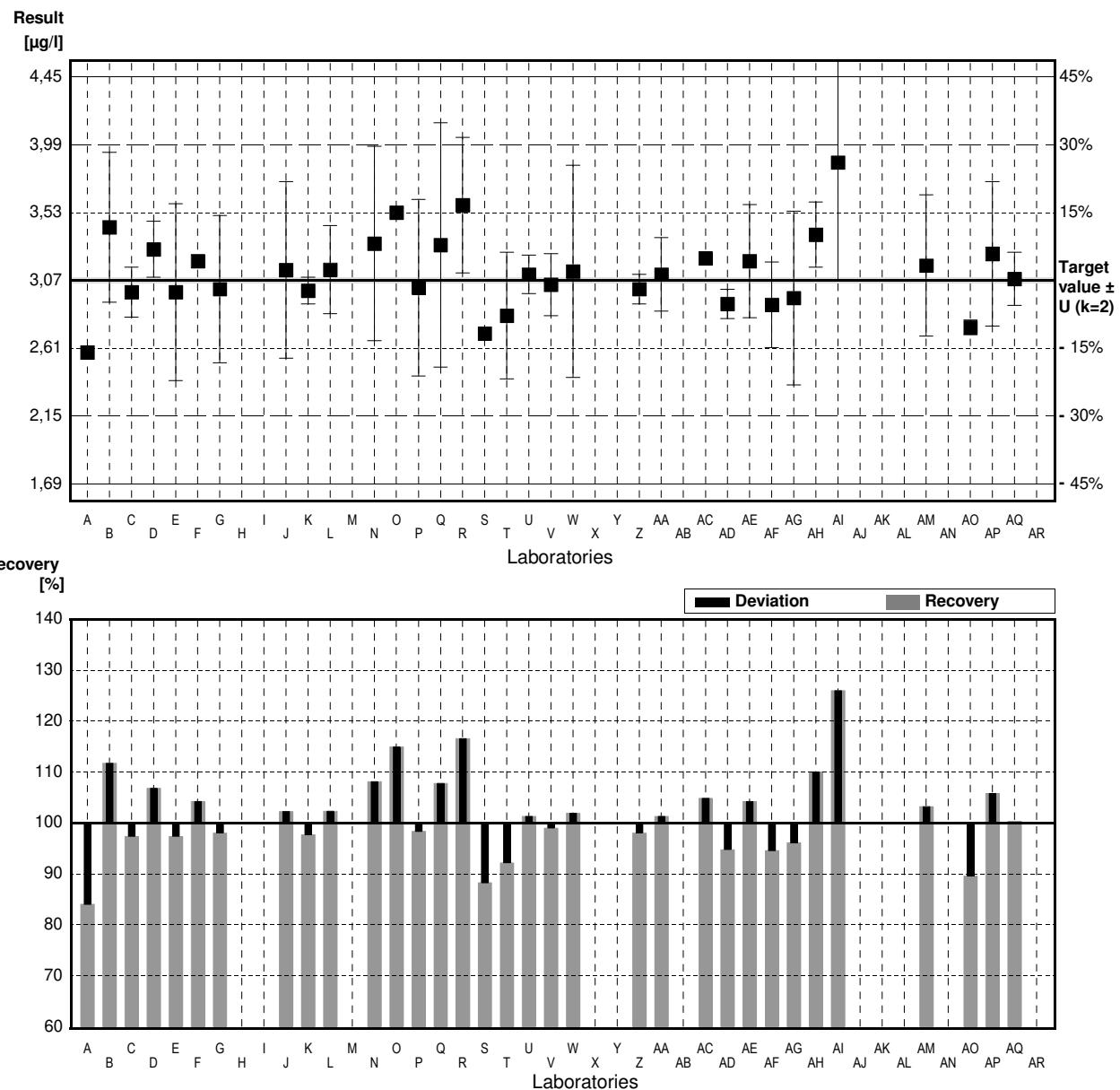
Sample M159A

Parameter Arsenic

Target value $\pm U$ ($k=2$) 3,07 µg/l \pm 0,02 µg/l
 IFA result $\pm U$ ($k=2$) 3,02 µg/l \pm 0,33 µg/l
 Stability test $\pm U$ ($k=2$) 2,96 µg/l \pm 0,33 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	2,58		µg/l	84%	-2,02
B	3,43	0,51	µg/l	112%	1,48
C	2,99	0,17	µg/l	97%	-0,33
D	3,28	0,19	µg/l	107%	0,87
E	2,99	0,60	µg/l	97%	-0,33
F	3,20		µg/l	104%	0,54
G	3,01	0,5	µg/l	98%	-0,25
H			µg/l		
I			µg/l		
J	3,14	0,6	µg/l	102%	0,29
K	3,00	0,09	µg/l	98%	-0,29
L	3,142	0,3	µg/l	102%	0,30
M			µg/l		
N	3,32	0,66	µg/l	108%	1,03
O	3,53		µg/l	115%	1,90
P	3,02	0,60	µg/l	98%	-0,21
Q	3,31	0,83	µg/l	108%	0,99
R	3,58	0,46	µg/l	117%	2,10
S	2,71		µg/l	88%	-1,48
T	2,83	0,43	µg/l	92%	-0,99
U	3,11	0,13	µg/l	101%	0,16
V	3,04	0,21	µg/l	99%	-0,12
W	3,13	0,72	µg/l	102%	0,25
X			µg/l		
Y			µg/l		
Z	3,01	0,10	µg/l	98%	-0,25
AA	3,11	0,25	µg/l	101%	0,16
AB			µg/l		
AC	3,22		µg/l	105%	0,62
AD	2,91	0,10	µg/l	95%	-0,66
AE	3,2000	0,38400	µg/l	104%	0,54
AF	2,904	0,29	µg/l	95%	-0,68
AG	2,95	0,59	µg/l	96%	-0,49
AH	3,38	0,222	µg/l	110%	1,28
AI	3,87 *	0,8	µg/l	126%	3,30
AJ			µg/l		
AK			µg/l		
AL			µg/l		
AM	3,17	0,48	µg/l	103%	0,41
AN			µg/l		
AO	2,75	0,05	µg/l	90%	-1,32
AP	3,25	0,49	µg/l	106%	0,74
AQ	3,08	0,18	µg/l	100%	0,04
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	3,13 \pm 0,12	3,10 \pm 0,11	µg/l
Recov. \pm CI(99%)	101,8 \pm 4,0	101,1 \pm 3,6	%
SD between labs	0,26	0,22	µg/l
RSD between labs	8,3	7,3	%
n for calculation	33	32	



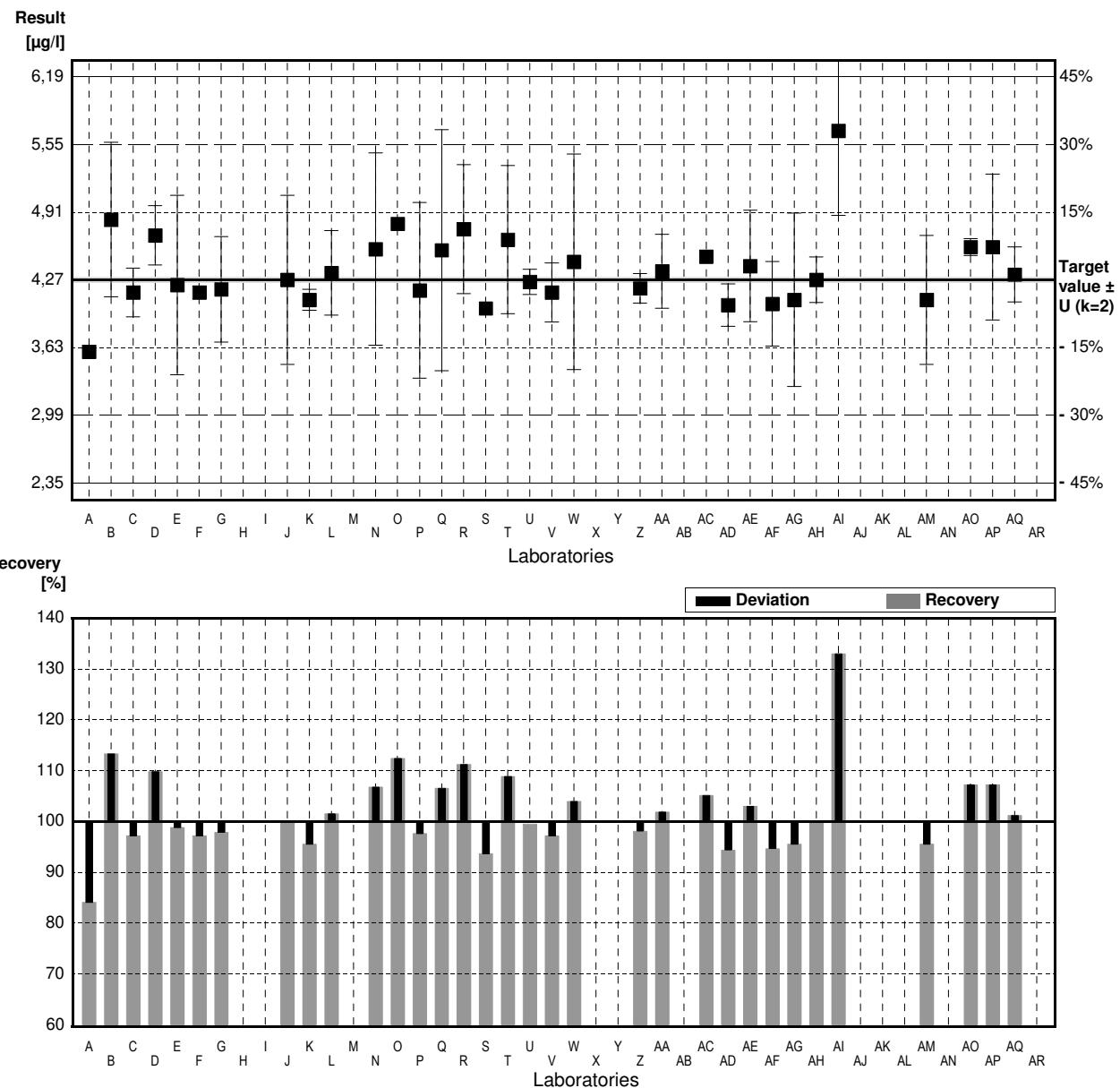
Sample M159B

Parameter Arsenic

Target value $\pm U$ ($k=2$) 4,27 $\mu\text{g/l}$ \pm 0,03 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 4,14 $\mu\text{g/l}$ \pm 0,46 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 4,10 $\mu\text{g/l}$ \pm 0,45 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3.59		$\mu\text{g/l}$	84%	-2.02
B	4.84	0.73	$\mu\text{g/l}$	113%	1.69
C	4.15	0.23	$\mu\text{g/l}$	97%	-0.36
D	4.69	0.28	$\mu\text{g/l}$	110%	1.25
E	4.22	0.85	$\mu\text{g/l}$	99%	-0.15
F	4.15		$\mu\text{g/l}$	97%	-0.36
G	4.18	0.5	$\mu\text{g/l}$	98%	-0.27
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	4.27	0.8	$\mu\text{g/l}$	100%	0.00
K	4.08	0.10	$\mu\text{g/l}$	96%	-0.56
L	4.336	0.4	$\mu\text{g/l}$	102%	0.20
M			$\mu\text{g/l}$		
N	4.56	0.91	$\mu\text{g/l}$	107%	0.86
O	4.80		$\mu\text{g/l}$	112%	1.57
P	4.17	0.83	$\mu\text{g/l}$	98%	-0.30
Q	4.55	1.14	$\mu\text{g/l}$	107%	0.83
R	4.75	0.61	$\mu\text{g/l}$	111%	1.42
S	4.00		$\mu\text{g/l}$	94%	-0.80
T	4.65	0.70	$\mu\text{g/l}$	109%	1.13
U	4.25	0.12	$\mu\text{g/l}$	100%	-0.06
V	4.15	0.28	$\mu\text{g/l}$	97%	-0.36
W	4.44	1.02	$\mu\text{g/l}$	104%	0.50
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	4.19	0.14	$\mu\text{g/l}$	98%	-0.24
AA	4.35	0.35	$\mu\text{g/l}$	102%	0.24
AB			$\mu\text{g/l}$		
AC	4.49		$\mu\text{g/l}$	105%	0.65
AD	4.03	0.20	$\mu\text{g/l}$	94%	-0.71
AE	4.40000	0.52800	$\mu\text{g/l}$	103%	0.39
AF	4.042	0.4	$\mu\text{g/l}$	95%	-0.68
AG	4.08	0.82	$\mu\text{g/l}$	96%	-0.56
AH	4.27	0.216	$\mu\text{g/l}$	100%	0.00
AI	5.68 *	0.8	$\mu\text{g/l}$	133%	4.18
AJ			$\mu\text{g/l}$		
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	4.08	0.61	$\mu\text{g/l}$	96%	-0.56
AN			$\mu\text{g/l}$		
AO	4.58	0.08	$\mu\text{g/l}$	107%	0.92
AP	4.58	0.69	$\mu\text{g/l}$	107%	0.92
AQ	4.32	0.26	$\mu\text{g/l}$	101%	0.15
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	4,36 \pm 0,17	4,32 \pm 0,13	$\mu\text{g/l}$
Recov. \pm CI(99%)	102,1 \pm 4,0	101,2 \pm 3,1	%
SD between labs	0,36	0,28	$\mu\text{g/l}$
RSD between labs	8,3	6,4	%
n for calculation	33	32	



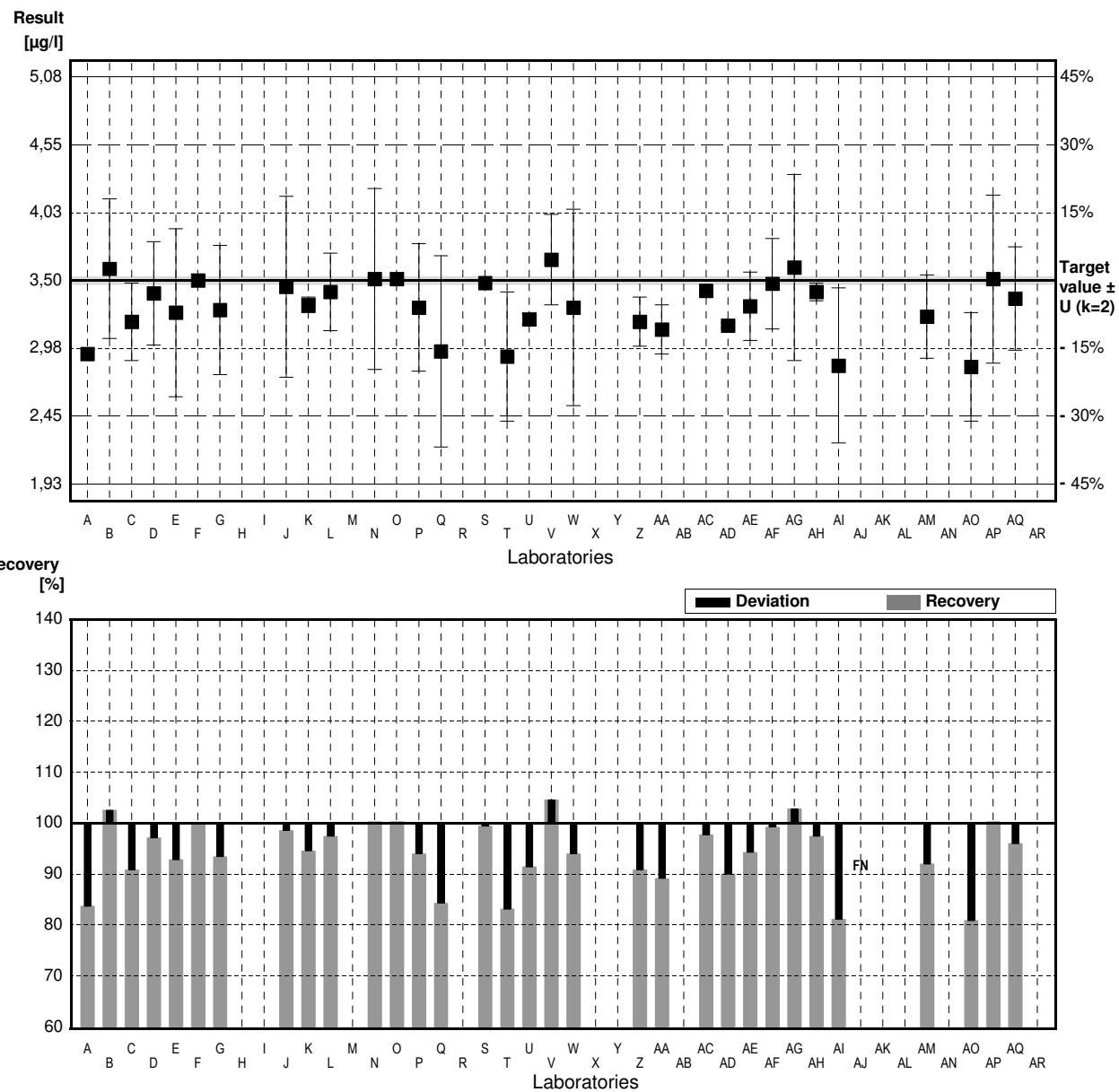
Sample M159A

Parameter Lead

Target value $\pm U$ ($k=2$) 3,50 µg/l \pm 0,03 µg/l
 IFA result $\pm U$ ($k=2$) 3,44 µg/l \pm 0,10 µg/l
 Stability test $\pm U$ ($k=2$) 3,40 µg/l \pm 0,10 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	2,93		µg/l	84%	-2,23
B	3,59	0,54	µg/l	103%	0,35
C	3,18	0,3	µg/l	91%	-1,25
D	3,40	0,40	µg/l	97%	-0,39
E	3,25	0,65	µg/l	93%	-0,98
F	3,50		µg/l	100%	0,00
G	3,27	0,5	µg/l	93%	-0,90
H			µg/l		
I			µg/l		
J	3,45	0,7	µg/l	99%	-0,20
K	3,31	0,06	µg/l	95%	-0,74
L	3,410	0,3	µg/l	97%	-0,35
M			µg/l		
N	3,51	0,70	µg/l	100%	0,04
O	3,51		µg/l	100%	0,04
P	3,29	0,494	µg/l	94%	-0,82
Q	2,95	0,74	µg/l	84%	-2,15
R			µg/l		
S	3,48		µg/l	99%	-0,08
T	2,91	0,50	µg/l	83%	-2,31
U	3,20	0,04	µg/l	91%	-1,17
V	3,66	0,35	µg/l	105%	0,63
W	3,29	0,76	µg/l	94%	-0,82
X			µg/l		
Y			µg/l		
Z	3,18	0,19	µg/l	91%	-1,25
AA	3,12	0,19	µg/l	89%	-1,49
AB			µg/l		
AC	3,42		µg/l	98%	-0,31
AD	3,15	0,020	µg/l	90%	-1,37
AE	3,30000	0,26400	µg/l	94%	-0,78
AF	3,474	0,35	µg/l	99%	-0,10
AG	3,60	0,72	µg/l	103%	0,39
AH	3,41	0,0697	µg/l	97%	-0,35
AI	2,84	0,6	µg/l	81%	-2,58
AJ	<1,0	0,06	µg/l	FN	
AK			µg/l		
AL			µg/l		
AM	3,22	0,322	µg/l	92%	-1,10
AN			µg/l		
AO	2,83	0,42	µg/l	81%	-2,62
AP	3,51	0,65	µg/l	100%	0,04
AQ	3,36	0,40	µg/l	96%	-0,55
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	3,30 \pm 0,11	3,30 \pm 0,11	µg/l
Recov. \pm CI(99%)	94,2 \pm 3,1	94,2 \pm 3,1	%
SD between labs	0,22	0,22	µg/l
RSD between labs	6,8	6,8	%
n for calculation	32	32	



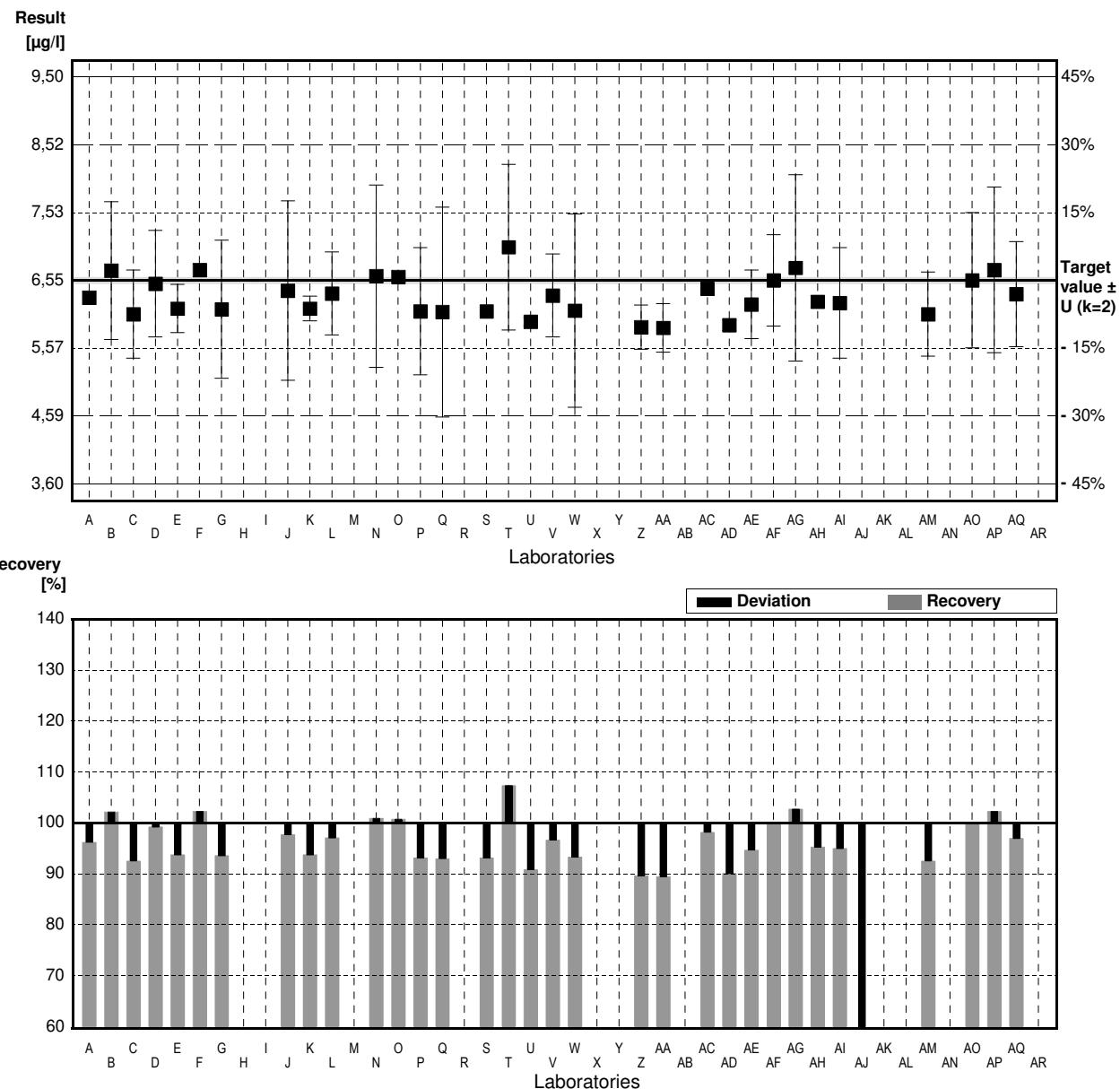
Sample M159B

Parameter Lead

Target value $\pm U$ ($k=2$) 6,55 µg/l \pm 0,05 µg/l
 IFA result $\pm U$ ($k=2$) 6,39 µg/l \pm 0,19 µg/l
 Stability test $\pm U$ ($k=2$) 6,39 µg/l \pm 0,19 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	6.3		µg/l	96%	-0.52
B	6.69	1.00	µg/l	102%	0.29
C	6.06	0.64	µg/l	93%	-1.02
D	6.50	0.77	µg/l	99%	-0.10
E	6.14	0.35	µg/l	94%	-0.86
F	6.70		µg/l	102%	0.31
G	6.13	1	µg/l	94%	-0.88
H			µg/l		
I			µg/l		
J	6.40	1.3	µg/l	98%	-0.31
K	6.14	0.18	µg/l	94%	-0.86
L	6.359	0.6	µg/l	97%	-0.40
M			µg/l		
N	6.61	1.32	µg/l	101%	0.13
O	6.60		µg/l	101%	0.10
P	6.1	0.92	µg/l	93%	-0.94
Q	6.09	1.52	µg/l	93%	-0.96
R			µg/l		
S	6.1		µg/l	93%	-0.94
T	7.03	1.20	µg/l	107%	1.00
U	5.95	0.06	µg/l	91%	-1.25
V	6.33	0.60	µg/l	97%	-0.46
W	6.11	1.40	µg/l	93%	-0.92
X			µg/l		
Y			µg/l		
Z	5.87	0.32	µg/l	90%	-1.42
AA	5.86	0.35	µg/l	89%	-1.44
AB			µg/l		
AC	6.43		µg/l	98%	-0.25
AD	5.90	0.076	µg/l	90%	-1.36
AE	6.20000	0.49600	µg/l	95%	-0.73
AF	6.548	0.66	µg/l	100%	0.00
AG	6.73	1.35	µg/l	103%	0.38
AH	6.24	0.0872	µg/l	95%	-0.65
AI	6.22	0.8	µg/l	95%	-0.69
AJ	1.80	*	µg/l	27%	-9.93
AK			µg/l		
AL			µg/l		
AM	6.06	0.61	µg/l	93%	-1.02
AN			µg/l		
AO	6.55	0.98	µg/l	100%	0.00
AP	6.7	1.2	µg/l	102%	0.31
AQ	6.35	0.76	µg/l	97%	-0.42
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	6,18 \pm 0,40	6,31 \pm 0,14	µg/l
Recov. \pm CI(99%)	94,3 \pm 6,1	96,4 \pm 2,2	%
SD between labs	0,84	0,29	µg/l
RSD between labs	13,5	4,6	%
n for calculation	33	32	



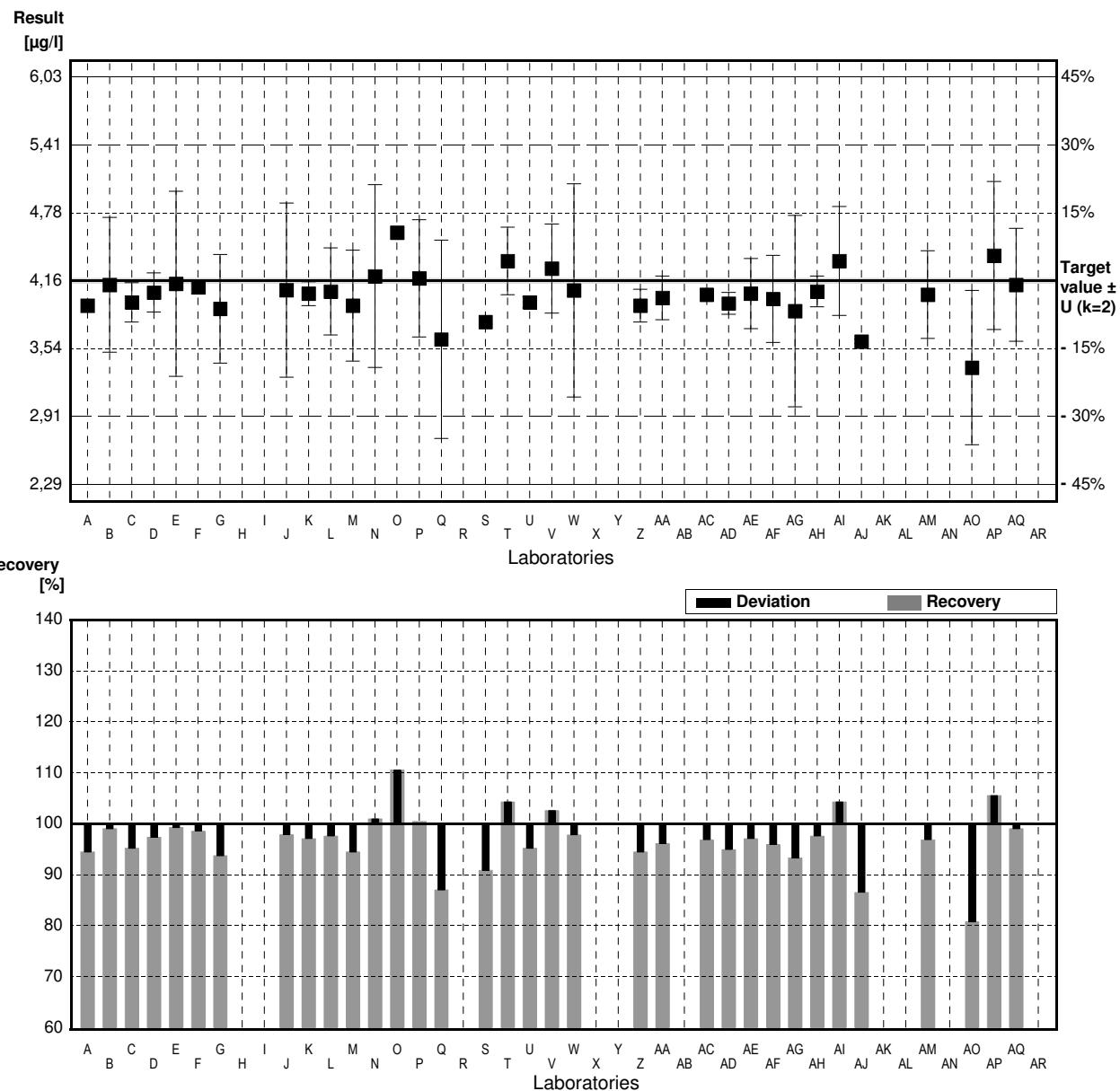
Sample M159A

Parameter Cadmium

Target value $\pm U$ ($k=2$) 4,16 $\mu\text{g/l}$ \pm 0,02 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 4,25 $\mu\text{g/l}$ \pm 0,26 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 3,99 $\mu\text{g/l}$ \pm 0,24 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3,93		$\mu\text{g/l}$	94%	-0,99
B	4,12	0,62	$\mu\text{g/l}$	99%	-0,17
C	3,96	0,18	$\mu\text{g/l}$	95%	-0,86
D	4,05	0,18	$\mu\text{g/l}$	97%	-0,47
E	4,13	0,85	$\mu\text{g/l}$	99%	-0,13
F	4,10		$\mu\text{g/l}$	99%	-0,26
G	3,90	0,5	$\mu\text{g/l}$	94%	-1,12
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	4,072	0,8	$\mu\text{g/l}$	98%	-0,38
K	4,04	0,11	$\mu\text{g/l}$	97%	-0,52
L	4,060	0,4	$\mu\text{g/l}$	98%	-0,43
M	3,93	0,51	$\mu\text{g/l}$	94%	-0,99
N	4,20	0,84	$\mu\text{g/l}$	101%	0,17
O	4,60	*	$\mu\text{g/l}$	111%	1,89
P	4,18	0,54	$\mu\text{g/l}$	100%	0,09
Q	3,62	*	$\mu\text{g/l}$	87%	-2,32
R			$\mu\text{g/l}$		
S	3,78		$\mu\text{g/l}$	91%	-1,63
T	4,34	0,31	$\mu\text{g/l}$	104%	0,77
U	3,96	0,05	$\mu\text{g/l}$	95%	-0,86
V	4,27	0,41	$\mu\text{g/l}$	103%	0,47
W	4,07	0,98	$\mu\text{g/l}$	98%	-0,39
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	3,93	0,15	$\mu\text{g/l}$	94%	-0,99
AA	4,00	0,20	$\mu\text{g/l}$	96%	-0,69
AB			$\mu\text{g/l}$		
AC	4,03		$\mu\text{g/l}$	97%	-0,56
AD	3,95	0,10	$\mu\text{g/l}$	95%	-0,90
AE	4,04000	0,32320	$\mu\text{g/l}$	97%	-0,52
AF	3,992	0,4	$\mu\text{g/l}$	96%	-0,72
AG	3,88	0,88	$\mu\text{g/l}$	93%	-1,20
AH	4,06	0,143	$\mu\text{g/l}$	98%	-0,43
AI	4,34	0,5	$\mu\text{g/l}$	104%	0,77
AJ	3,60	*	$\mu\text{g/l}$	87%	-2,40
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	4,03	0,403	$\mu\text{g/l}$	97%	-0,56
AN			$\mu\text{g/l}$		
AO	3,36	*	$\mu\text{g/l}$	81%	-3,43
AP	4,39	0,68	$\mu\text{g/l}$	106%	0,99
AQ	4,12	0,52	$\mu\text{g/l}$	99%	-0,17
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	4,03 $\pm 0,11$	4,06 $\pm 0,07$	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	96,9 $\pm 2,6$	97,6 $\pm 1,7$	%
SD between labs	0,23	0,14	$\mu\text{g/l}$
RSD between labs	5,7	3,5	%
n for calculation	34	30	



Sample M159B

Parameter Cadmium

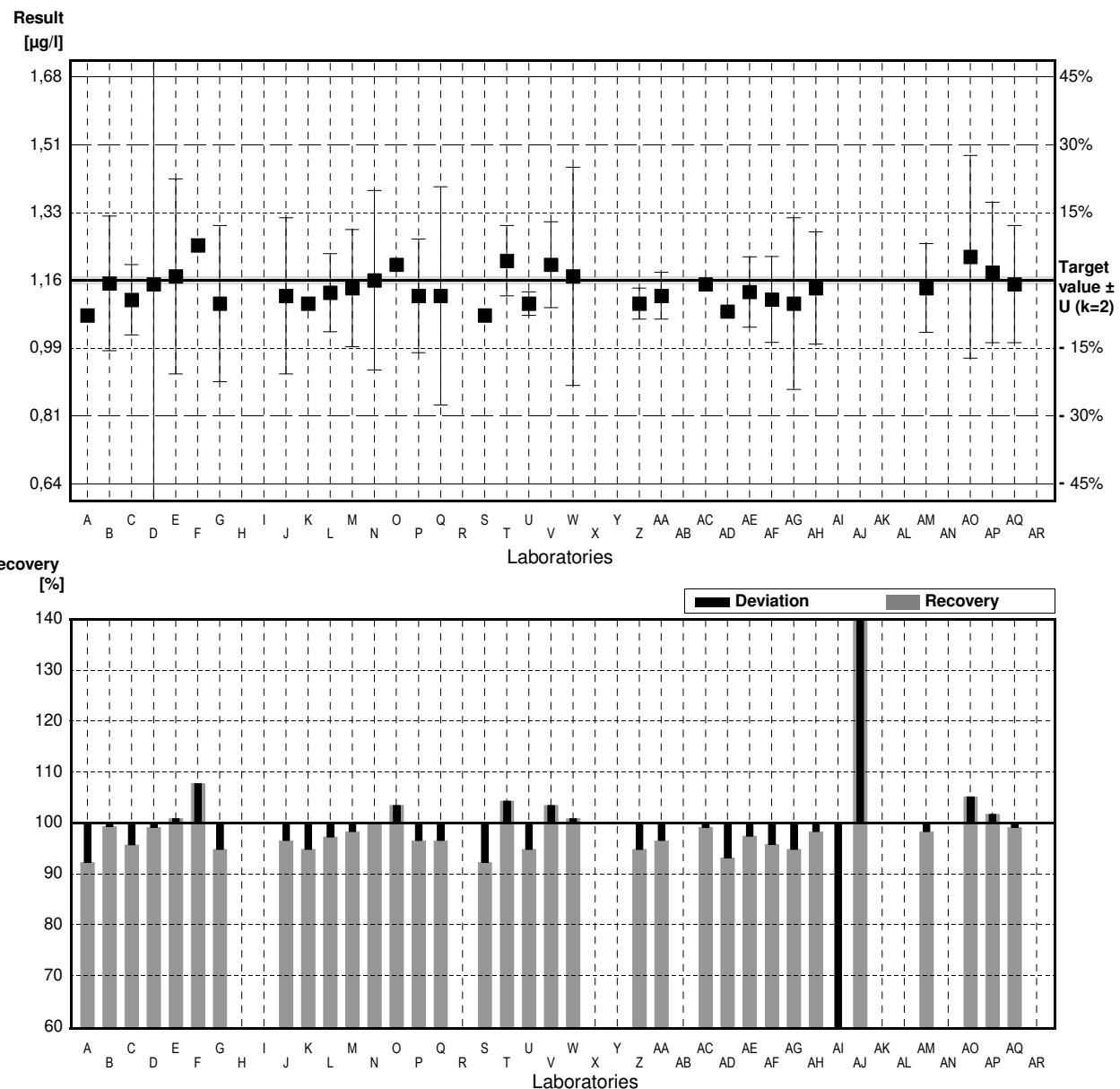
Target value $\pm U$ ($k=2$) 1,16 µg/l \pm 0,01 µg/l

IFA result $\pm U$ ($k=2$) 1,22 µg/l \pm 0,07 µg/l

Stability test $\pm U$ ($k=2$) 1,14 µg/l \pm 0,07 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,07		µg/l	92%	-1,39
B	1,152	0,173	µg/l	99%	-0,12
C	1,11	0,09	µg/l	96%	-0,77
D	1,15	0,75	µg/l	99%	-0,15
E	1,17	0,25	µg/l	101%	0,15
F	1,25		µg/l	108%	1,39
G	1,10	0,2	µg/l	95%	-0,92
H			µg/l		
I			µg/l		
J	1,12	0,2	µg/l	97%	-0,62
K	1,10	0	µg/l	95%	-0,92
L	1,128	0,1	µg/l	97%	-0,49
M	1,14	0,15	µg/l	98%	-0,31
N	1,16	0,23	µg/l	100%	0,00
O	1,20		µg/l	103%	0,62
P	1,12	0,146	µg/l	97%	-0,62
Q	1,12	0,28	µg/l	97%	-0,62
R			µg/l		
S	1,07		µg/l	92%	-1,39
T	1,21	0,09	µg/l	104%	0,77
U	1,10	0,03	µg/l	95%	-0,92
V	1,20	0,11	µg/l	103%	0,62
W	1,17	0,28	µg/l	101%	0,15
X			µg/l		
Y			µg/l		
Z	1,10	0,04	µg/l	95%	-0,92
AA	1,12	0,06	µg/l	97%	-0,62
AB			µg/l		
AC	1,15		µg/l	99%	-0,15
AD	1,08	0,006	µg/l	93%	-1,23
AE	1,13000	0,09040	µg/l	97%	-0,46
AF	1,111	0,11	µg/l	96%	-0,75
AG	1,10	0,22	µg/l	95%	-0,92
AH	1,14	0,144	µg/l	98%	-0,31
AI	0,52 *	0,1	µg/l	45%	-9,85
AJ	20,0 *	0,02	µg/l	1724%	290,02
AK			µg/l		
AL			µg/l		
AM	1,14	0,114	µg/l	98%	-0,31
AN			µg/l		
AO	1,22	0,26	µg/l	105%	0,92
AP	1,18	0,18	µg/l	102%	0,31
AQ	1,15	0,15	µg/l	99%	-0,15
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,68 \pm 1,52	1,14 \pm 0,02	µg/l
Recov. \pm CI(99%)	144,5 \pm 131,2	98,2 \pm 1,8	%
SD between labs	3,24	0,04	µg/l
RSD between labs	193,3	3,9	%
n for calculation	34	32	



Sample M159A

Parameter Chromium

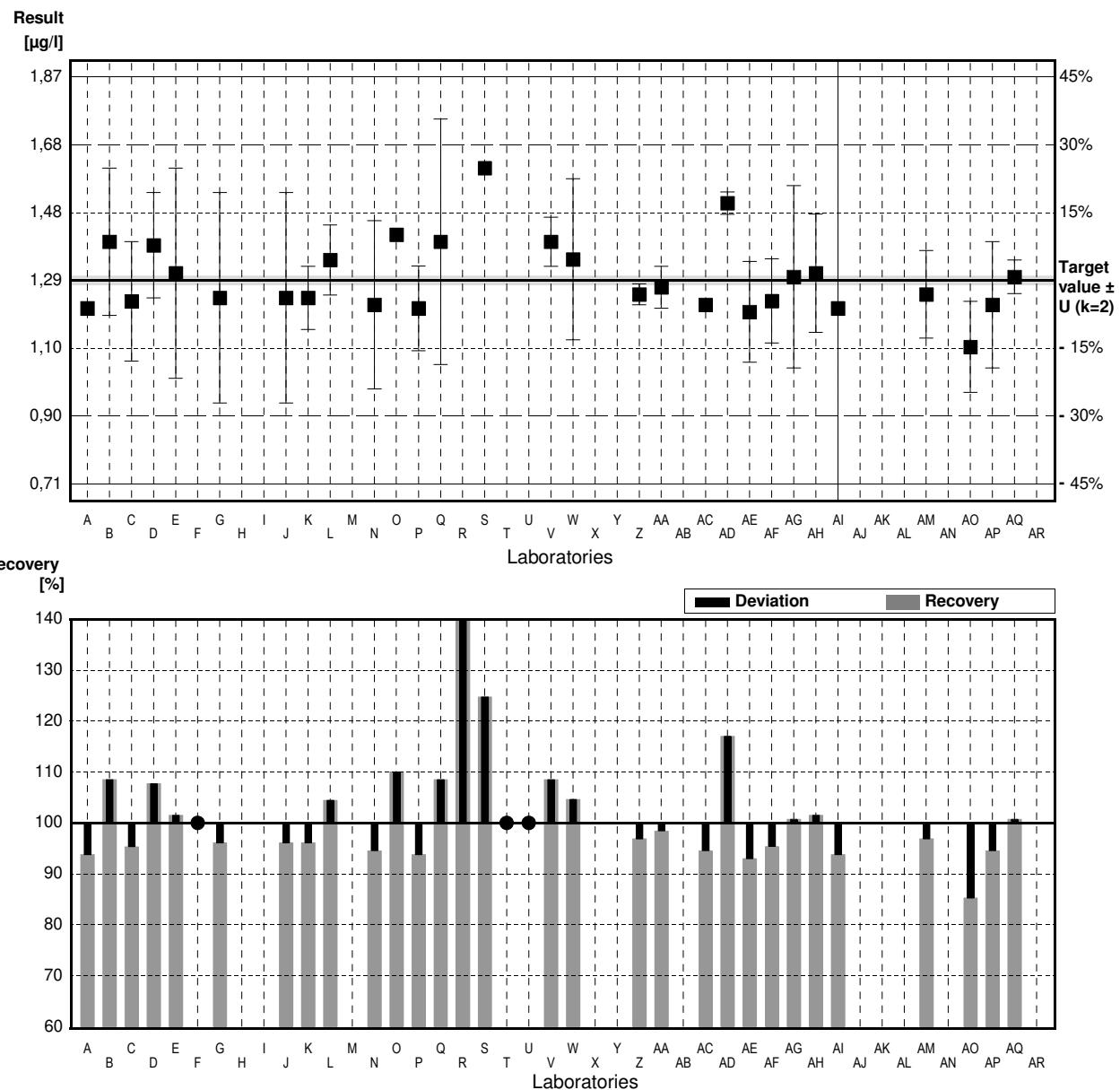
Target value $\pm U$ ($k=2$) 1,29 µg/l \pm 0,01 µg/l

IFA result $\pm U$ ($k=2$) 1,31 µg/l \pm 0,07 µg/l

Stability test $\pm U$ ($k=2$) 1,31 µg/l \pm 0,07 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1.21		µg/l	94%	-0.94
B	1.40	0.21	µg/l	109%	1.29
C	1.23	0.17	µg/l	95%	-0.70
D	1.39	0.15	µg/l	108%	1.17
E	1.31	0.30	µg/l	102%	0.23
F	<5		µg/l	•	
G	1.24	0.3	µg/l	96%	-0.59
H			µg/l		
I			µg/l		
J	1.24	0.3	µg/l	96%	-0.59
K	1.24	0.09	µg/l	96%	-0.59
L	1.348	0.1	µg/l	104%	0.68
M			µg/l		
N	1.22	0.24	µg/l	95%	-0.82
O	1.42		µg/l	110%	1.53
P	1.21	0.121	µg/l	94%	-0.94
Q	1.40	0.35	µg/l	109%	1.29
R	2.03 *	0.43	µg/l	157%	8.69
S	1.61 *		µg/l	125%	3.76
T	<5.0		µg/l	•	
U	<5		µg/l	•	
V	1.40	0.07	µg/l	109%	1.29
W	1.35	0.23	µg/l	105%	0.70
X			µg/l		
Y			µg/l		
Z	1.25	0.03	µg/l	97%	-0.47
AA	1.27	0.06	µg/l	98%	-0.23
AB			µg/l		
AC	1.22		µg/l	95%	-0.82
AD	1.51 *	0.032	µg/l	117%	2.58
AE	1.20000	0.14400	µg/l	93%	-1.06
AF	1.231	0.12	µg/l	95%	-0.69
AG	1.30	0.26	µg/l	101%	0.12
AH	1.31	0.169	µg/l	102%	0.23
AI	1.21	0.8	µg/l	94%	-0.94
AJ			µg/l		
AK			µg/l		
AL			µg/l		
AM	1.25	0.125	µg/l	97%	-0.47
AN			µg/l		
AO	1.10	0.13	µg/l	85%	-2.23
AP	1.22	0.18	µg/l	95%	-0.82
AQ	1.30	0.048	µg/l	101%	0.12
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,32 \pm 0,09	1,28 \pm 0,04	µg/l
Recov. \pm CI(99%)	102,4 \pm 6,6	99,0 \pm 3,3	%
SD between labs	0,17	0,08	µg/l
RSD between labs	12,9	6,2	%
n for calculation	30	27	



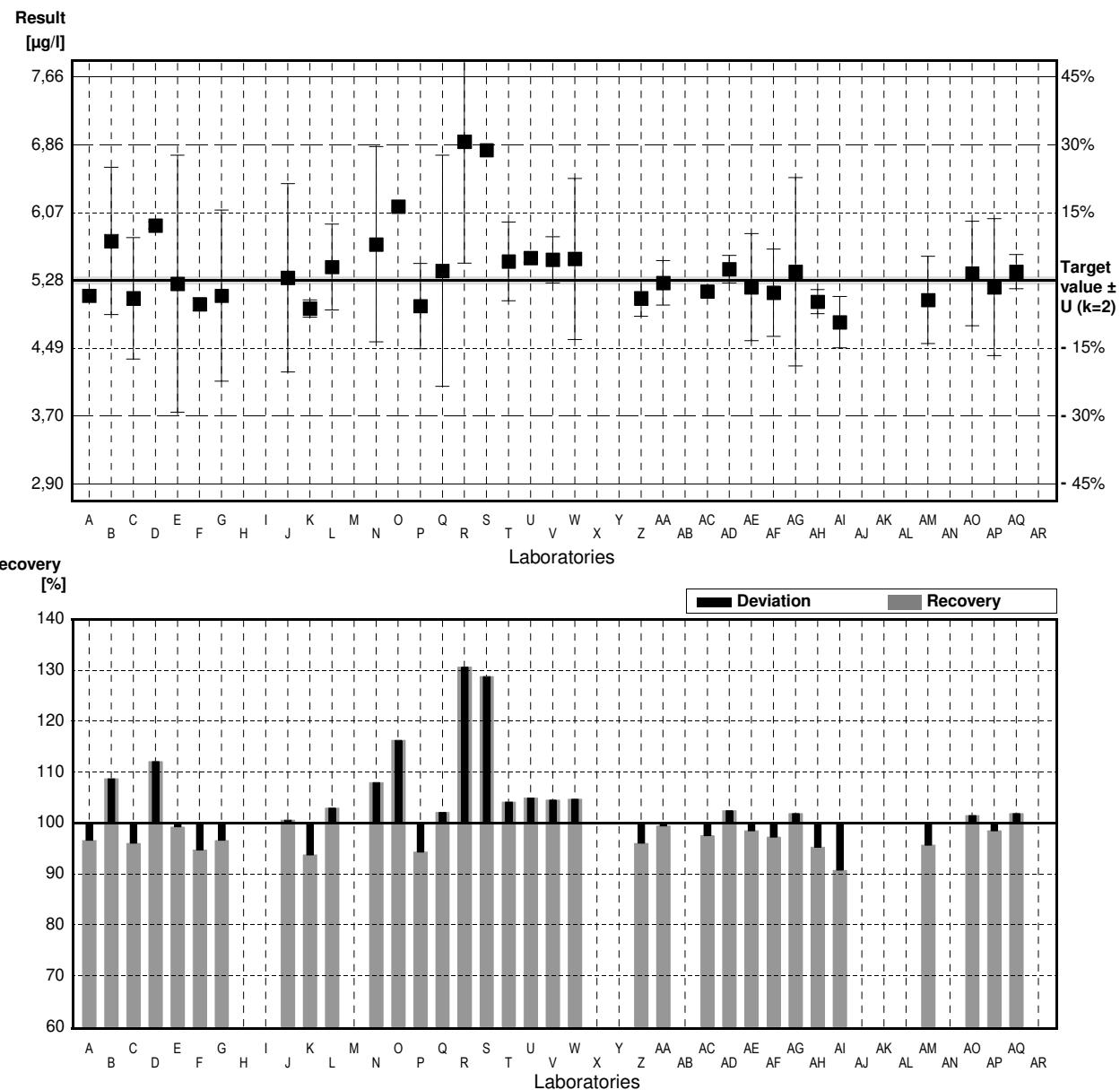
Sample M159B

Parameter Chromium

Target value $\pm U$ ($k=2$) 5,28 µg/l \pm 0,04 µg/l
 IFA result $\pm U$ ($k=2$) 5,38 µg/l \pm 0,16 µg/l
 Stability test $\pm U$ ($k=2$) 5,36 µg/l \pm 0,16 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	5,1		µg/l	97%	-0,52
B	5,74	0,86	µg/l	109%	1,32
C	5,07	0,71	µg/l	96%	-0,60
D	5,92	0,04	µg/l	112%	1,84
E	5,24	1,5	µg/l	99%	-0,11
F	5,00		µg/l	95%	-0,80
G	5,10	1	µg/l	97%	-0,52
H			µg/l		
I			µg/l		
J	5,31	1,1	µg/l	101%	0,09
K	4,95	0,10	µg/l	94%	-0,95
L	5,435	0,5	µg/l	103%	0,44
M			µg/l		
N	5,70	1,14	µg/l	108%	1,21
O	6,14		µg/l	116%	2,47
P	4,98	0,498	µg/l	94%	-0,86
Q	5,39	1,35	µg/l	102%	0,32
R	6,90	*	µg/l	131%	4,65
S	6,8	*	µg/l	129%	4,36
T	5,50	0,46	µg/l	104%	0,63
U	5,54	0,05	µg/l	105%	0,75
V	5,52	0,27	µg/l	105%	0,69
W	5,53	0,94	µg/l	105%	0,72
X			µg/l		
Y			µg/l		
Z	5,07	0,21	µg/l	96%	-0,60
AA	5,25	0,26	µg/l	99%	-0,09
AB			µg/l		
AC	5,15		µg/l	98%	-0,37
AD	5,41	0,16	µg/l	102%	0,37
AE	5,20000	0,62400	µg/l	98%	-0,23
AF	5,135	0,51	µg/l	97%	-0,42
AG	5,38	1,1	µg/l	102%	0,29
AH	5,03	0,140	µg/l	95%	-0,72
AI	4,79	0,3	µg/l	91%	-1,41
AJ			µg/l		
AK			µg/l		
AL			µg/l		
AM	5,05	0,51	µg/l	96%	-0,66
AN			µg/l		
AO	5,36	0,61	µg/l	102%	0,23
AP	5,2	0,8	µg/l	98%	-0,23
AQ	5,38	0,20	µg/l	102%	0,29
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	5,40 \pm 0,23	5,31 \pm 0,15	µg/l
Recov. \pm CI(99%)	102,3 \pm 4,3	100,5 \pm 2,8	%
SD between labs	0,47	0,30	µg/l
RSD between labs	8,7	5,6	%
n for calculation	33	31	



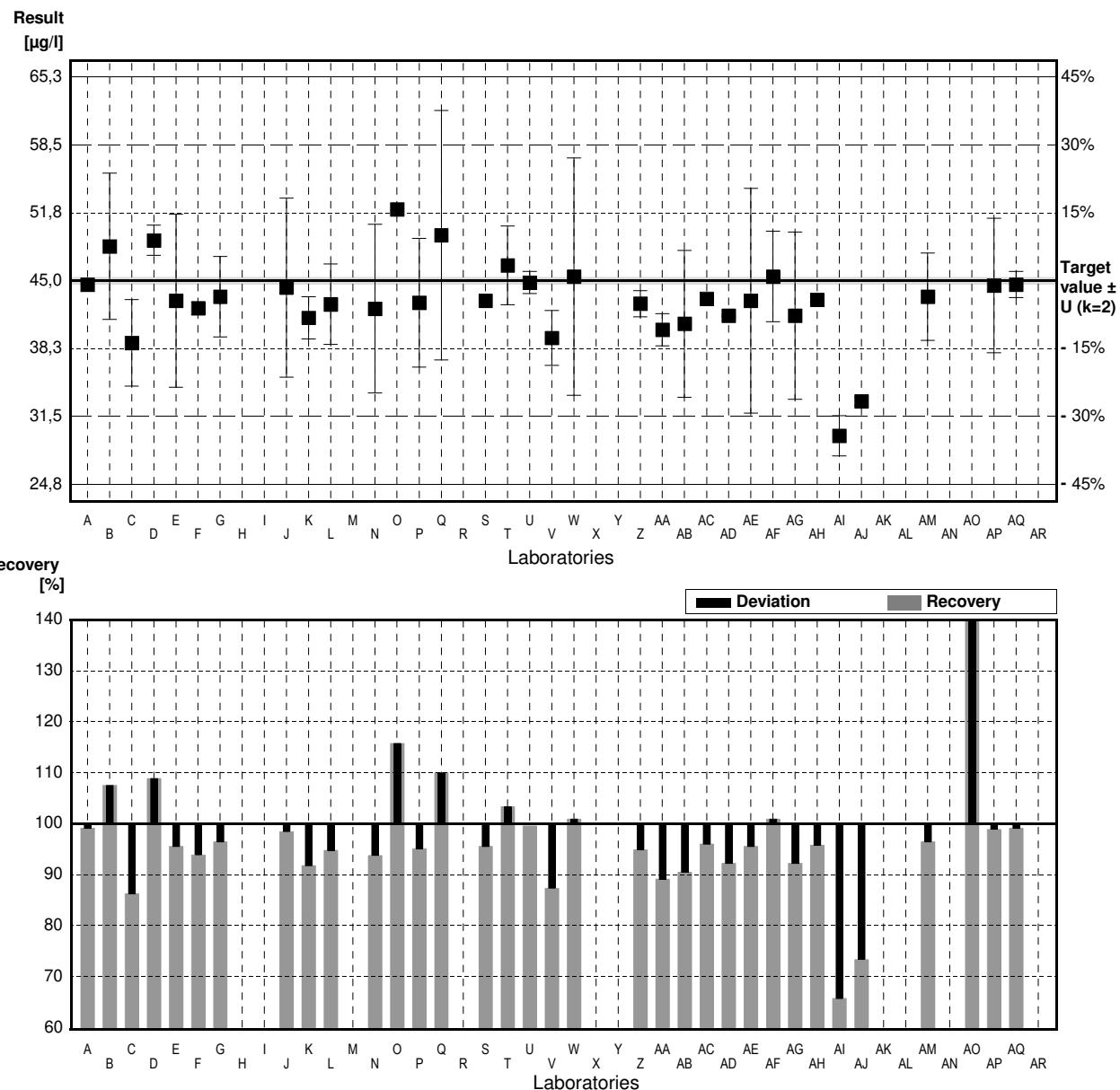
Sample M159A

Parameter Iron

Target value $\pm U$ ($k=2$) 45,0 $\mu\text{g/l}$ \pm 0,3 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 43,3 $\mu\text{g/l}$ \pm 3,5 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 43,4 $\mu\text{g/l}$ \pm 3,5 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	44,6		$\mu\text{g/l}$	99%	-0,13
B	48,4	7,26	$\mu\text{g/l}$	108%	1,11
C	38,8	4,3	$\mu\text{g/l}$	86%	-2,03
D	49,0	1,5	$\mu\text{g/l}$	109%	1,31
E	43,0	8,6	$\mu\text{g/l}$	96%	-0,65
F	42,25		$\mu\text{g/l}$	94%	-0,90
G	43,4	4	$\mu\text{g/l}$	96%	-0,52
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	44,3	8,9	$\mu\text{g/l}$	98%	-0,23
K	41,3	2,1	$\mu\text{g/l}$	92%	-1,21
L	42,64	4	$\mu\text{g/l}$	95%	-0,77
M			$\mu\text{g/l}$		
N	42,2	8,4	$\mu\text{g/l}$	94%	-0,92
O	52,09 *		$\mu\text{g/l}$	116%	2,32
P	42,8	6,4	$\mu\text{g/l}$	95%	-0,72
Q	49,5	12,4	$\mu\text{g/l}$	110%	1,47
R			$\mu\text{g/l}$		
S	43,0		$\mu\text{g/l}$	96%	-0,65
T	46,5	3,91	$\mu\text{g/l}$	103%	0,49
U	44,8	1,1	$\mu\text{g/l}$	100%	-0,07
V	39,3	2,73	$\mu\text{g/l}$	87%	-1,86
W	45,4	11,8	$\mu\text{g/l}$	101%	0,13
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	42,7	1,3	$\mu\text{g/l}$	95%	-0,75
AA	40,1	1,6	$\mu\text{g/l}$	89%	-1,60
AB	40,7	7,3	$\mu\text{g/l}$	90%	-1,41
AC	43,2		$\mu\text{g/l}$	96%	-0,59
AD	41,5	0,10	$\mu\text{g/l}$	92%	-1,14
AE	43,000	11,1800	$\mu\text{g/l}$	96%	-0,65
AF	45,4	4,5	$\mu\text{g/l}$	101%	0,13
AG	41,5	8,3	$\mu\text{g/l}$	92%	-1,14
AH	43,1	0,260	$\mu\text{g/l}$	96%	-0,62
AI	29,56 *	2	$\mu\text{g/l}$	66%	-5,05
AJ	33,0 *	0,4	$\mu\text{g/l}$	73%	-3,92
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	43,4	4,34	$\mu\text{g/l}$	96%	-0,52
AN			$\mu\text{g/l}$		
AO	94,8 *	28,2	$\mu\text{g/l}$	211%	16,27
AP	44,5	6,7	$\mu\text{g/l}$	99%	-0,16
AQ	44,6	1,3	$\mu\text{g/l}$	99%	-0,13
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	$44,5 \pm 4,6$	$43,5 \pm 1,3$	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	$99,0 \pm 10,2$	$96,7 \pm 2,9$	%
SD between labs	9,8	2,6	$\mu\text{g/l}$
RSD between labs	22,0	5,9	%
n for calculation	34	30	



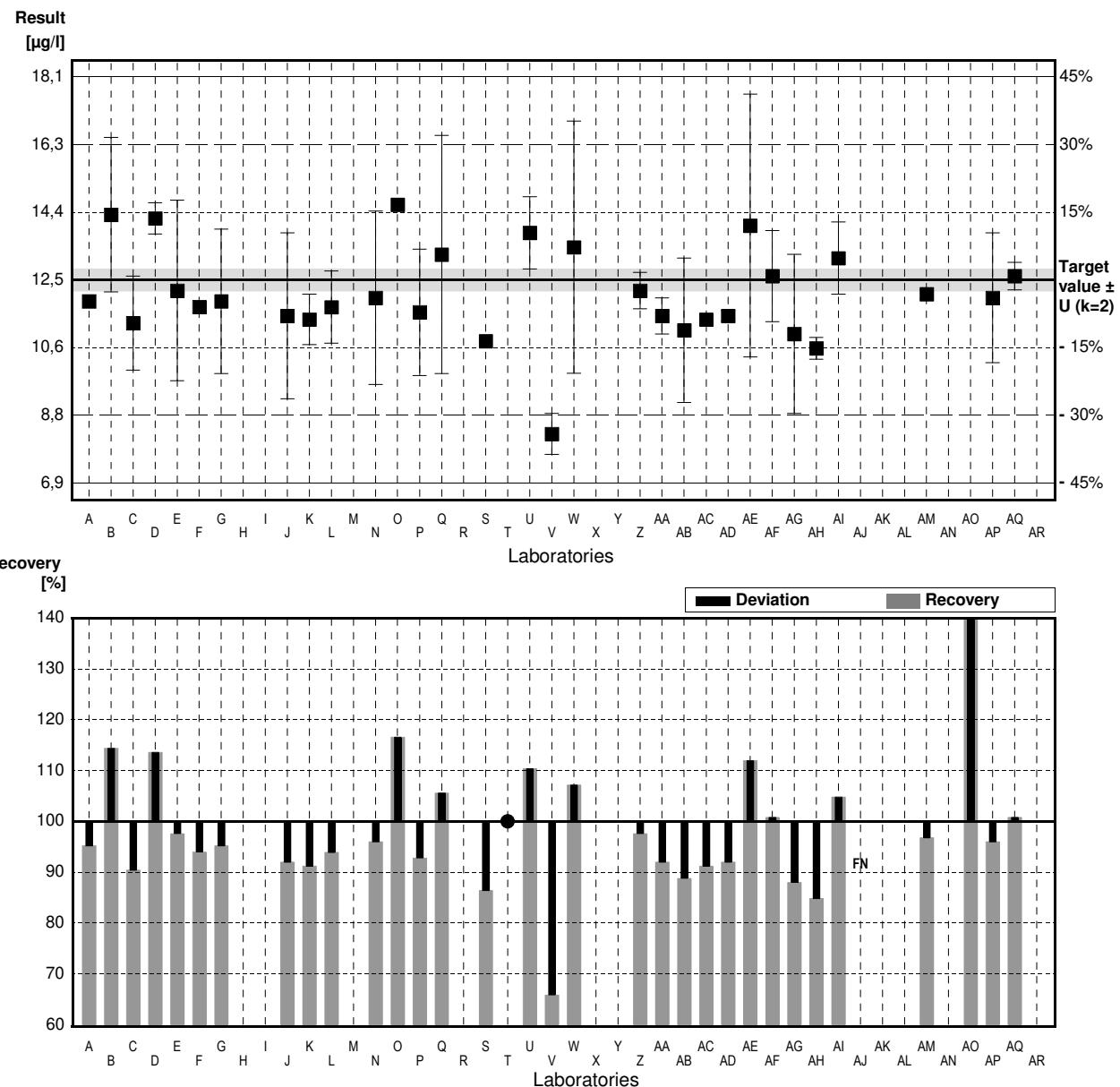
Sample M159B

Parameter Iron

Target value $\pm U$ ($k=2$) 12,5 µg/l \pm 0,3 µg/l
 IFA result $\pm U$ ($k=2$) 11,7 µg/l \pm 1,1 µg/l
 Stability test $\pm U$ ($k=2$) 11,9 µg/l \pm 1,1 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	11,9		µg/l	95%	-0,71
B	14,3	2,14	µg/l	114%	2,12
C	11,3	1,3	µg/l	90%	-1,41
D	14,2	0,43	µg/l	114%	2,00
E	12,2	2,5	µg/l	98%	-0,35
F	11,75		µg/l	94%	-0,88
G	11,9	2	µg/l	95%	-0,71
H			µg/l		
I			µg/l		
J	11,5	2,3	µg/l	92%	-1,18
K	11,4	0,7	µg/l	91%	-1,29
L	11,74	1	µg/l	94%	-0,89
M			µg/l		
N	12,0	2,4	µg/l	96%	-0,59
O	14,58		µg/l	117%	2,45
P	11,6	1,75	µg/l	93%	-1,06
Q	13,2	3,3	µg/l	106%	0,82
R			µg/l		
S	10,8		µg/l	86%	-2,00
T	<30		µg/l	*	
U	13,8	1	µg/l	110%	1,53
V	8,23 *	0,57	µg/l	66%	-5,02
W	13,4	3,49	µg/l	107%	1,06
X			µg/l		
Y			µg/l		
Z	12,2	0,5	µg/l	98%	-0,35
AA	11,5	0,5	µg/l	92%	-1,18
AB	11,1	2,0	µg/l	89%	-1,65
AC	11,4		µg/l	91%	-1,29
AD	11,5	0,15	µg/l	92%	-1,18
AE	14,000	3,64000	µg/l	112%	1,76
AF	12,6	1,26	µg/l	101%	0,12
AG	11,0	2,2	µg/l	88%	-1,76
AH	10,6	0,302	µg/l	85%	-2,24
AI	13,1	1	µg/l	105%	0,71
AJ	<1,0	0,4	µg/l	FN	
AK			µg/l		
AL			µg/l		
AM	12,1	0,121	µg/l	97%	-0,47
AN			µg/l		
AO	146 *	43,7	µg/l	1168%	157,06
AP	12,0	1,8	µg/l	96%	-0,59
AQ	12,6	0,38	µg/l	101%	0,12
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	16,3 \pm 11,5	12,2 \pm 0,6	µg/l
Recov. \pm CI(99%)	130,4 \pm 92,2	97,9 \pm 4,4	%
SD between labs	23,7	1,1	µg/l
RSD between labs	145,4	9,0	%
n for calculation	32	30	



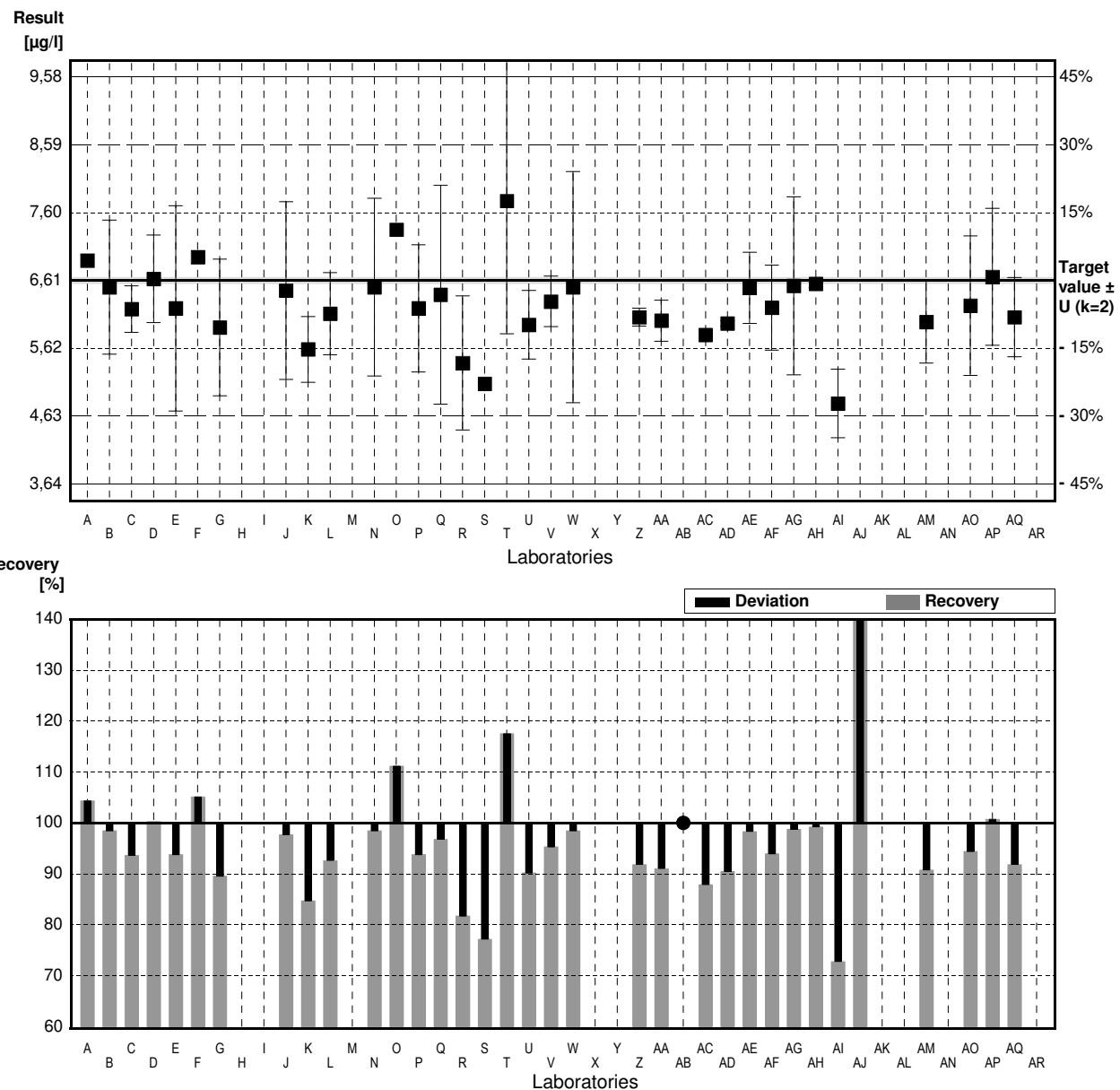
Sample M159A

Parameter Copper

Target value $\pm U$ ($k=2$) 6,61 µg/l \pm 0,04 µg/l
 IFA result $\pm U$ ($k=2$) 6,35 µg/l \pm 0,32 µg/l
 Stability test $\pm U$ ($k=2$) 6,64 µg/l \pm 0,33 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	6.9		µg/l	104%	0.52
B	6.51	0.98	µg/l	98%	-0.18
C	6.19	0.34	µg/l	94%	-0.75
D	6.63	0.64	µg/l	100%	0.04
E	6.20	1.5	µg/l	94%	-0.73
F	6.95		µg/l	105%	0.61
G	5.92	1	µg/l	90%	-1.23
H			µg/l		
I			µg/l		
J	6.46	1.3	µg/l	98%	-0.27
K	5.60	0.48	µg/l	85%	-1.80
L	6.123	0.6	µg/l	93%	-0.87
M			µg/l		
N	6.51	1.30	µg/l	98%	-0.18
O	7.35		µg/l	111%	1.32
P	6.2	0.93	µg/l	94%	-0.73
Q	6.40	1.60	µg/l	97%	-0.37
R	5.40	0.98	µg/l	82%	-2.15
S	5.1		µg/l	77%	-2.69
T	7.77 *	1.94	µg/l	118%	2.06
U	5.96	0.5	µg/l	90%	-1.16
V	6.30	0.37	µg/l	95%	-0.55
W	6.51	1.69	µg/l	98%	-0.18
X			µg/l		
Y			µg/l		
Z	6.07	0.13	µg/l	92%	-0.96
AA	6.02	0.30	µg/l	91%	-1.05
AB	<10		µg/l	*	
AC	5.81		µg/l	88%	-1.42
AD	5.98	0.040	µg/l	90%	-1.12
AE	6.5000	0.52000	µg/l	98%	-0.20
AF	6.210	0.62	µg/l	94%	-0.71
AG	6.53	1.3	µg/l	99%	-0.14
AH	6.56	0.0610	µg/l	99%	-0.09
AI	4.81 *	0.5	µg/l	73%	-3.20
AJ	13.0 *	0.08	µg/l	197%	11.37
AK			µg/l		
AL			µg/l		
AM	6.0	0.60	µg/l	91%	-1.09
AN			µg/l		
AO	6.24	1.02	µg/l	94%	-0.66
AP	6.66	1.00	µg/l	101%	0.09
AQ	6.07	0.58	µg/l	92%	-0.96
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	6,45 \pm 0,60	6,25 \pm 0,22	µg/l
Recov. \pm CI(99%)	97,6 \pm 9,1	94,6 \pm 3,4	%
SD between labs	1,29	0,45	µg/l
RSD between labs	19,9	7,2	%
n for calculation	34	31	



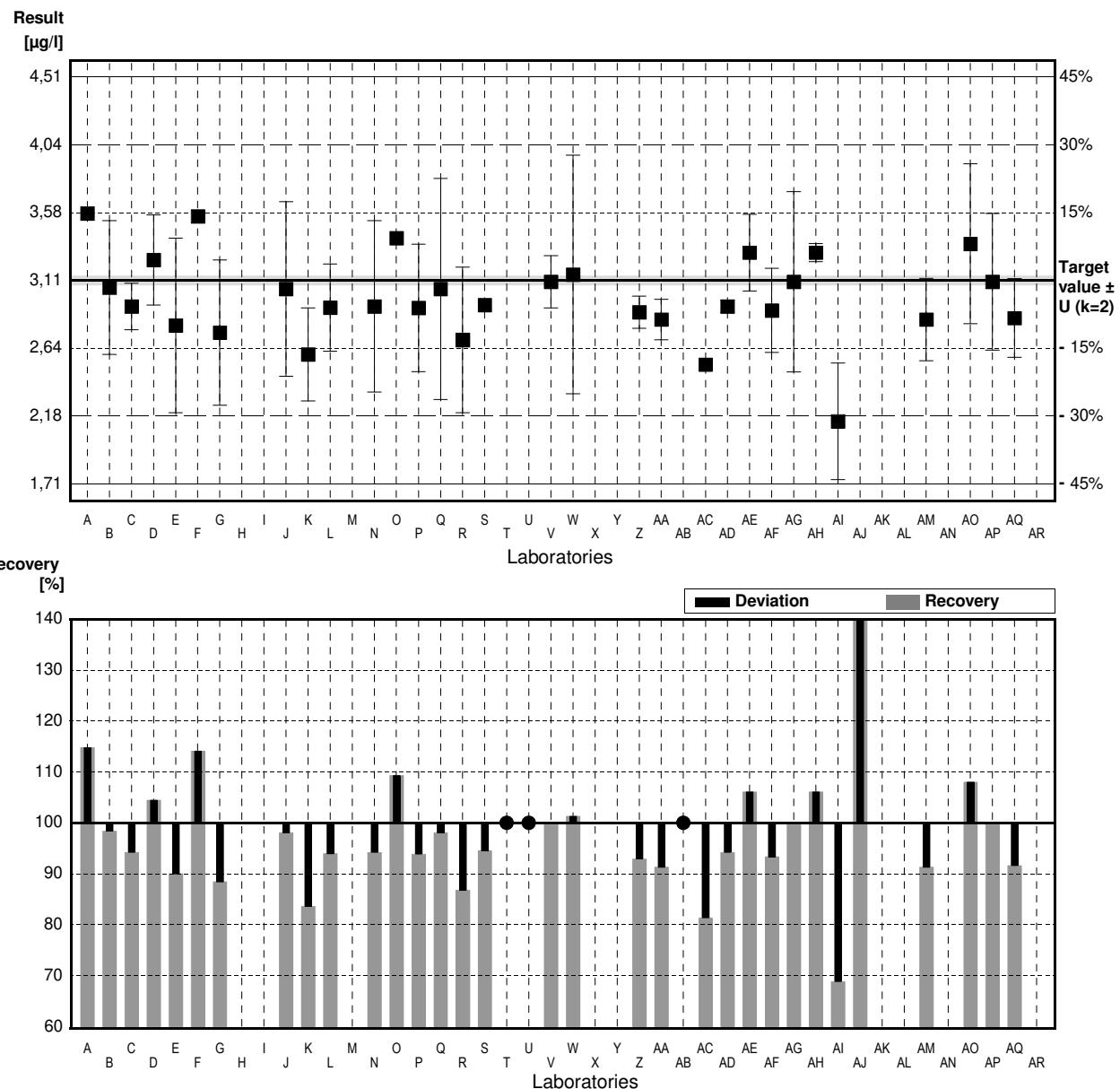
Sample M159B

Parameter Copper

Target value $\pm U$ ($k=2$) 3,11 $\mu\text{g/l}$ \pm 0,03 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 3,01 $\mu\text{g/l}$ \pm 0,18 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 3,10 $\mu\text{g/l}$ \pm 0,19 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3,57		$\mu\text{g/l}$	115%	1,74
B	3,06	0,46	$\mu\text{g/l}$	98%	-0,19
C	2,93	0,16	$\mu\text{g/l}$	94%	-0,68
D	3,25	0,31	$\mu\text{g/l}$	105%	0,53
E	2,80	0,60	$\mu\text{g/l}$	90%	-1,17
F	3,55		$\mu\text{g/l}$	114%	1,66
G	2,75	0,5	$\mu\text{g/l}$	88%	-1,36
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	3,05	0,6	$\mu\text{g/l}$	98%	-0,23
K	2,60	0,32	$\mu\text{g/l}$	84%	-1,93
L	2,922	0,3	$\mu\text{g/l}$	94%	-0,71
M			$\mu\text{g/l}$		
N	2,93	0,59	$\mu\text{g/l}$	94%	-0,68
O	3,40		$\mu\text{g/l}$	109%	1,10
P	2,92	0,438	$\mu\text{g/l}$	94%	-0,72
Q	3,05	0,76	$\mu\text{g/l}$	98%	-0,23
R	2,70	0,50	$\mu\text{g/l}$	87%	-1,55
S	2,94		$\mu\text{g/l}$	95%	-0,64
T	<5		$\mu\text{g/l}$	*	
U	<5		$\mu\text{g/l}$	*	
V	3,10	0,18	$\mu\text{g/l}$	100%	-0,04
W	3,15	0,82	$\mu\text{g/l}$	101%	0,15
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	2,89	0,11	$\mu\text{g/l}$	93%	-0,83
AA	2,84	0,14	$\mu\text{g/l}$	91%	-1,02
AB	<10		$\mu\text{g/l}$	*	
AC	2,53		$\mu\text{g/l}$	81%	-2,19
AD	2,93	0,042	$\mu\text{g/l}$	94%	-0,68
AE	3,30000	0,26400	$\mu\text{g/l}$	106%	0,72
AF	2,903	0,29	$\mu\text{g/l}$	93%	-0,78
AG	3,10	0,62	$\mu\text{g/l}$	100%	-0,04
AH	3,30	0,0618	$\mu\text{g/l}$	106%	0,72
AI	2,14 *	0,4	$\mu\text{g/l}$	69%	-3,67
AJ	11,0 *	0,08	$\mu\text{g/l}$	354%	29,85
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	2,84	0,284	$\mu\text{g/l}$	91%	-1,02
AN			$\mu\text{g/l}$		
AO	3,36	0,55	$\mu\text{g/l}$	108%	0,95
AP	3,10	0,47	$\mu\text{g/l}$	100%	-0,04
AQ	2,85	0,27	$\mu\text{g/l}$	92%	-0,98
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	3,24 \pm 0,70	3,02 \pm 0,13	$\mu\text{g/l}$
Recov. \pm CI(99%)	104,3 \pm 22,6	97,1 \pm 4,2	%
SD between labs	1,45	0,26	$\mu\text{g/l}$
RSD between labs	44,6	8,5	%
n for calculation	32	30	



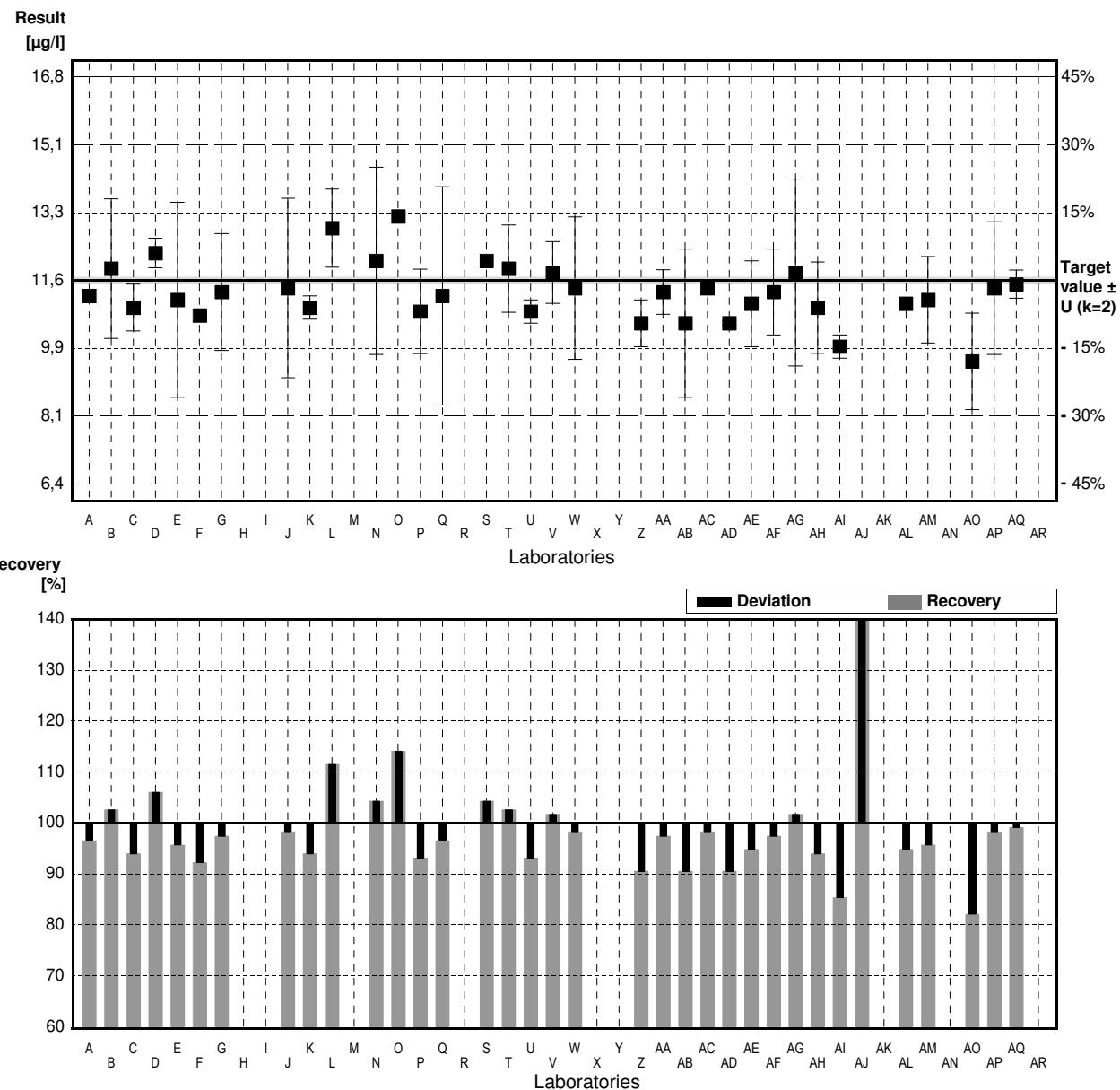
Sample M159A

Parameter Manganese

Target value $\pm U$ ($k=2$) 11,6 µg/l \pm 0,1 µg/l
 IFA result $\pm U$ ($k=2$) 11,4 µg/l \pm 0,8 µg/l
 Stability test $\pm U$ ($k=2$) 11,6 µg/l \pm 0,8 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	11,2		µg/l	97%	-0,64
B	11,9	1,79	µg/l	103%	0,48
C	10,9	0,6	µg/l	94%	-1,12
D	12,3	0,38	µg/l	106%	1,12
E	11,1	2,5	µg/l	96%	-0,80
F	10,70		µg/l	92%	-1,44
G	11,3	1,5	µg/l	97%	-0,48
H			µg/l		
I			µg/l		
J	11,4	2,3	µg/l	98%	-0,32
K	10,9	0,3	µg/l	94%	-1,12
L	12,94	1	µg/l	112%	2,14
M			µg/l		
N	12,1	2,4	µg/l	104%	0,80
O	13,24		µg/l	114%	2,62
P	10,8	1,08	µg/l	93%	-1,28
Q	11,2	2,8	µg/l	97%	-0,64
R			µg/l		
S	12,1		µg/l	104%	0,80
T	11,9	1,12	µg/l	103%	0,48
U	10,8	0,3	µg/l	93%	-1,28
V	11,8	0,79	µg/l	102%	0,32
W	11,4	1,83	µg/l	98%	-0,32
X			µg/l		
Y			µg/l		
Z	10,5	0,6	µg/l	91%	-1,76
AA	11,3	0,57	µg/l	97%	-0,48
AB	10,5	1,9	µg/l	91%	-1,76
AC	11,4		µg/l	98%	-0,32
AD	10,5	0,058	µg/l	91%	-1,76
AE	11,000	1,10000	µg/l	95%	-0,96
AF	11,3	1,1	µg/l	97%	-0,48
AG	11,8	2,4	µg/l	102%	0,32
AH	10,9	1,17	µg/l	94%	-1,12
AI	9,9	0,3	µg/l	85%	-2,71
AJ	60,0 *	0,8	µg/l	517%	77,27
AK			µg/l		
AL	11,0		µg/l	95%	-0,96
AM	11,1	1,11	µg/l	96%	-0,80
AN			µg/l		
AO	9,52	1,24	µg/l	82%	-3,32
AP	11,4	1,7	µg/l	98%	-0,32
AQ	11,5	0,36	µg/l	99%	-0,16
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	12,7 \pm 3,8	11,3 \pm 0,4	µg/l
Recov. \pm CI(99%)	109,3 \pm 32,9	97,3 \pm 3,0	%
SD between labs	8,3	0,8	µg/l
RSD between labs	65,2	6,7	%
n for calculation	35	34	



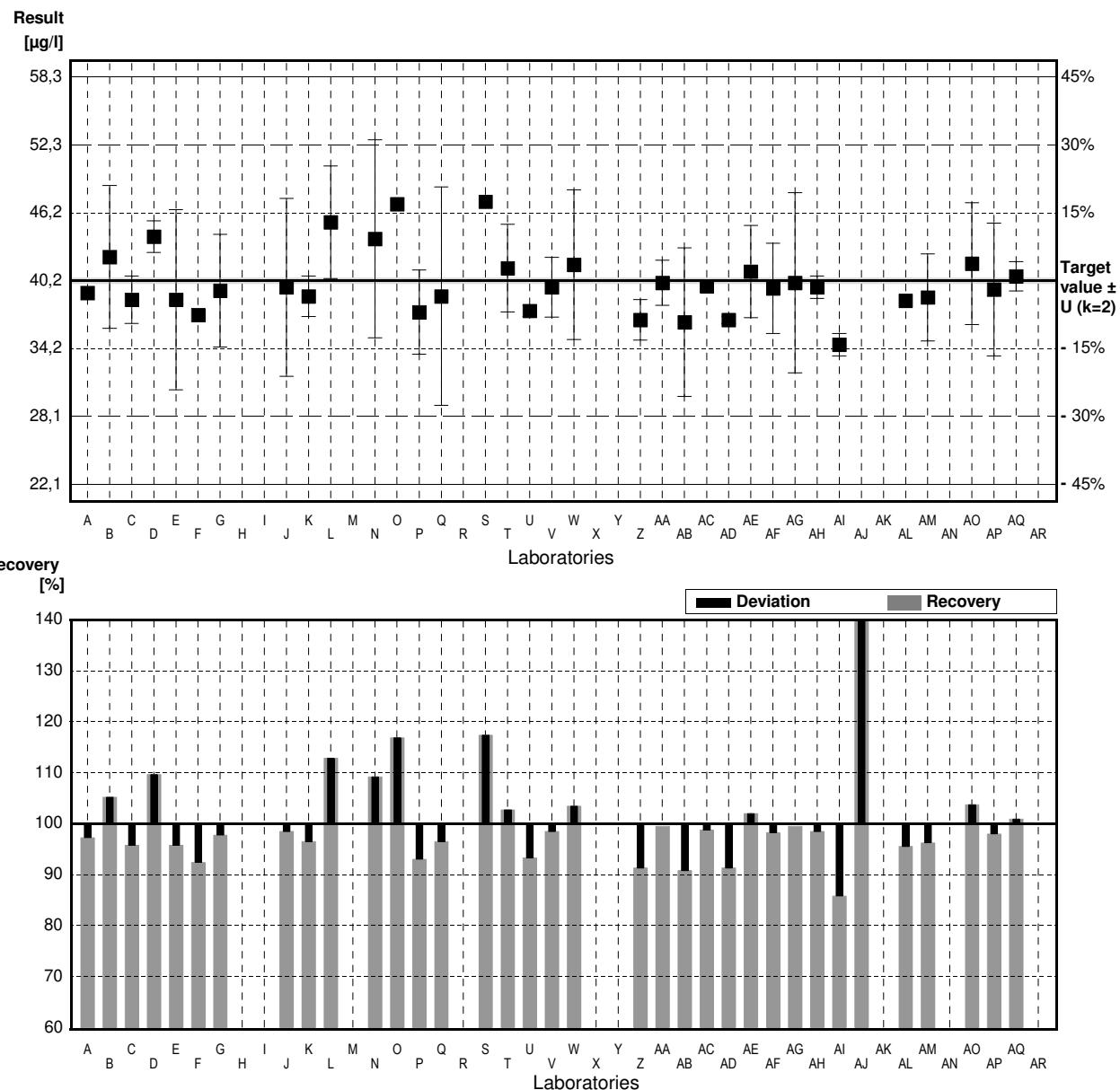
Sample M159B

Parameter Manganese

Target value $\pm U$ ($k=2$) 40,2 $\mu\text{g/l}$ \pm 0,3 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 38,8 $\mu\text{g/l}$ \pm 2,7 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 39,3 $\mu\text{g/l}$ \pm 2,8 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	39,1		$\mu\text{g/l}$	97%	-0,51
B	42,3	6,35	$\mu\text{g/l}$	105%	0,97
C	38,5	2,1	$\mu\text{g/l}$	96%	-0,78
D	44,1	1,4	$\mu\text{g/l}$	110%	1,80
E	38,5	8,0	$\mu\text{g/l}$	96%	-0,78
F	37,15		$\mu\text{g/l}$	92%	-1,41
G	39,3	5	$\mu\text{g/l}$	98%	-0,41
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	39,6	7,9	$\mu\text{g/l}$	99%	-0,28
K	38,8	1,8	$\mu\text{g/l}$	97%	-0,64
L	45,37	5	$\mu\text{g/l}$	113%	2,38
M			$\mu\text{g/l}$		
N	43,9	8,8	$\mu\text{g/l}$	109%	1,70
O	46,99 *		$\mu\text{g/l}$	117%	3,13
P	37,4	3,74	$\mu\text{g/l}$	93%	-1,29
Q	38,8	9,7	$\mu\text{g/l}$	97%	-0,64
R			$\mu\text{g/l}$		
S	47,2 *		$\mu\text{g/l}$	117%	3,22
T	41,3	3,88	$\mu\text{g/l}$	103%	0,51
U	37,5	0,5	$\mu\text{g/l}$	93%	-1,24
V	39,6	2,66	$\mu\text{g/l}$	99%	-0,28
W	41,6	6,65	$\mu\text{g/l}$	103%	0,64
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	36,7	1,8	$\mu\text{g/l}$	91%	-1,61
AA	40,0	2,0	$\mu\text{g/l}$	100%	-0,09
AB	36,5	6,6	$\mu\text{g/l}$	91%	-1,70
AC	39,7		$\mu\text{g/l}$	99%	-0,23
AD	36,7	0,32	$\mu\text{g/l}$	91%	-1,61
AE	41,0000	4,1000	$\mu\text{g/l}$	102%	0,37
AF	39,5	4	$\mu\text{g/l}$	98%	-0,32
AG	40,0	8,0	$\mu\text{g/l}$	100%	-0,09
AH	39,6	0,985	$\mu\text{g/l}$	99%	-0,28
AI	34,5	1	$\mu\text{g/l}$	86%	-2,63
AJ	90,0 *	0,8	$\mu\text{g/l}$	224%	22,94
AK			$\mu\text{g/l}$		
AL	38,4		$\mu\text{g/l}$	96%	-0,83
AM	38,7	3,87	$\mu\text{g/l}$	96%	-0,69
AN			$\mu\text{g/l}$		
AO	41,7	5,42	$\mu\text{g/l}$	104%	0,69
AP	39,4	5,9	$\mu\text{g/l}$	98%	-0,37
AQ	40,57	1,3	$\mu\text{g/l}$	101%	0,17
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	41,4 \pm 4,1	39,6 \pm 1,1	$\mu\text{g/l}$
Recov. \pm CI(99%)	103,1 \pm 10,2	98,4 \pm 2,8	%
SD between labs	8,9	2,3	$\mu\text{g/l}$
RSD between labs	21,5	5,9	%
n for calculation	35	32	



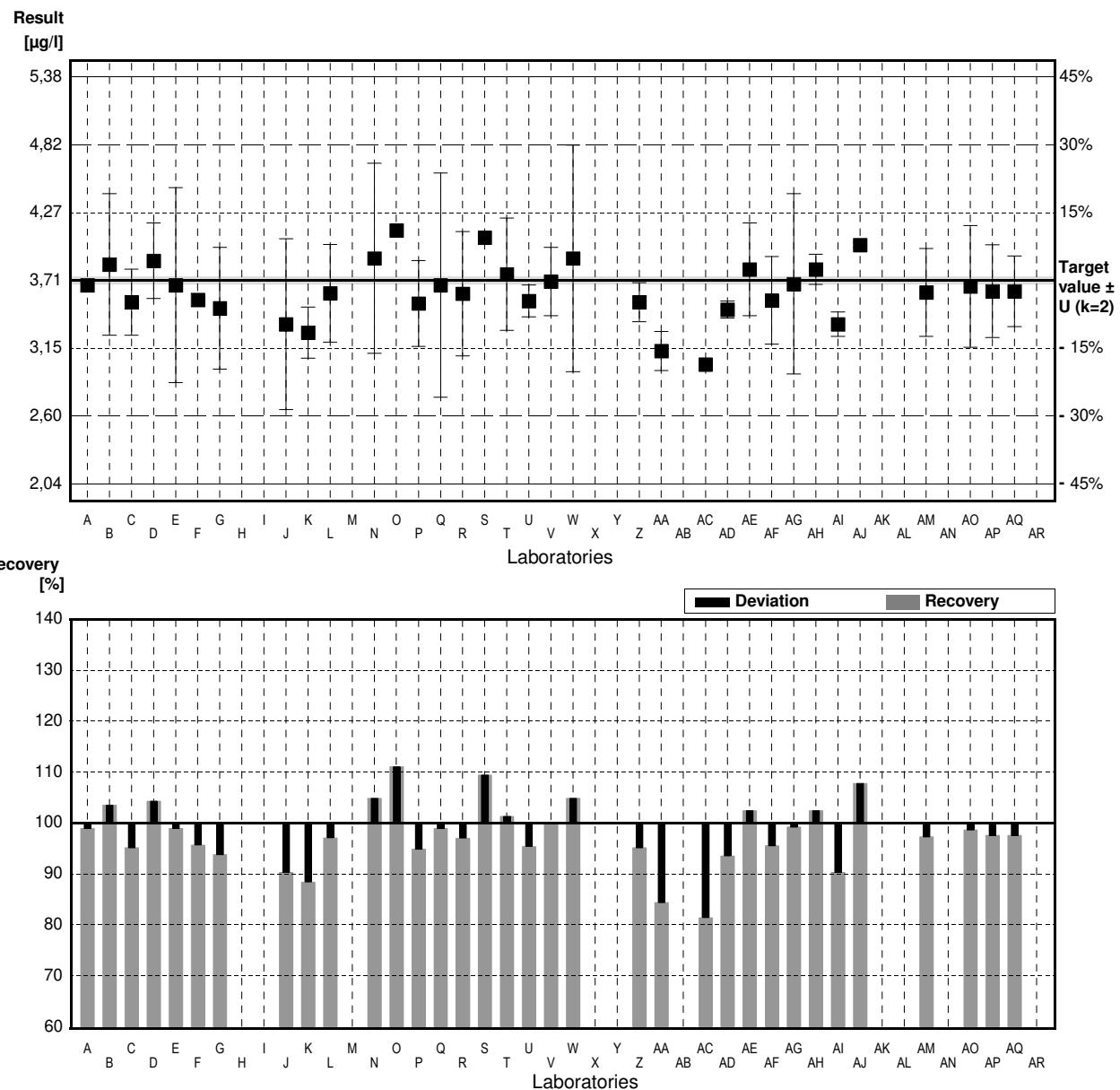
Sample M159A

Parameter Nickel

Target value $\pm U$ ($k=2$) 3,71 $\mu\text{g/l}$ \pm 0,03 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 3,71 $\mu\text{g/l}$ \pm 0,19 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 3,64 $\mu\text{g/l}$ \pm 0,18 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3,67		$\mu\text{g/l}$	99%	-0,13
B	3,84	0,58	$\mu\text{g/l}$	104%	0,44
C	3,53	0,27	$\mu\text{g/l}$	95%	-0,61
D	3,87	0,31	$\mu\text{g/l}$	104%	0,54
E	3,67	0,80	$\mu\text{g/l}$	99%	-0,13
F	3,55		$\mu\text{g/l}$	96%	-0,54
G	3,48	0,5	$\mu\text{g/l}$	94%	-0,77
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	3,35	0,7	$\mu\text{g/l}$	90%	-1,21
K	3,28	0,21	$\mu\text{g/l}$	88%	-1,45
L	3,603	0,4	$\mu\text{g/l}$	97%	-0,36
M			$\mu\text{g/l}$		
N	3,89	0,78	$\mu\text{g/l}$	105%	0,61
O	4,12		$\mu\text{g/l}$	111%	1,38
P	3,52	0,352	$\mu\text{g/l}$	95%	-0,64
Q	3,67	0,92	$\mu\text{g/l}$	99%	-0,13
R	3,60	0,51	$\mu\text{g/l}$	97%	-0,37
S	4,06		$\mu\text{g/l}$	109%	1,18
T	3,76	0,46	$\mu\text{g/l}$	101%	0,17
U	3,54	0,13	$\mu\text{g/l}$	95%	-0,57
V	3,70	0,28	$\mu\text{g/l}$	100%	-0,03
W	3,89	0,93	$\mu\text{g/l}$	105%	0,61
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	3,53	0,16	$\mu\text{g/l}$	95%	-0,61
AA	3,13	0,16	$\mu\text{g/l}$	84%	-1,95
AB			$\mu\text{g/l}$		
AC	3,02 *		$\mu\text{g/l}$	81%	-2,32
AD	3,47	0,070	$\mu\text{g/l}$	94%	-0,81
AE	3,80000	0,38000	$\mu\text{g/l}$	102%	0,30
AF	3,545	0,36	$\mu\text{g/l}$	96%	-0,56
AG	3,68	0,74	$\mu\text{g/l}$	99%	-0,10
AH	3,80	0,123	$\mu\text{g/l}$	102%	0,30
AI	3,35	0,1	$\mu\text{g/l}$	90%	-1,21
AJ	4,00	0,02	$\mu\text{g/l}$	108%	0,98
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	3,61	0,361	$\mu\text{g/l}$	97%	-0,34
AN			$\mu\text{g/l}$		
AO	3,66	0,50	$\mu\text{g/l}$	99%	-0,17
AP	3,62	0,38	$\mu\text{g/l}$	98%	-0,30
AQ	3,62	0,29	$\mu\text{g/l}$	98%	-0,30
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	$3,63 \pm 0,11$	$3,65 \pm 0,10$	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	$97,9 \pm 3,0$	$98,3 \pm 2,8$	%
SD between labs	0,24	0,22	$\mu\text{g/l}$
RSD between labs	6,6	6,0	%
n for calculation	34	33	



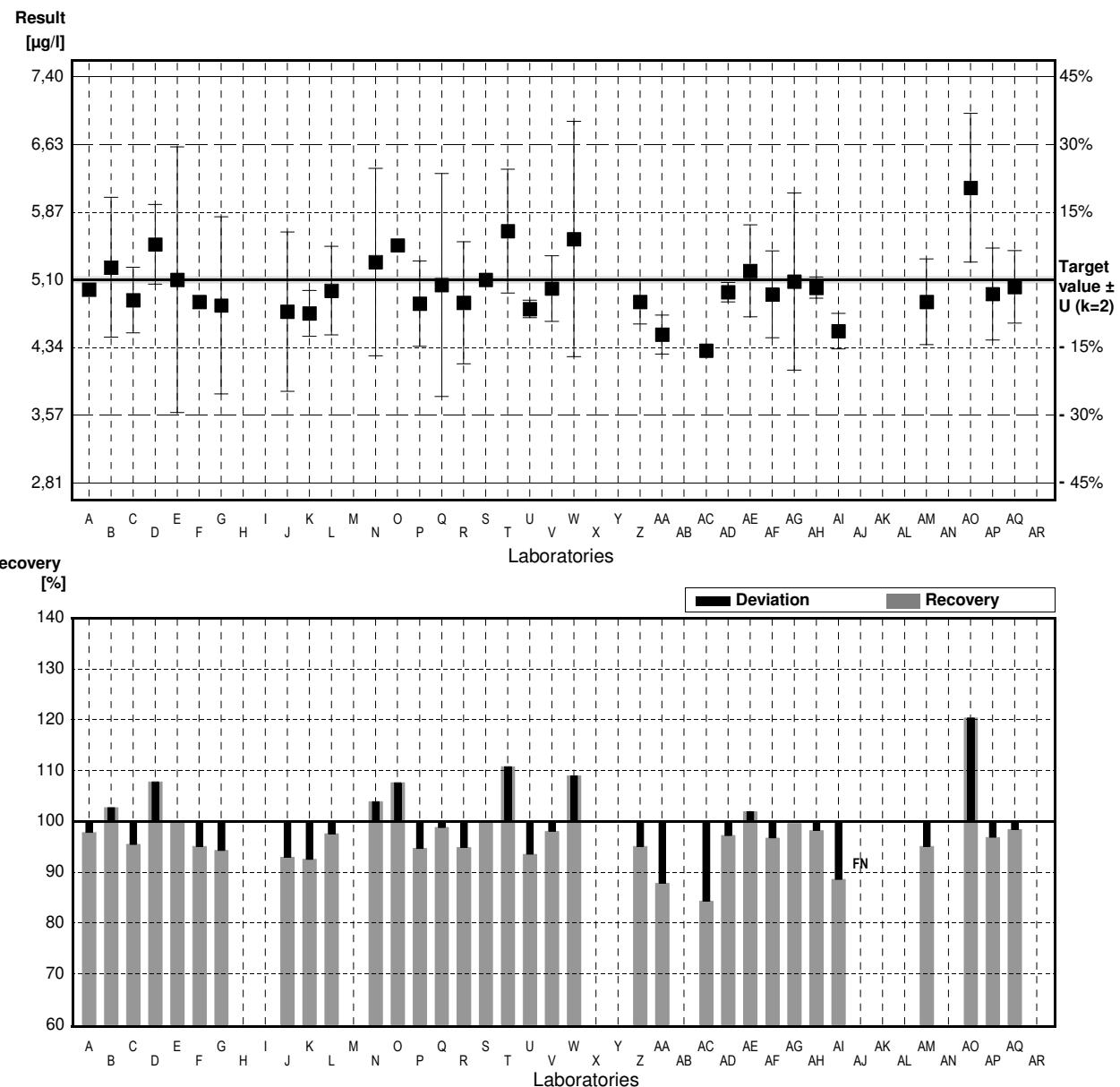
Sample M159B

Parameter Nickel

Target value $\pm U$ ($k=2$) 5,10 $\mu\text{g/l}$ \pm 0,04 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 5,11 $\mu\text{g/l}$ \pm 0,20 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 5,07 $\mu\text{g/l}$ \pm 0,20 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	4.99		$\mu\text{g/l}$	98%	-0.27
B	5.24	0.79	$\mu\text{g/l}$	103%	0.34
C	4.87	0.37	$\mu\text{g/l}$	95%	-0.56
D	5.50	0.45	$\mu\text{g/l}$	108%	0.98
E	5.10	1.5	$\mu\text{g/l}$	100%	0.00
F	4.85		$\mu\text{g/l}$	95%	-0.61
G	4.81	1	$\mu\text{g/l}$	94%	-0.71
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	4.74	0.9	$\mu\text{g/l}$	93%	-0.88
K	4.72	0.26	$\mu\text{g/l}$	93%	-0.93
L	4.977	0.5	$\mu\text{g/l}$	98%	-0.30
M			$\mu\text{g/l}$		
N	5.30	1.06	$\mu\text{g/l}$	104%	0.49
O	5.49		$\mu\text{g/l}$	108%	0.96
P	4.83	0.483	$\mu\text{g/l}$	95%	-0.66
Q	5.04	1.26	$\mu\text{g/l}$	99%	-0.15
R	4.84	0.69	$\mu\text{g/l}$	95%	-0.64
S	5.1		$\mu\text{g/l}$	100%	0.00
T	5.65	*	$\mu\text{g/l}$	111%	1.35
U	4.77	0.1	$\mu\text{g/l}$	94%	-0.81
V	5.00	0.37	$\mu\text{g/l}$	98%	-0.25
W	5.56	1.33	$\mu\text{g/l}$	109%	1.13
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	4.85	0.25	$\mu\text{g/l}$	95%	-0.61
AA	4.48	0.22	$\mu\text{g/l}$	88%	-1.52
AB			$\mu\text{g/l}$		
AC	4.3	*	$\mu\text{g/l}$	84%	-1.96
AD	4.96	0.11	$\mu\text{g/l}$	97%	-0.34
AE	5.20000	0.52000	$\mu\text{g/l}$	102%	0.25
AF	4.935	0.49	$\mu\text{g/l}$	97%	-0.40
AG	5.08	1.0	$\mu\text{g/l}$	100%	-0.05
AH	5.01	0.120	$\mu\text{g/l}$	98%	-0.22
AI	4.52	0.2	$\mu\text{g/l}$	89%	-1.42
AJ	<1.0	0.02	$\mu\text{g/l}$	FN	
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	4.85	0.485	$\mu\text{g/l}$	95%	-0.61
AN			$\mu\text{g/l}$		
AO	6.14	*	$\mu\text{g/l}$	120%	2.55
AP	4.94	0.52	$\mu\text{g/l}$	97%	-0.39
AQ	5.02	0.41	$\mu\text{g/l}$	98%	-0.20
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	$5,02 \pm 0,17$	$4,99 \pm 0,13$	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	$98,4 \pm 3,3$	$97,8 \pm 2,5$	%
SD between labs	0,36	0,26	$\mu\text{g/l}$
RSD between labs	7,1	5,1	%
n for calculation	33	30	



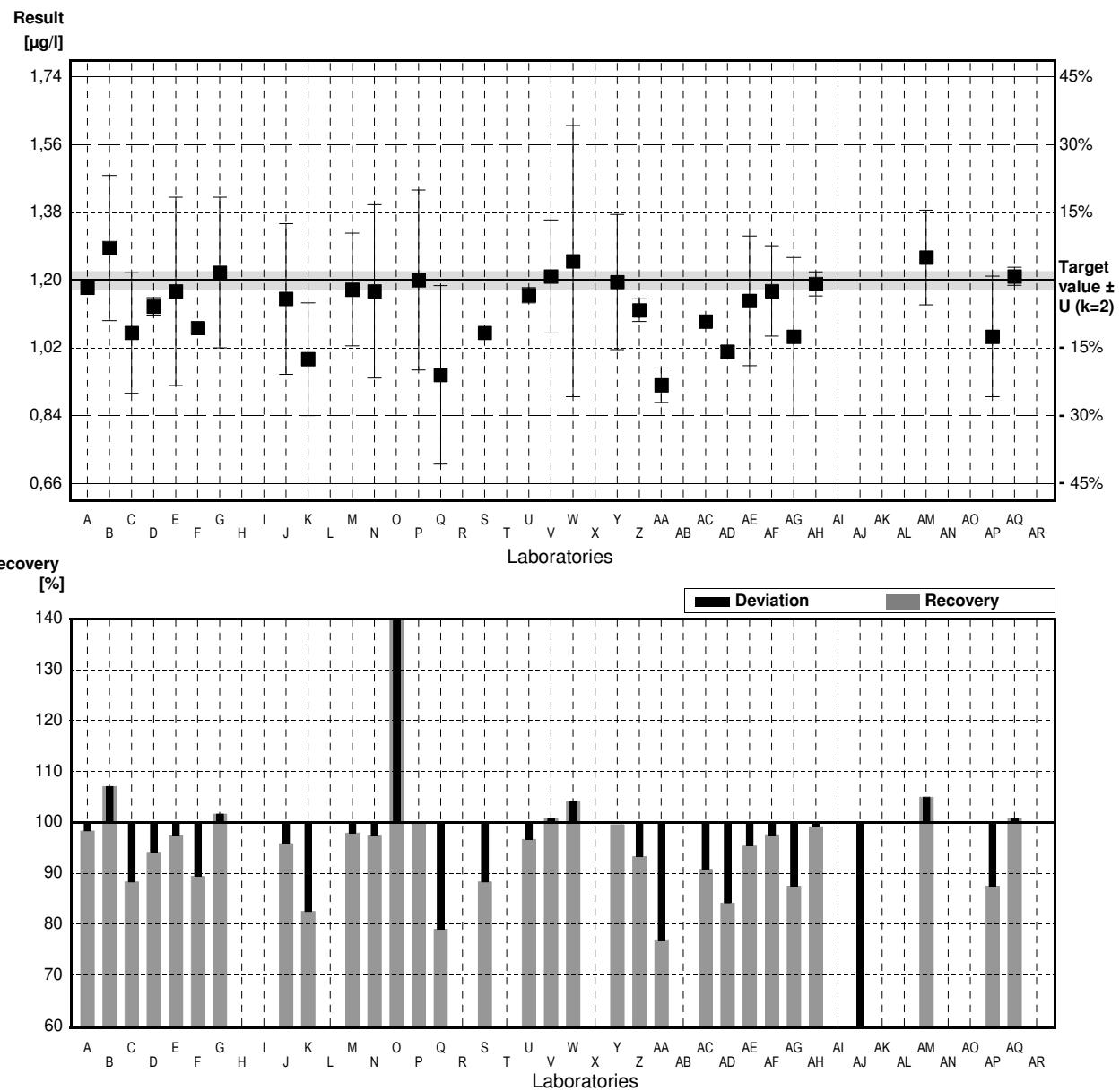
Sample M159A

Parameter Mercury

Target value $\pm U$ ($k=2$) 1,20 $\mu\text{g/l}$ \pm 0,02 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 1,22 $\mu\text{g/l}$ \pm 0,23 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 1,06 $\mu\text{g/l}$ \pm 0,20 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1.18		$\mu\text{g/l}$	98%	-0.15
B	1.285	0.193	$\mu\text{g/l}$	107%	0.64
C	1.06	0.16	$\mu\text{g/l}$	88%	-1.06
D	1.13	0.023	$\mu\text{g/l}$	94%	-0.53
E	1.17	0.25	$\mu\text{g/l}$	98%	-0.23
F	1.073		$\mu\text{g/l}$	89%	-0.96
G	1.22	0.2	$\mu\text{g/l}$	102%	0.15
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	1.15	0.2	$\mu\text{g/l}$	96%	-0.38
K	0.990	0.150	$\mu\text{g/l}$	83%	-1.59
L			$\mu\text{g/l}$		
M	1.175	0.15	$\mu\text{g/l}$	98%	-0.19
N	1.17	0.23	$\mu\text{g/l}$	98%	-0.23
O	2.85	*	$\mu\text{g/l}$	238%	12.50
P	1.20	0.239	$\mu\text{g/l}$	100%	0.00
Q	0.948	0.237	$\mu\text{g/l}$	79%	-1.91
R			$\mu\text{g/l}$		
S	1.06		$\mu\text{g/l}$	88%	-1.06
T			$\mu\text{g/l}$		
U	1.16	0.02	$\mu\text{g/l}$	97%	-0.30
V	1.21	0.15	$\mu\text{g/l}$	101%	0.08
W	1.25	0.36	$\mu\text{g/l}$	104%	0.38
X			$\mu\text{g/l}$		
Y	1.195	0.1795	$\mu\text{g/l}$	100%	-0.04
Z	1.12	0.03	$\mu\text{g/l}$	93%	-0.61
AA	0.921	0.046	$\mu\text{g/l}$	77%	-2.11
AB			$\mu\text{g/l}$		
AC	1.09		$\mu\text{g/l}$	91%	-0.83
AD	1.01	0.015	$\mu\text{g/l}$	84%	-1.44
AE	1.145	0.17200	$\mu\text{g/l}$	95%	-0.42
AF	1.171	0.12	$\mu\text{g/l}$	98%	-0.22
AG	1.05	0.21	$\mu\text{g/l}$	88%	-1.14
AH	1.19	0.0322	$\mu\text{g/l}$	99%	-0.08
AI			$\mu\text{g/l}$		
AJ	0.50	*	$\mu\text{g/l}$	42%	-5.30
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	1.26	0.126	$\mu\text{g/l}$	105%	0.45
AN			$\mu\text{g/l}$		
AO			$\mu\text{g/l}$		
AP	1.05	0.16	$\mu\text{g/l}$	88%	-1.14
AQ	1.21	0.024	$\mu\text{g/l}$	101%	0.08
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,17 \pm 0,17	1,13 \pm 0,05	$\mu\text{g/l}$
Recov. \pm CI(99%)	97,3 \pm 14,2	94,4 \pm 3,9	%
SD between labs	0,34	0,09	$\mu\text{g/l}$
RSD between labs	29,5	8,1	%
n for calculation	31	29	



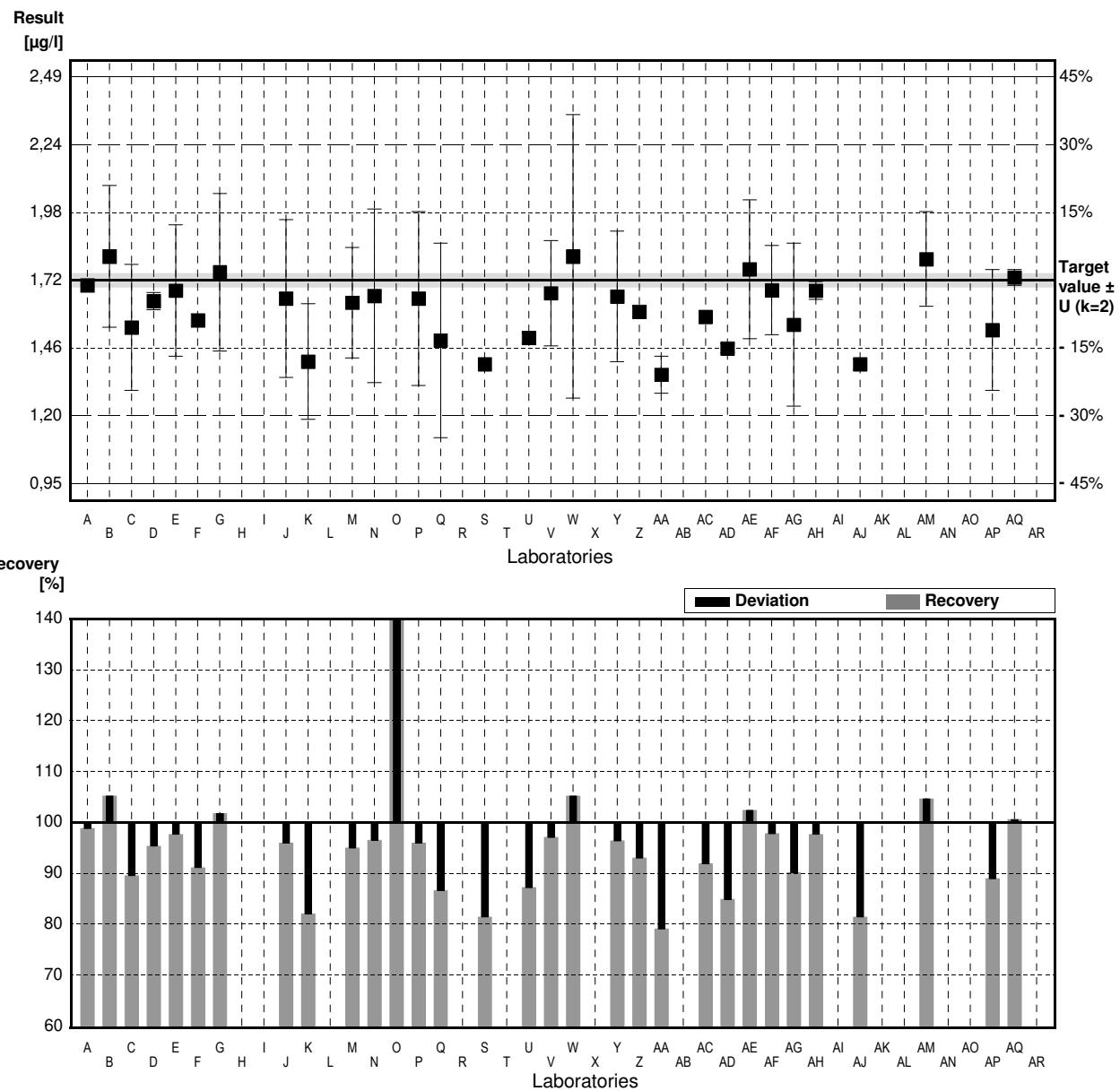
Sample M159B

Parameter Mercury

Target value $\pm U$ ($k=2$) 1,72 µg/l \pm 0,03 µg/l
 IFA result $\pm U$ ($k=2$) 1,73 µg/l \pm 0,33 µg/l
 Stability test $\pm U$ ($k=2$) 1,54 µg/l \pm 0,29 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1.70		µg/l	99%	-0.11
B	1.81	0.27	µg/l	105%	0.48
C	1.54	0.24	µg/l	90%	-0.95
D	1.64	0.033	µg/l	95%	-0.42
E	1.68	0.25	µg/l	98%	-0.21
F	1.567		µg/l	91%	-0.81
G	1.75	0.3	µg/l	102%	0.16
H			µg/l		
I			µg/l		
J	1.65	0.3	µg/l	96%	-0.37
K	1.41	0.22	µg/l	82%	-1.64
L			µg/l		
M	1.634	0.21	µg/l	95%	-0.45
N	1.66	0.33	µg/l	97%	-0.32
O	3.77 *		µg/l	219%	10.84
P	1.65	0.331	µg/l	96%	-0.37
Q	1.49	0.37	µg/l	87%	-1.22
R			µg/l		
S	1.40		µg/l	81%	-1.69
T			µg/l		
U	1.50	0.02	µg/l	87%	-1.16
V	1.67	0.20	µg/l	97%	-0.26
W	1.81	0.54	µg/l	105%	0.48
X			µg/l		
Y	1.658	0.2487	µg/l	96%	-0.33
Z	1.60	0.02	µg/l	93%	-0.63
AA	1.36	0.07	µg/l	79%	-1.90
AB			µg/l		
AC	1.58		µg/l	92%	-0.74
AD	1.46	0.017	µg/l	85%	-1.37
AE	1.76100	0.26400	µg/l	102%	0.22
AF	1.682	0.17	µg/l	98%	-0.20
AG	1.55	0.31	µg/l	90%	-0.90
AH	1.68	0.0338	µg/l	98%	-0.21
AI			µg/l		
AJ	1.40	0.02	µg/l	81%	-1.69
AK			µg/l		
AL			µg/l		
AM	1.80	0.180	µg/l	105%	0.42
AN			µg/l		
AO			µg/l		
AP	1.53	0.23	µg/l	89%	-1.00
AQ	1.73	0.030	µg/l	101%	0.05
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,68 \pm 0,20	1,61 \pm 0,06	µg/l
Recov. \pm CI(99%)	97,8 \pm 11,7	93,7 \pm 3,7	%
SD between labs	0,41	0,13	µg/l
RSD between labs	24,2	7,9	%
n for calculation	31	30	



Sample M159A

Parameter Selenium

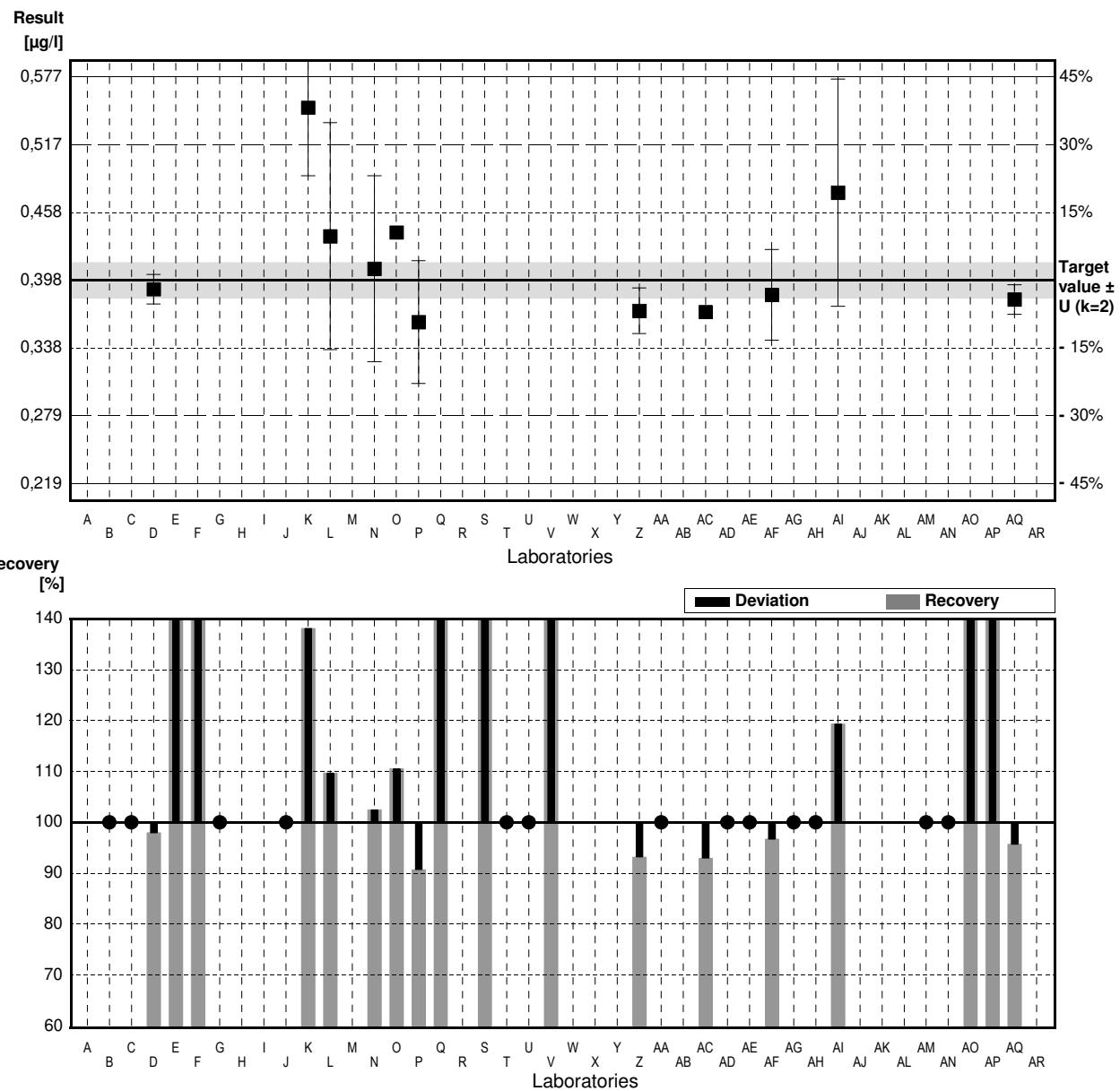
Target value $\pm U (k=2)$ 0.398 µg/l \pm 0.015 µg/l

IFA result $\pm U (k=2)$ 0.394 µg/l \pm 0.059 µg/l

Stability test $\pm U (k=2)$ 0.340 µg/l \pm 0.051 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	<1		µg/l	•	
C	<1		µg/l	•	
D	0.390	0.013	µg/l	98%	-0.18
E	1.10 *	0.25	µg/l	276%	16.03
F	1.20 *		µg/l	302%	18.32
G	<1.0		µg/l	•	
H			µg/l		
I			µg/l		
J	<1		µg/l	•	
K	0.550	0.060	µg/l	138%	3.47
L	0.4367	0.1	µg/l	110%	0.88
M			µg/l		
N	0.408	0.082	µg/l	103%	0.23
O	0.440		µg/l	111%	0.96
P	0.361	0.054	µg/l	91%	-0.85
Q	0.642	0.161	µg/l	161%	5.57
R			µg/l		
S	0.79		µg/l	198%	8.95
T	<5		µg/l	•	
U	<1		µg/l	•	
V	0.98 *	0.07	µg/l	246%	13.29
W			µg/l		
X			µg/l		
Y			µg/l		
Z	0.371	0.020	µg/l	93%	-0.62
AA	<2		µg/l	•	
AB			µg/l		
AC	0.37		µg/l	93%	-0.64
AD	<0.440		µg/l	•	
AE	<0.5000		µg/l	•	
AF	0.385	0.04	µg/l	97%	-0.30
AG	<1		µg/l	•	
AH	<1.00		µg/l	•	
AI	0.475	0.1	µg/l	119%	1.76
AJ			µg/l		
AK			µg/l		
AL			µg/l		
AM	<1.0		µg/l	•	
AN	<1.00	0.20	µg/l	•	
AO	1.04 *	0.17	µg/l	261%	14.66
AP	0.62	0.09	µg/l	156%	5.07
AQ	0.381	0.013	µg/l	96%	-0.39
AR			µg/l		

	All results	Outliers excl.	Unit
Mean $\pm CI(99\%)$	0,608 \pm 0,196	0,473 \pm 0,105	µg/l
Recov. $\pm CI(99\%)$	152,7 \pm 49,2	118,8 \pm 26,3	%
SD between labs	0,286	0,130	µg/l
RSD between labs	47,1	27,5	%
n for calculation	18	14	



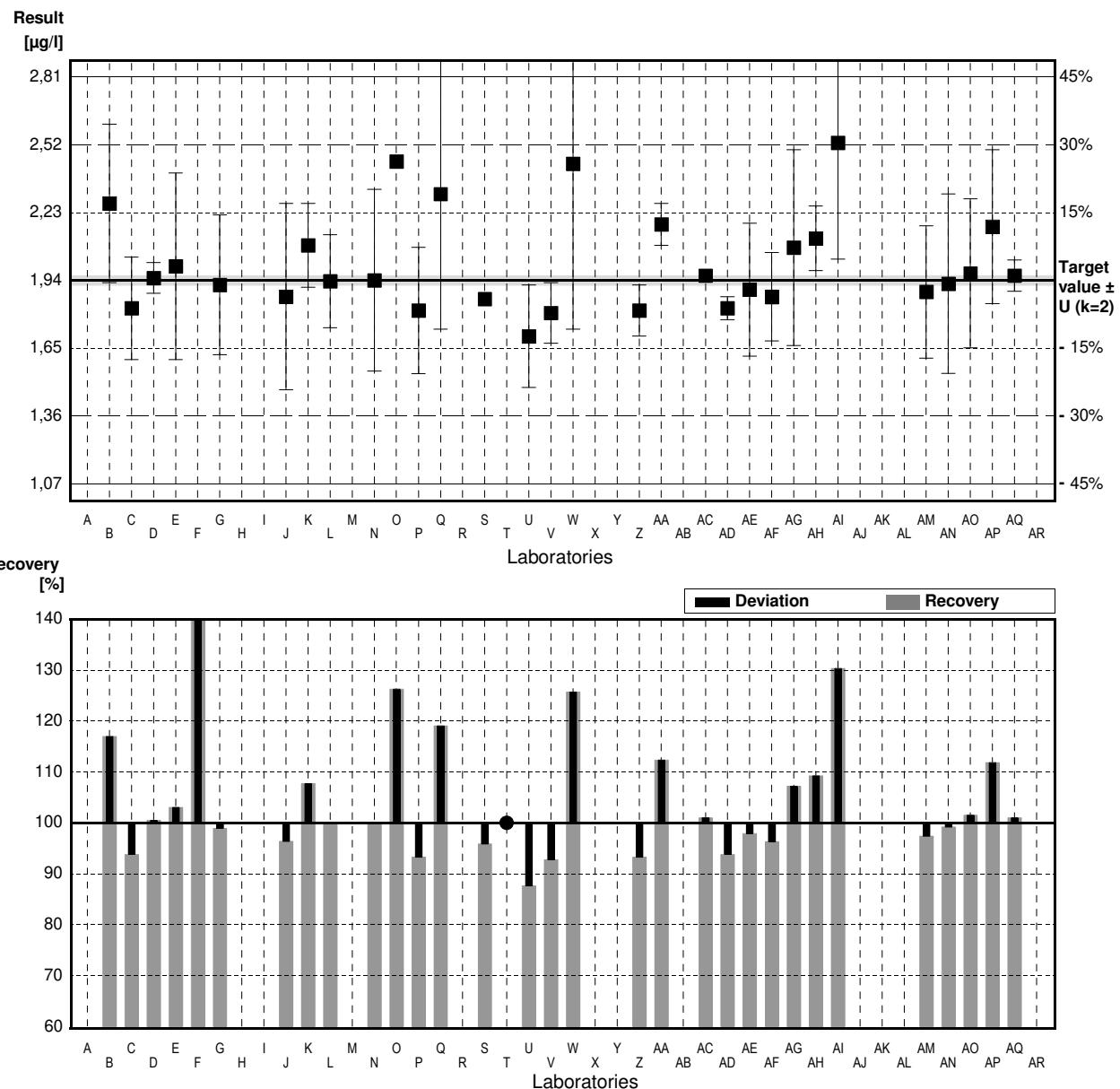
Sample M159B

Parameter Selenium

Target value $\pm U$ ($k=2$) 1,94 $\mu\text{g/l}$ \pm 0,02 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 1,91 $\mu\text{g/l}$ \pm 0,23 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 2,09 $\mu\text{g/l}$ \pm 0,25 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	2,27	0,34	$\mu\text{g/l}$	117%	1,55
C	1,82	0,22	$\mu\text{g/l}$	94%	-0,56
D	1,95	0,066	$\mu\text{g/l}$	101%	0,05
E	2,00	0,40	$\mu\text{g/l}$	103%	0,28
F	3,05 *		$\mu\text{g/l}$	157%	5,20
G	1,92	0,3	$\mu\text{g/l}$	99%	-0,09
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	1,87	0,4	$\mu\text{g/l}$	96%	-0,33
K	2,09	0,18	$\mu\text{g/l}$	108%	0,70
L	1,936	0,2	$\mu\text{g/l}$	100%	-0,02
M			$\mu\text{g/l}$		
N	1,94	0,39	$\mu\text{g/l}$	100%	0,00
O	2,45		$\mu\text{g/l}$	126%	2,39
P	1,81	0,271	$\mu\text{g/l}$	93%	-0,61
Q	2,31	0,58	$\mu\text{g/l}$	119%	1,73
R			$\mu\text{g/l}$		
S	1,86		$\mu\text{g/l}$	96%	-0,37
T	<5		$\mu\text{g/l}$	*	
U	1,70	0,22	$\mu\text{g/l}$	88%	-1,12
V	1,80	0,13	$\mu\text{g/l}$	93%	-0,66
W	2,44	0,71	$\mu\text{g/l}$	126%	2,34
X			$\mu\text{g/l}$		
Y			$\mu\text{g/l}$		
Z	1,81	0,11	$\mu\text{g/l}$	93%	-0,61
AA	2,18	0,09	$\mu\text{g/l}$	112%	1,12
AB			$\mu\text{g/l}$		
AC	1,96		$\mu\text{g/l}$	101%	0,09
AD	1,82	0,049	$\mu\text{g/l}$	94%	-0,56
AE	1,90000	0,28500	$\mu\text{g/l}$	98%	-0,19
AF	1,869	0,19	$\mu\text{g/l}$	96%	-0,33
AG	2,08	0,42	$\mu\text{g/l}$	107%	0,66
AH	2,12	0,139	$\mu\text{g/l}$	109%	0,84
AI	2,53	0,5	$\mu\text{g/l}$	130%	2,76
AJ			$\mu\text{g/l}$		
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	1,89	0,284	$\mu\text{g/l}$	97%	-0,23
AN	1,925	0,385	$\mu\text{g/l}$	99%	-0,07
AO	1,97	0,32	$\mu\text{g/l}$	102%	0,14
AP	2,17	0,33	$\mu\text{g/l}$	112%	1,08
AQ	1,96	0,067	$\mu\text{g/l}$	101%	0,09
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean $\pm \text{CI}(99\%)$	2,05 \pm 0,14	2,01 \pm 0,11	$\mu\text{g/l}$
Recov. $\pm \text{CI}(99\%)$	105,4 \pm 7,1	103,7 \pm 5,5	%
SD between labs	0,28	0,21	$\mu\text{g/l}$
RSD between labs	13,7	10,5	%
n for calculation	31	30	



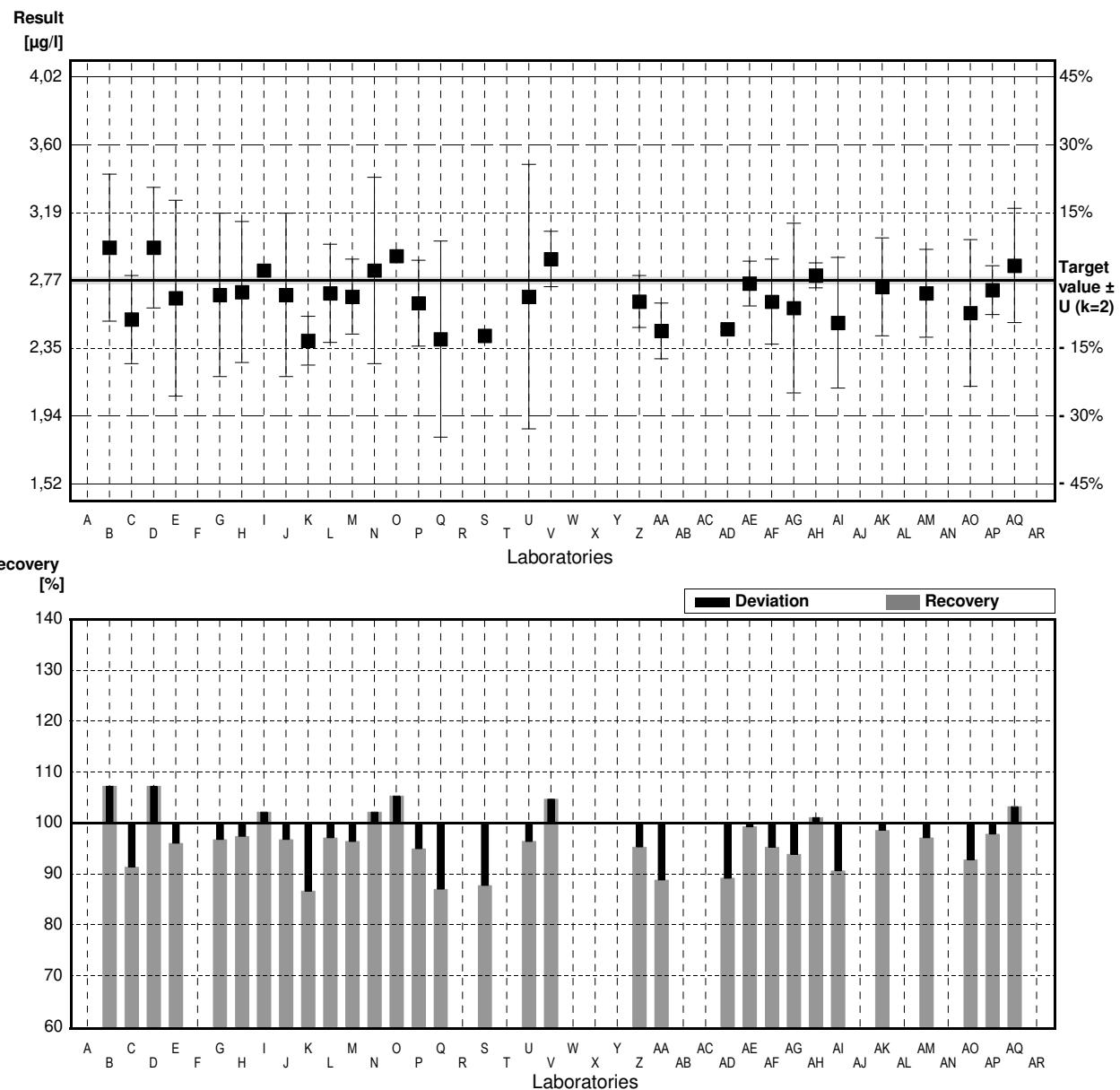
Sample M159A

Parameter Uranium

Target value \pm U (k=2) 2,77 µg/l \pm 0,02 µg/l
 IFA result \pm U (k=2) 2,61 µg/l \pm 0,29 µg/l
 Stability test \pm U (k=2) 2,66 µg/l \pm 0,29 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	2,97	0,45	µg/l	107%	1,24
C	2,53	0,27	µg/l	91%	-1,49
D	2,97	0,37	µg/l	107%	1,24
E	2,66	0,60	µg/l	96%	-0,68
F			µg/l		
G	2,68	0,5	µg/l	97%	-0,56
H	2,698	0,432	µg/l	97%	-0,45
I	2,83		µg/l	102%	0,37
J	2,68	0,5	µg/l	97%	-0,56
K	2,40	0,15	µg/l	87%	-2,30
L	2,690	0,3	µg/l	97%	-0,50
M	2,67	0,23	µg/l	96%	-0,62
N	2,83	0,57	µg/l	102%	0,37
O	2,918		µg/l	105%	0,92
P	2,63	0,263	µg/l	95%	-0,87
Q	2,41	0,6	µg/l	87%	-2,24
R			µg/l		
S	2,43		µg/l	88%	-2,12
T			µg/l		
U	2,67	0,81	µg/l	96%	-0,62
V	2,90	0,17	µg/l	105%	0,81
W			µg/l		
X			µg/l		
Y			µg/l		
Z	2,64	0,16	µg/l	95%	-0,81
AA	2,46	0,17	µg/l	89%	-1,93
AB			µg/l		
AC			µg/l		
AD	2,47	0,017	µg/l	89%	-1,87
AE	2,75000	0,13800	µg/l	99%	-0,12
AF	2,639	0,26	µg/l	95%	-0,82
AG	2,60	0,52	µg/l	94%	-1,06
AH	2,80	0,0774	µg/l	101%	0,19
AI	2,51	0,4	µg/l	91%	-1,62
AJ			µg/l		
AK	2,73	0,3	µg/l	99%	-0,25
AL			µg/l		
AM	2,69	0,269	µg/l	97%	-0,50
AN			µg/l		
AO	2,57	0,45	µg/l	93%	-1,24
AP	2,71	0,15	µg/l	98%	-0,37
AQ	2,86	0,35	µg/l	103%	0,56
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	2,68 \pm 0,08	2,68 \pm 0,08	µg/l
Recov. \pm CI(99%)	96,7 \pm 2,8	96,7 \pm 2,8	%
SD between labs	0,16	0,16	µg/l
RSD between labs	5,9	5,9	%
n for calculation	31	31	



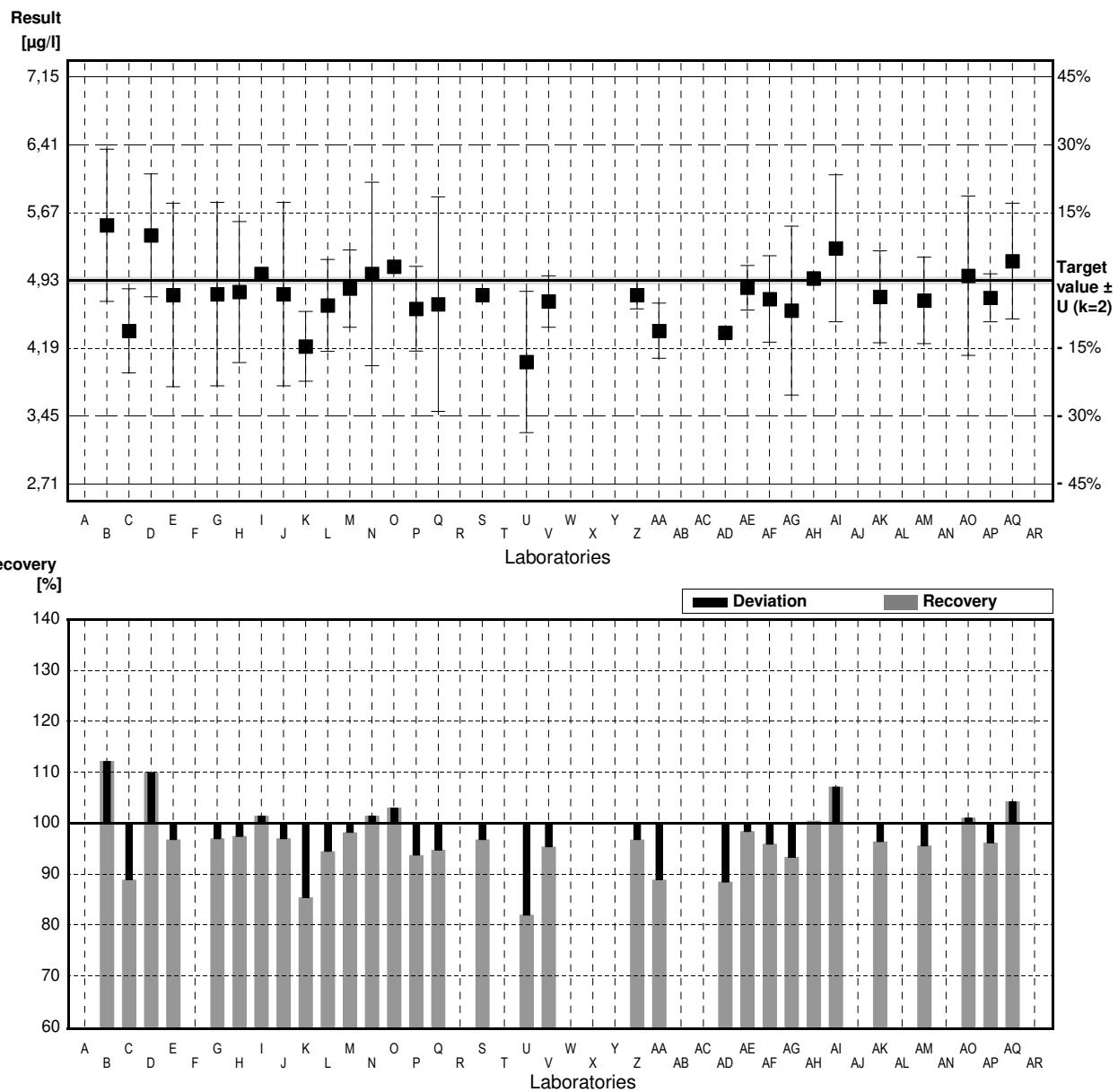
Sample M159B

Parameter Uranium

Target value \pm U (k=2) 4,93 µg/l \pm 0,04 µg/l
 IFA result \pm U (k=2) 4,60 µg/l \pm 0,51 µg/l
 Stability test \pm U (k=2) 4,74 µg/l \pm 0,52 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	5,53 *	0,83	µg/l	112%	2,10
C	4,38	0,46	µg/l	89%	-1,92
D	5,42	0,67	µg/l	110%	1,71
E	4,77	1,0	µg/l	97%	-0,56
F			µg/l		
G	4,78	1	µg/l	97%	-0,52
H	4,803	0,768	µg/l	97%	-0,44
I	5,0		µg/l	101%	0,24
J	4,78	1,0	µg/l	97%	-0,52
K	4,21	0,38	µg/l	85%	-2,52
L	4,656	0,5	µg/l	94%	-0,96
M	4,84	0,42	µg/l	98%	-0,31
N	5,00	1	µg/l	101%	0,24
O	5,08		µg/l	103%	0,52
P	4,62	0,462	µg/l	94%	-1,08
Q	4,67	1,17	µg/l	95%	-0,91
R			µg/l		
S	4,77		µg/l	97%	-0,56
T			µg/l		
U	4,04 *	0,77	µg/l	82%	-3,11
V	4,70	0,28	µg/l	95%	-0,80
W			µg/l		
X			µg/l		
Y			µg/l		
Z	4,77	0,15	µg/l	97%	-0,56
AA	4,38	0,30	µg/l	89%	-1,92
AB			µg/l		
AC			µg/l		
AD	4,36	0,035	µg/l	88%	-1,99
AE	4,85000	0,24300	µg/l	98%	-0,28
AF	4,727	0,47	µg/l	96%	-0,71
AG	4,60	0,92	µg/l	93%	-1,15
AH	4,95	0,0724	µg/l	100%	0,07
AI	5,28	0,8	µg/l	107%	1,22
AJ			µg/l		
AK	4,75	0,5	µg/l	96%	-0,63
AL			µg/l		
AM	4,71	0,471	µg/l	96%	-0,77
AN			µg/l		
AO	4,98	0,87	µg/l	101%	0,17
AP	4,74	0,26	µg/l	96%	-0,66
AQ	5,14	0,63	µg/l	104%	0,73
AR			µg/l		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	4,78 \pm 0,16	4,78 \pm 0,14	µg/l
Recov. \pm CI(99%)	97,0 \pm 3,2	97,0 \pm 2,8	%
SD between labs	0,32	0,27	µg/l
RSD between labs	6,7	5,6	%
n for calculation	31	29	



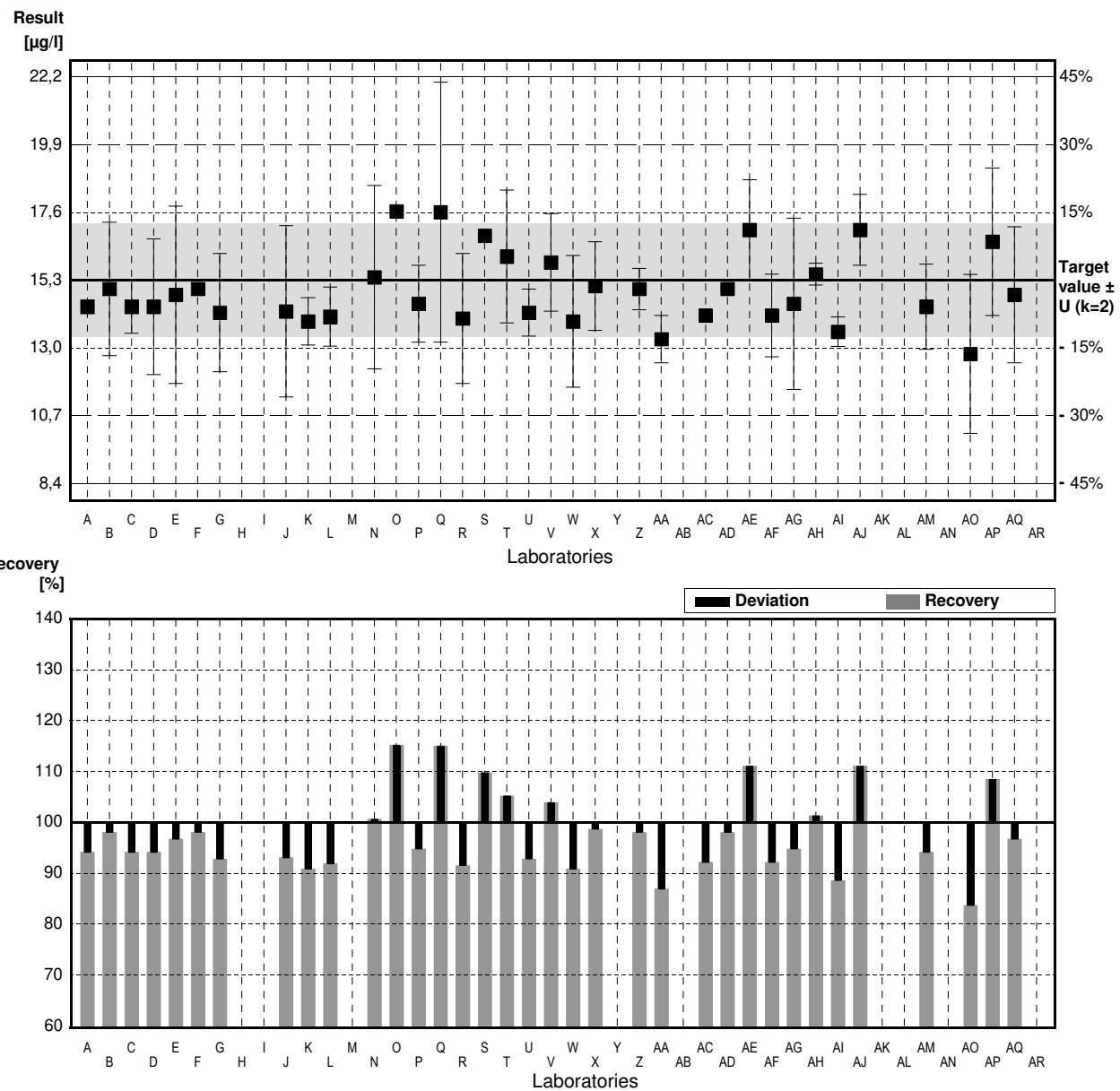
Sample M159A

Parameter Zinc

Target value $\pm U (k=2)$ 15,3 µg/l \pm 1,9 µg/l
 IFA result $\pm U (k=2)$ 15,6 µg/l \pm 2,0 µg/l
 Stability test $\pm U (k=2)$ 15,5 µg/l \pm 2,0 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	14,4		µg/l	94%	-0,75
B	15,0	2,26	µg/l	98%	-0,25
C	14,4	0,9	µg/l	94%	-0,75
D	14,4	2,3	µg/l	94%	-0,75
E	14,8	3,0	µg/l	97%	-0,42
F	15,00		µg/l	98%	-0,25
G	14,2	2	µg/l	93%	-0,92
H			µg/l		
I			µg/l		
J	14,24	2,9	µg/l	93%	-0,89
K	13,9	0,8	µg/l	91%	-1,17
L	14,06	1	µg/l	92%	-1,04
M			µg/l		
N	15,4	3,1	µg/l	101%	0,08
O	17,63 *		µg/l	115%	1,95
P	14,5	1,30	µg/l	95%	-0,67
Q	17,6 *	4,4	µg/l	115%	1,93
R	14,0	2,2	µg/l	92%	-1,09
S	16,8 *		µg/l	110%	1,26
T	16,1	2,25	µg/l	105%	0,67
U	14,2	0,8	µg/l	93%	-0,92
V	15,9	1,65	µg/l	104%	0,50
W	13,9	2,23	µg/l	91%	-1,17
X	15,1	1,5	µg/l	99%	-0,17
Y			µg/l		
Z	15,0	0,7	µg/l	98%	-0,25
AA	13,3	0,8	µg/l	87%	-1,68
AB			µg/l		
AC	14,1		µg/l	92%	-1,01
AD	15,0	0,058	µg/l	98%	-0,25
AE	17,0000 *	1,70000	µg/l	111%	1,42
AF	14,1	1,4	µg/l	92%	-1,01
AG	14,5	2,9	µg/l	95%	-0,67
AH	15,5	0,372	µg/l	101%	0,17
AI	13,55	0,5	µg/l	89%	-1,47
AJ	17,0 *	1,2	µg/l	111%	1,42
AK			µg/l		
AL			µg/l		
AM	14,4	1,44	µg/l	94%	-0,75
AN			µg/l		
AO	12,8	2,69	µg/l	84%	-2,09
AP	16,6	2,5	µg/l	108%	1,09
AQ	14,8	2,3	µg/l	97%	-0,42
AR			µg/l		

	All results	Outliers excl.	Unit
Mean $\pm CI(99\%)$	14,9 \pm 0,6	14,6 \pm 0,4	µg/l
Recov. $\pm CI(99\%)$	97,7 \pm 3,6	95,2 \pm 2,7	%
SD between labs	1,2	0,8	µg/l
RSD between labs	8,1	5,6	%
n for calculation	35	30	



Sample M159B

Parameter Zinc

Target value $\pm U$ ($k=2$) 26,0 $\mu\text{g/l}$ \pm 1,9 $\mu\text{g/l}$
 IFA result $\pm U$ ($k=2$) 26,0 $\mu\text{g/l}$ \pm 3,1 $\mu\text{g/l}$
 Stability test $\pm U$ ($k=2$) 25,6 $\mu\text{g/l}$ \pm 3,1 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	24,7		$\mu\text{g/l}$	95%	-0,64
B	25,9	3,88	$\mu\text{g/l}$	100%	-0,05
C	24,5	1,5	$\mu\text{g/l}$	94%	-0,74
D	25,4	4,0	$\mu\text{g/l}$	98%	-0,30
E	25,0	5,0	$\mu\text{g/l}$	96%	-0,49
F	25,5		$\mu\text{g/l}$	98%	-0,25
G	24,1	5	$\mu\text{g/l}$	93%	-0,94
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	24,0	0,5	$\mu\text{g/l}$	92%	-0,99
K	23,3	1,5	$\mu\text{g/l}$	90%	-1,33
L	24,73	2	$\mu\text{g/l}$	95%	-0,63
M			$\mu\text{g/l}$		
N	26,7	5,3	$\mu\text{g/l}$	103%	0,35
O	31,05 *		$\mu\text{g/l}$	119%	2,49
P	24,4	2,19	$\mu\text{g/l}$	94%	-0,79
Q	26,1	6,5	$\mu\text{g/l}$	100%	0,05
R	24,1	3,9	$\mu\text{g/l}$	93%	-0,94
S	27,5		$\mu\text{g/l}$	106%	0,74
T	26,7	3,74	$\mu\text{g/l}$	103%	0,35
U	25,1	1	$\mu\text{g/l}$	97%	-0,44
V	27,7	2,87	$\mu\text{g/l}$	107%	0,84
W	24,9	3,98	$\mu\text{g/l}$	96%	-0,54
X	25,9	2,6	$\mu\text{g/l}$	100%	-0,05
Y			$\mu\text{g/l}$		
Z	24,9	0,7	$\mu\text{g/l}$	96%	-0,54
AA	24,8	1,5	$\mu\text{g/l}$	95%	-0,59
AB			$\mu\text{g/l}$		
AC	24,3		$\mu\text{g/l}$	93%	-0,84
AD	24,5	0,25	$\mu\text{g/l}$	94%	-0,74
AE	27,0000	2,70000	$\mu\text{g/l}$	104%	0,49
AF	24,4	2,5	$\mu\text{g/l}$	94%	-0,79
AG	25,3	5,1	$\mu\text{g/l}$	97%	-0,35
AH	26,8	0,342	$\mu\text{g/l}$	103%	0,39
AI	23,9	0,5	$\mu\text{g/l}$	92%	-1,04
AJ	26,0	1,2	$\mu\text{g/l}$	100%	0,00
AK			$\mu\text{g/l}$		
AL			$\mu\text{g/l}$		
AM	24,9	2,49	$\mu\text{g/l}$	96%	-0,54
AN			$\mu\text{g/l}$		
AO	26,5	5,57	$\mu\text{g/l}$	102%	0,25
AP	28,6	4,3	$\mu\text{g/l}$	110%	1,28
AQ	25,2	4,0	$\mu\text{g/l}$	97%	-0,39
AR			$\mu\text{g/l}$		

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	25,6 \pm 0,7	25,4 \pm 0,6	$\mu\text{g/l}$
Recov. \pm CI(99%)	98,3 \pm 2,7	97,7 \pm 2,2	%
SD between labs	1,5	1,2	$\mu\text{g/l}$
RSD between labs	6,0	4,8	%
n for calculation	35	34	

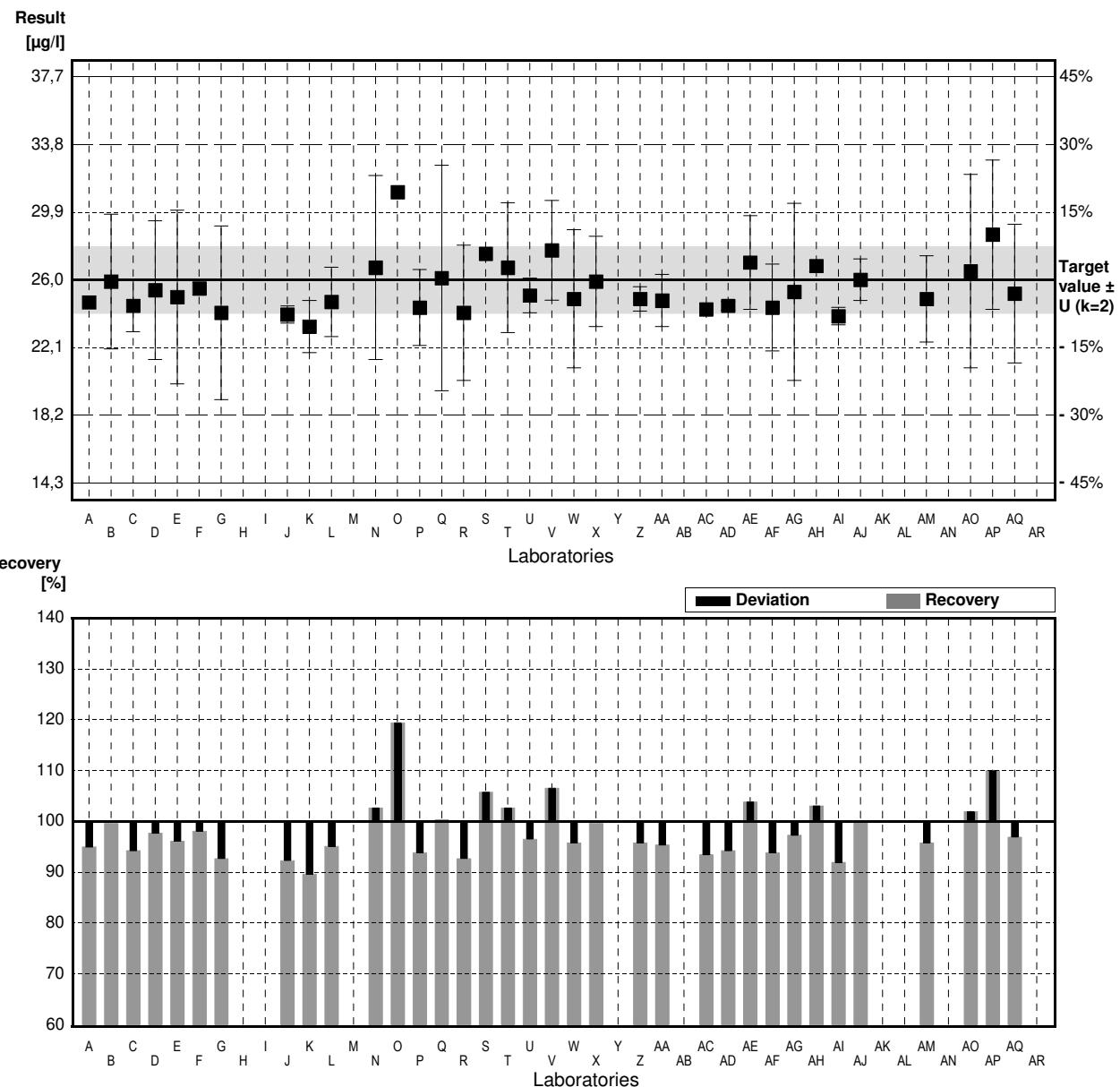


Illustration of Results Laboratory Oriented Part

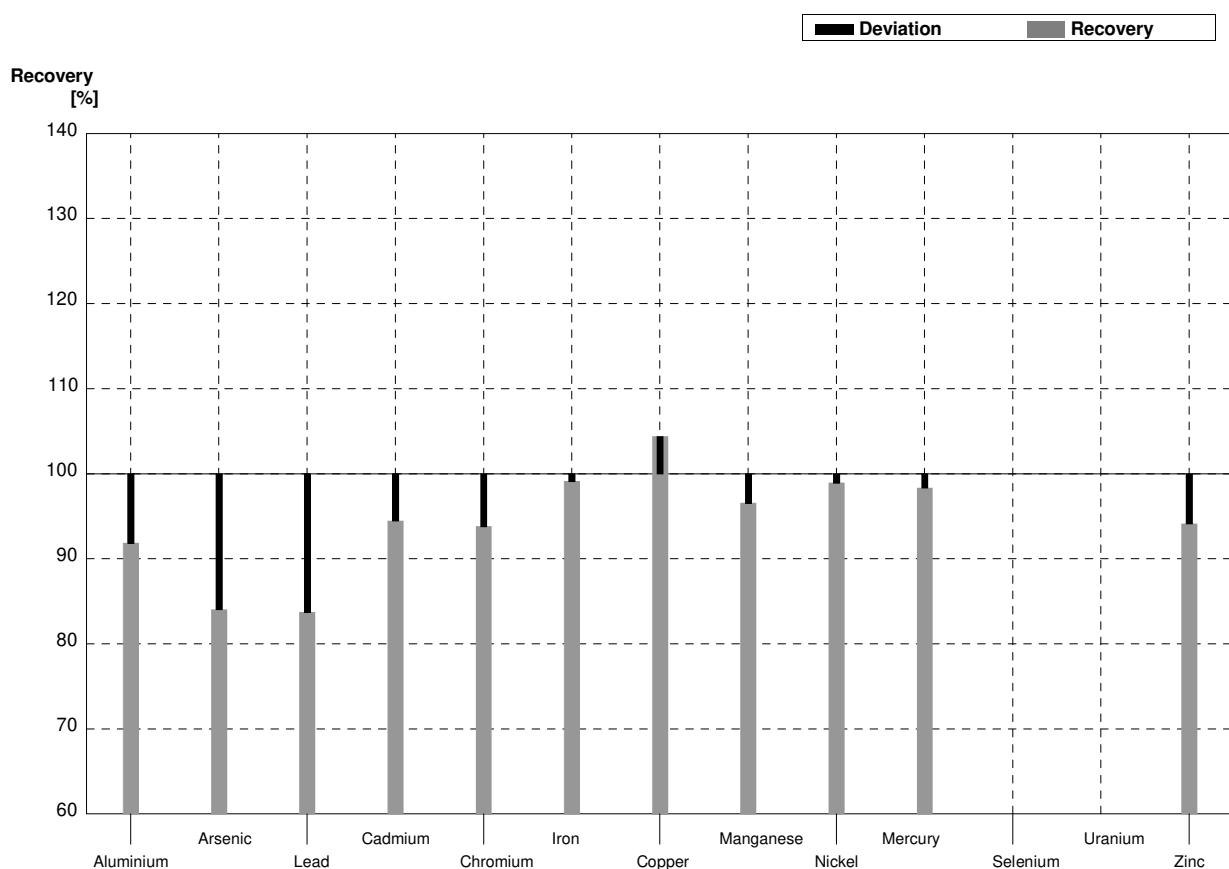
**Round M159
Metals**

Sample Dispatch: 8 November 2021



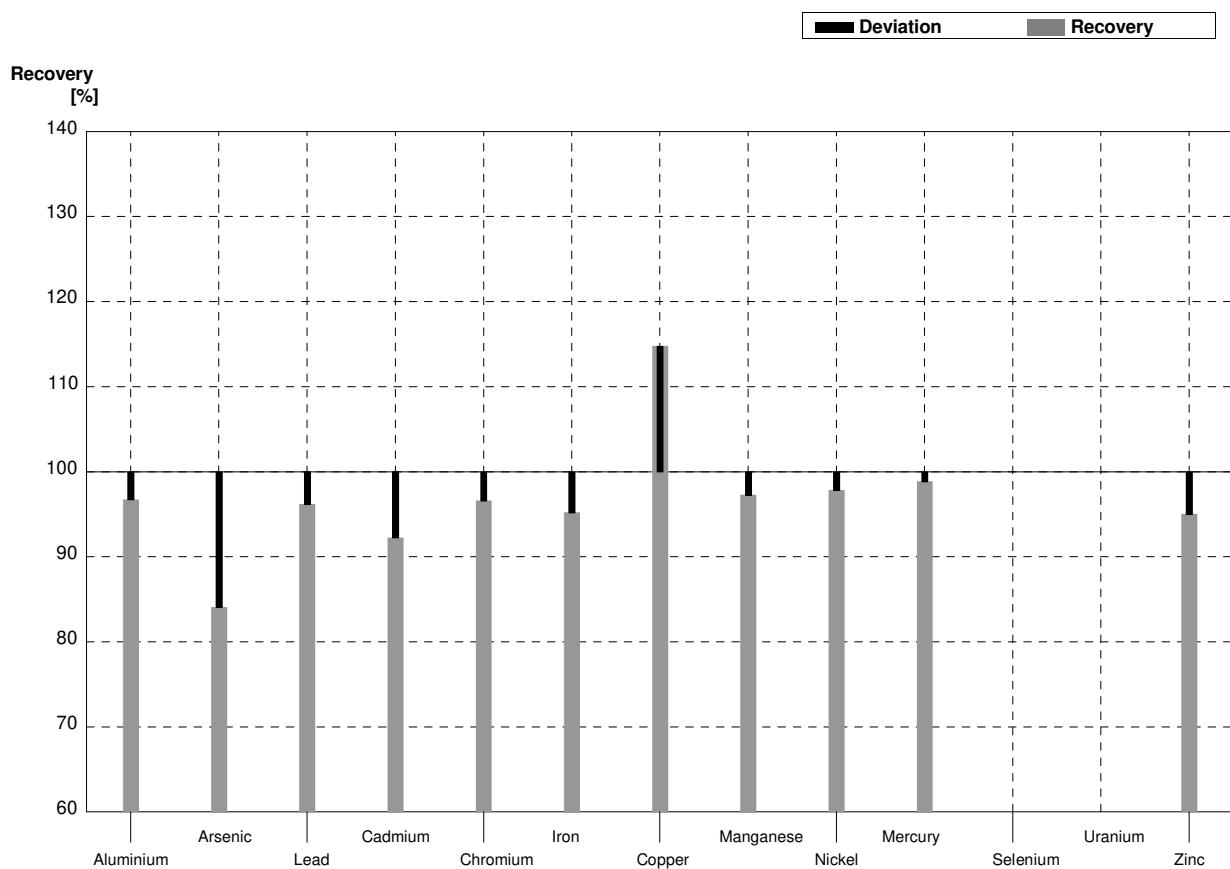
Sample M159A
Laboratory A

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	45,1		$\mu\text{g/l}$	92%
Arsenic	3,07	0,02	2,58		$\mu\text{g/l}$	84%
Lead	3,50	0,03	2,93		$\mu\text{g/l}$	84%
Cadmium	4,16	0,02	3,93		$\mu\text{g/l}$	94%
Chromium	1,29	0,01	1,21		$\mu\text{g/l}$	94%
Iron	45,0	0,3	44,6		$\mu\text{g/l}$	99%
Copper	6,61	0,04	6,9		$\mu\text{g/l}$	104%
Manganese	11,6	0,1	11,2		$\mu\text{g/l}$	97%
Nickel	3,71	0,03	3,67		$\mu\text{g/l}$	99%
Mercury	1,20	0,02	1,18		$\mu\text{g/l}$	98%
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	14,4		$\mu\text{g/l}$	94%



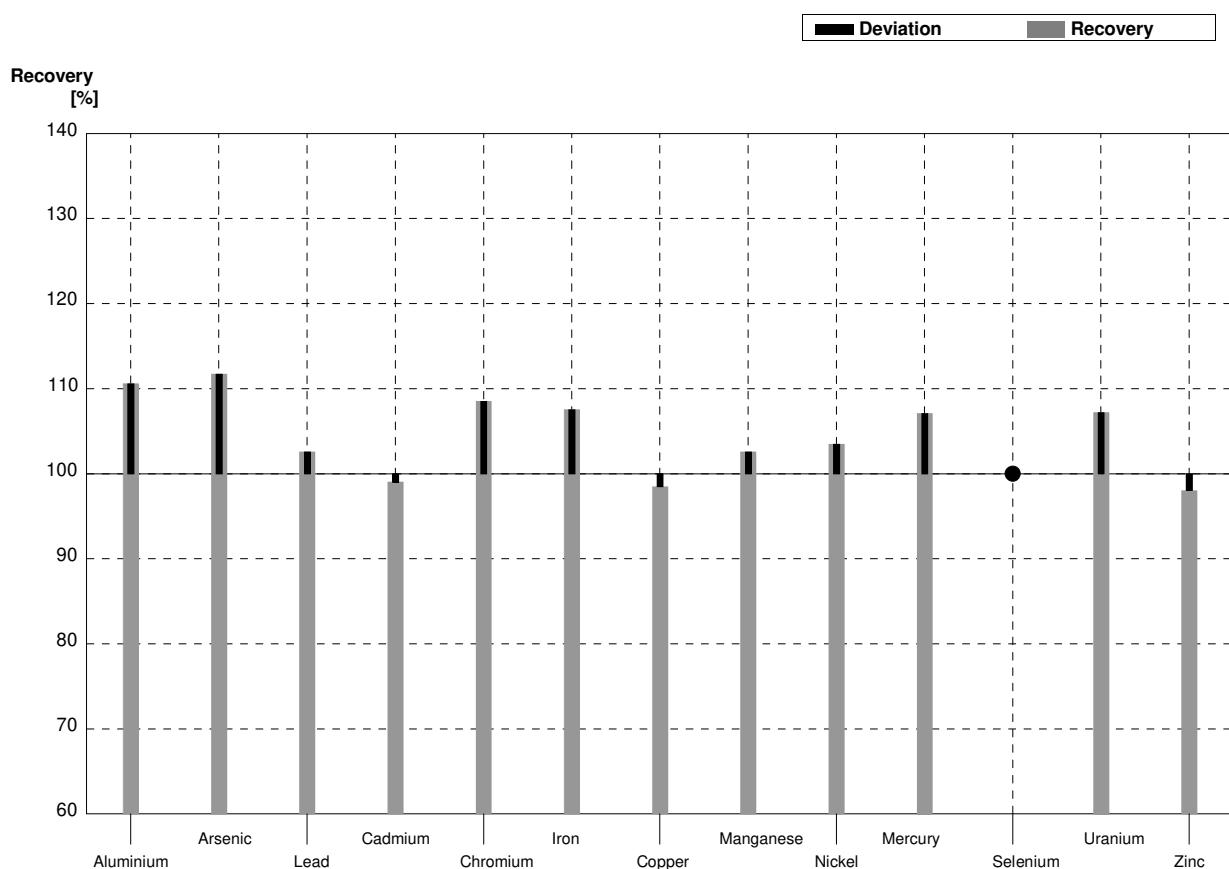
Sample M159B
Laboratory A

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,8		$\mu\text{g/l}$	97%
Arsenic	4,27	0,03	3,59		$\mu\text{g/l}$	84%
Lead	6,55	0,05	6,3		$\mu\text{g/l}$	96%
Cadmium	1,16	0,01	1,07		$\mu\text{g/l}$	92%
Chromium	5,28	0,04	5,1		$\mu\text{g/l}$	97%
Iron	12,5	0,3	11,9		$\mu\text{g/l}$	95%
Copper	3,11	0,03	3,57		$\mu\text{g/l}$	115%
Manganese	40,2	0,3	39,1		$\mu\text{g/l}$	97%
Nickel	5,10	0,04	4,99		$\mu\text{g/l}$	98%
Mercury	1,72	0,03	1,70		$\mu\text{g/l}$	99%
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	24,7		$\mu\text{g/l}$	95%



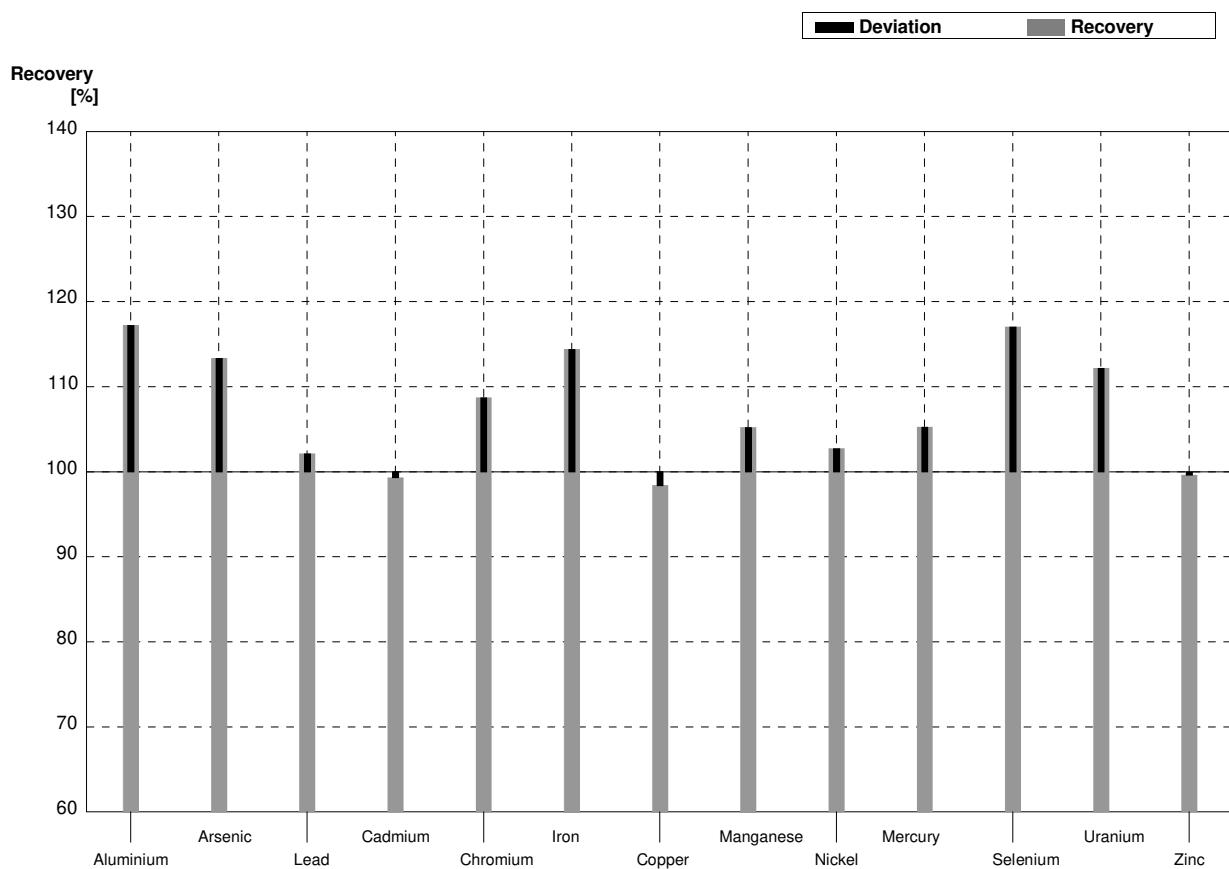
Sample M159A
Laboratory B

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	54,3	8,14	$\mu\text{g/l}$	111%
Arsenic	3,07	0,02	3,43	0,51	$\mu\text{g/l}$	112%
Lead	3,50	0,03	3,59	0,54	$\mu\text{g/l}$	103%
Cadmium	4,16	0,02	4,12	0,62	$\mu\text{g/l}$	99%
Chromium	1,29	0,01	1,40	0,21	$\mu\text{g/l}$	109%
Iron	45,0	0,3	48,4	7,26	$\mu\text{g/l}$	108%
Copper	6,61	0,04	6,51	0,98	$\mu\text{g/l}$	98%
Manganese	11,6	0,1	11,9	1,79	$\mu\text{g/l}$	103%
Nickel	3,71	0,03	3,84	0,58	$\mu\text{g/l}$	104%
Mercury	1,20	0,02	1,285	0,193	$\mu\text{g/l}$	107%
Selenium	0,398	0,015	<1		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,97	0,45	$\mu\text{g/l}$	107%
Zinc	15,3	1,9	15,0	2,26	$\mu\text{g/l}$	98%



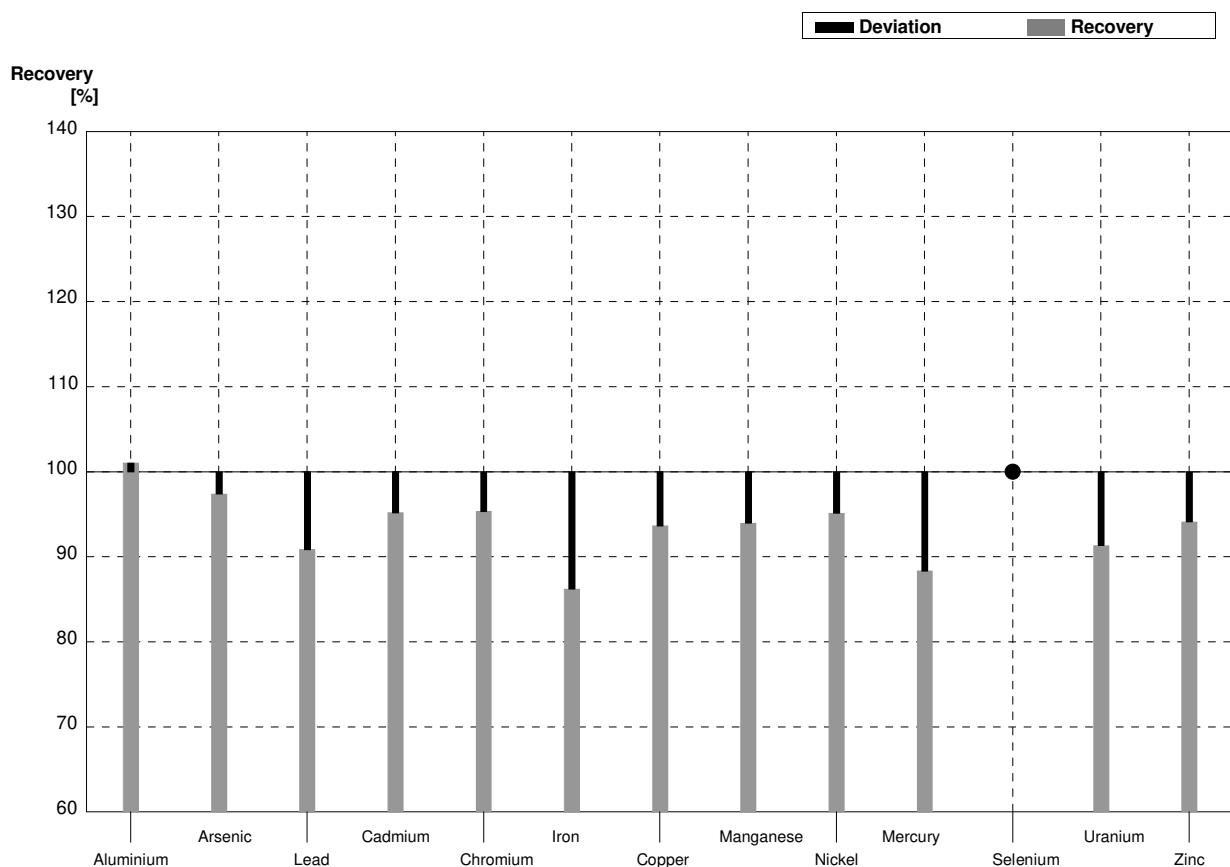
Sample M159B
Laboratory B

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	14,3	2,14	$\mu\text{g/l}$	117%
Arsenic	4,27	0,03	4,84	0,73	$\mu\text{g/l}$	113%
Lead	6,55	0,05	6,69	1,00	$\mu\text{g/l}$	102%
Cadmium	1,16	0,01	1,152	0,173	$\mu\text{g/l}$	99%
Chromium	5,28	0,04	5,74	0,86	$\mu\text{g/l}$	109%
Iron	12,5	0,3	14,3	2,14	$\mu\text{g/l}$	114%
Copper	3,11	0,03	3,06	0,46	$\mu\text{g/l}$	98%
Manganese	40,2	0,3	42,3	6,35	$\mu\text{g/l}$	105%
Nickel	5,10	0,04	5,24	0,79	$\mu\text{g/l}$	103%
Mercury	1,72	0,03	1,81	0,27	$\mu\text{g/l}$	105%
Selenium	1,94	0,02	2,27	0,34	$\mu\text{g/l}$	117%
Uranium	4,93	0,04	5,53	0,83	$\mu\text{g/l}$	112%
Zinc	26,0	1,9	25,9	3,88	$\mu\text{g/l}$	100%



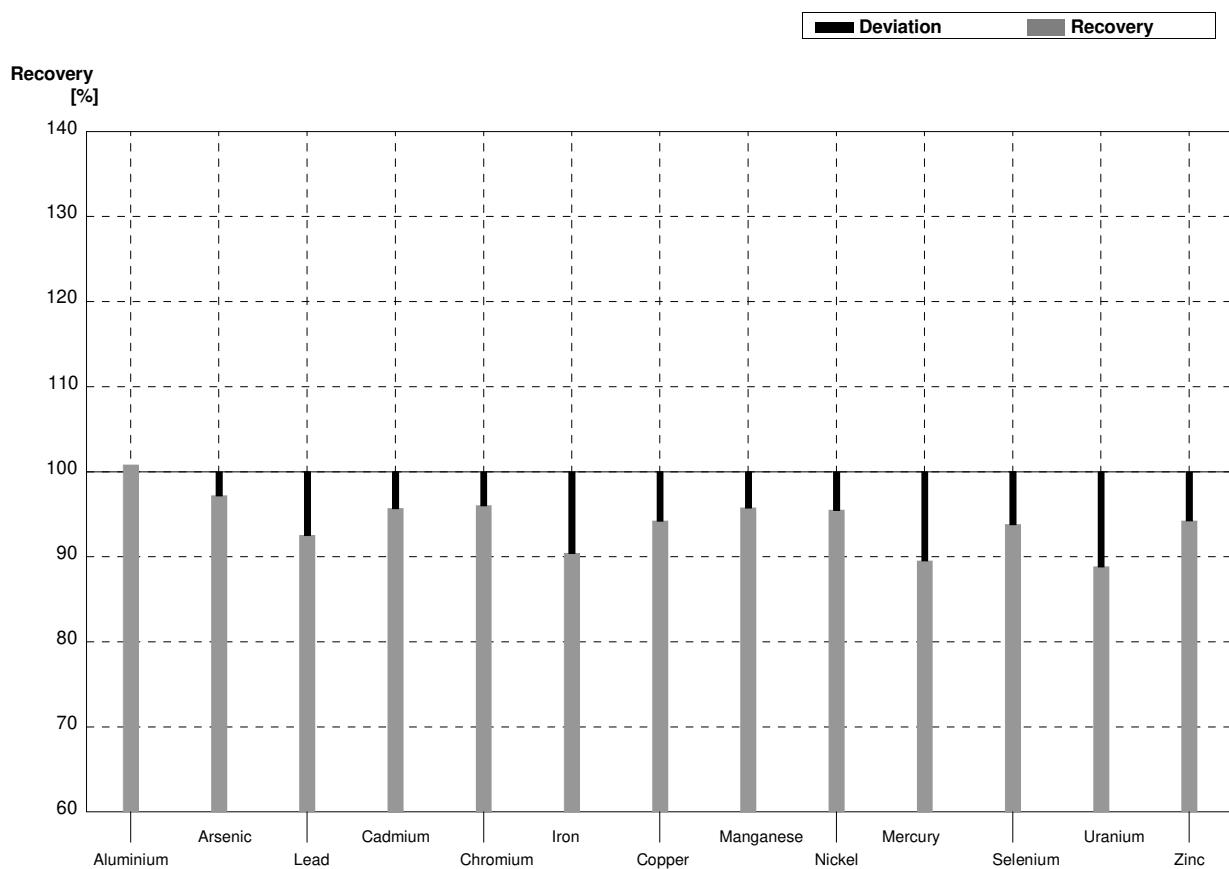
Sample M159A
Laboratory C

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	49,6	5,5	$\mu\text{g/l}$	101%
Arsenic	3,07	0,02	2,99	0,17	$\mu\text{g/l}$	97%
Lead	3,50	0,03	3,18	0,3	$\mu\text{g/l}$	91%
Cadmium	4,16	0,02	3,96	0,18	$\mu\text{g/l}$	95%
Chromium	1,29	0,01	1,23	0,17	$\mu\text{g/l}$	95%
Iron	45,0	0,3	38,8	4,3	$\mu\text{g/l}$	86%
Copper	6,61	0,04	6,19	0,34	$\mu\text{g/l}$	94%
Manganese	11,6	0,1	10,9	0,6	$\mu\text{g/l}$	94%
Nickel	3,71	0,03	3,53	0,27	$\mu\text{g/l}$	95%
Mercury	1,20	0,02	1,06	0,16	$\mu\text{g/l}$	88%
Selenium	0,398	0,015	<1		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,53	0,27	$\mu\text{g/l}$	91%
Zinc	15,3	1,9	14,4	0,9	$\mu\text{g/l}$	94%



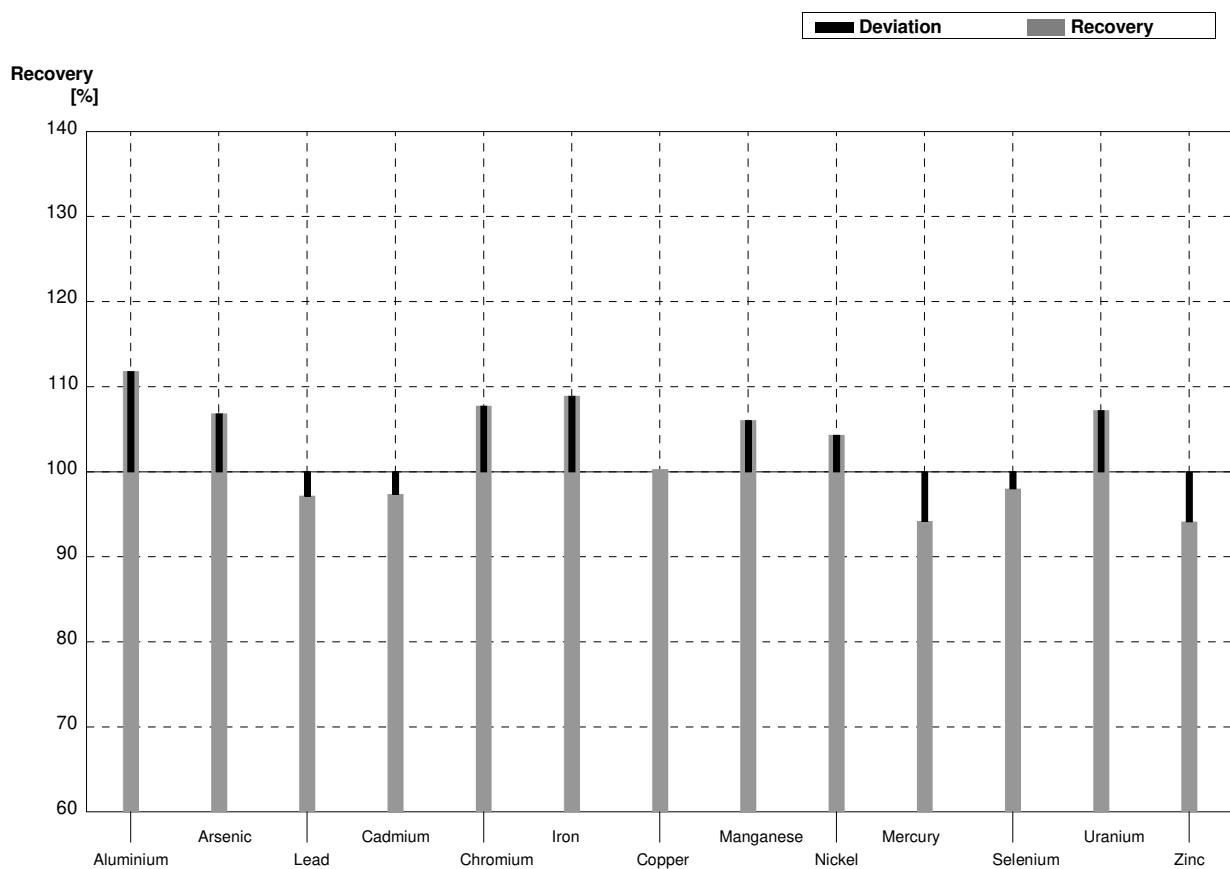
Sample M159B
Laboratory C

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,3	1,4	$\mu\text{g/l}$	101%
Arsenic	4,27	0,03	4,15	0,23	$\mu\text{g/l}$	97%
Lead	6,55	0,05	6,06	0,64	$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,11	0,09	$\mu\text{g/l}$	96%
Chromium	5,28	0,04	5,07	0,71	$\mu\text{g/l}$	96%
Iron	12,5	0,3	11,3	1,3	$\mu\text{g/l}$	90%
Copper	3,11	0,03	2,93	0,16	$\mu\text{g/l}$	94%
Manganese	40,2	0,3	38,5	2,1	$\mu\text{g/l}$	96%
Nickel	5,10	0,04	4,87	0,37	$\mu\text{g/l}$	95%
Mercury	1,72	0,03	1,54	0,24	$\mu\text{g/l}$	90%
Selenium	1,94	0,02	1,82	0,22	$\mu\text{g/l}$	94%
Uranium	4,93	0,04	4,38	0,46	$\mu\text{g/l}$	89%
Zinc	26,0	1,9	24,5	1,5	$\mu\text{g/l}$	94%



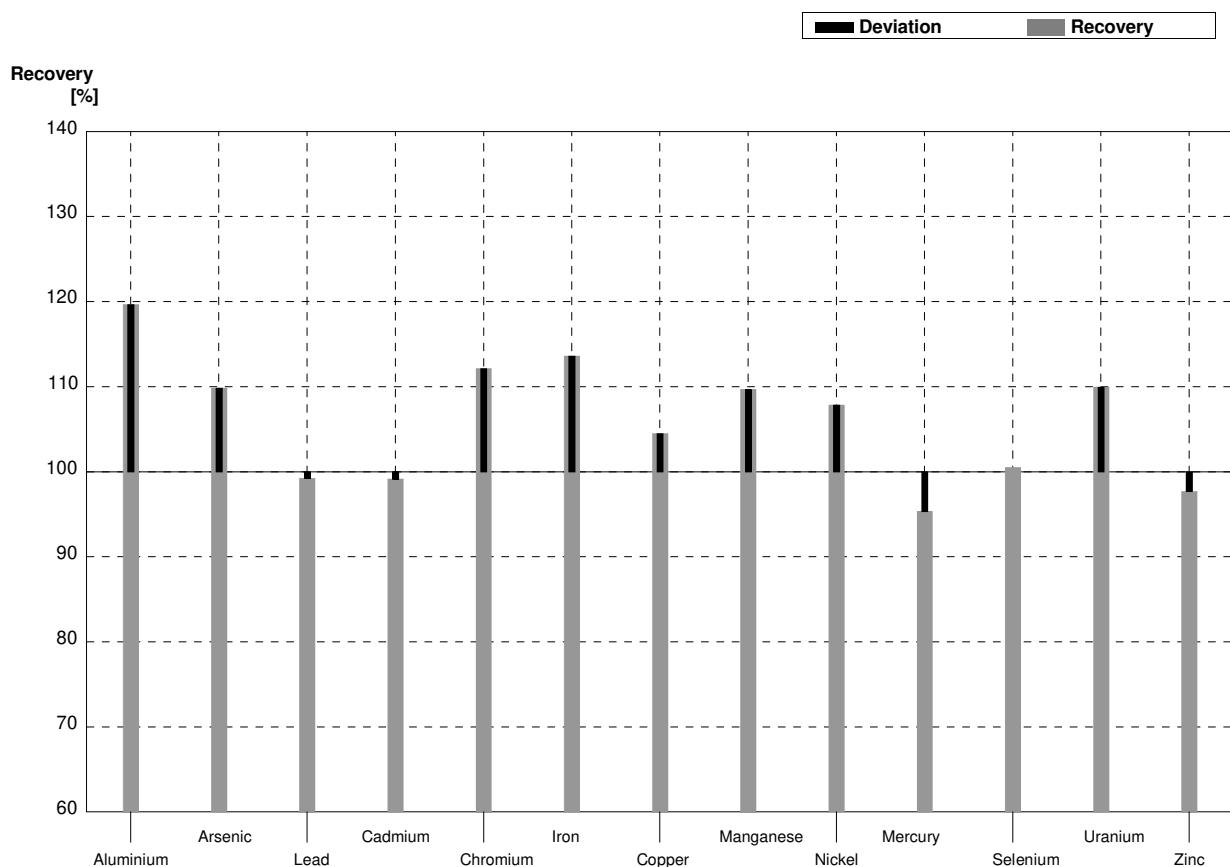
Sample M159A
Laboratory D

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	54,9	3,5	$\mu\text{g/l}$	112%
Arsenic	3,07	0,02	3,28	0,19	$\mu\text{g/l}$	107%
Lead	3,50	0,03	3,40	0,40	$\mu\text{g/l}$	97%
Cadmium	4,16	0,02	4,05	0,18	$\mu\text{g/l}$	97%
Chromium	1,29	0,01	1,39	0,15	$\mu\text{g/l}$	108%
Iron	45,0	0,3	49,0	1,5	$\mu\text{g/l}$	109%
Copper	6,61	0,04	6,63	0,64	$\mu\text{g/l}$	100%
Manganese	11,6	0,1	12,3	0,38	$\mu\text{g/l}$	106%
Nickel	3,71	0,03	3,87	0,31	$\mu\text{g/l}$	104%
Mercury	1,20	0,02	1,13	0,023	$\mu\text{g/l}$	94%
Selenium	0,398	0,015	0,390	0,013	$\mu\text{g/l}$	98%
Uranium	2,77	0,02	2,97	0,37	$\mu\text{g/l}$	107%
Zinc	15,3	1,9	14,4	2,3	$\mu\text{g/l}$	94%



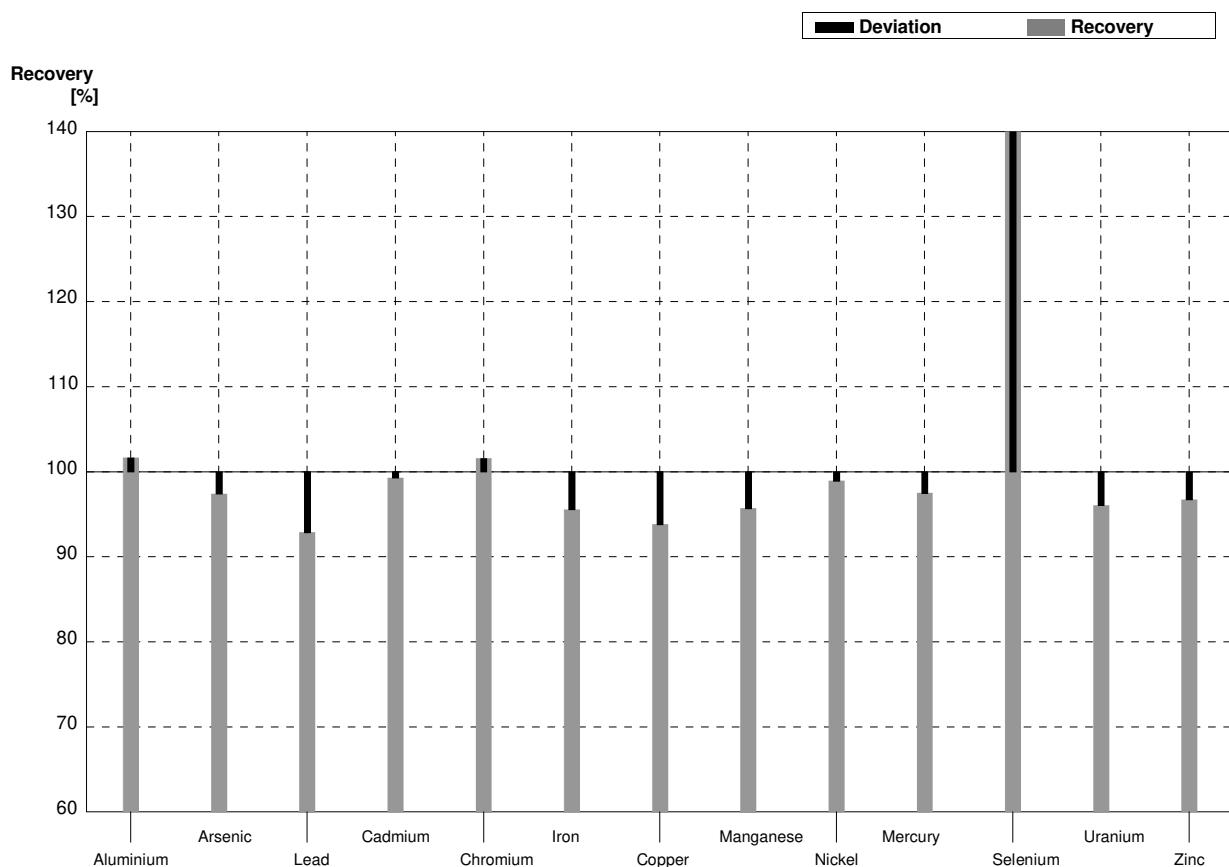
Sample M159B
Laboratory D

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	14,6	0,94	$\mu\text{g/l}$	120%
Arsenic	4,27	0,03	4,69	0,28	$\mu\text{g/l}$	110%
Lead	6,55	0,05	6,50	0,77	$\mu\text{g/l}$	99%
Cadmium	1,16	0,01	1,15	0,75	$\mu\text{g/l}$	99%
Chromium	5,28	0,04	5,92	0,04	$\mu\text{g/l}$	112%
Iron	12,5	0,3	14,2	0,43	$\mu\text{g/l}$	114%
Copper	3,11	0,03	3,25	0,31	$\mu\text{g/l}$	105%
Manganese	40,2	0,3	44,1	1,4	$\mu\text{g/l}$	110%
Nickel	5,10	0,04	5,50	0,45	$\mu\text{g/l}$	108%
Mercury	1,72	0,03	1,64	0,033	$\mu\text{g/l}$	95%
Selenium	1,94	0,02	1,95	0,066	$\mu\text{g/l}$	101%
Uranium	4,93	0,04	5,42	0,67	$\mu\text{g/l}$	110%
Zinc	26,0	1,9	25,4	4,0	$\mu\text{g/l}$	98%



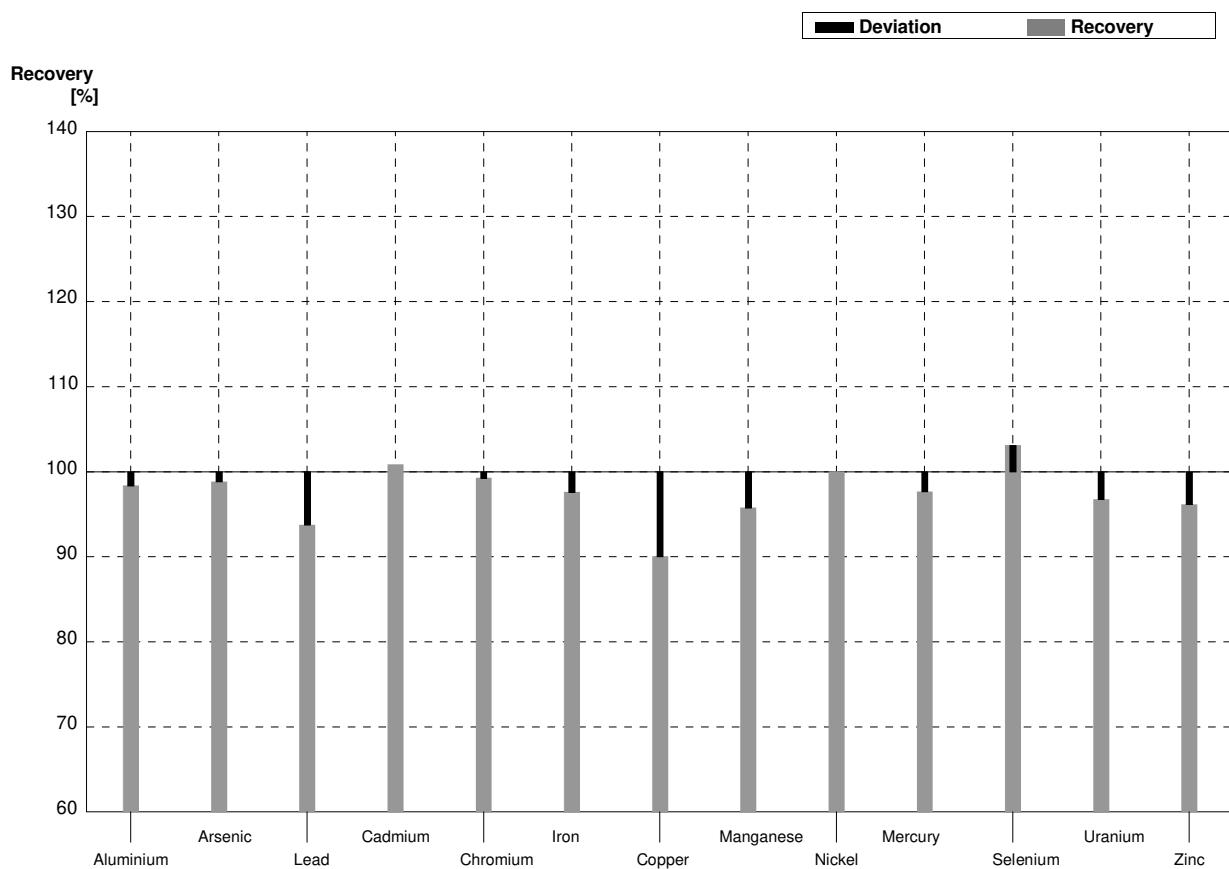
Sample M159A
Laboratory E

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	49,9	10	$\mu\text{g/l}$	102%
Arsenic	3,07	0,02	2,99	0,60	$\mu\text{g/l}$	97%
Lead	3,50	0,03	3,25	0,65	$\mu\text{g/l}$	93%
Cadmium	4,16	0,02	4,13	0,85	$\mu\text{g/l}$	99%
Chromium	1,29	0,01	1,31	0,30	$\mu\text{g/l}$	102%
Iron	45,0	0,3	43,0	8,6	$\mu\text{g/l}$	96%
Copper	6,61	0,04	6,20	1,5	$\mu\text{g/l}$	94%
Manganese	11,6	0,1	11,1	2,5	$\mu\text{g/l}$	96%
Nickel	3,71	0,03	3,67	0,80	$\mu\text{g/l}$	99%
Mercury	1,20	0,02	1,17	0,25	$\mu\text{g/l}$	98%
Selenium	0,398	0,015	1,10	0,25	$\mu\text{g/l}$	276%
Uranium	2,77	0,02	2,66	0,60	$\mu\text{g/l}$	96%
Zinc	15,3	1,9	14,8	3,0	$\mu\text{g/l}$	97%



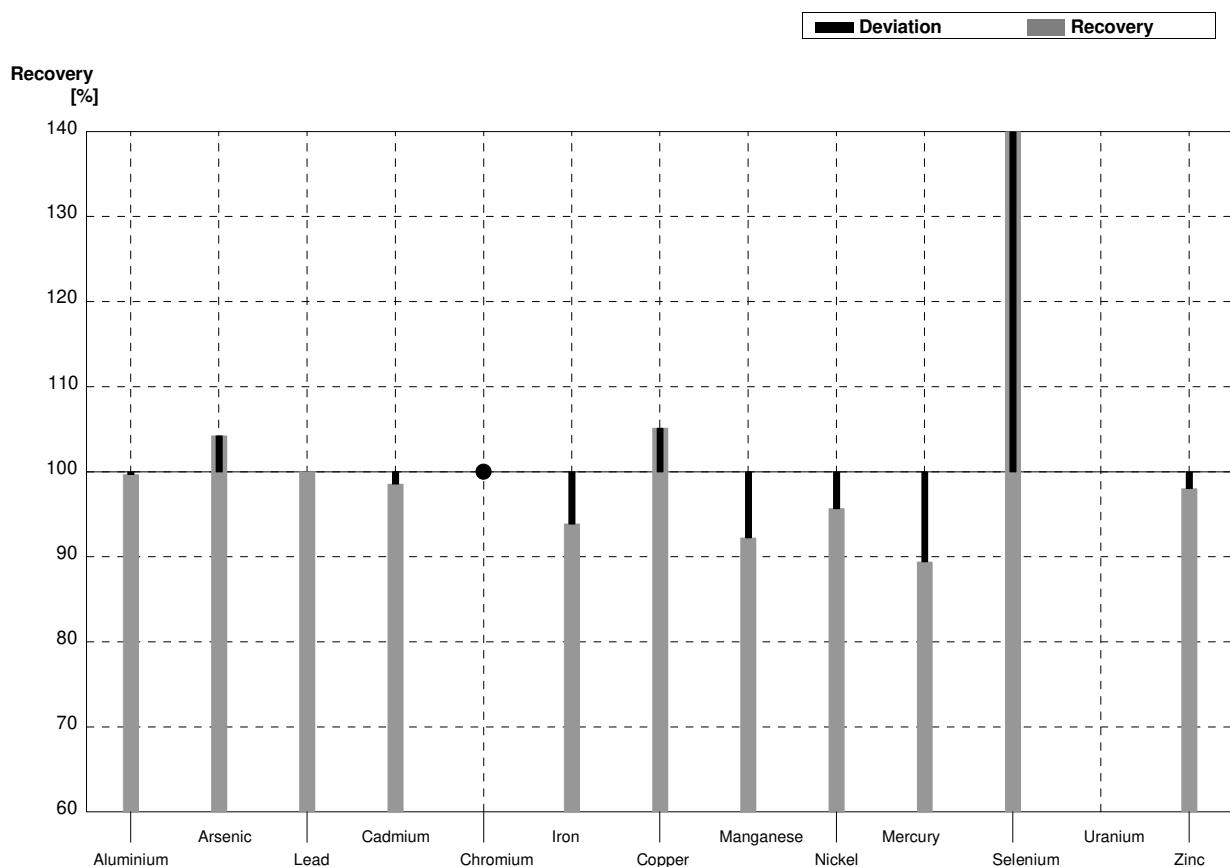
Sample M159B
Laboratory E

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,0	2,5	$\mu\text{g/l}$	98%
Arsenic	4,27	0,03	4,22	0,85	$\mu\text{g/l}$	99%
Lead	6,55	0,05	6,14	0,35	$\mu\text{g/l}$	94%
Cadmium	1,16	0,01	1,17	0,25	$\mu\text{g/l}$	101%
Chromium	5,28	0,04	5,24	1,5	$\mu\text{g/l}$	99%
Iron	12,5	0,3	12,2	2,5	$\mu\text{g/l}$	98%
Copper	3,11	0,03	2,80	0,60	$\mu\text{g/l}$	90%
Manganese	40,2	0,3	38,5	8,0	$\mu\text{g/l}$	96%
Nickel	5,10	0,04	5,10	1,5	$\mu\text{g/l}$	100%
Mercury	1,72	0,03	1,68	0,25	$\mu\text{g/l}$	98%
Selenium	1,94	0,02	2,00	0,40	$\mu\text{g/l}$	103%
Uranium	4,93	0,04	4,77	1,0	$\mu\text{g/l}$	97%
Zinc	26,0	1,9	25,0	5,0	$\mu\text{g/l}$	96%



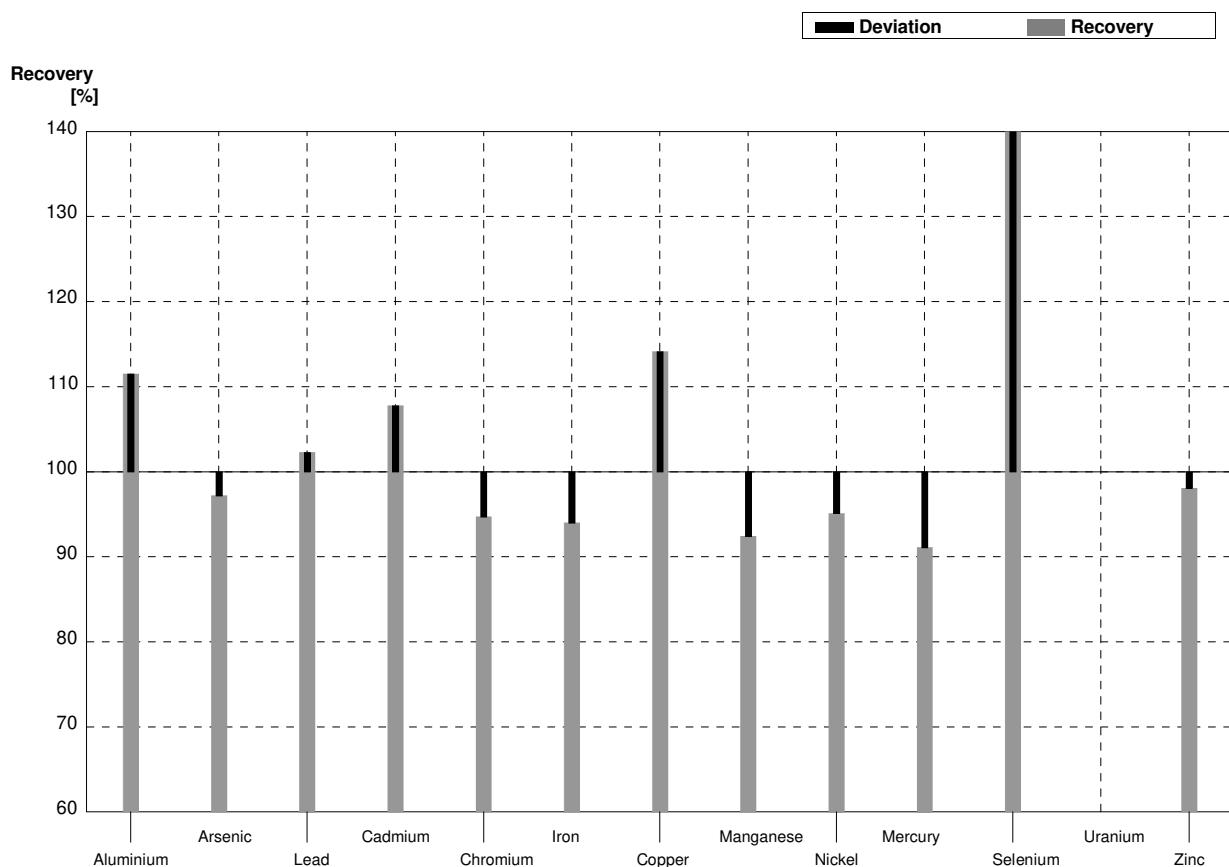
Sample M159A
Laboratory F

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,95		$\mu\text{g/l}$	100%
Arsenic	3,07	0,02	3,20		$\mu\text{g/l}$	104%
Lead	3,50	0,03	3,50		$\mu\text{g/l}$	100%
Cadmium	4,16	0,02	4,10		$\mu\text{g/l}$	99%
Chromium	1,29	0,01	<5		$\mu\text{g/l}$	•
Iron	45,0	0,3	42,25		$\mu\text{g/l}$	94%
Copper	6,61	0,04	6,95		$\mu\text{g/l}$	105%
Manganese	11,6	0,1	10,70		$\mu\text{g/l}$	92%
Nickel	3,71	0,03	3,55		$\mu\text{g/l}$	96%
Mercury	1,20	0,02	1,073		$\mu\text{g/l}$	89%
Selenium	0,398	0,015	1,20		$\mu\text{g/l}$	302%
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	15,00		$\mu\text{g/l}$	98%



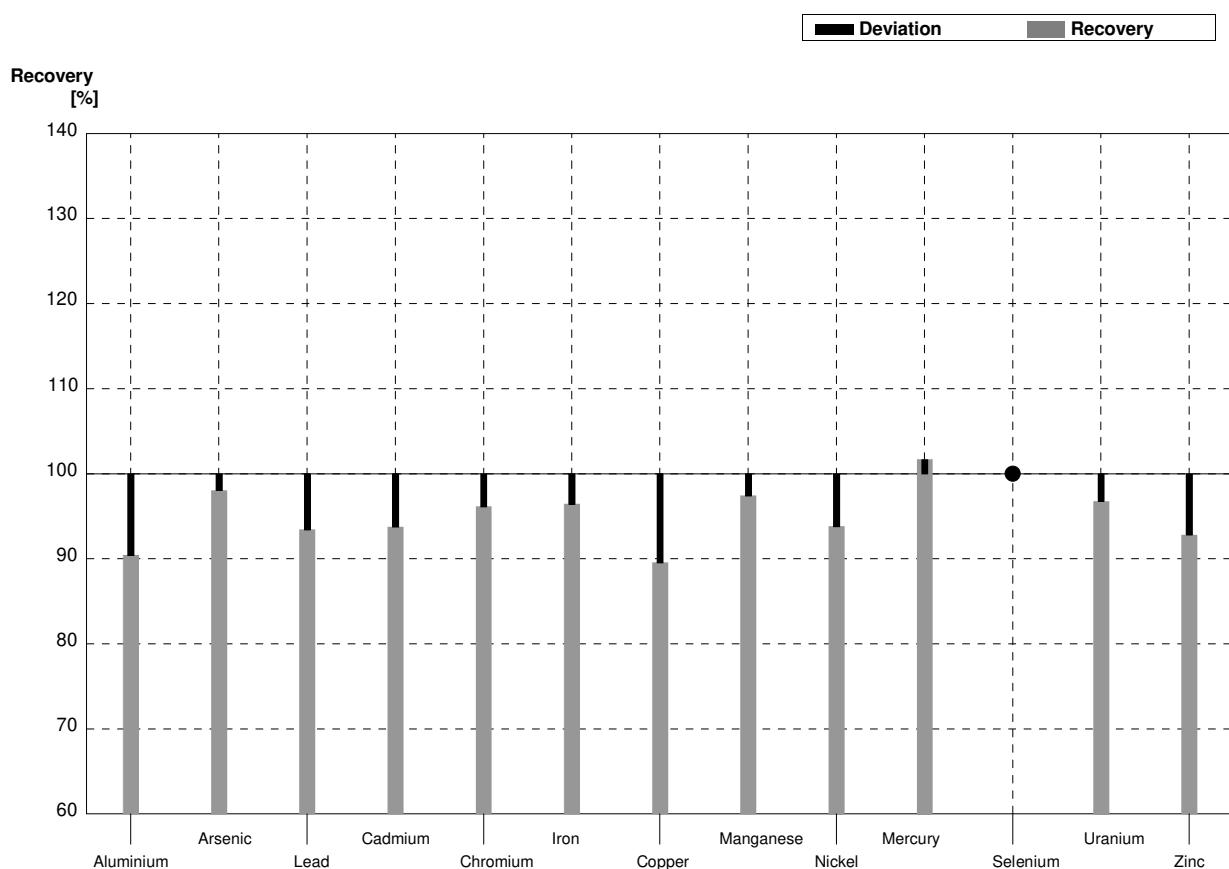
Sample M159B
Laboratory F

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	13,6		$\mu\text{g/l}$	111%
Arsenic	4,27	0,03	4,15		$\mu\text{g/l}$	97%
Lead	6,55	0,05	6,70		$\mu\text{g/l}$	102%
Cadmium	1,16	0,01	1,25		$\mu\text{g/l}$	108%
Chromium	5,28	0,04	5,00		$\mu\text{g/l}$	95%
Iron	12,5	0,3	11,75		$\mu\text{g/l}$	94%
Copper	3,11	0,03	3,55		$\mu\text{g/l}$	114%
Manganese	40,2	0,3	37,15		$\mu\text{g/l}$	92%
Nickel	5,10	0,04	4,85		$\mu\text{g/l}$	95%
Mercury	1,72	0,03	1,567		$\mu\text{g/l}$	91%
Selenium	1,94	0,02	3,05		$\mu\text{g/l}$	157%
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	25,5		$\mu\text{g/l}$	98%



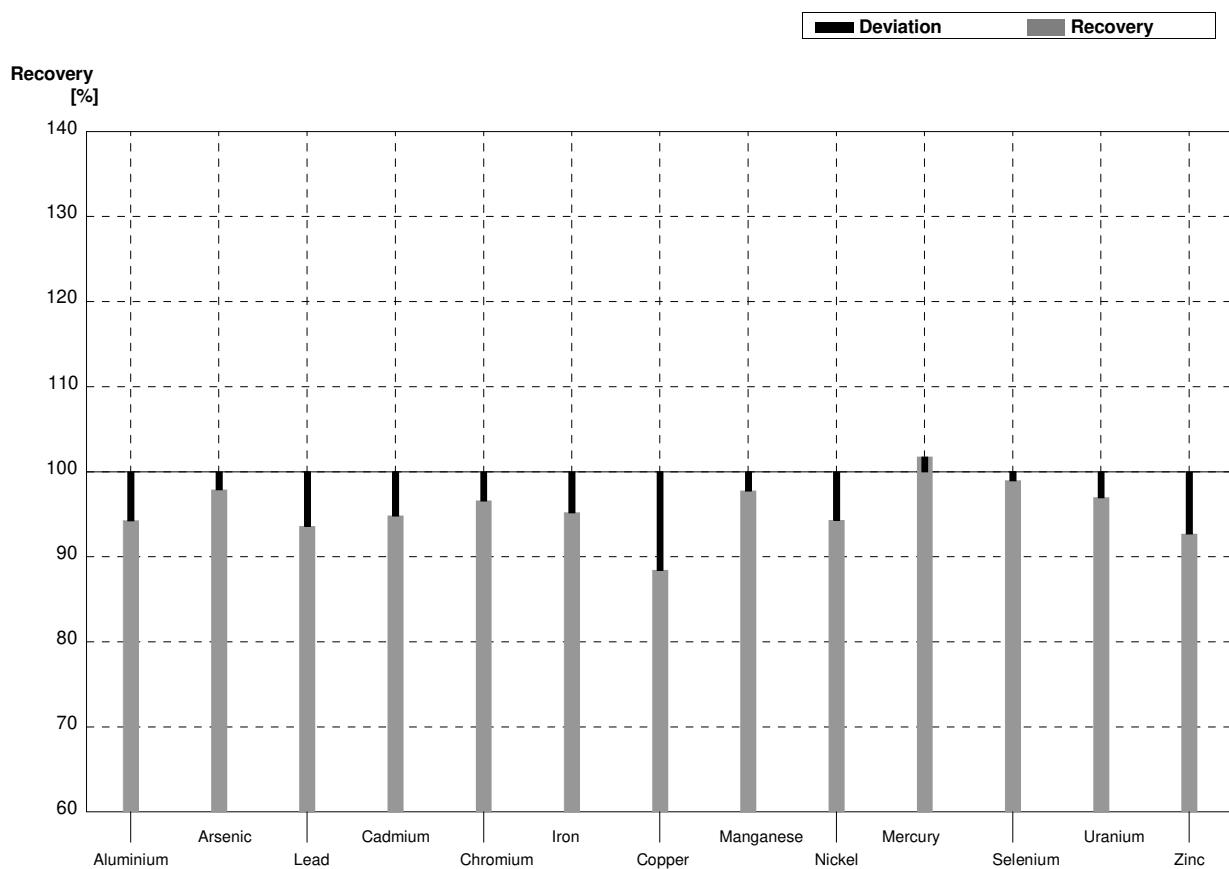
Sample M159A
Laboratory G

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	44,4	4	$\mu\text{g/l}$	90%
Arsenic	3,07	0,02	3,01	0,5	$\mu\text{g/l}$	98%
Lead	3,50	0,03	3,27	0,5	$\mu\text{g/l}$	93%
Cadmium	4,16	0,02	3,90	0,5	$\mu\text{g/l}$	94%
Chromium	1,29	0,01	1,24	0,3	$\mu\text{g/l}$	96%
Iron	45,0	0,3	43,4	4	$\mu\text{g/l}$	96%
Copper	6,61	0,04	5,92	1	$\mu\text{g/l}$	90%
Manganese	11,6	0,1	11,3	1,5	$\mu\text{g/l}$	97%
Nickel	3,71	0,03	3,48	0,5	$\mu\text{g/l}$	94%
Mercury	1,20	0,02	1,22	0,2	$\mu\text{g/l}$	102%
Selenium	0,398	0,015	<1,0		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,68	0,5	$\mu\text{g/l}$	97%
Zinc	15,3	1,9	14,2	2	$\mu\text{g/l}$	93%



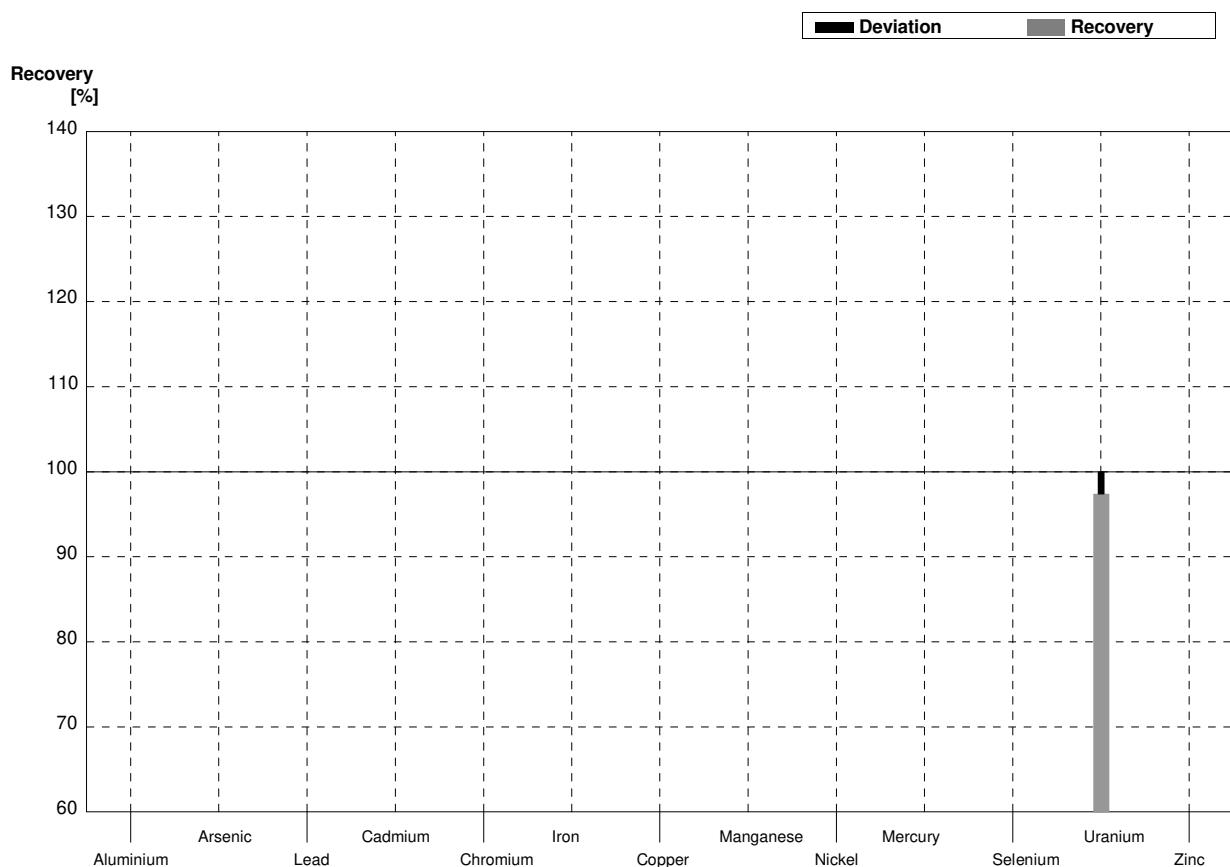
Sample M159B
Laboratory G

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,5	1	$\mu\text{g/l}$	94%
Arsenic	4,27	0,03	4,18	0,5	$\mu\text{g/l}$	98%
Lead	6,55	0,05	6,13	1	$\mu\text{g/l}$	94%
Cadmium	1,16	0,01	1,10	0,2	$\mu\text{g/l}$	95%
Chromium	5,28	0,04	5,10	1	$\mu\text{g/l}$	97%
Iron	12,5	0,3	11,9	2	$\mu\text{g/l}$	95%
Copper	3,11	0,03	2,75	0,5	$\mu\text{g/l}$	88%
Manganese	40,2	0,3	39,3	5	$\mu\text{g/l}$	98%
Nickel	5,10	0,04	4,81	1	$\mu\text{g/l}$	94%
Mercury	1,72	0,03	1,75	0,3	$\mu\text{g/l}$	102%
Selenium	1,94	0,02	1,92	0,3	$\mu\text{g/l}$	99%
Uranium	4,93	0,04	4,78	1	$\mu\text{g/l}$	97%
Zinc	26,0	1,9	24,1	5	$\mu\text{g/l}$	93%



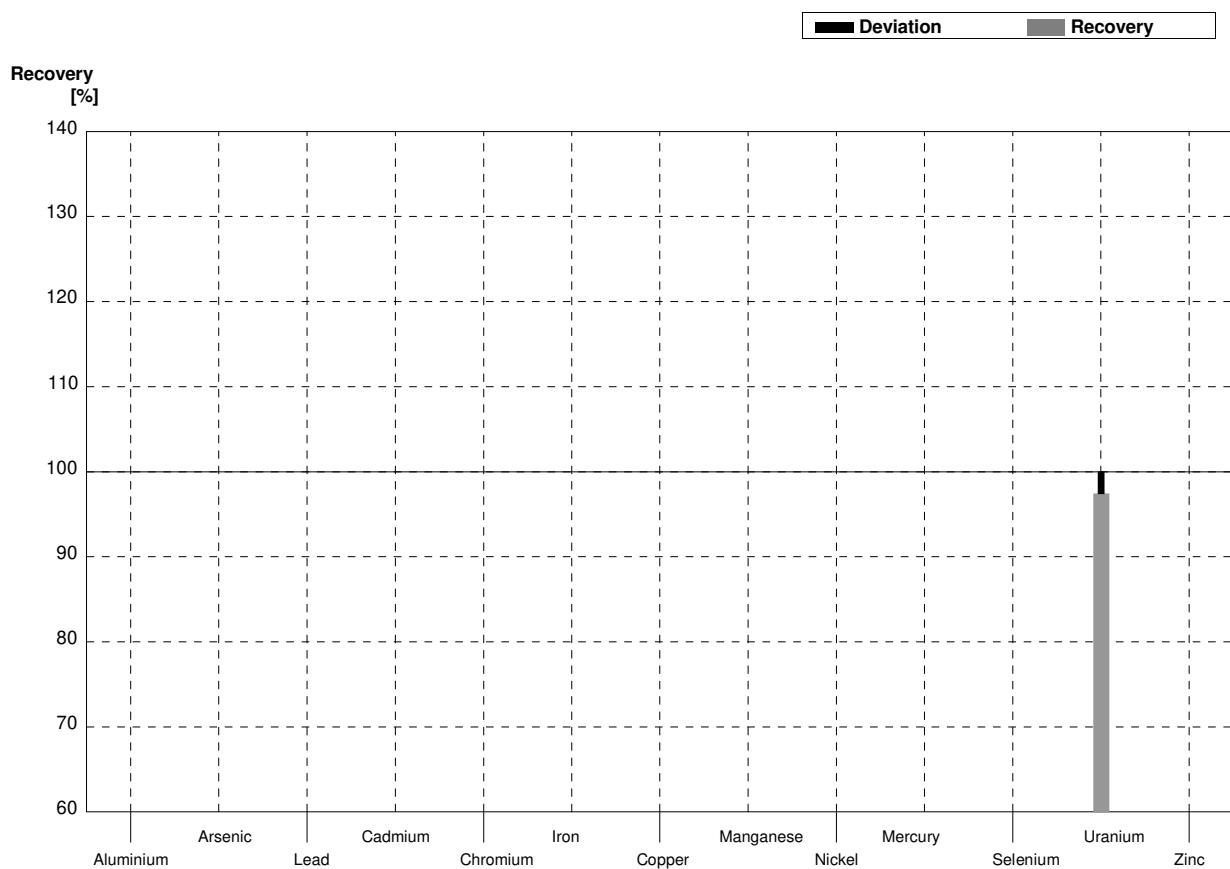
Sample M159A
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	49,1	0,3			µg/l	
Arsenic	3,07	0,02			µg/l	
Lead	3,50	0,03			µg/l	
Cadmium	4,16	0,02			µg/l	
Chromium	1,29	0,01			µg/l	
Iron	45,0	0,3			µg/l	
Copper	6,61	0,04			µg/l	
Manganese	11,6	0,1			µg/l	
Nickel	3,71	0,03			µg/l	
Mercury	1,20	0,02			µg/l	
Selenium	0,398	0,015			µg/l	
Uranium	2,77	0,02	2,698	0,432	µg/l	97%
Zinc	15,3	1,9			µg/l	



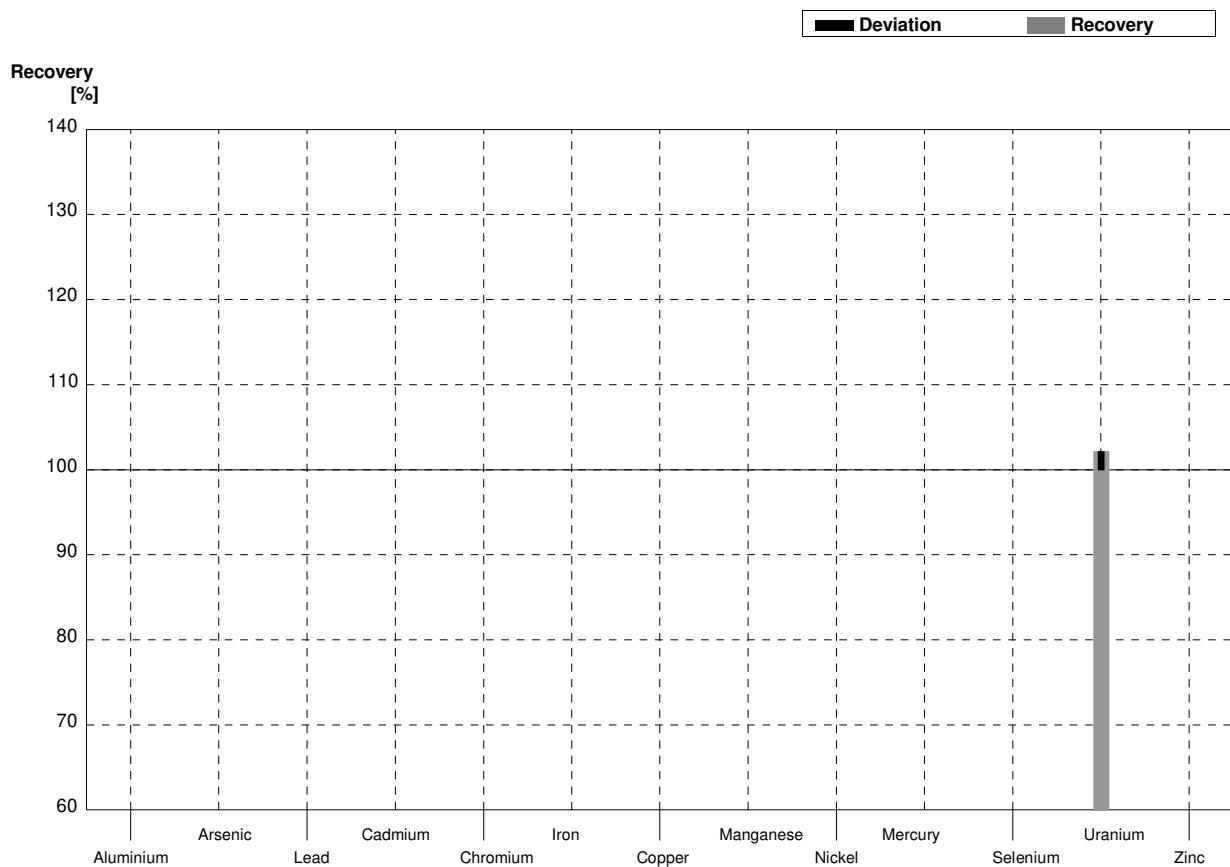
Sample M159B
Laboratory H

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04	4,803	0,768	$\mu\text{g/l}$	97%
Zinc	26,0	1,9			$\mu\text{g/l}$	



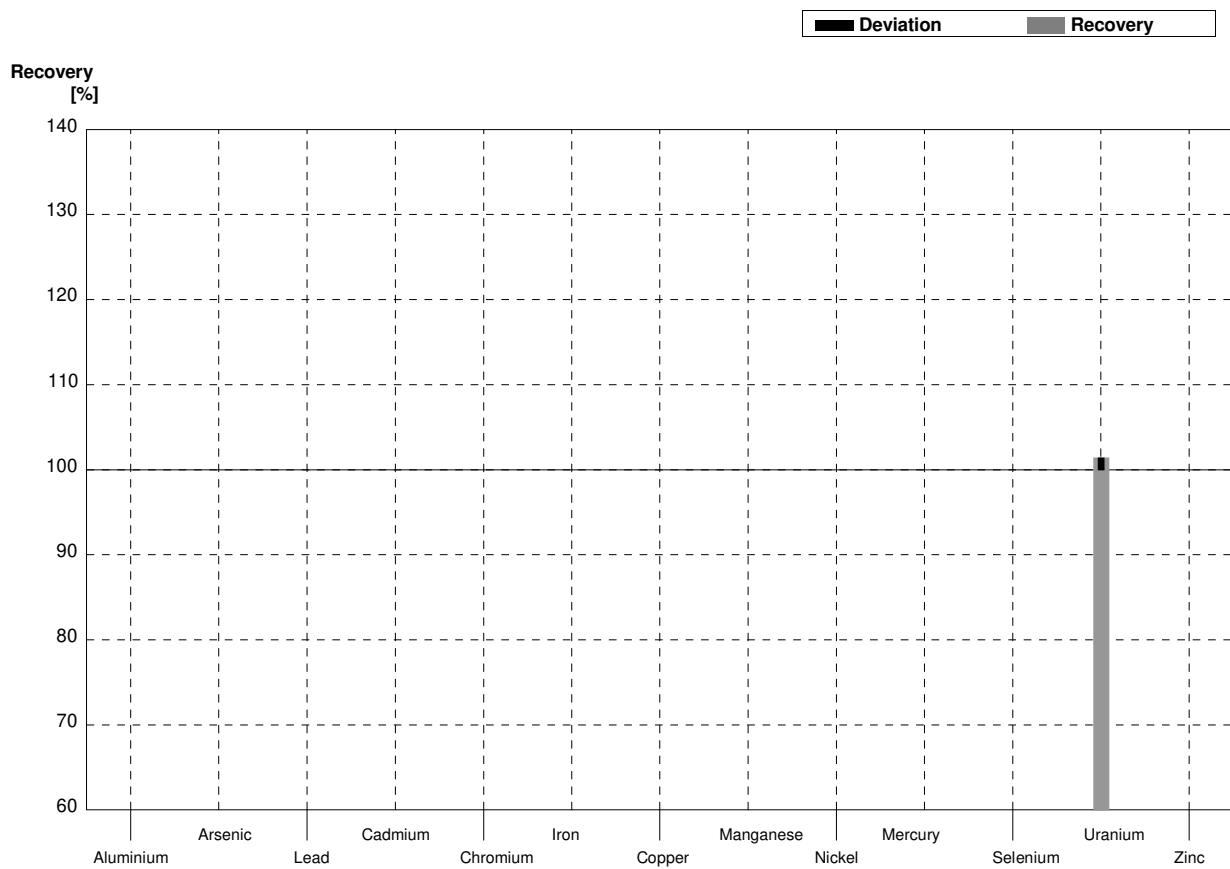
Sample M159A
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	49,1	0,3			µg/l	
Arsenic	3,07	0,02			µg/l	
Lead	3,50	0,03			µg/l	
Cadmium	4,16	0,02			µg/l	
Chromium	1,29	0,01			µg/l	
Iron	45,0	0,3			µg/l	
Copper	6,61	0,04			µg/l	
Manganese	11,6	0,1			µg/l	
Nickel	3,71	0,03			µg/l	
Mercury	1,20	0,02			µg/l	
Selenium	0,398	0,015			µg/l	
Uranium	2,77	0,02	2,83		µg/l	102%
Zinc	15,3	1,9			µg/l	



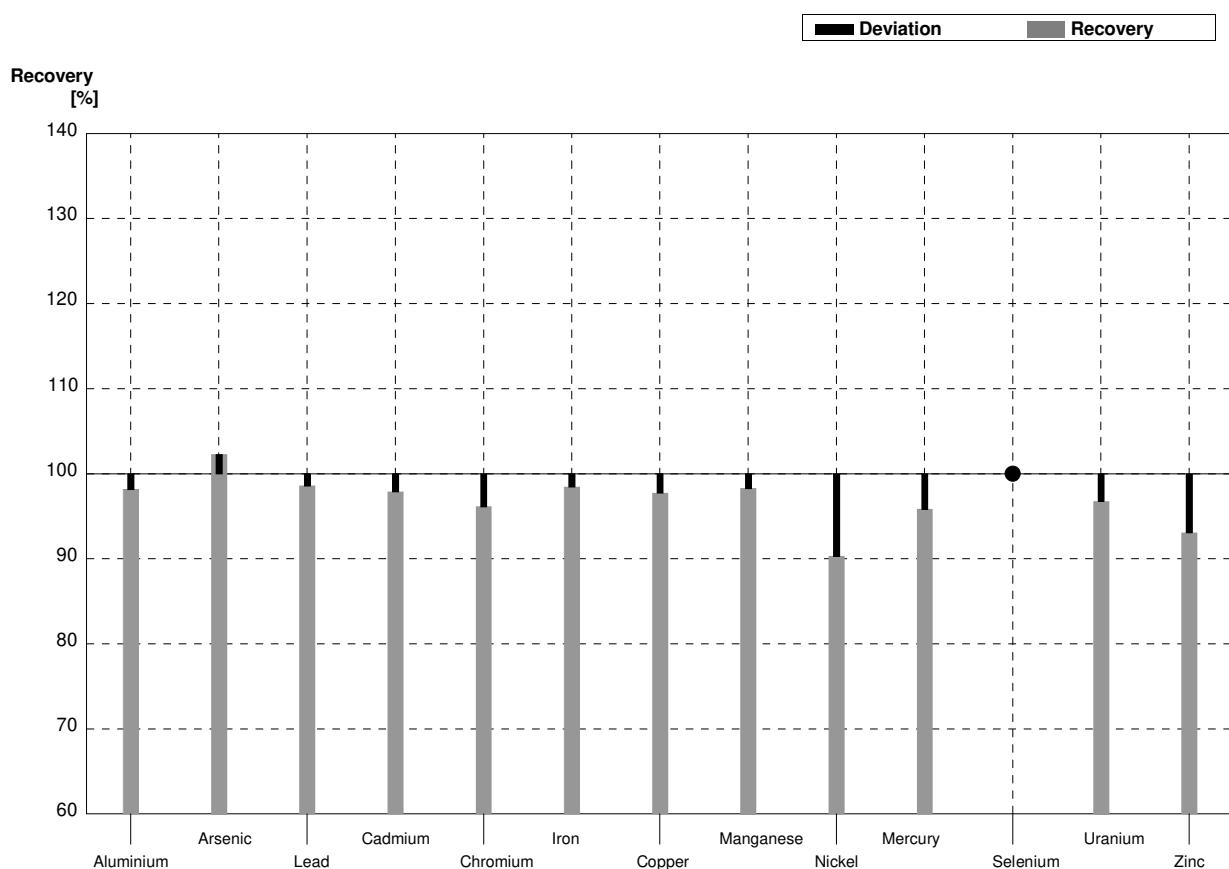
Sample M159B
Laboratory I

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04	5,0		$\mu\text{g/l}$	101%
Zinc	26,0	1,9			$\mu\text{g/l}$	



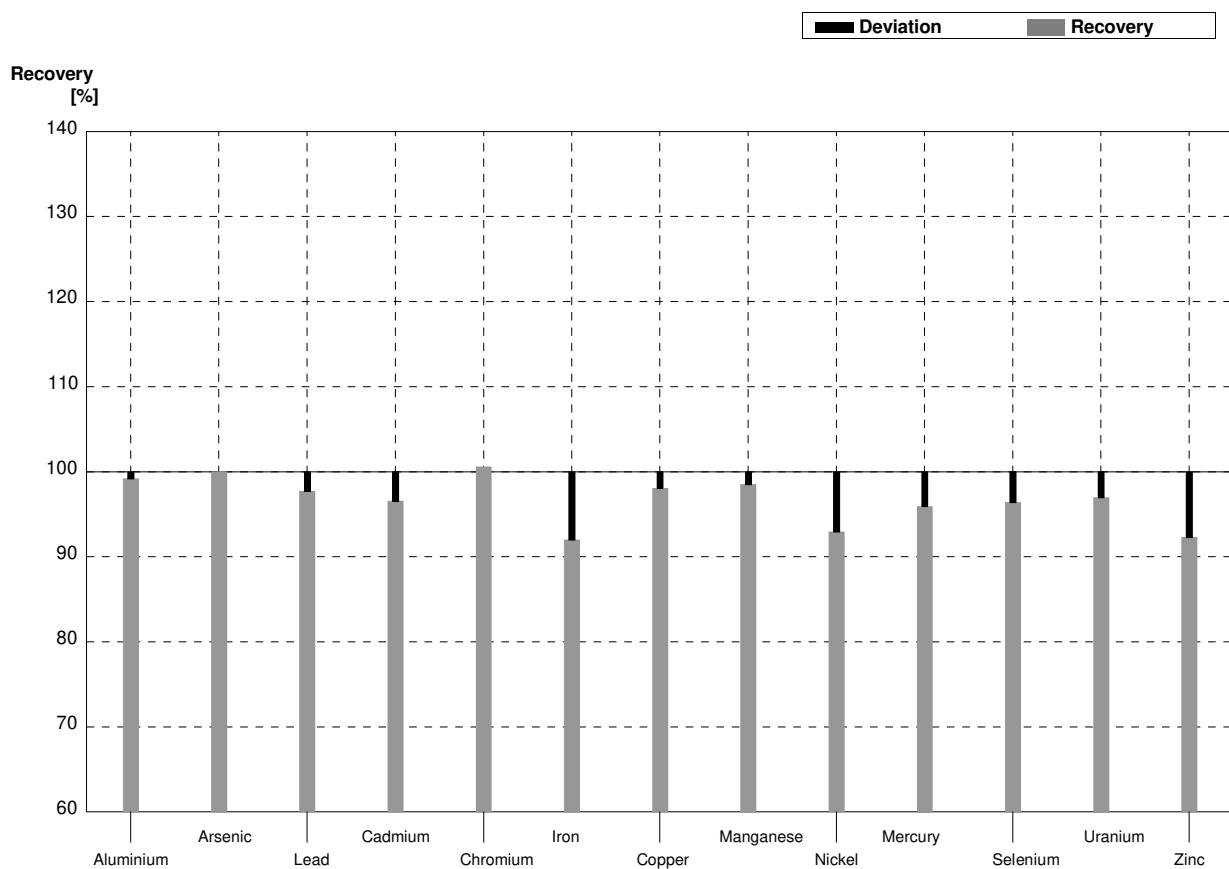
Sample M159A
Laboratory J

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,2	9,6	$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,14	0,6	$\mu\text{g/l}$	102%
Lead	3,50	0,03	3,45	0,7	$\mu\text{g/l}$	99%
Cadmium	4,16	0,02	4,072	0,8	$\mu\text{g/l}$	98%
Chromium	1,29	0,01	1,24	0,3	$\mu\text{g/l}$	96%
Iron	45,0	0,3	44,3	8,9	$\mu\text{g/l}$	98%
Copper	6,61	0,04	6,46	1,3	$\mu\text{g/l}$	98%
Manganese	11,6	0,1	11,4	2,3	$\mu\text{g/l}$	98%
Nickel	3,71	0,03	3,35	0,7	$\mu\text{g/l}$	90%
Mercury	1,20	0,02	1,15	0,2	$\mu\text{g/l}$	96%
Selenium	0,398	0,015	<1		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,68	0,5	$\mu\text{g/l}$	97%
Zinc	15,3	1,9	14,24	2,9	$\mu\text{g/l}$	93%



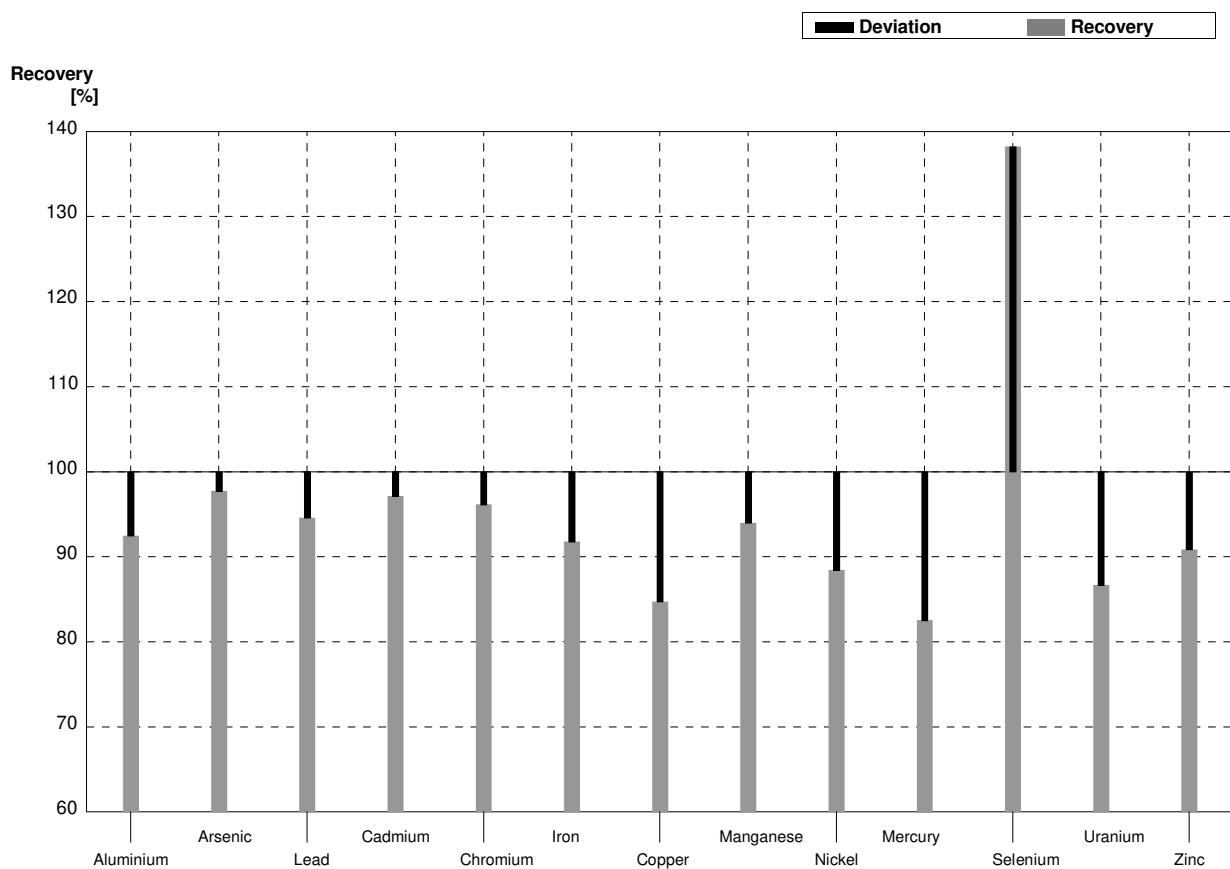
Sample M159B
Laboratory J

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,1	2,4	$\mu\text{g/l}$	99%
Arsenic	4,27	0,03	4,27	0,8	$\mu\text{g/l}$	100%
Lead	6,55	0,05	6,40	1,3	$\mu\text{g/l}$	98%
Cadmium	1,16	0,01	1,12	0,2	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	5,31	1,1	$\mu\text{g/l}$	101%
Iron	12,5	0,3	11,5	2,3	$\mu\text{g/l}$	92%
Copper	3,11	0,03	3,05	0,6	$\mu\text{g/l}$	98%
Manganese	40,2	0,3	39,6	7,9	$\mu\text{g/l}$	99%
Nickel	5,10	0,04	4,74	0,9	$\mu\text{g/l}$	93%
Mercury	1,72	0,03	1,65	0,3	$\mu\text{g/l}$	96%
Selenium	1,94	0,02	1,87	0,4	$\mu\text{g/l}$	96%
Uranium	4,93	0,04	4,78	1,0	$\mu\text{g/l}$	97%
Zinc	26,0	1,9	24,0	0,5	$\mu\text{g/l}$	92%



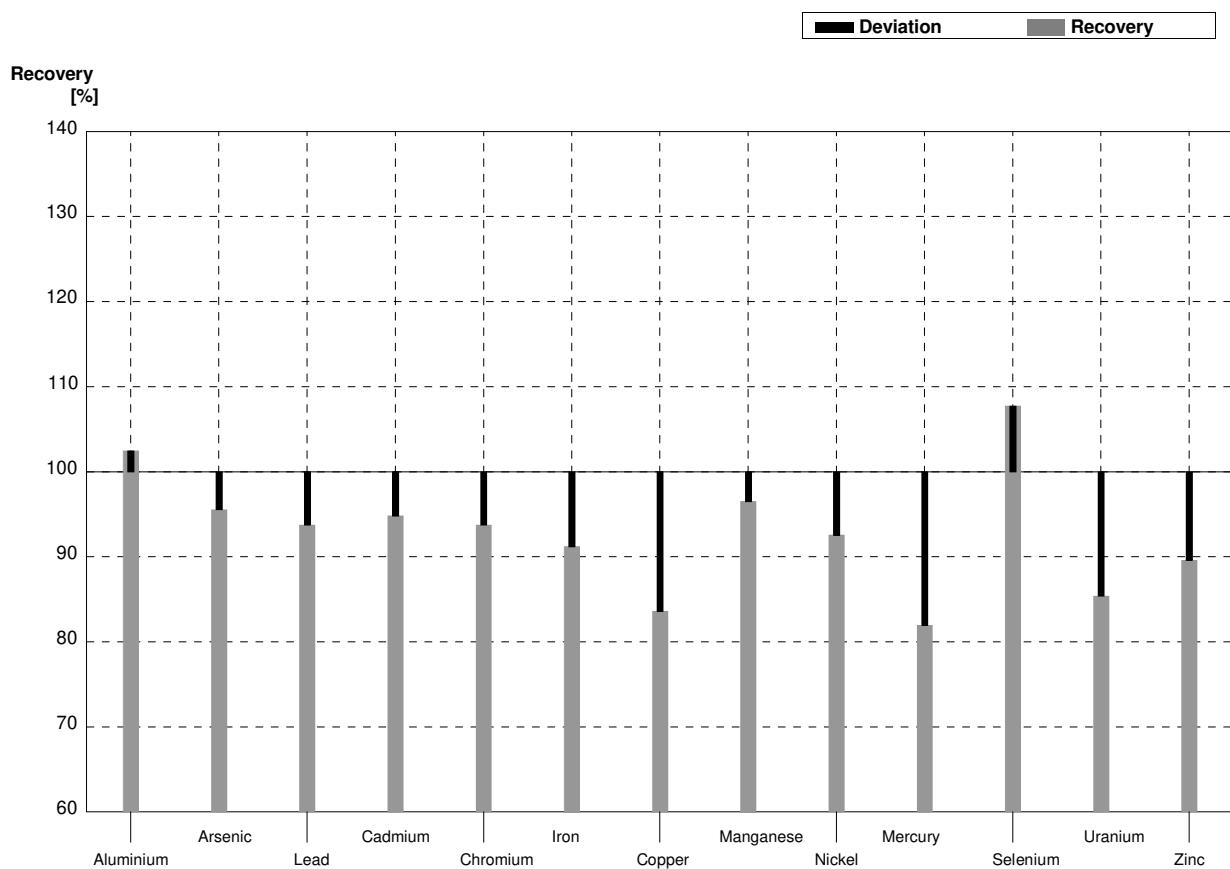
Sample M159A
Laboratory K

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	45,4	1,75	$\mu\text{g/l}$	92%
Arsenic	3,07	0,02	3,00	0,09	$\mu\text{g/l}$	98%
Lead	3,50	0,03	3,31	0,06	$\mu\text{g/l}$	95%
Cadmium	4,16	0,02	4,04	0,11	$\mu\text{g/l}$	97%
Chromium	1,29	0,01	1,24	0,09	$\mu\text{g/l}$	96%
Iron	45,0	0,3	41,3	2,1	$\mu\text{g/l}$	92%
Copper	6,61	0,04	5,60	0,48	$\mu\text{g/l}$	85%
Manganese	11,6	0,1	10,9	0,3	$\mu\text{g/l}$	94%
Nickel	3,71	0,03	3,28	0,21	$\mu\text{g/l}$	88%
Mercury	1,20	0,02	0,990	0,150	$\mu\text{g/l}$	83%
Selenium	0,398	0,015	0,550	0,060	$\mu\text{g/l}$	138%
Uranium	2,77	0,02	2,40	0,15	$\mu\text{g/l}$	87%
Zinc	15,3	1,9	13,9	0,8	$\mu\text{g/l}$	91%



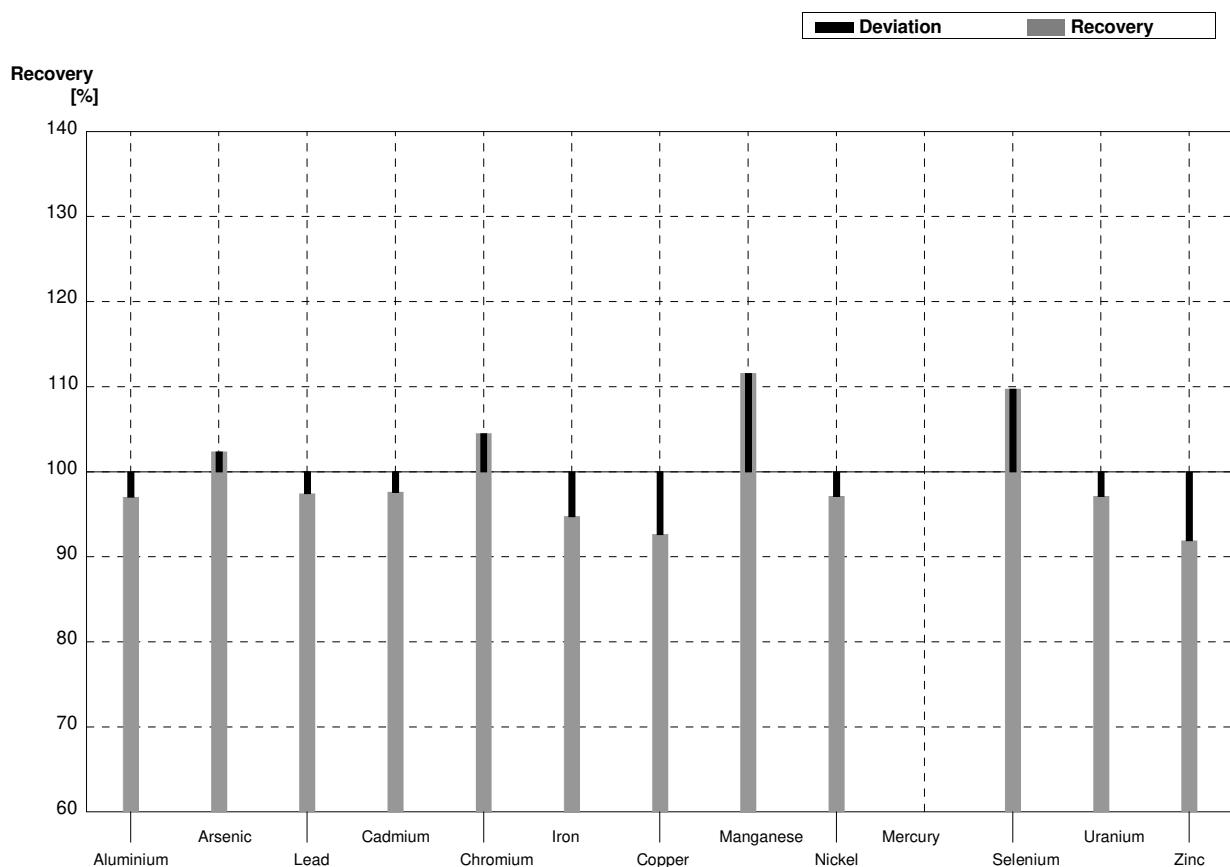
Sample M159B
Laboratory K

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,5	1,16	$\mu\text{g/l}$	102%
Arsenic	4,27	0,03	4,08	0,10	$\mu\text{g/l}$	96%
Lead	6,55	0,05	6,14	0,18	$\mu\text{g/l}$	94%
Cadmium	1,16	0,01	1,10	0	$\mu\text{g/l}$	95%
Chromium	5,28	0,04	4,95	0,10	$\mu\text{g/l}$	94%
Iron	12,5	0,3	11,4	0,7	$\mu\text{g/l}$	91%
Copper	3,11	0,03	2,60	0,32	$\mu\text{g/l}$	84%
Manganese	40,2	0,3	38,8	1,8	$\mu\text{g/l}$	97%
Nickel	5,10	0,04	4,72	0,26	$\mu\text{g/l}$	93%
Mercury	1,72	0,03	1,41	0,22	$\mu\text{g/l}$	82%
Selenium	1,94	0,02	2,09	0,18	$\mu\text{g/l}$	108%
Uranium	4,93	0,04	4,21	0,38	$\mu\text{g/l}$	85%
Zinc	26,0	1,9	23,3	1,5	$\mu\text{g/l}$	90%



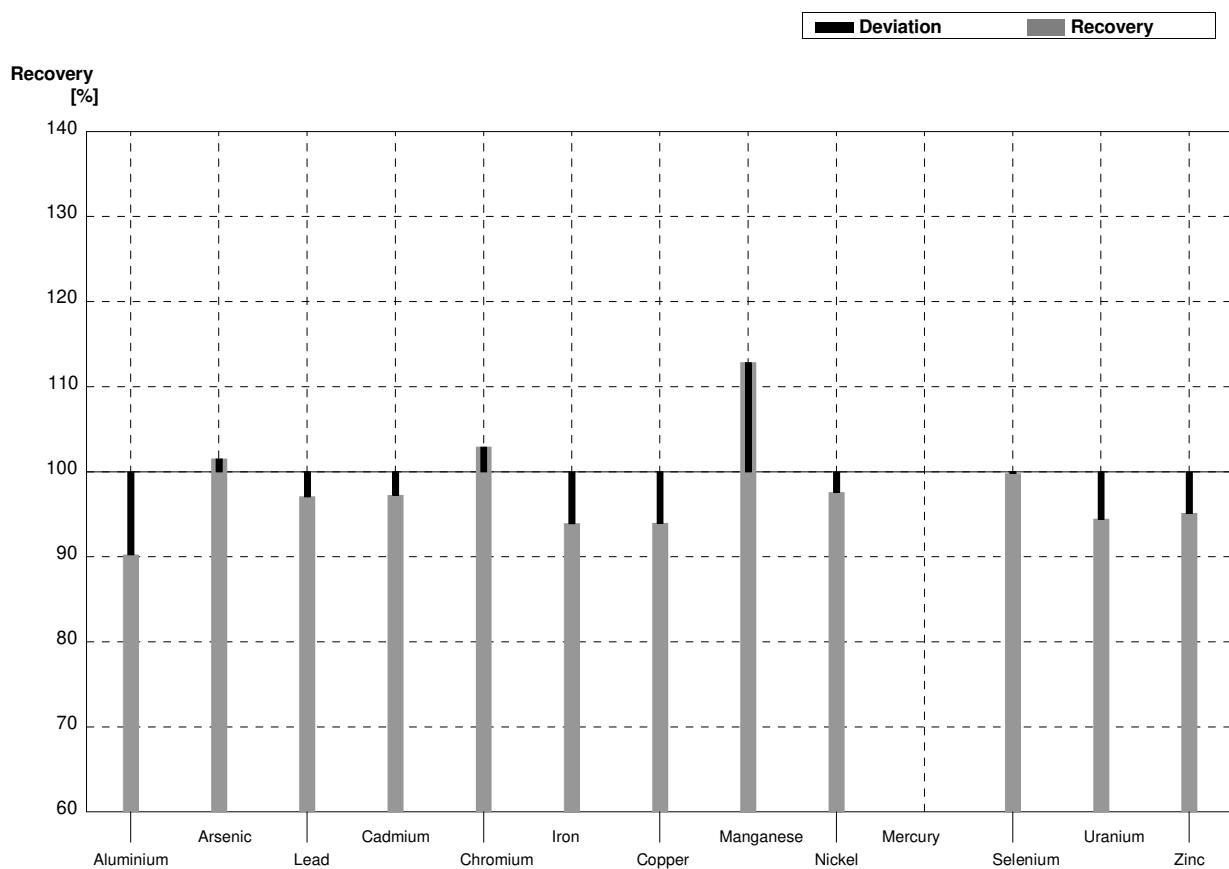
Sample M159A
Laboratory L

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	47,64	4	$\mu\text{g/l}$	97%
Arsenic	3,07	0,02	3,142	0,3	$\mu\text{g/l}$	102%
Lead	3,50	0,03	3,410	0,3	$\mu\text{g/l}$	97%
Cadmium	4,16	0,02	4,060	0,4	$\mu\text{g/l}$	98%
Chromium	1,29	0,01	1,348	0,1	$\mu\text{g/l}$	104%
Iron	45,0	0,3	42,64	4	$\mu\text{g/l}$	95%
Copper	6,61	0,04	6,123	0,6	$\mu\text{g/l}$	93%
Manganese	11,6	0,1	12,94	1	$\mu\text{g/l}$	112%
Nickel	3,71	0,03	3,603	0,4	$\mu\text{g/l}$	97%
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015	0,4367	0,1	$\mu\text{g/l}$	110%
Uranium	2,77	0,02	2,690	0,3	$\mu\text{g/l}$	97%
Zinc	15,3	1,9	14,06	1	$\mu\text{g/l}$	92%



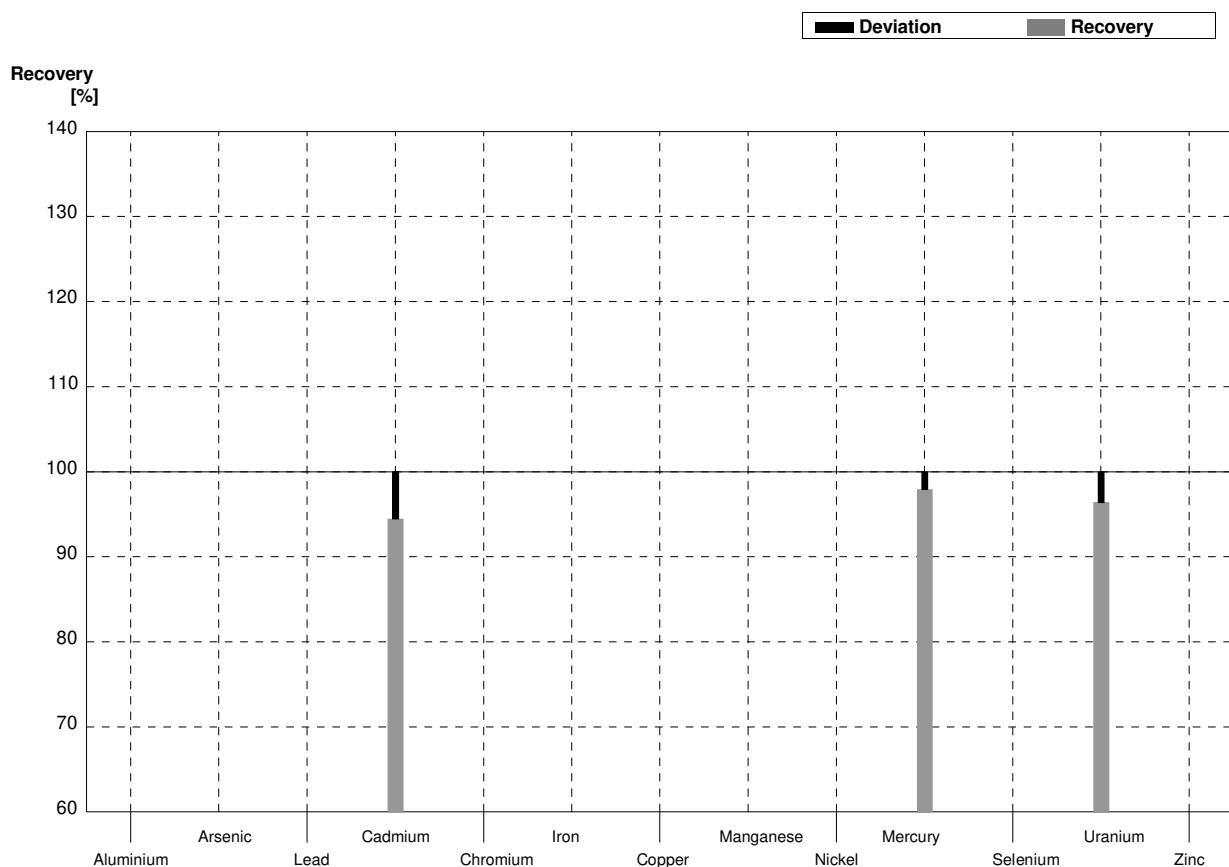
Sample M159B
Laboratory L

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,01	1	$\mu\text{g/l}$	90%
Arsenic	4,27	0,03	4,336	0,4	$\mu\text{g/l}$	102%
Lead	6,55	0,05	6,359	0,6	$\mu\text{g/l}$	97%
Cadmium	1,16	0,01	1,128	0,1	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	5,435	0,5	$\mu\text{g/l}$	103%
Iron	12,5	0,3	11,74	1	$\mu\text{g/l}$	94%
Copper	3,11	0,03	2,922	0,3	$\mu\text{g/l}$	94%
Manganese	40,2	0,3	45,37	5	$\mu\text{g/l}$	113%
Nickel	5,10	0,04	4,977	0,5	$\mu\text{g/l}$	98%
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02	1,936	0,2	$\mu\text{g/l}$	100%
Uranium	4,93	0,04	4,656	0,5	$\mu\text{g/l}$	94%
Zinc	26,0	1,9	24,73	2	$\mu\text{g/l}$	95%



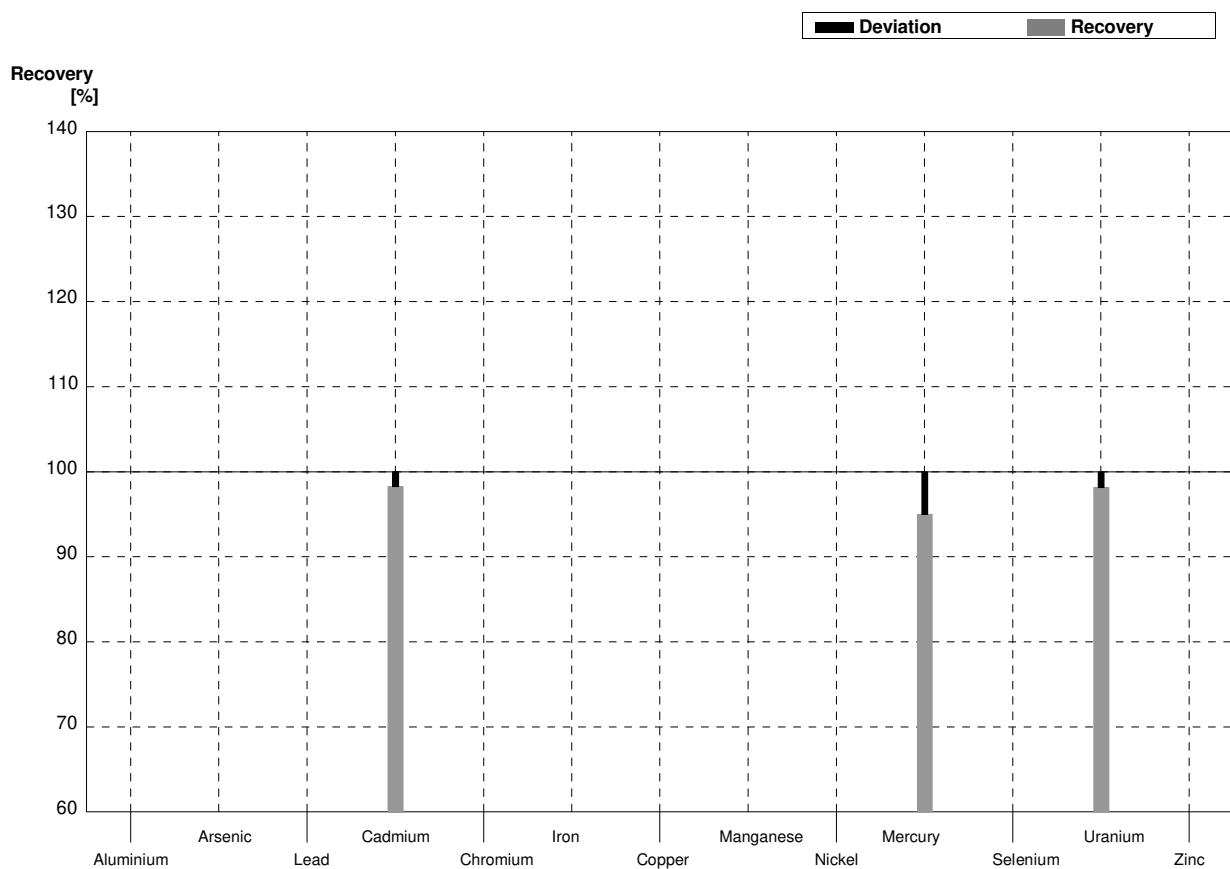
Sample M159A
Laboratory M

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02	3,93	0,51	$\mu\text{g/l}$	94%
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02	1,175	0,15	$\mu\text{g/l}$	98%
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02	2,67	0,23	$\mu\text{g/l}$	96%
Zinc	15,3	1,9			$\mu\text{g/l}$	



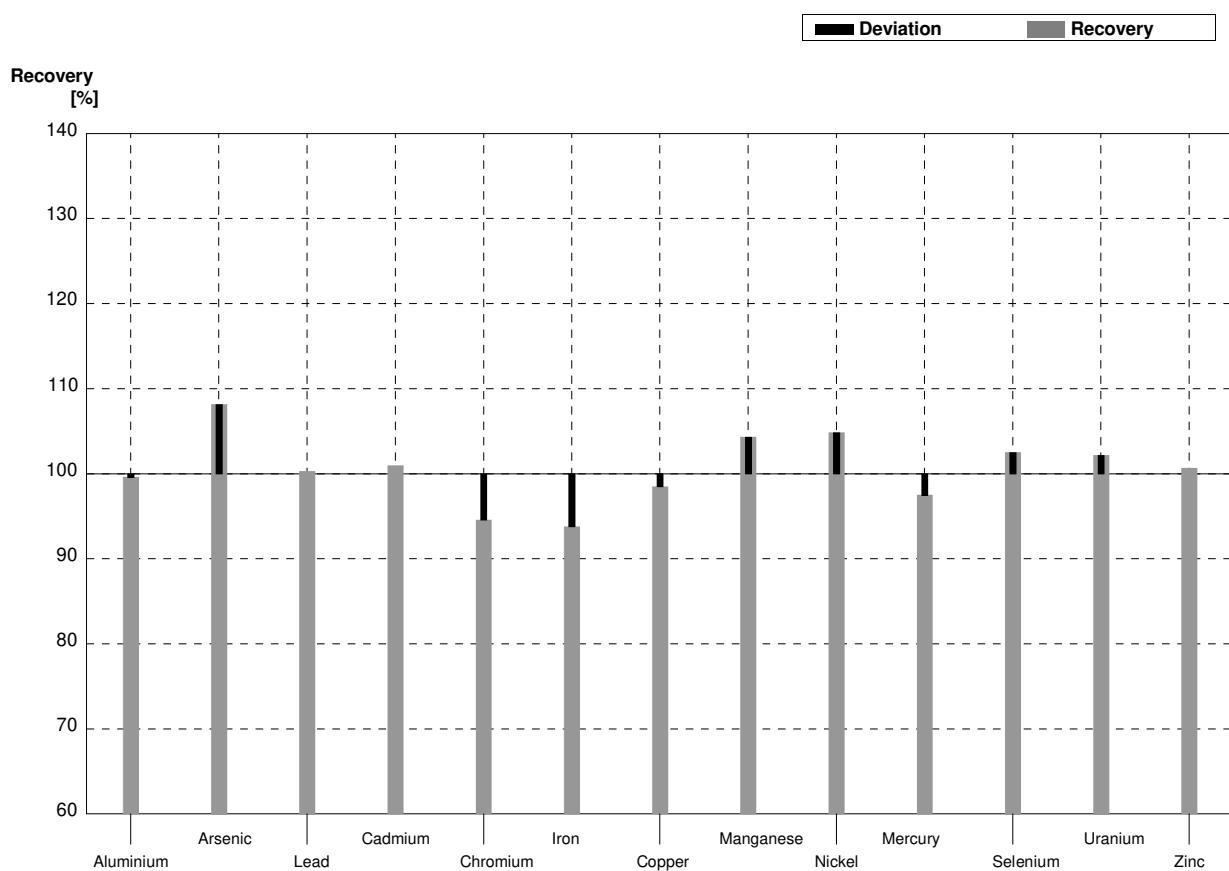
Sample M159B
Laboratory M

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01	1,14	0,15	$\mu\text{g/l}$	98%
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03	1,634	0,21	$\mu\text{g/l}$	95%
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04	4,84	0,42	$\mu\text{g/l}$	98%
Zinc	26,0	1,9			$\mu\text{g/l}$	



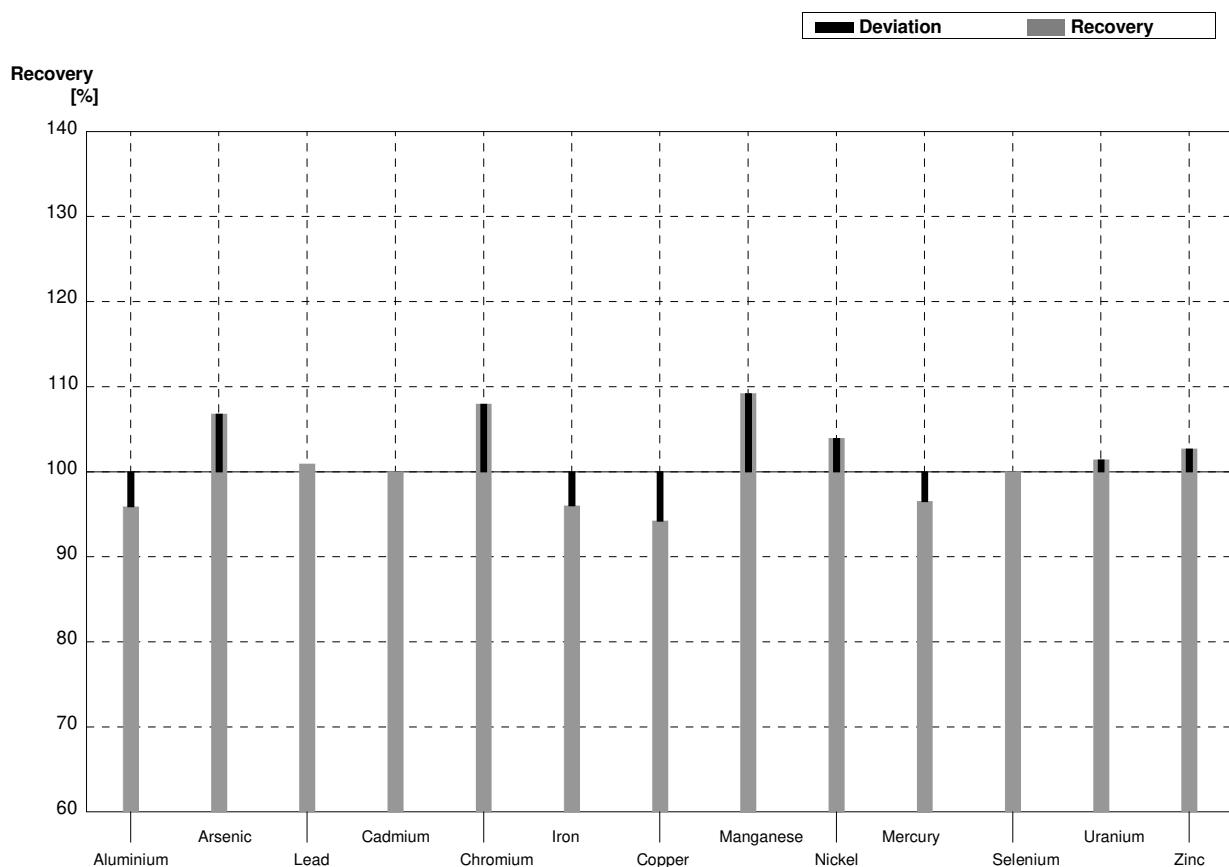
Sample M159A
Laboratory N

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,9	9,8	$\mu\text{g/l}$	100%
Arsenic	3,07	0,02	3,32	0,66	$\mu\text{g/l}$	108%
Lead	3,50	0,03	3,51	0,70	$\mu\text{g/l}$	100%
Cadmium	4,16	0,02	4,20	0,84	$\mu\text{g/l}$	101%
Chromium	1,29	0,01	1,22	0,24	$\mu\text{g/l}$	95%
Iron	45,0	0,3	42,2	8,4	$\mu\text{g/l}$	94%
Copper	6,61	0,04	6,51	1,30	$\mu\text{g/l}$	98%
Manganese	11,6	0,1	12,1	2,4	$\mu\text{g/l}$	104%
Nickel	3,71	0,03	3,89	0,78	$\mu\text{g/l}$	105%
Mercury	1,20	0,02	1,17	0,23	$\mu\text{g/l}$	98%
Selenium	0,398	0,015	0,408	0,082	$\mu\text{g/l}$	103%
Uranium	2,77	0,02	2,83	0,57	$\mu\text{g/l}$	102%
Zinc	15,3	1,9	15,4	3,1	$\mu\text{g/l}$	101%



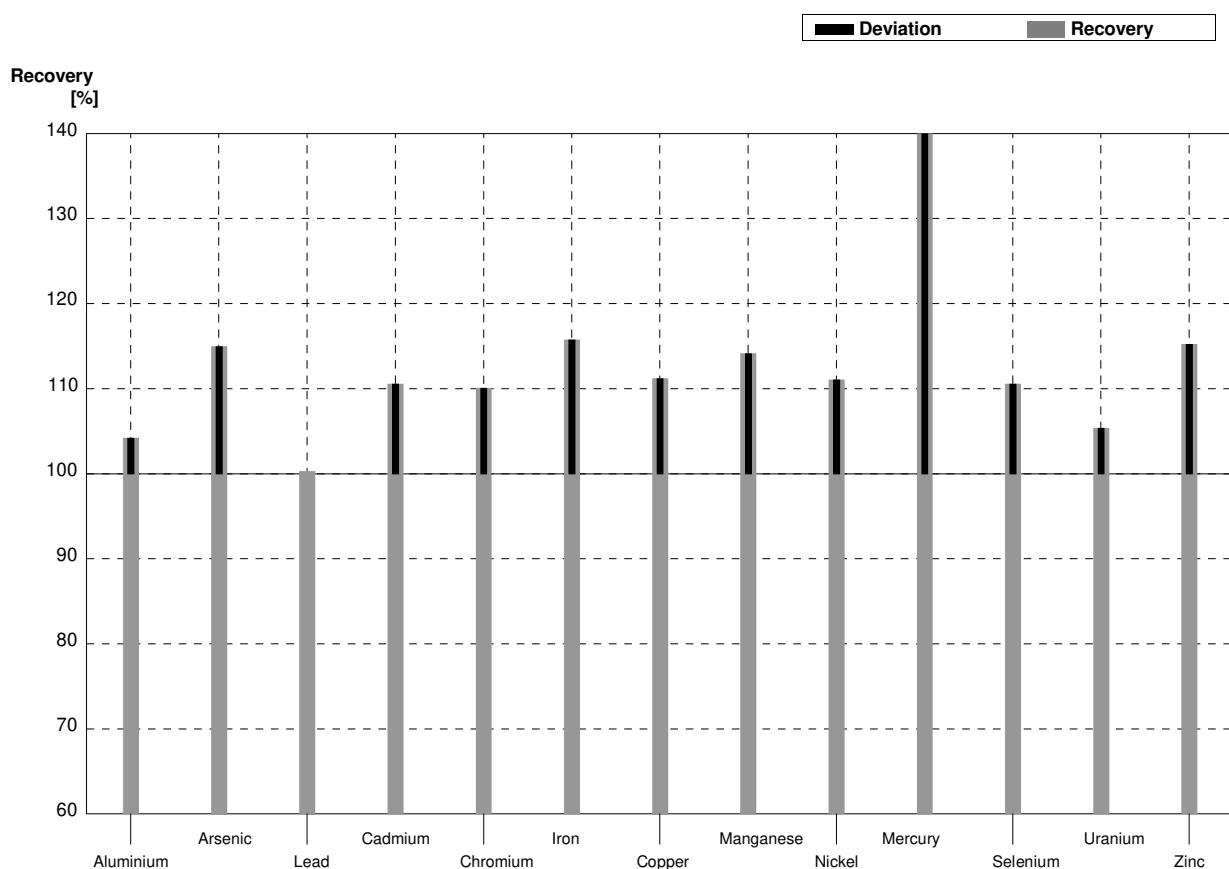
Sample M159B
Laboratory N

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,7	2,3	$\mu\text{g/l}$	96%
Arsenic	4,27	0,03	4,56	0,91	$\mu\text{g/l}$	107%
Lead	6,55	0,05	6,61	1,32	$\mu\text{g/l}$	101%
Cadmium	1,16	0,01	1,16	0,23	$\mu\text{g/l}$	100%
Chromium	5,28	0,04	5,70	1,14	$\mu\text{g/l}$	108%
Iron	12,5	0,3	12,0	2,4	$\mu\text{g/l}$	96%
Copper	3,11	0,03	2,93	0,59	$\mu\text{g/l}$	94%
Manganese	40,2	0,3	43,9	8,8	$\mu\text{g/l}$	109%
Nickel	5,10	0,04	5,30	1,06	$\mu\text{g/l}$	104%
Mercury	1,72	0,03	1,66	0,33	$\mu\text{g/l}$	97%
Selenium	1,94	0,02	1,94	0,39	$\mu\text{g/l}$	100%
Uranium	4,93	0,04	5,00	1	$\mu\text{g/l}$	101%
Zinc	26,0	1,9	26,7	5,3	$\mu\text{g/l}$	103%



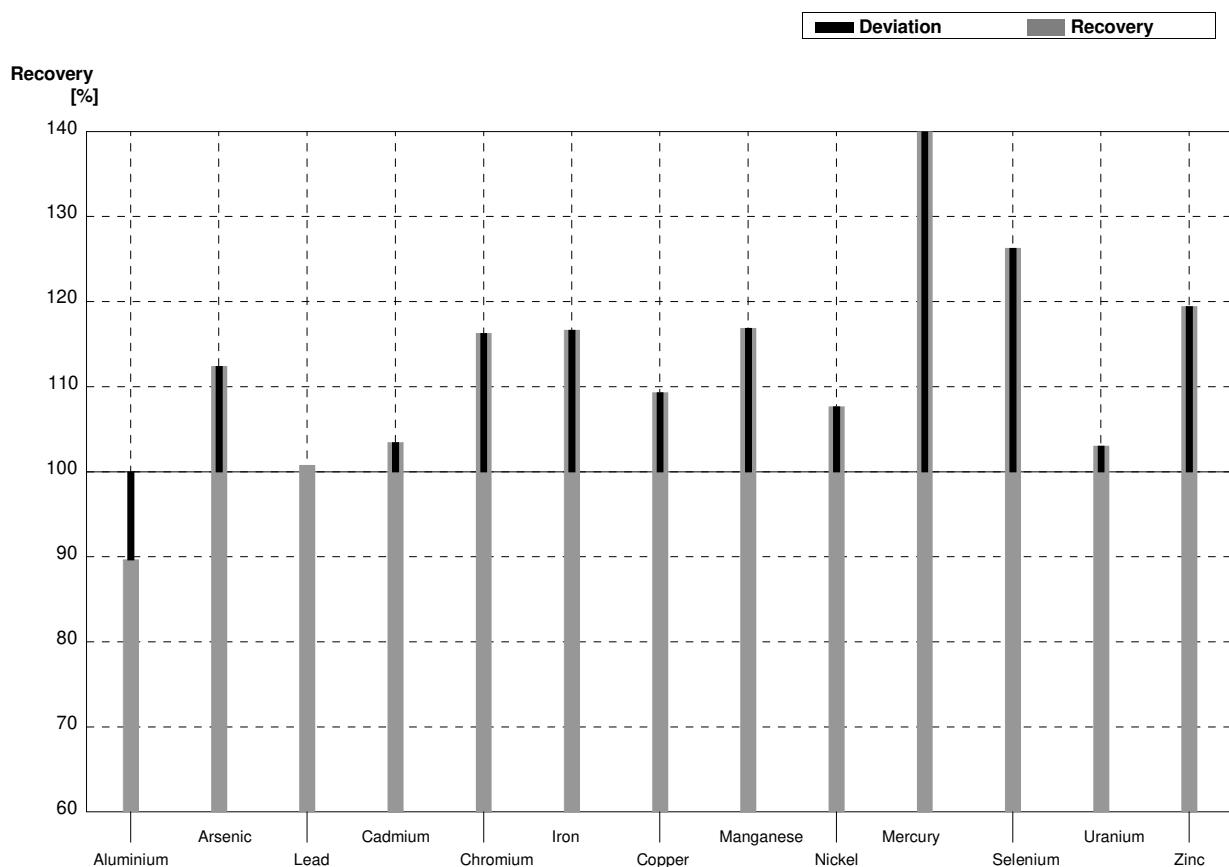
Sample M159A
Laboratory O

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	51,16		$\mu\text{g/l}$	104%
Arsenic	3,07	0,02	3,53		$\mu\text{g/l}$	115%
Lead	3,50	0,03	3,51		$\mu\text{g/l}$	100%
Cadmium	4,16	0,02	4,60		$\mu\text{g/l}$	111%
Chromium	1,29	0,01	1,42		$\mu\text{g/l}$	110%
Iron	45,0	0,3	52,09		$\mu\text{g/l}$	116%
Copper	6,61	0,04	7,35		$\mu\text{g/l}$	111%
Manganese	11,6	0,1	13,24		$\mu\text{g/l}$	114%
Nickel	3,71	0,03	4,12		$\mu\text{g/l}$	111%
Mercury	1,20	0,02	2,85		$\mu\text{g/l}$	238%
Selenium	0,398	0,015	0,440		$\mu\text{g/l}$	111%
Uranium	2,77	0,02	2,918		$\mu\text{g/l}$	105%
Zinc	15,3	1,9	17,63		$\mu\text{g/l}$	115%



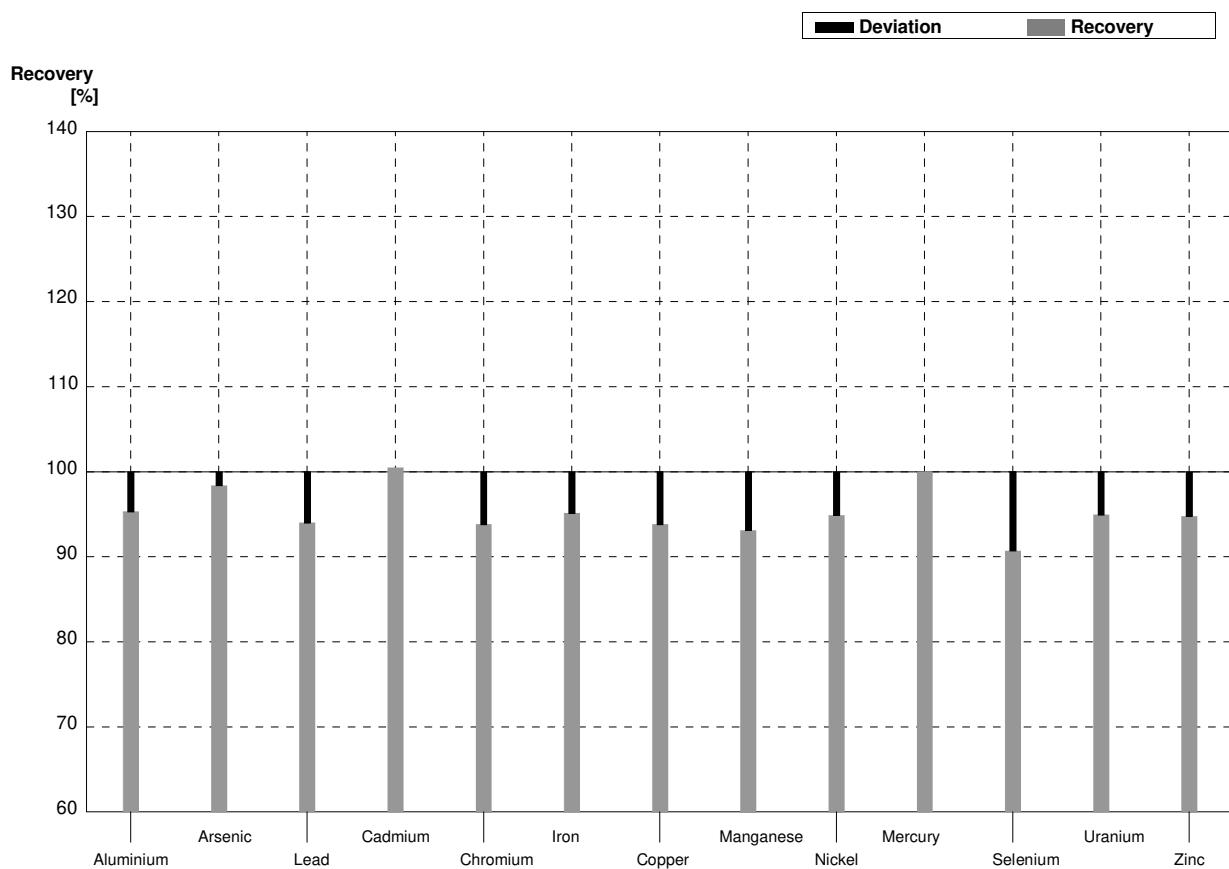
Sample M159B
Laboratory O

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	10,94		$\mu\text{g/l}$	90%
Arsenic	4,27	0,03	4,80		$\mu\text{g/l}$	112%
Lead	6,55	0,05	6,60		$\mu\text{g/l}$	101%
Cadmium	1,16	0,01	1,20		$\mu\text{g/l}$	103%
Chromium	5,28	0,04	6,14		$\mu\text{g/l}$	116%
Iron	12,5	0,3	14,58		$\mu\text{g/l}$	117%
Copper	3,11	0,03	3,40		$\mu\text{g/l}$	109%
Manganese	40,2	0,3	46,99		$\mu\text{g/l}$	117%
Nickel	5,10	0,04	5,49		$\mu\text{g/l}$	108%
Mercury	1,72	0,03	3,77		$\mu\text{g/l}$	219%
Selenium	1,94	0,02	2,45		$\mu\text{g/l}$	126%
Uranium	4,93	0,04	5,08		$\mu\text{g/l}$	103%
Zinc	26,0	1,9	31,05		$\mu\text{g/l}$	119%



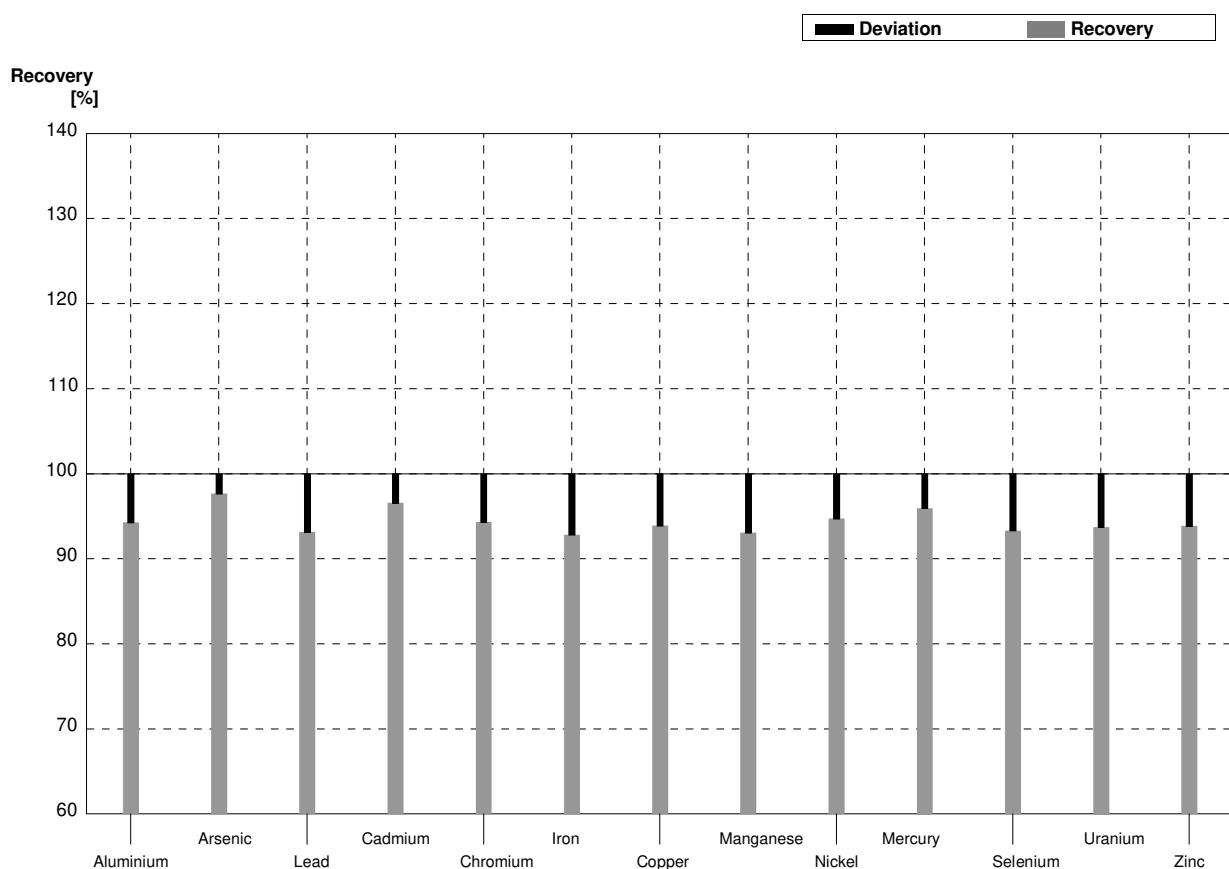
Sample M159A
Laboratory P

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	46,8	7,0	$\mu\text{g/l}$	95%
Arsenic	3,07	0,02	3,02	0,60	$\mu\text{g/l}$	98%
Lead	3,50	0,03	3,29	0,494	$\mu\text{g/l}$	94%
Cadmium	4,16	0,02	4,18	0,54	$\mu\text{g/l}$	100%
Chromium	1,29	0,01	1,21	0,121	$\mu\text{g/l}$	94%
Iron	45,0	0,3	42,8	6,4	$\mu\text{g/l}$	95%
Copper	6,61	0,04	6,2	0,93	$\mu\text{g/l}$	94%
Manganese	11,6	0,1	10,8	1,08	$\mu\text{g/l}$	93%
Nickel	3,71	0,03	3,52	0,352	$\mu\text{g/l}$	95%
Mercury	1,20	0,02	1,20	0,239	$\mu\text{g/l}$	100%
Selenium	0,398	0,015	0,361	0,054	$\mu\text{g/l}$	91%
Uranium	2,77	0,02	2,63	0,263	$\mu\text{g/l}$	95%
Zinc	15,3	1,9	14,5	1,30	$\mu\text{g/l}$	95%



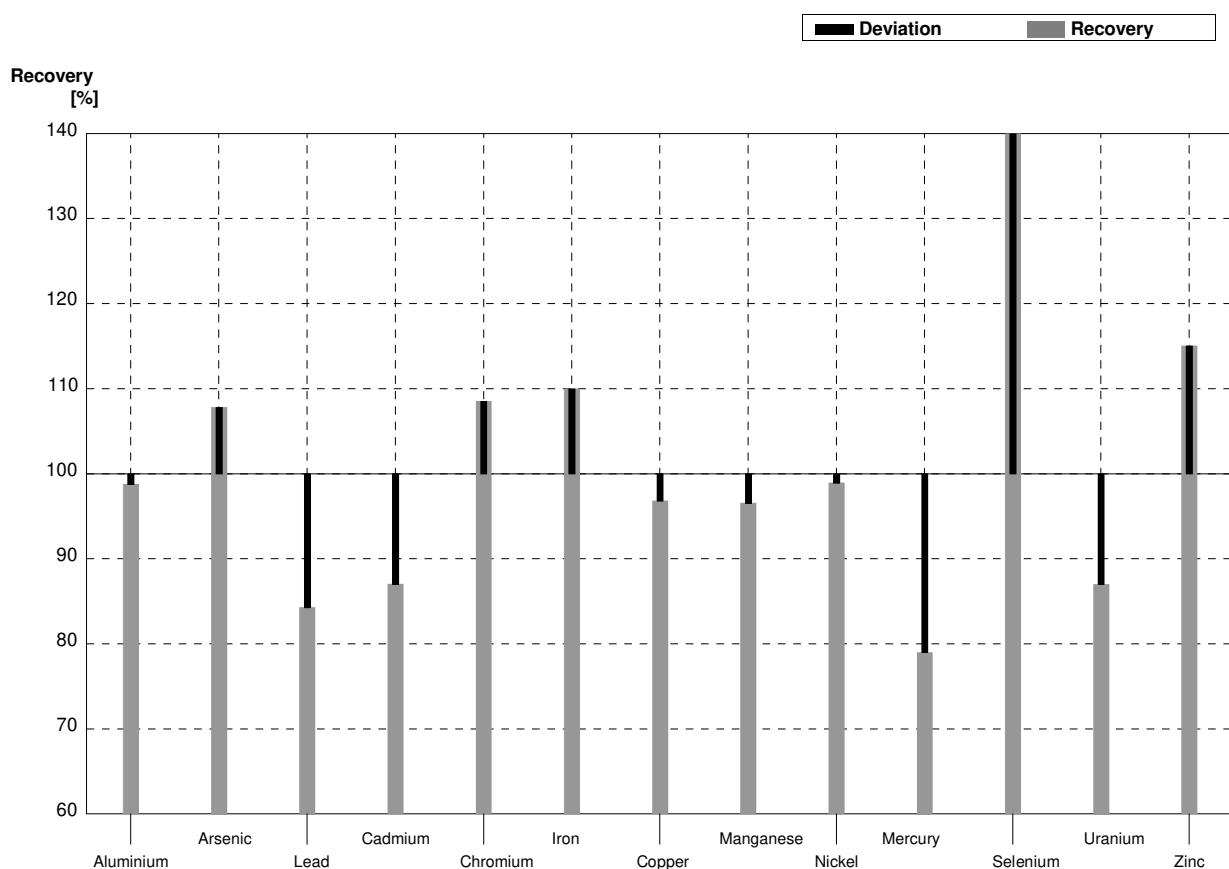
Sample M159B
Laboratory P

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,5	1,73	$\mu\text{g/l}$	94%
Arsenic	4,27	0,03	4,17	0,83	$\mu\text{g/l}$	98%
Lead	6,55	0,05	6,1	0,92	$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,12	0,146	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	4,98	0,498	$\mu\text{g/l}$	94%
Iron	12,5	0,3	11,6	1,75	$\mu\text{g/l}$	93%
Copper	3,11	0,03	2,92	0,438	$\mu\text{g/l}$	94%
Manganese	40,2	0,3	37,4	3,74	$\mu\text{g/l}$	93%
Nickel	5,10	0,04	4,83	0,483	$\mu\text{g/l}$	95%
Mercury	1,72	0,03	1,65	0,331	$\mu\text{g/l}$	96%
Selenium	1,94	0,02	1,81	0,271	$\mu\text{g/l}$	93%
Uranium	4,93	0,04	4,62	0,462	$\mu\text{g/l}$	94%
Zinc	26,0	1,9	24,4	2,19	$\mu\text{g/l}$	94%



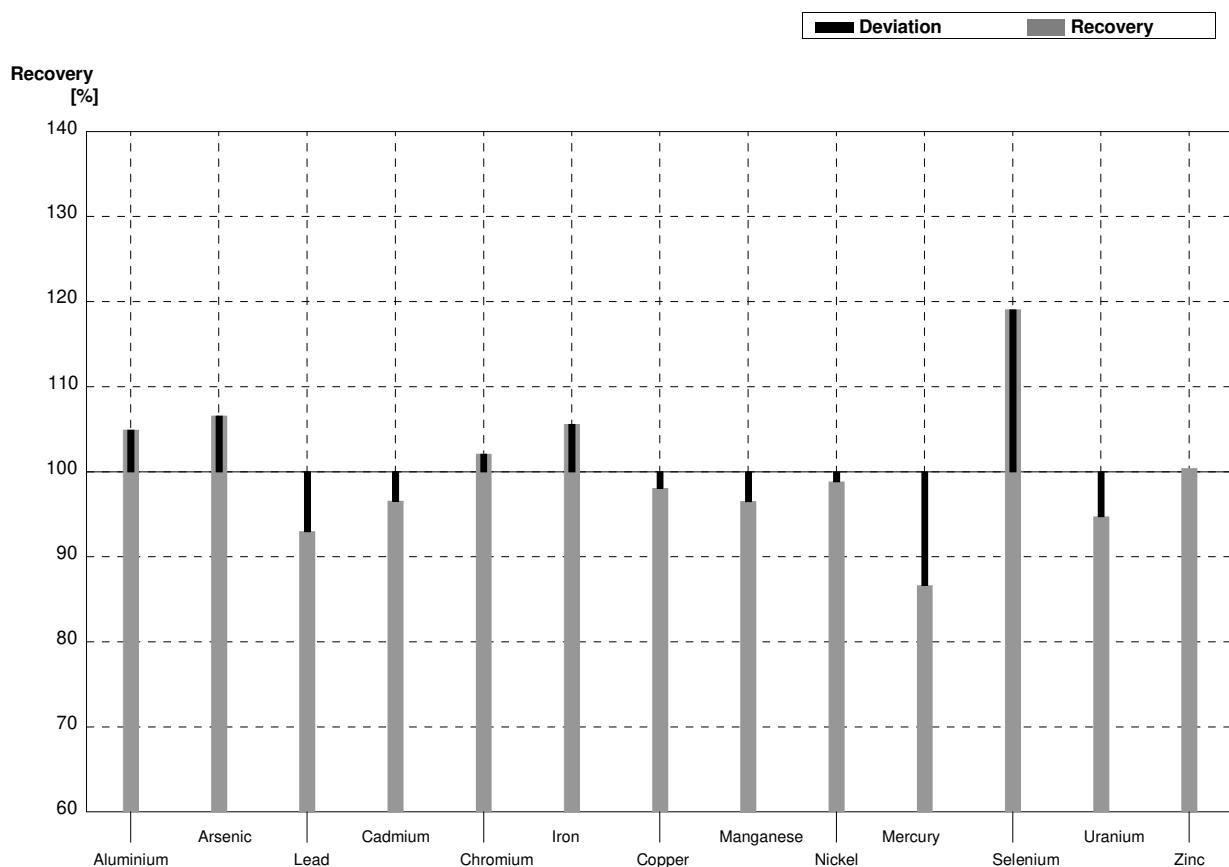
Sample M159A
Laboratory Q

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,5	12,1	$\mu\text{g/l}$	99%
Arsenic	3,07	0,02	3,31	0,83	$\mu\text{g/l}$	108%
Lead	3,50	0,03	2,95	0,74	$\mu\text{g/l}$	84%
Cadmium	4,16	0,02	3,62	0,91	$\mu\text{g/l}$	87%
Chromium	1,29	0,01	1,40	0,35	$\mu\text{g/l}$	109%
Iron	45,0	0,3	49,5	12,4	$\mu\text{g/l}$	110%
Copper	6,61	0,04	6,40	1,60	$\mu\text{g/l}$	97%
Manganese	11,6	0,1	11,2	2,8	$\mu\text{g/l}$	97%
Nickel	3,71	0,03	3,67	0,92	$\mu\text{g/l}$	99%
Mercury	1,20	0,02	0,948	0,237	$\mu\text{g/l}$	79%
Selenium	0,398	0,015	0,642	0,161	$\mu\text{g/l}$	161%
Uranium	2,77	0,02	2,41	0,6	$\mu\text{g/l}$	87%
Zinc	15,3	1,9	17,6	4,4	$\mu\text{g/l}$	115%



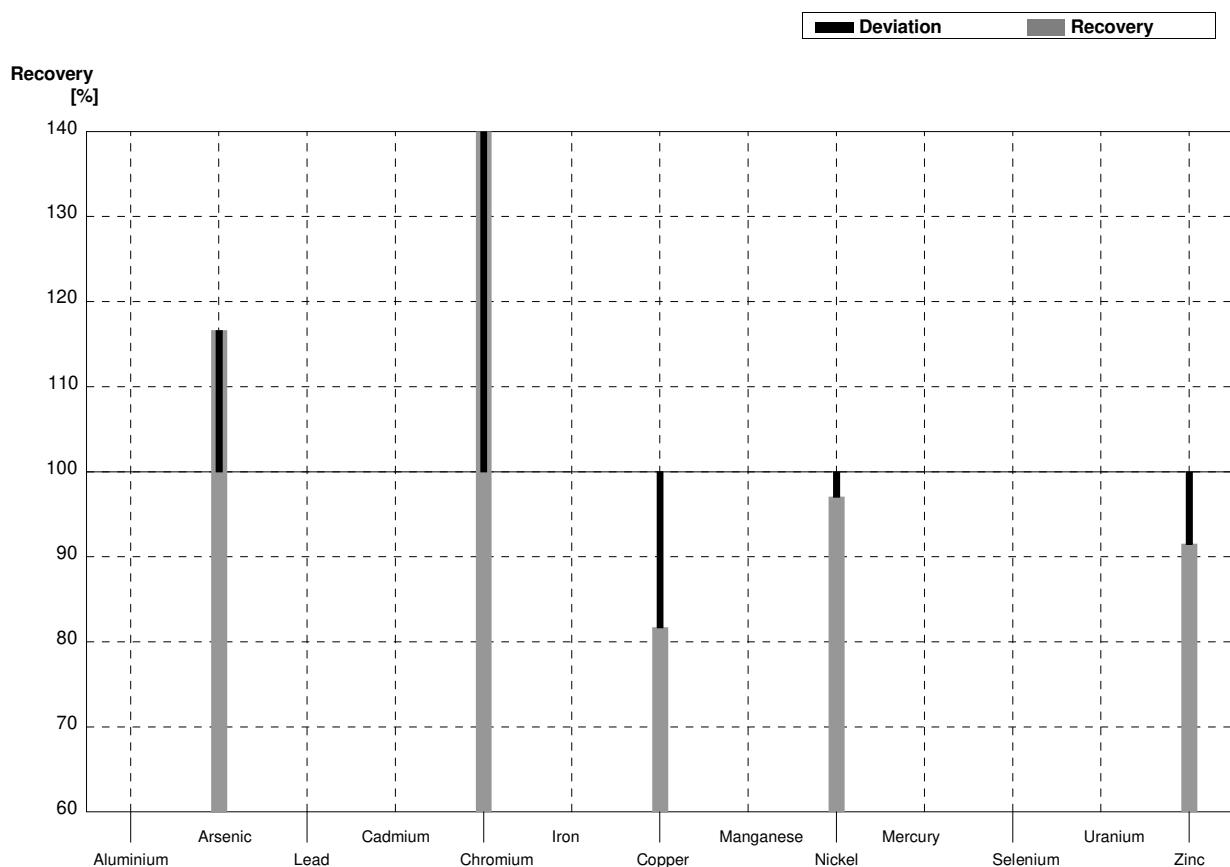
Sample M159B
Laboratory Q

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,8	3,2	$\mu\text{g/l}$	105%
Arsenic	4,27	0,03	4,55	1,14	$\mu\text{g/l}$	107%
Lead	6,55	0,05	6,09	1,52	$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,12	0,28	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	5,39	1,35	$\mu\text{g/l}$	102%
Iron	12,5	0,3	13,2	3,3	$\mu\text{g/l}$	106%
Copper	3,11	0,03	3,05	0,76	$\mu\text{g/l}$	98%
Manganese	40,2	0,3	38,8	9,7	$\mu\text{g/l}$	97%
Nickel	5,10	0,04	5,04	1,26	$\mu\text{g/l}$	99%
Mercury	1,72	0,03	1,49	0,37	$\mu\text{g/l}$	87%
Selenium	1,94	0,02	2,31	0,58	$\mu\text{g/l}$	119%
Uranium	4,93	0,04	4,67	1,17	$\mu\text{g/l}$	95%
Zinc	26,0	1,9	26,1	6,5	$\mu\text{g/l}$	100%



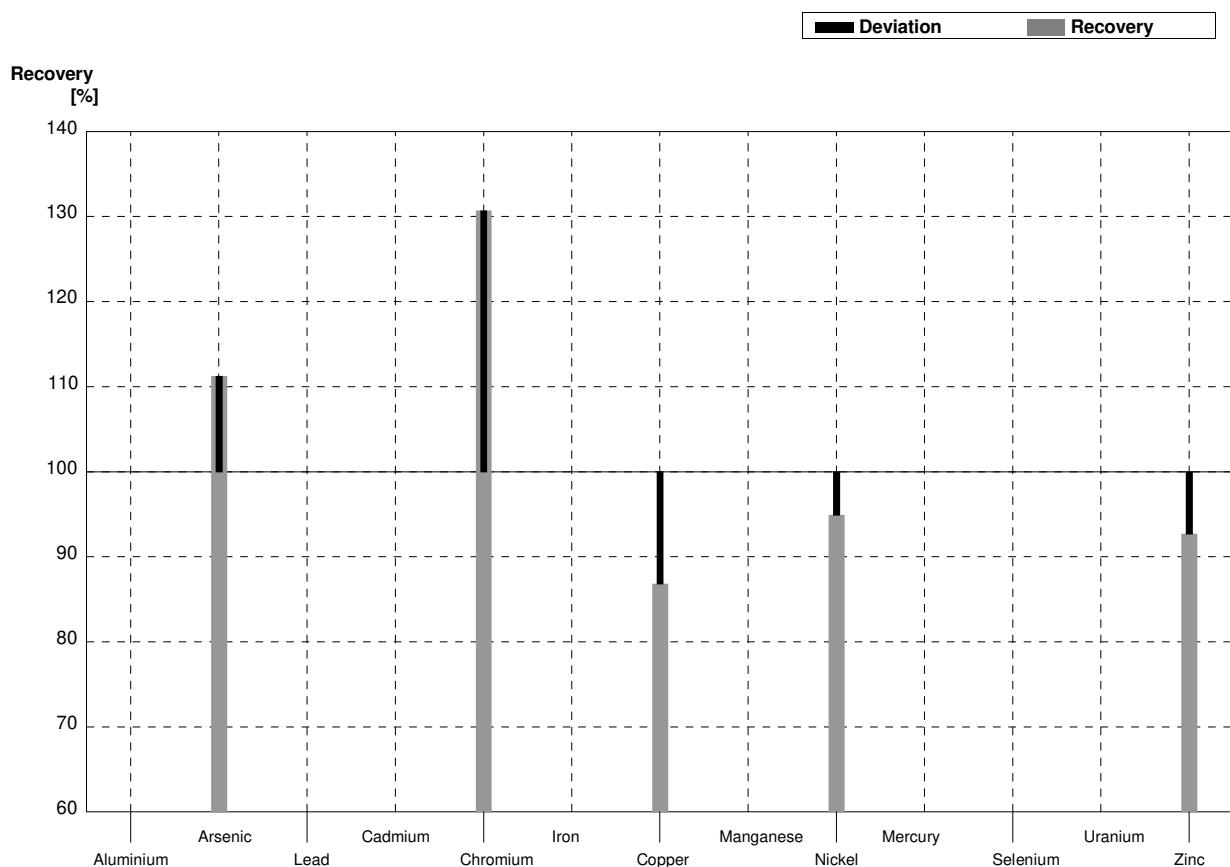
Sample M159A
Laboratory R

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02	3,58	0,46	$\mu\text{g/l}$	117%
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01	2,03	0,43	$\mu\text{g/l}$	157%
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04	5,40	0,98	$\mu\text{g/l}$	82%
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03	3,60	0,51	$\mu\text{g/l}$	97%
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	14,0	2,2	$\mu\text{g/l}$	92%



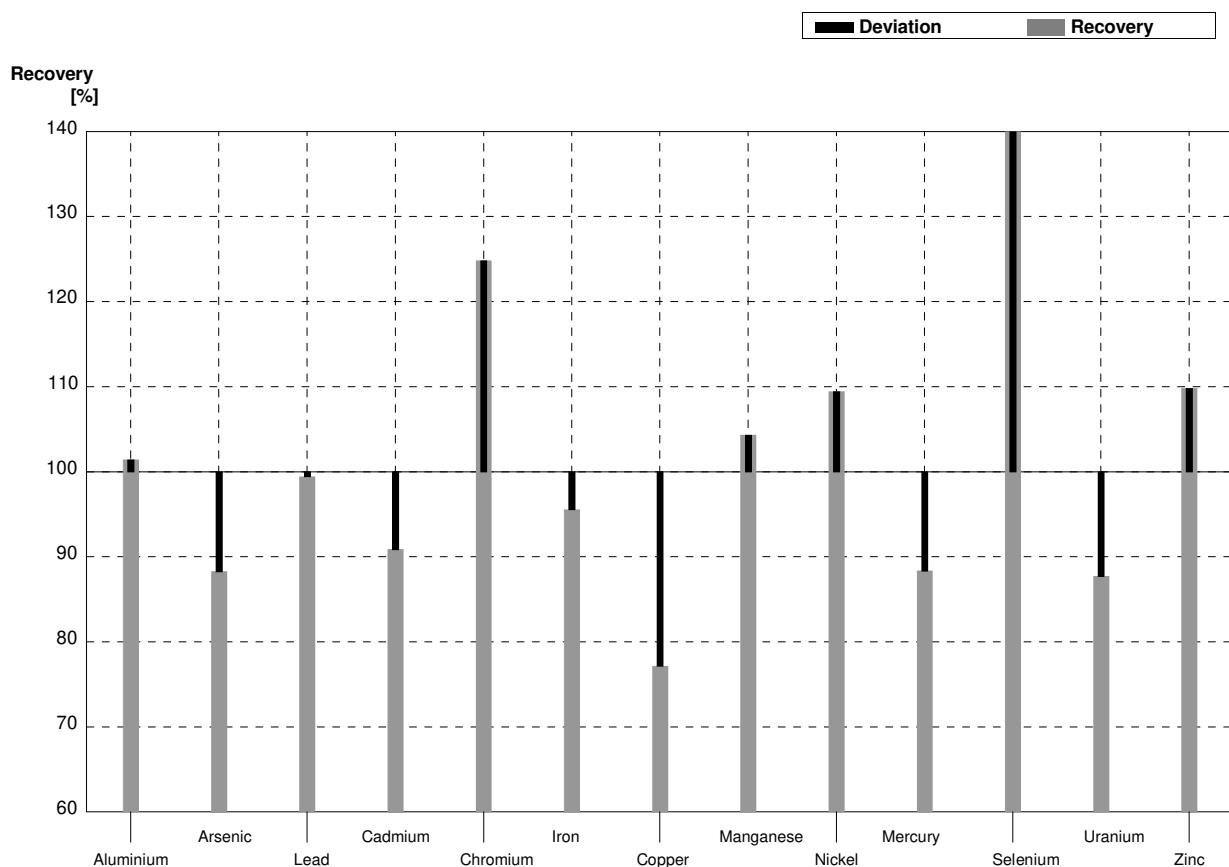
Sample M159B
Laboratory R

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03	4,75	0,61	$\mu\text{g/l}$	111%
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04	6,90	1,42	$\mu\text{g/l}$	131%
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03	2,70	0,50	$\mu\text{g/l}$	87%
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04	4,84	0,69	$\mu\text{g/l}$	95%
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	24,1	3,9	$\mu\text{g/l}$	93%



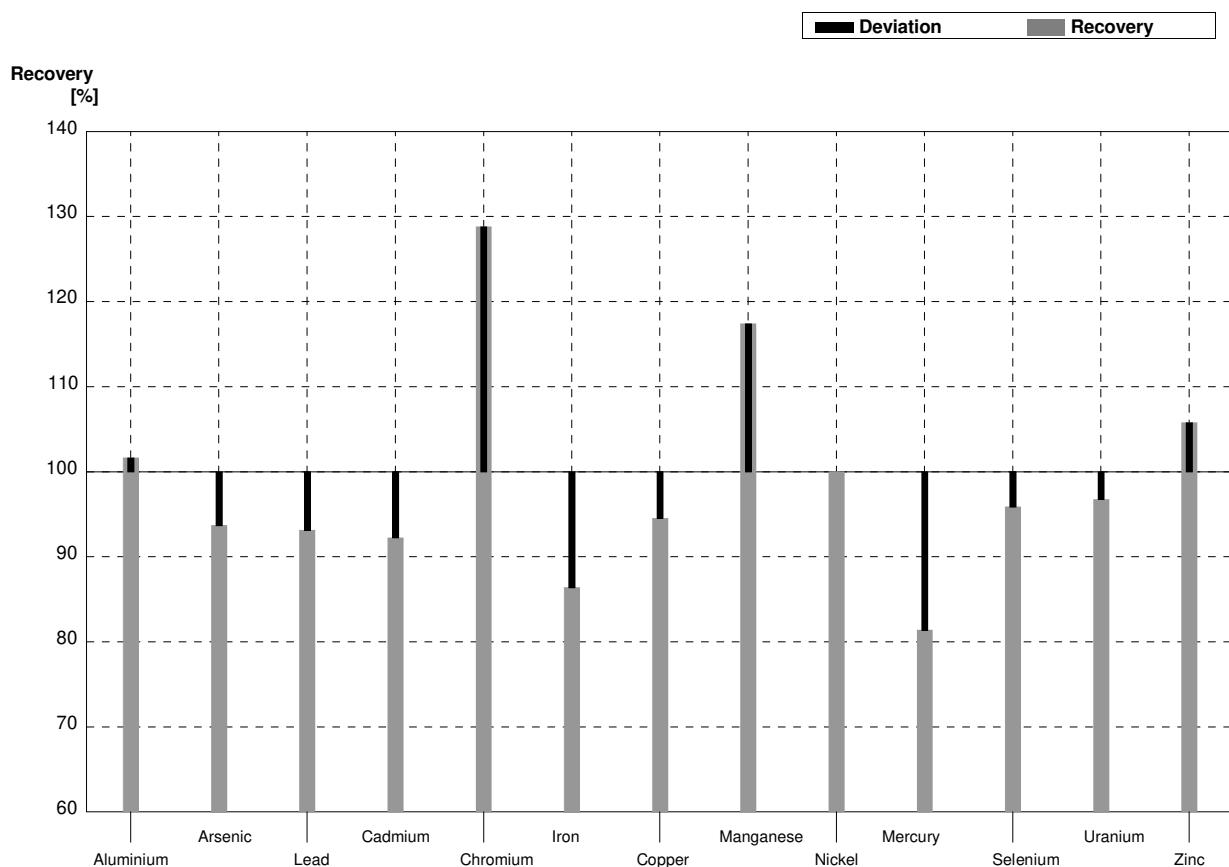
Sample M159A
Laboratory S

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	49,8		$\mu\text{g/l}$	101%
Arsenic	3,07	0,02	2,71		$\mu\text{g/l}$	88%
Lead	3,50	0,03	3,48		$\mu\text{g/l}$	99%
Cadmium	4,16	0,02	3,78		$\mu\text{g/l}$	91%
Chromium	1,29	0,01	1,61		$\mu\text{g/l}$	125%
Iron	45,0	0,3	43,0		$\mu\text{g/l}$	96%
Copper	6,61	0,04	5,1		$\mu\text{g/l}$	77%
Manganese	11,6	0,1	12,1		$\mu\text{g/l}$	104%
Nickel	3,71	0,03	4,06		$\mu\text{g/l}$	109%
Mercury	1,20	0,02	1,06		$\mu\text{g/l}$	88%
Selenium	0,398	0,015	0,79		$\mu\text{g/l}$	198%
Uranium	2,77	0,02	2,43		$\mu\text{g/l}$	88%
Zinc	15,3	1,9	16,8		$\mu\text{g/l}$	110%



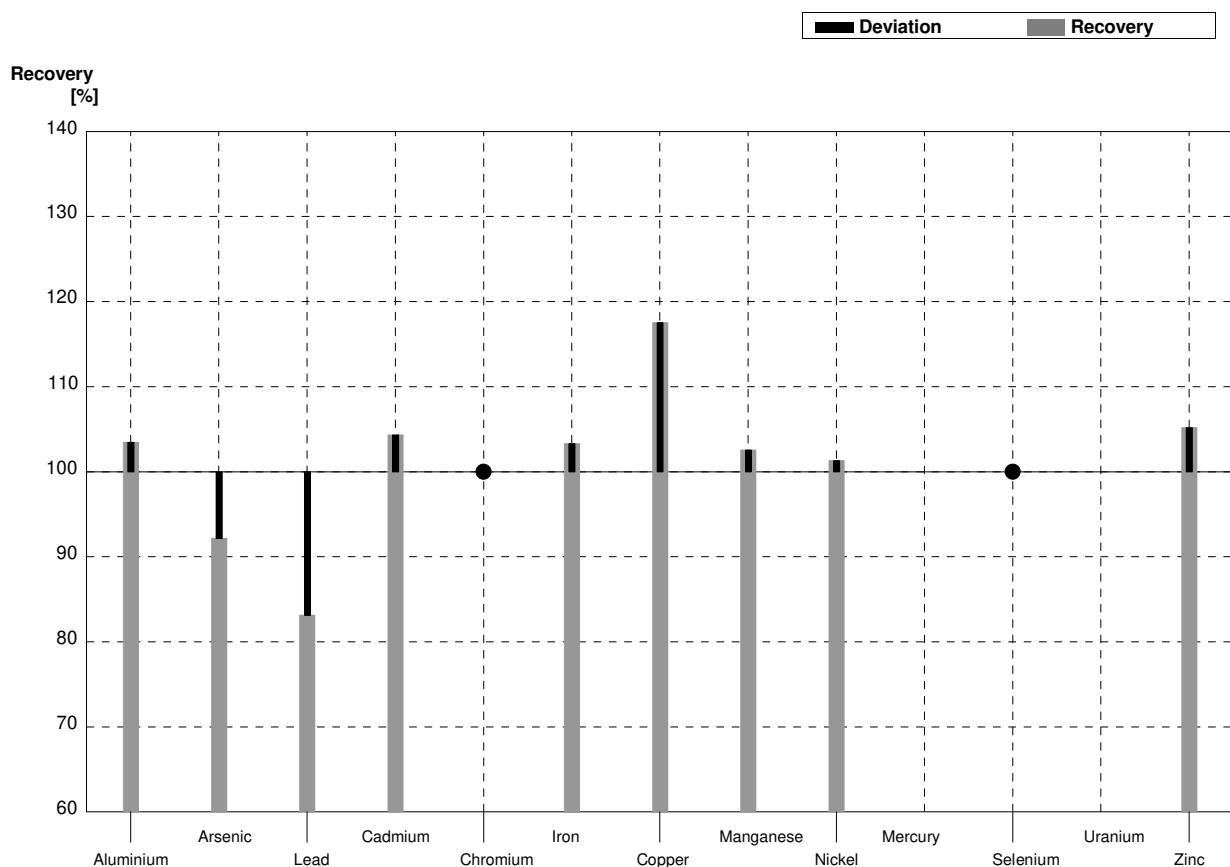
Sample M159B
Laboratory S

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,4		$\mu\text{g/l}$	102%
Arsenic	4,27	0,03	4,00		$\mu\text{g/l}$	94%
Lead	6,55	0,05	6,1		$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,07		$\mu\text{g/l}$	92%
Chromium	5,28	0,04	6,8		$\mu\text{g/l}$	129%
Iron	12,5	0,3	10,8		$\mu\text{g/l}$	86%
Copper	3,11	0,03	2,94		$\mu\text{g/l}$	95%
Manganese	40,2	0,3	47,2		$\mu\text{g/l}$	117%
Nickel	5,10	0,04	5,1		$\mu\text{g/l}$	100%
Mercury	1,72	0,03	1,40		$\mu\text{g/l}$	81%
Selenium	1,94	0,02	1,86		$\mu\text{g/l}$	96%
Uranium	4,93	0,04	4,77		$\mu\text{g/l}$	97%
Zinc	26,0	1,9	27,5		$\mu\text{g/l}$	106%



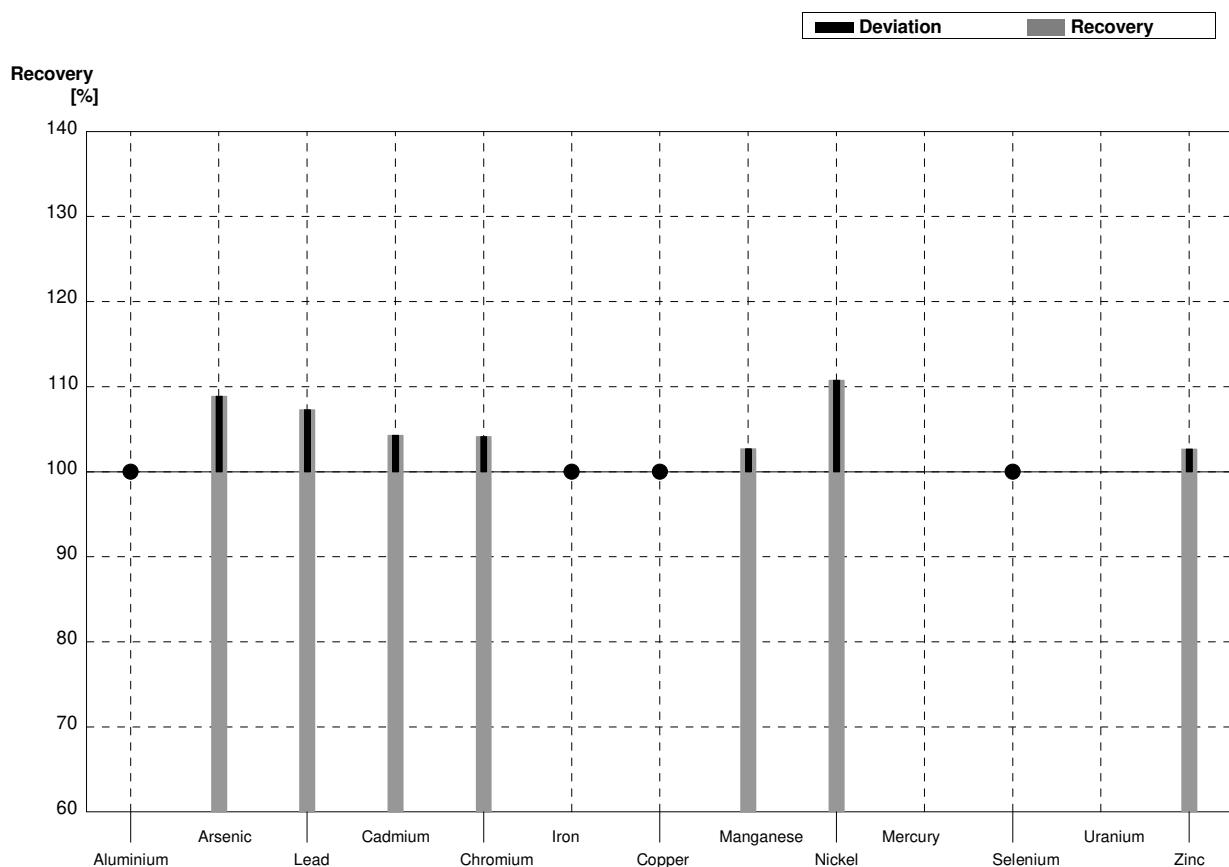
Sample M159A
Laboratory T

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	50,8	7,82	$\mu\text{g/l}$	103%
Arsenic	3,07	0,02	2,83	0,43	$\mu\text{g/l}$	92%
Lead	3,50	0,03	2,91	0,50	$\mu\text{g/l}$	83%
Cadmium	4,16	0,02	4,34	0,31	$\mu\text{g/l}$	104%
Chromium	1,29	0,01	<5,0		$\mu\text{g/l}$	•
Iron	45,0	0,3	46,5	3,91	$\mu\text{g/l}$	103%
Copper	6,61	0,04	7,77	1,94	$\mu\text{g/l}$	118%
Manganese	11,6	0,1	11,9	1,12	$\mu\text{g/l}$	103%
Nickel	3,71	0,03	3,76	0,46	$\mu\text{g/l}$	101%
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015	<5		$\mu\text{g/l}$	•
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	16,1	2,25	$\mu\text{g/l}$	105%



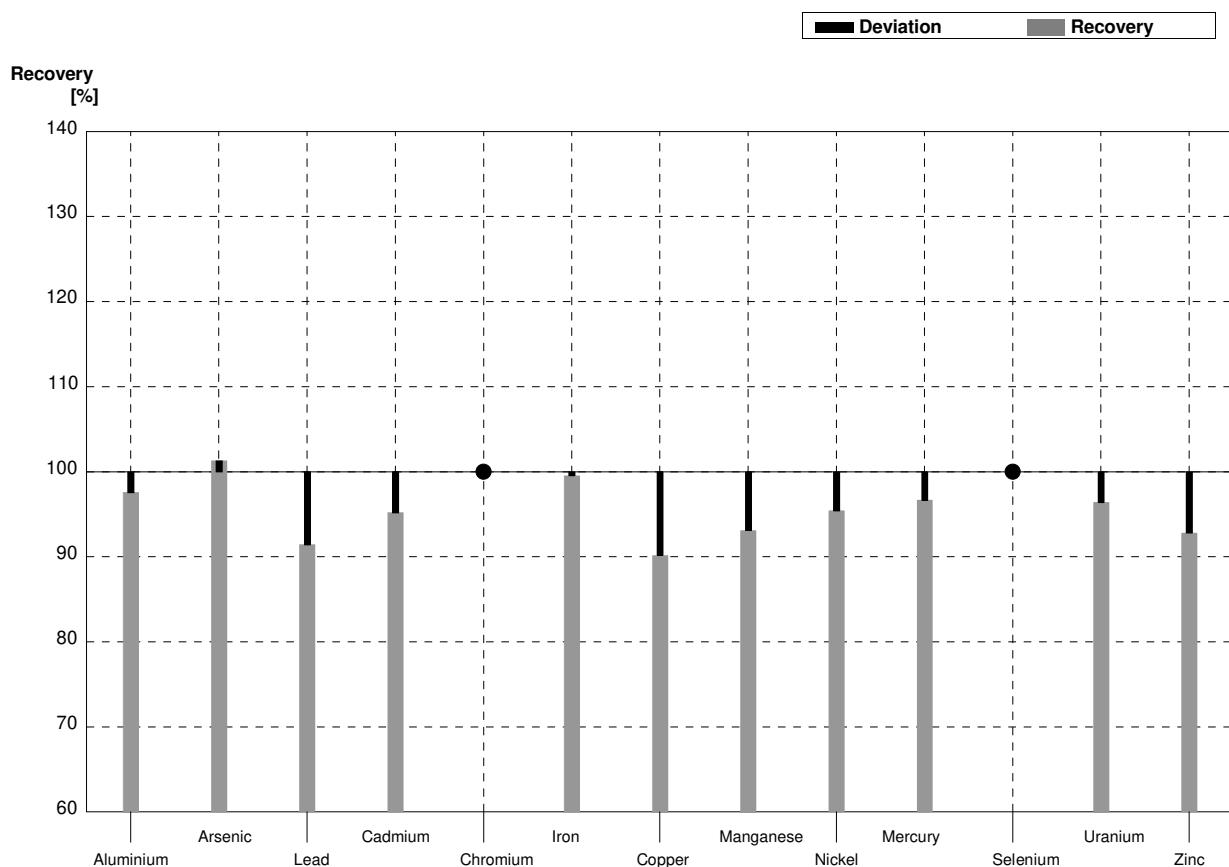
Sample M159B
Laboratory T

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	<15,0		$\mu\text{g/l}$	•
Arsenic	4,27	0,03	4,65	0,70	$\mu\text{g/l}$	109%
Lead	6,55	0,05	7,03	1,20	$\mu\text{g/l}$	107%
Cadmium	1,16	0,01	1,21	0,09	$\mu\text{g/l}$	104%
Chromium	5,28	0,04	5,50	0,46	$\mu\text{g/l}$	104%
Iron	12,5	0,3	<30		$\mu\text{g/l}$	•
Copper	3,11	0,03	<5		$\mu\text{g/l}$	•
Manganese	40,2	0,3	41,3	3,88	$\mu\text{g/l}$	103%
Nickel	5,10	0,04	5,65	0,70	$\mu\text{g/l}$	111%
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02	<5		$\mu\text{g/l}$	•
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	26,7	3,74	$\mu\text{g/l}$	103%



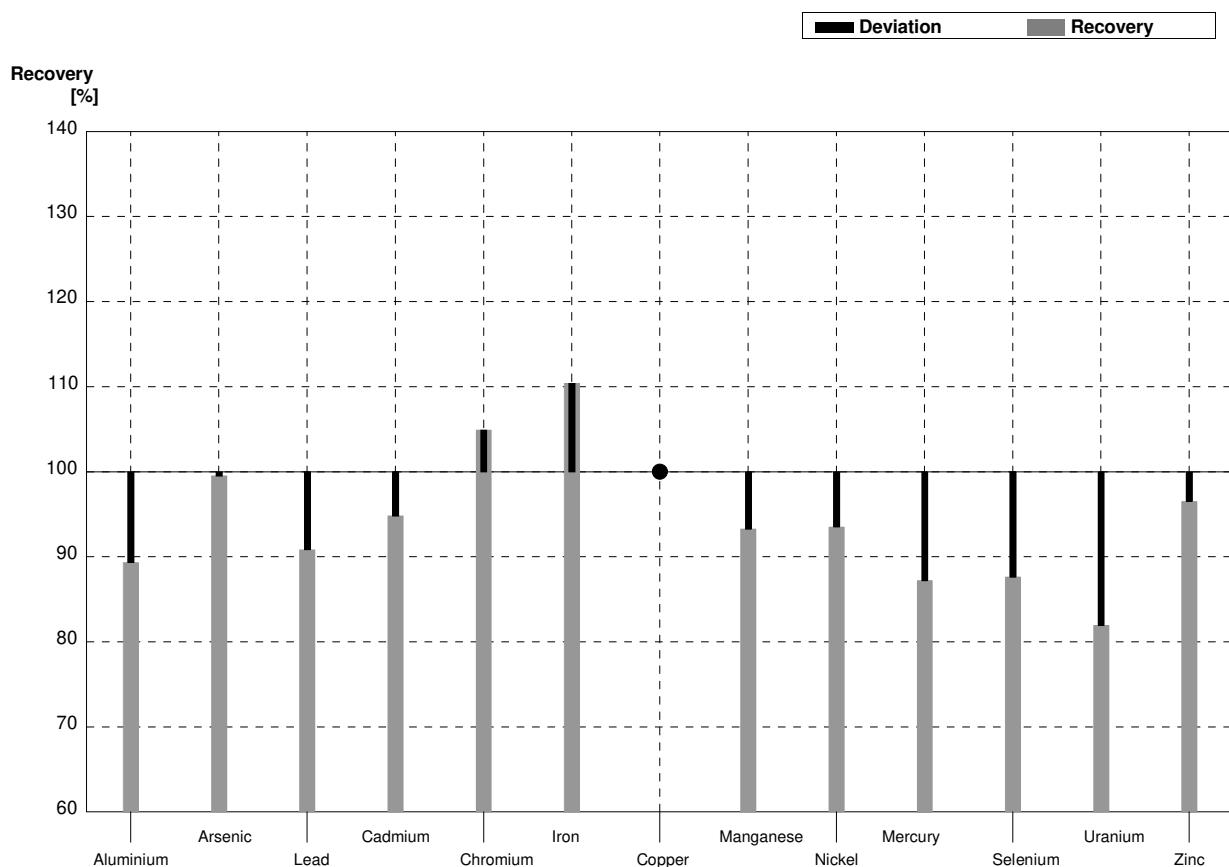
Sample M159A
Laboratory U

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	47,9	2,5	$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,11	0,13	$\mu\text{g/l}$	101%
Lead	3,50	0,03	3,20	0,04	$\mu\text{g/l}$	91%
Cadmium	4,16	0,02	3,96	0,05	$\mu\text{g/l}$	95%
Chromium	1,29	0,01	<5		$\mu\text{g/l}$	•
Iron	45,0	0,3	44,8	1,1	$\mu\text{g/l}$	100%
Copper	6,61	0,04	5,96	0,5	$\mu\text{g/l}$	90%
Manganese	11,6	0,1	10,8	0,3	$\mu\text{g/l}$	93%
Nickel	3,71	0,03	3,54	0,13	$\mu\text{g/l}$	95%
Mercury	1,20	0,02	1,16	0,02	$\mu\text{g/l}$	97%
Selenium	0,398	0,015	<1		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,67	0,81	$\mu\text{g/l}$	96%
Zinc	15,3	1,9	14,2	0,8	$\mu\text{g/l}$	93%



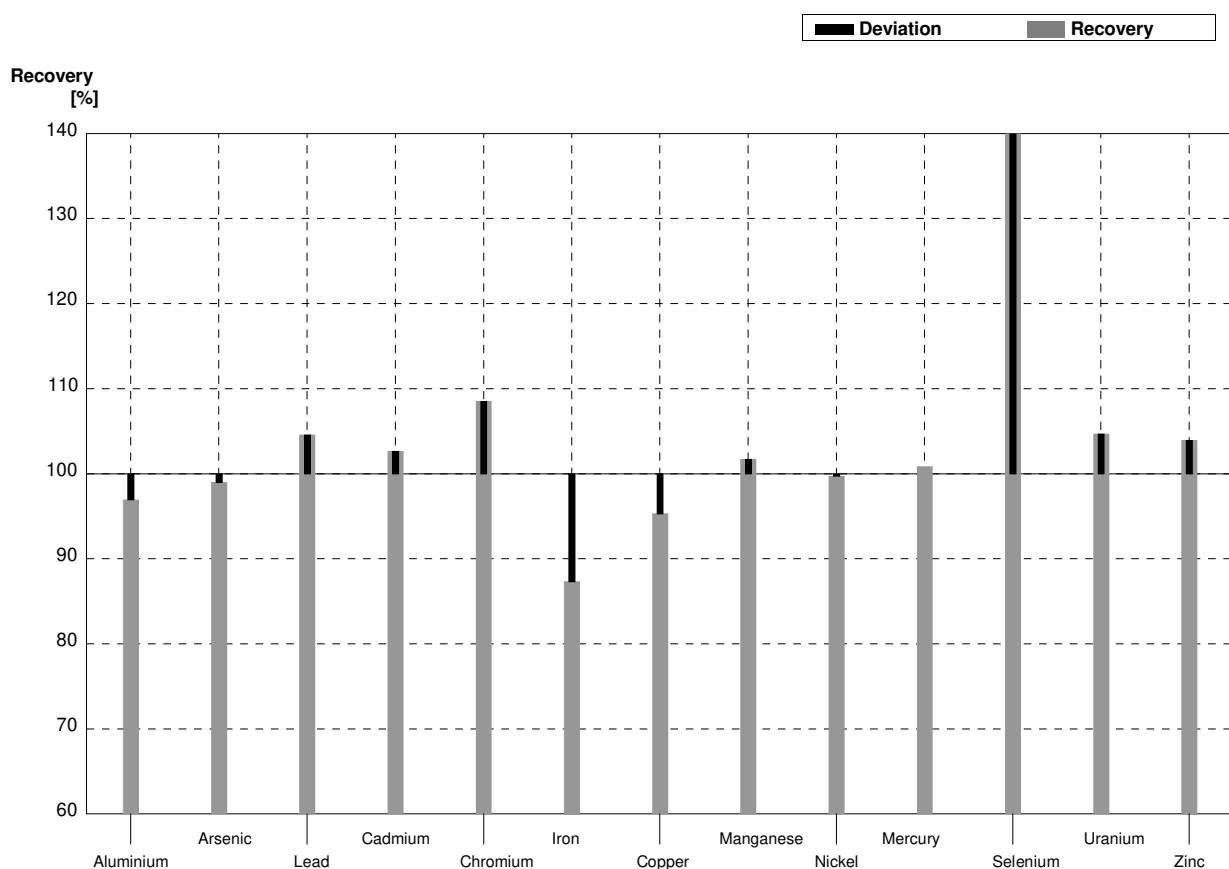
Sample M159B
Laboratory U

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	10,9	3	$\mu\text{g/l}$	89%
Arsenic	4,27	0,03	4,25	0,12	$\mu\text{g/l}$	100%
Lead	6,55	0,05	5,95	0,06	$\mu\text{g/l}$	91%
Cadmium	1,16	0,01	1,10	0,03	$\mu\text{g/l}$	95%
Chromium	5,28	0,04	5,54	0,05	$\mu\text{g/l}$	105%
Iron	12,5	0,3	13,8	1	$\mu\text{g/l}$	110%
Copper	3,11	0,03	<5		$\mu\text{g/l}$	•
Manganese	40,2	0,3	37,5	0,5	$\mu\text{g/l}$	93%
Nickel	5,10	0,04	4,77	0,1	$\mu\text{g/l}$	94%
Mercury	1,72	0,03	1,50	0,02	$\mu\text{g/l}$	87%
Selenium	1,94	0,02	1,70	0,22	$\mu\text{g/l}$	88%
Uranium	4,93	0,04	4,04	0,77	$\mu\text{g/l}$	82%
Zinc	26,0	1,9	25,1	1	$\mu\text{g/l}$	97%



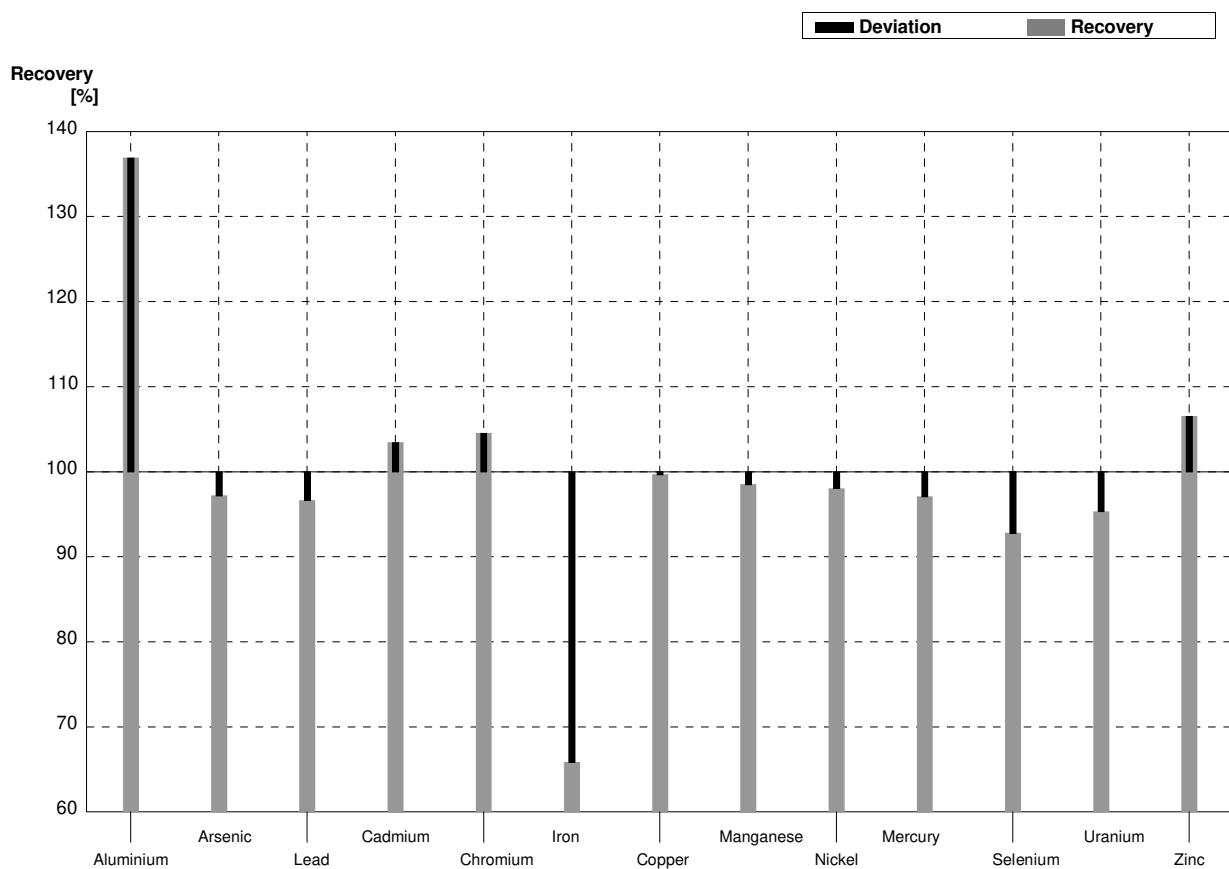
Sample M159A
Laboratory V

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	47,6	4,05	$\mu\text{g/l}$	97%
Arsenic	3,07	0,02	3,04	0,21	$\mu\text{g/l}$	99%
Lead	3,50	0,03	3,66	0,35	$\mu\text{g/l}$	105%
Cadmium	4,16	0,02	4,27	0,41	$\mu\text{g/l}$	103%
Chromium	1,29	0,01	1,40	0,07	$\mu\text{g/l}$	109%
Iron	45,0	0,3	39,3	2,73	$\mu\text{g/l}$	87%
Copper	6,61	0,04	6,30	0,37	$\mu\text{g/l}$	95%
Manganese	11,6	0,1	11,8	0,79	$\mu\text{g/l}$	102%
Nickel	3,71	0,03	3,70	0,28	$\mu\text{g/l}$	100%
Mercury	1,20	0,02	1,21	0,15	$\mu\text{g/l}$	101%
Selenium	0,398	0,015	0,98	0,07	$\mu\text{g/l}$	246%
Uranium	2,77	0,02	2,90	0,17	$\mu\text{g/l}$	105%
Zinc	15,3	1,9	15,9	1,65	$\mu\text{g/l}$	104%



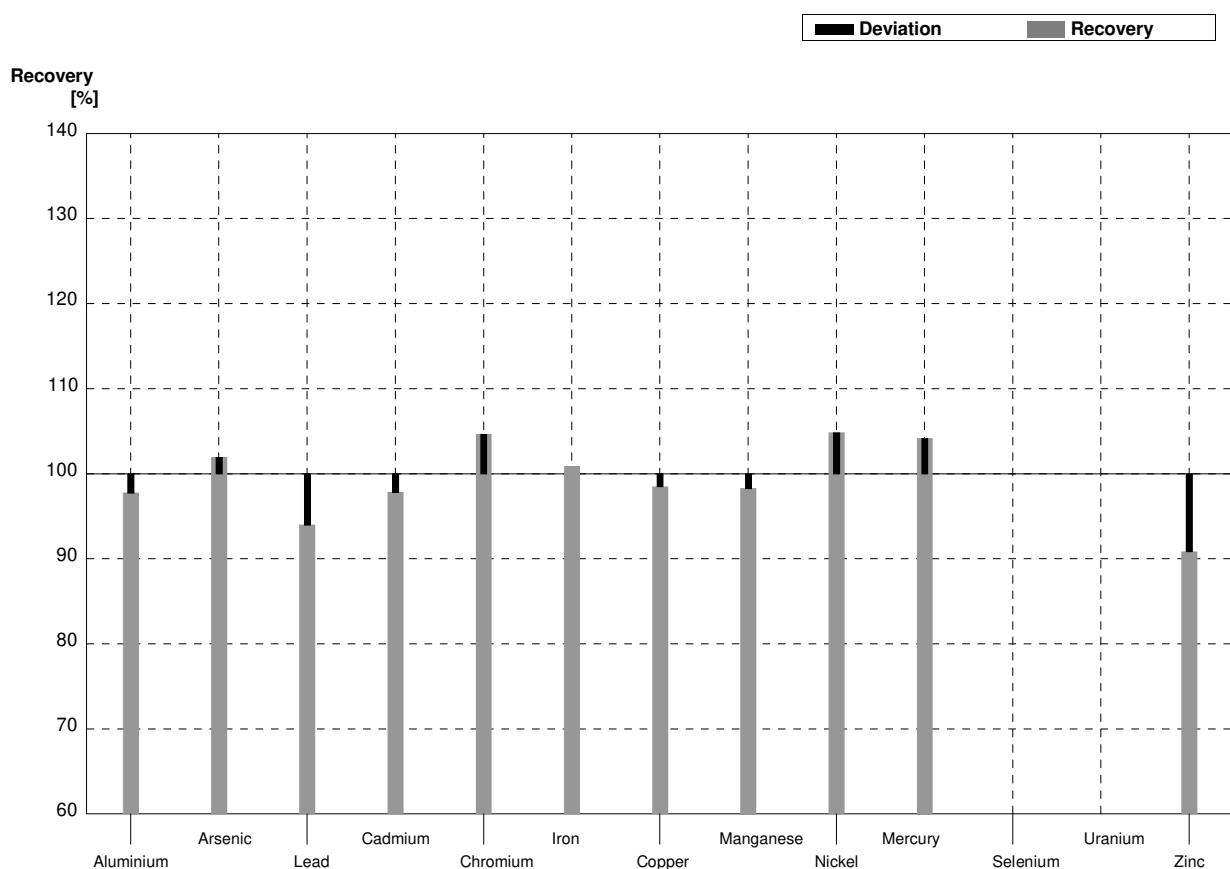
Sample M159B
Laboratory V

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	16,7	1,42	$\mu\text{g/l}$	137%
Arsenic	4,27	0,03	4,15	0,28	$\mu\text{g/l}$	97%
Lead	6,55	0,05	6,33	0,60	$\mu\text{g/l}$	97%
Cadmium	1,16	0,01	1,20	0,11	$\mu\text{g/l}$	103%
Chromium	5,28	0,04	5,52	0,27	$\mu\text{g/l}$	105%
Iron	12,5	0,3	8,23	0,57	$\mu\text{g/l}$	66%
Copper	3,11	0,03	3,10	0,18	$\mu\text{g/l}$	100%
Manganese	40,2	0,3	39,6	2,66	$\mu\text{g/l}$	99%
Nickel	5,10	0,04	5,00	0,37	$\mu\text{g/l}$	98%
Mercury	1,72	0,03	1,67	0,20	$\mu\text{g/l}$	97%
Selenium	1,94	0,02	1,80	0,13	$\mu\text{g/l}$	93%
Uranium	4,93	0,04	4,70	0,28	$\mu\text{g/l}$	95%
Zinc	26,0	1,9	27,7	2,87	$\mu\text{g/l}$	107%



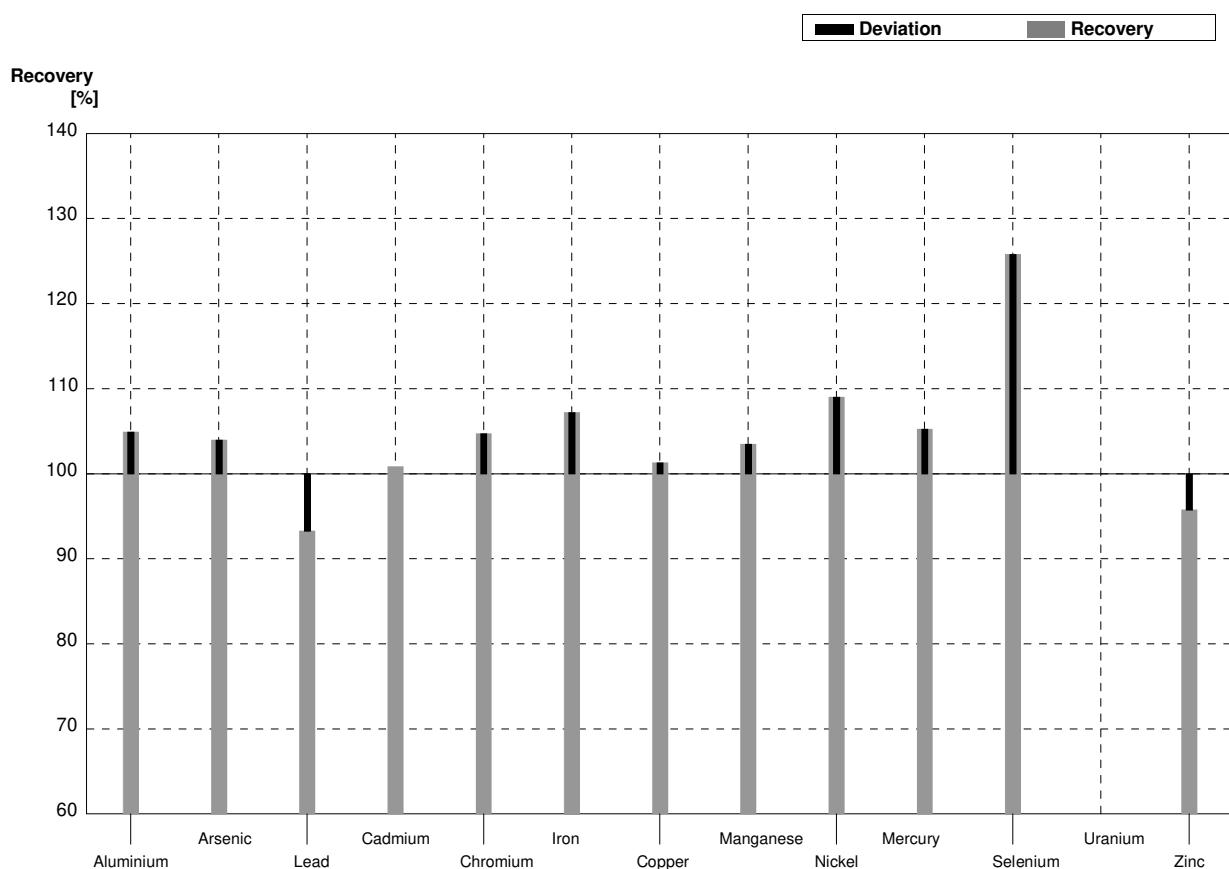
Sample M159A
Laboratory W

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,0	9,60	$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,13	0,72	$\mu\text{g/l}$	102%
Lead	3,50	0,03	3,29	0,76	$\mu\text{g/l}$	94%
Cadmium	4,16	0,02	4,07	0,98	$\mu\text{g/l}$	98%
Chromium	1,29	0,01	1,35	0,23	$\mu\text{g/l}$	105%
Iron	45,0	0,3	45,4	11,8	$\mu\text{g/l}$	101%
Copper	6,61	0,04	6,51	1,69	$\mu\text{g/l}$	98%
Manganese	11,6	0,1	11,4	1,83	$\mu\text{g/l}$	98%
Nickel	3,71	0,03	3,89	0,93	$\mu\text{g/l}$	105%
Mercury	1,20	0,02	1,25	0,36	$\mu\text{g/l}$	104%
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	13,9	2,23	$\mu\text{g/l}$	91%



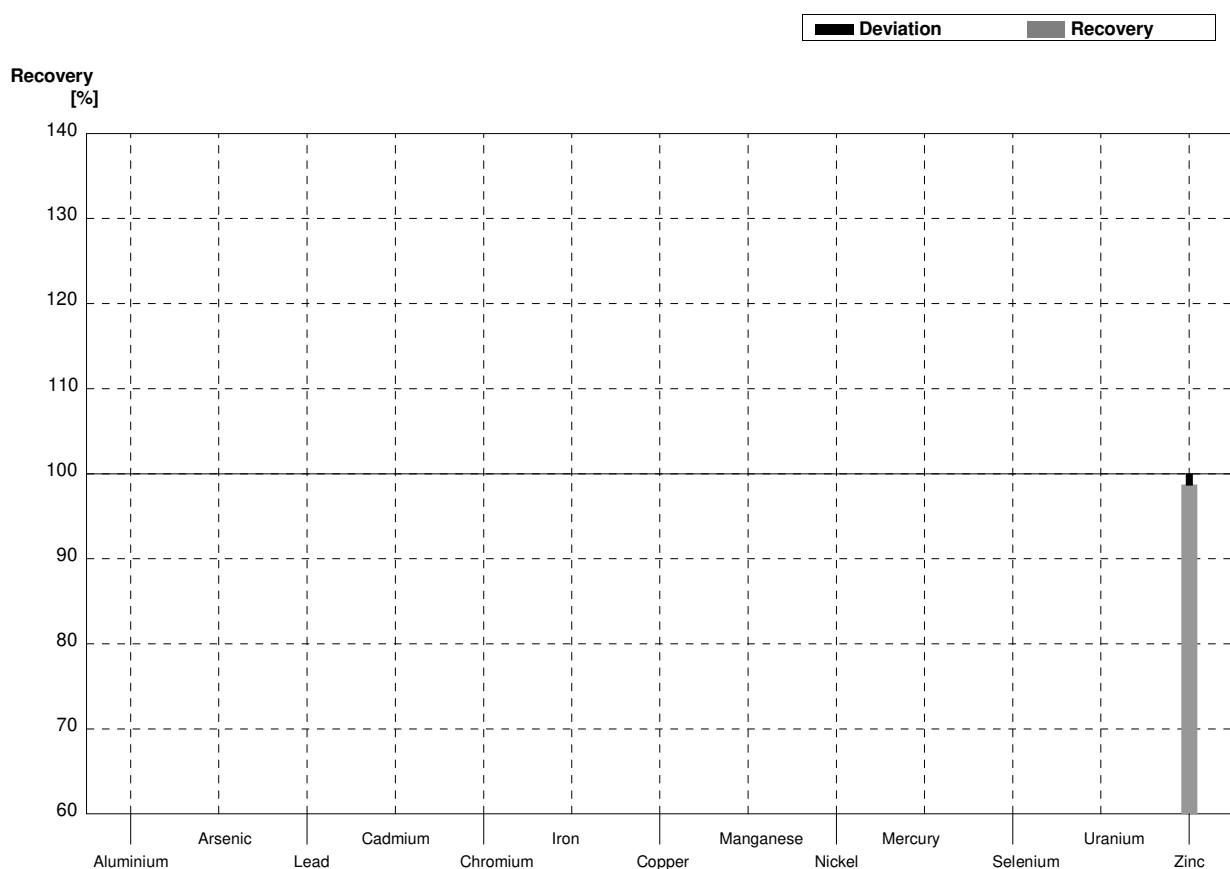
Sample M159B
Laboratory W

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,8	2,57	$\mu\text{g/l}$	105%
Arsenic	4,27	0,03	4,44	1,02	$\mu\text{g/l}$	104%
Lead	6,55	0,05	6,11	1,40	$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,17	0,28	$\mu\text{g/l}$	101%
Chromium	5,28	0,04	5,53	0,94	$\mu\text{g/l}$	105%
Iron	12,5	0,3	13,4	3,49	$\mu\text{g/l}$	107%
Copper	3,11	0,03	3,15	0,82	$\mu\text{g/l}$	101%
Manganese	40,2	0,3	41,6	6,65	$\mu\text{g/l}$	103%
Nickel	5,10	0,04	5,56	1,33	$\mu\text{g/l}$	109%
Mercury	1,72	0,03	1,81	0,54	$\mu\text{g/l}$	105%
Selenium	1,94	0,02	2,44	0,71	$\mu\text{g/l}$	126%
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	24,9	3,98	$\mu\text{g/l}$	96%



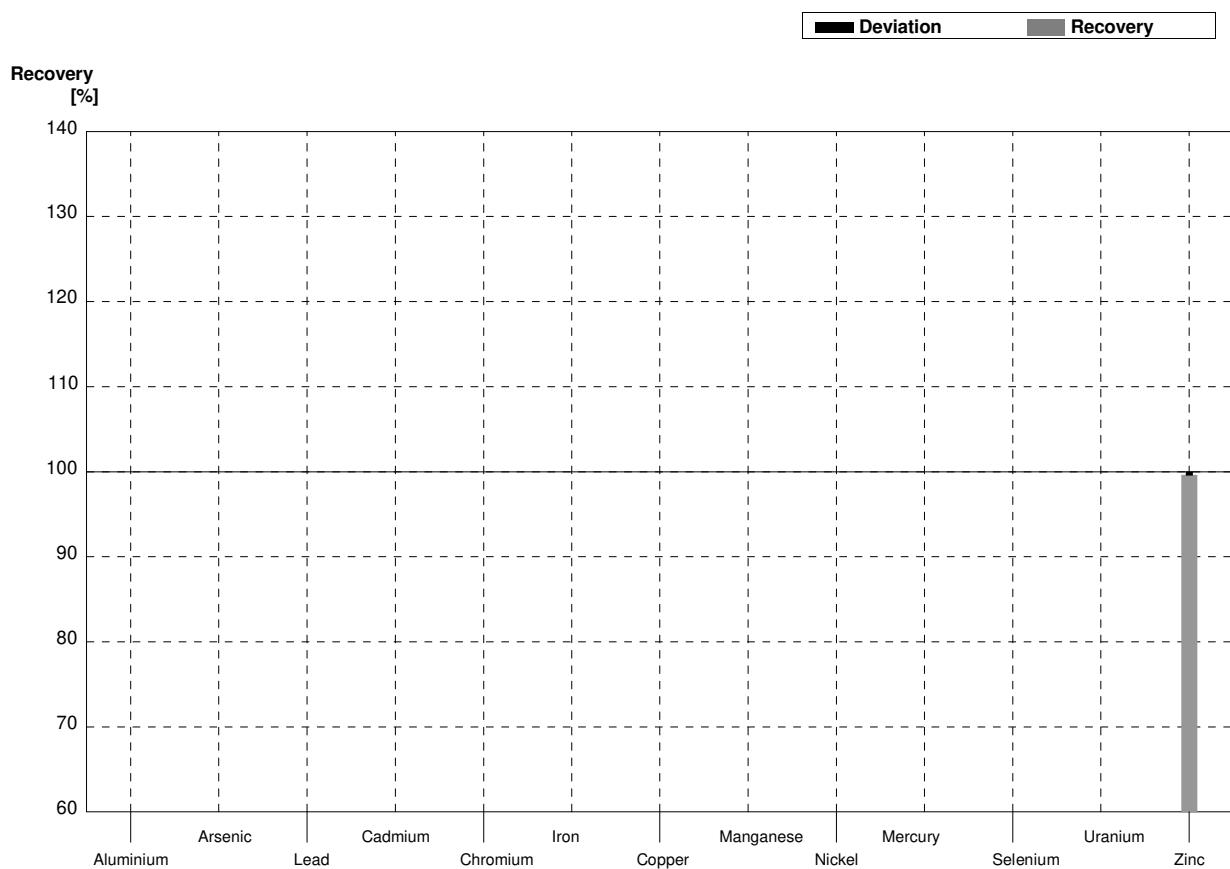
Sample M159A
Laboratory X

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	15,1	1,5	$\mu\text{g/l}$	99%



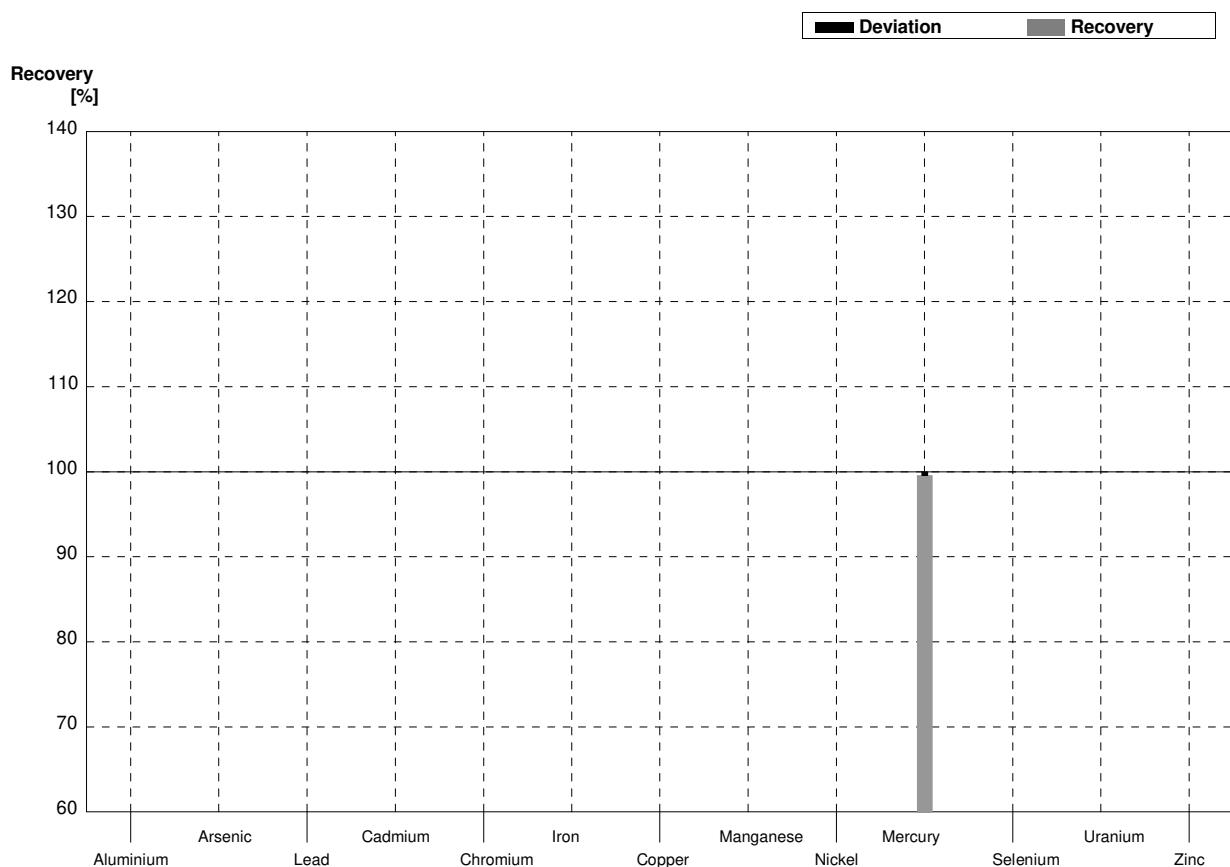
Sample M159B
Laboratory X

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	25,9	2,6	$\mu\text{g/l}$	100%



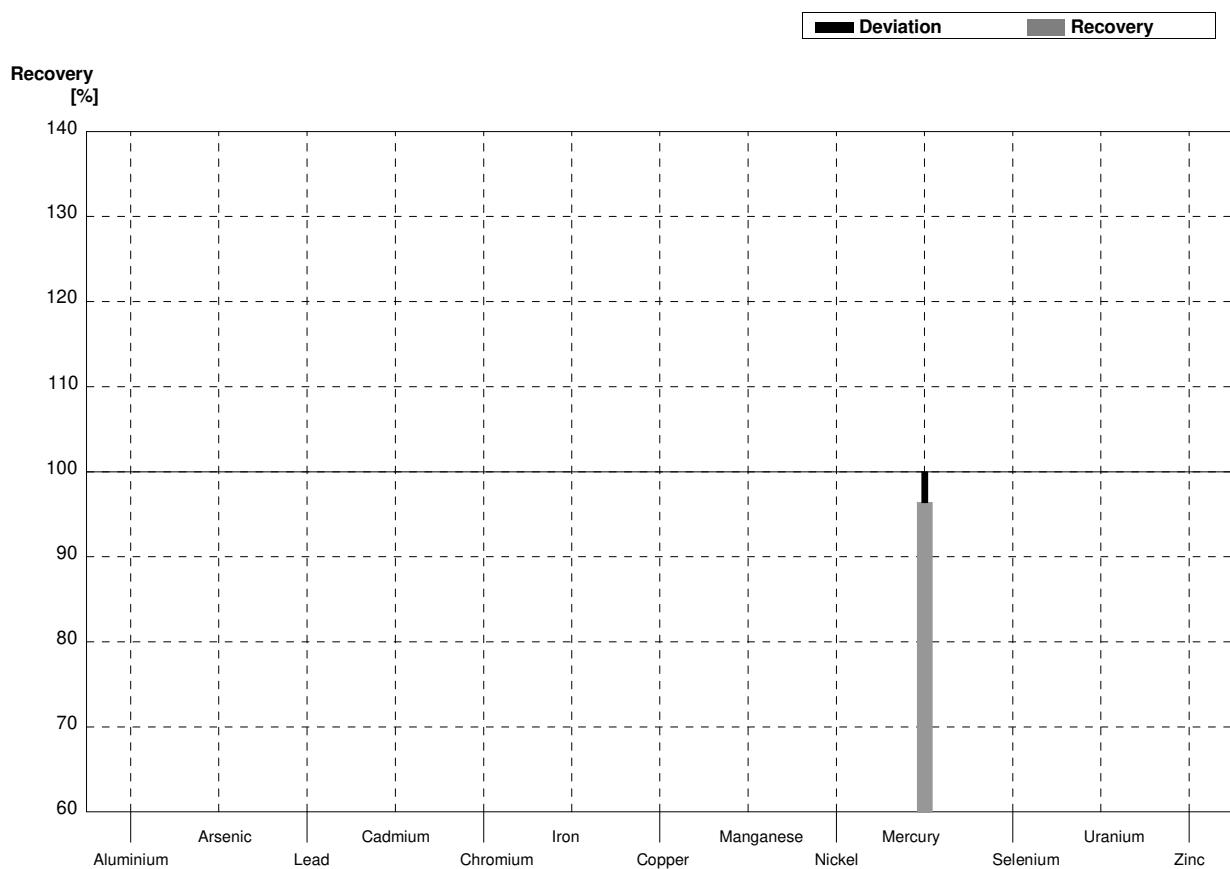
Sample M159A
Laboratory Y

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02	1,195	0,1795	$\mu\text{g/l}$	100%
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9			$\mu\text{g/l}$	



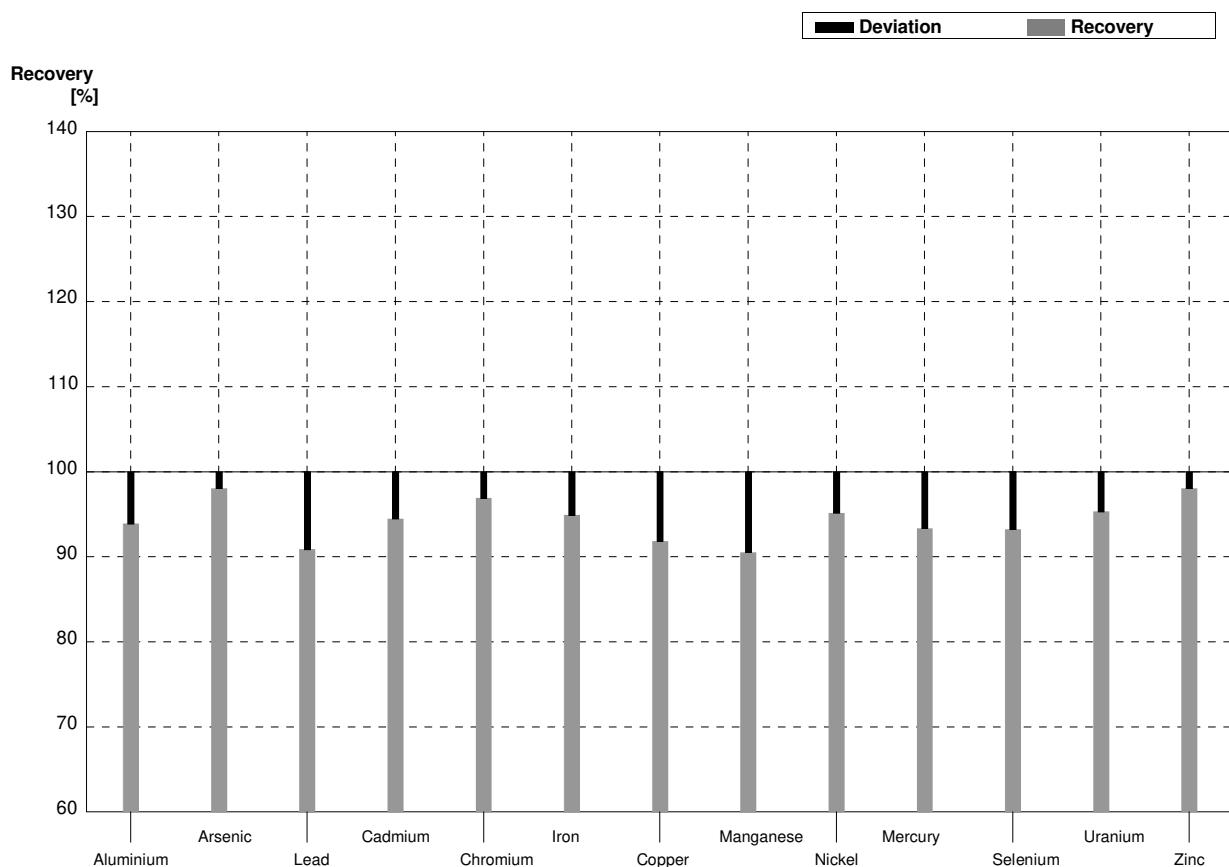
Sample M159B
Laboratory Y

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03	1,658	0,2487	$\mu\text{g/l}$	96%
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9			$\mu\text{g/l}$	



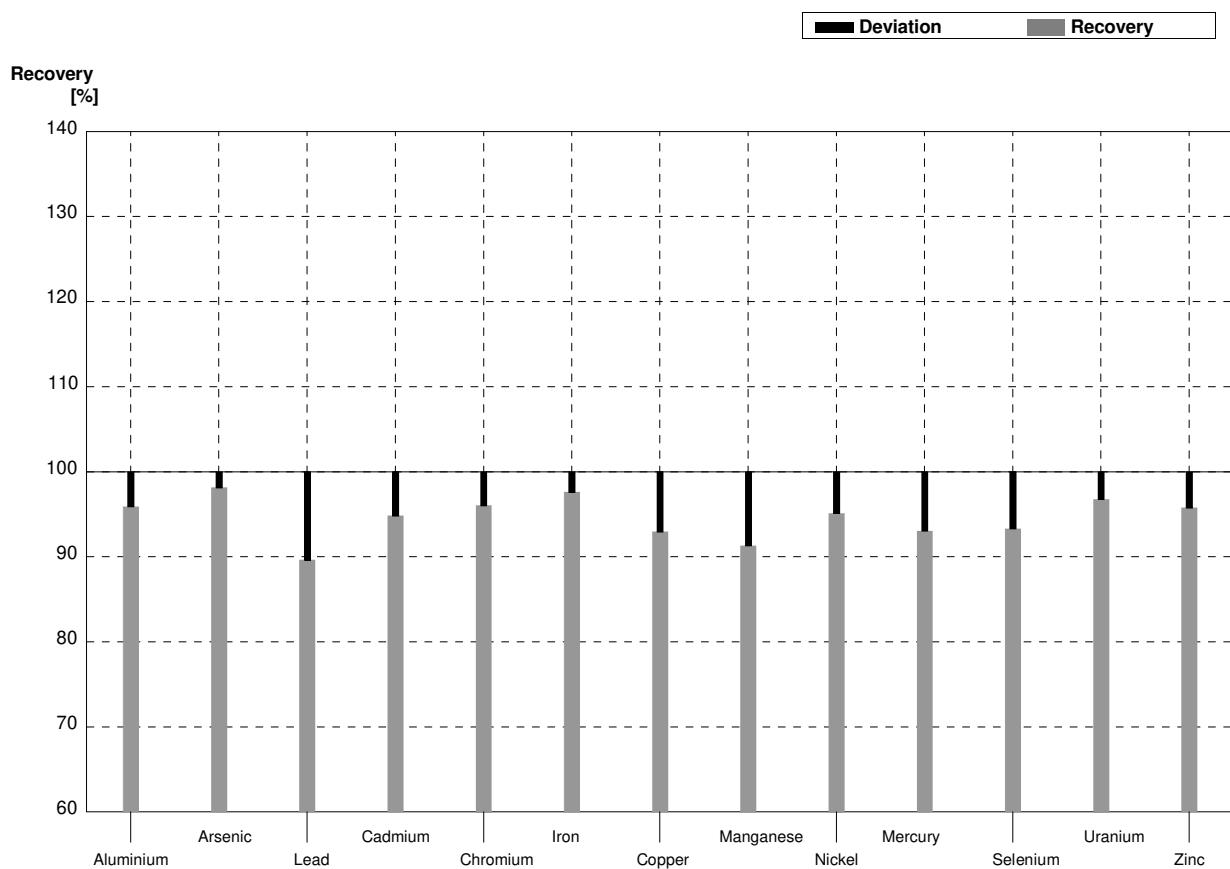
Sample M159A
Laboratory Z

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	46,1	1,5	$\mu\text{g/l}$	94%
Arsenic	3,07	0,02	3,01	0,10	$\mu\text{g/l}$	98%
Lead	3,50	0,03	3,18	0,19	$\mu\text{g/l}$	91%
Cadmium	4,16	0,02	3,93	0,15	$\mu\text{g/l}$	94%
Chromium	1,29	0,01	1,25	0,03	$\mu\text{g/l}$	97%
Iron	45,0	0,3	42,7	1,3	$\mu\text{g/l}$	95%
Copper	6,61	0,04	6,07	0,13	$\mu\text{g/l}$	92%
Manganese	11,6	0,1	10,5	0,6	$\mu\text{g/l}$	91%
Nickel	3,71	0,03	3,53	0,16	$\mu\text{g/l}$	95%
Mercury	1,20	0,02	1,12	0,03	$\mu\text{g/l}$	93%
Selenium	0,398	0,015	0,371	0,020	$\mu\text{g/l}$	93%
Uranium	2,77	0,02	2,64	0,16	$\mu\text{g/l}$	95%
Zinc	15,3	1,9	15,0	0,7	$\mu\text{g/l}$	98%



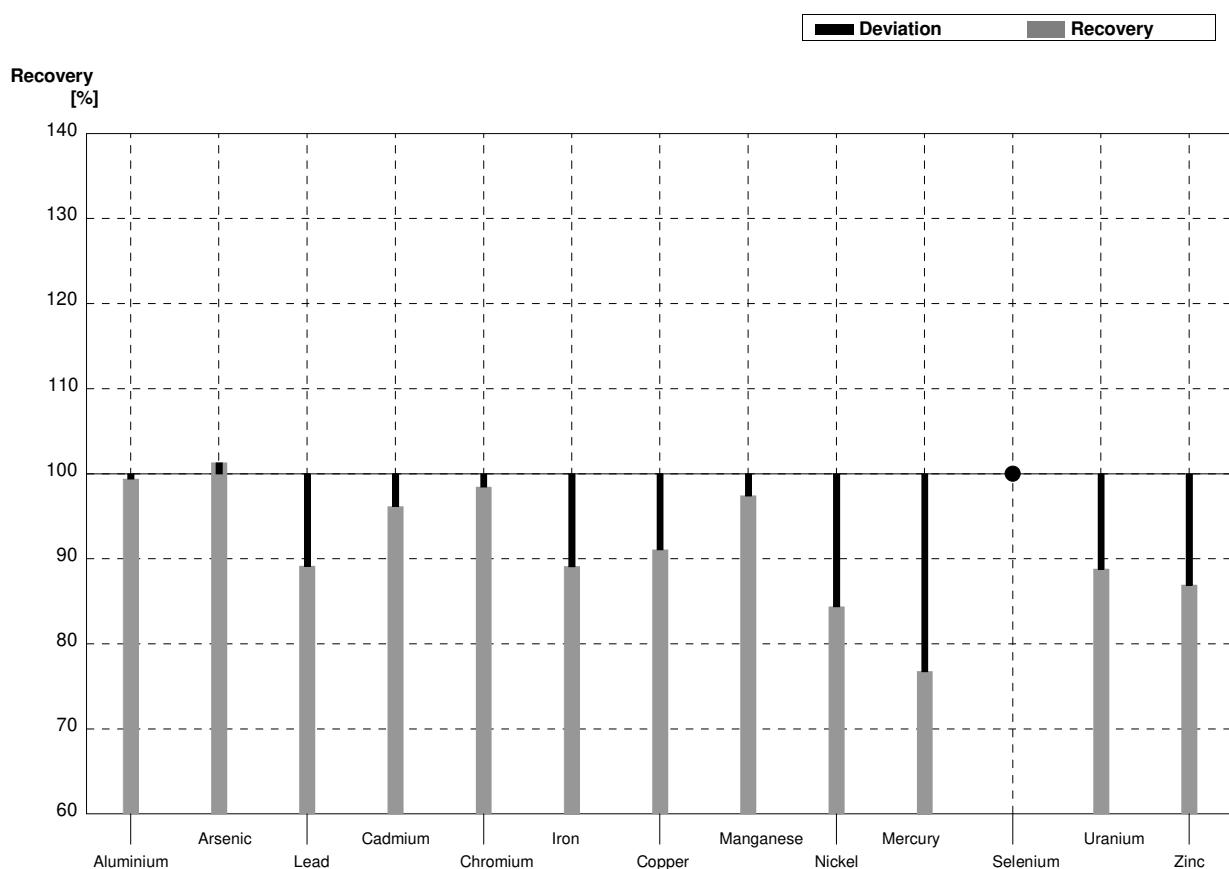
Sample M159B
Laboratory Z

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,7	0,7	$\mu\text{g/l}$	96%
Arsenic	4,27	0,03	4,19	0,14	$\mu\text{g/l}$	98%
Lead	6,55	0,05	5,87	0,32	$\mu\text{g/l}$	90%
Cadmium	1,16	0,01	1,10	0,04	$\mu\text{g/l}$	95%
Chromium	5,28	0,04	5,07	0,21	$\mu\text{g/l}$	96%
Iron	12,5	0,3	12,2	0,5	$\mu\text{g/l}$	98%
Copper	3,11	0,03	2,89	0,11	$\mu\text{g/l}$	93%
Manganese	40,2	0,3	36,7	1,8	$\mu\text{g/l}$	91%
Nickel	5,10	0,04	4,85	0,25	$\mu\text{g/l}$	95%
Mercury	1,72	0,03	1,60	0,02	$\mu\text{g/l}$	93%
Selenium	1,94	0,02	1,81	0,11	$\mu\text{g/l}$	93%
Uranium	4,93	0,04	4,77	0,15	$\mu\text{g/l}$	97%
Zinc	26,0	1,9	24,9	0,7	$\mu\text{g/l}$	96%



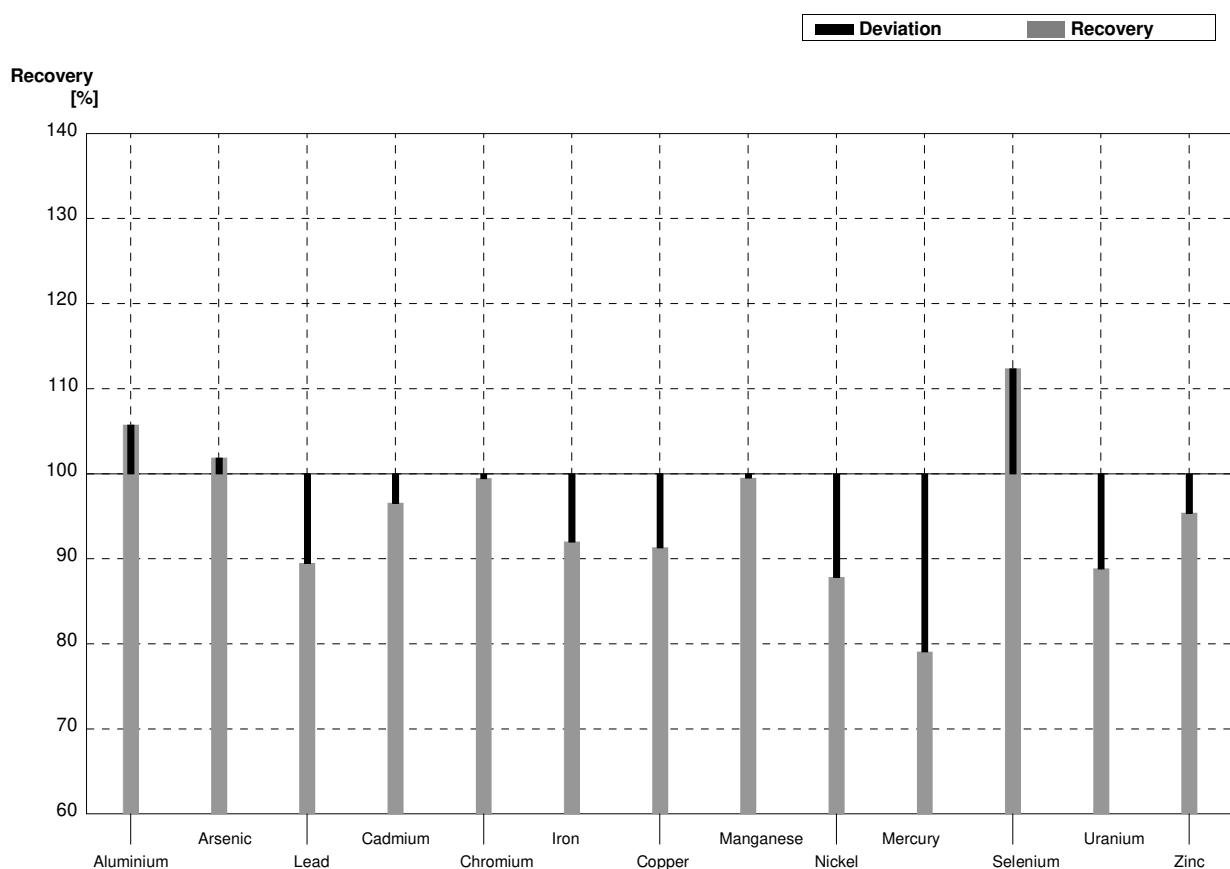
Sample M159A
Laboratory AA

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,8	3,4	$\mu\text{g/l}$	99%
Arsenic	3,07	0,02	3,11	0,25	$\mu\text{g/l}$	101%
Lead	3,50	0,03	3,12	0,19	$\mu\text{g/l}$	89%
Cadmium	4,16	0,02	4,00	0,20	$\mu\text{g/l}$	96%
Chromium	1,29	0,01	1,27	0,06	$\mu\text{g/l}$	98%
Iron	45,0	0,3	40,1	1,6	$\mu\text{g/l}$	89%
Copper	6,61	0,04	6,02	0,30	$\mu\text{g/l}$	91%
Manganese	11,6	0,1	11,3	0,57	$\mu\text{g/l}$	97%
Nickel	3,71	0,03	3,13	0,16	$\mu\text{g/l}$	84%
Mercury	1,20	0,02	0,921	0,046	$\mu\text{g/l}$	77%
Selenium	0,398	0,015	<2		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,46	0,17	$\mu\text{g/l}$	89%
Zinc	15,3	1,9	13,3	0,8	$\mu\text{g/l}$	87%



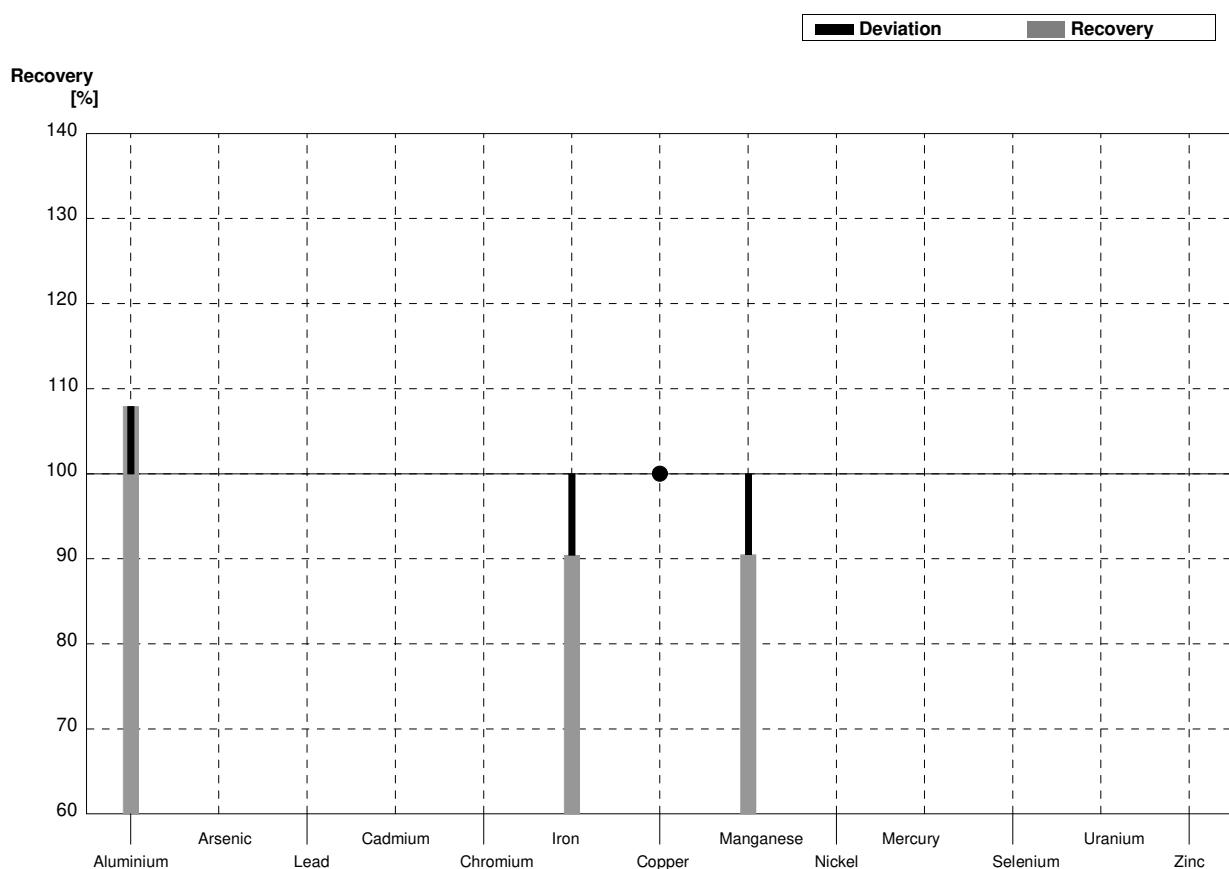
Sample M159B
Laboratory AA

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,9	0,9	$\mu\text{g/l}$	106%
Arsenic	4,27	0,03	4,35	0,35	$\mu\text{g/l}$	102%
Lead	6,55	0,05	5,86	0,35	$\mu\text{g/l}$	89%
Cadmium	1,16	0,01	1,12	0,06	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	5,25	0,26	$\mu\text{g/l}$	99%
Iron	12,5	0,3	11,5	0,5	$\mu\text{g/l}$	92%
Copper	3,11	0,03	2,84	0,14	$\mu\text{g/l}$	91%
Manganese	40,2	0,3	40,0	2,0	$\mu\text{g/l}$	100%
Nickel	5,10	0,04	4,48	0,22	$\mu\text{g/l}$	88%
Mercury	1,72	0,03	1,36	0,07	$\mu\text{g/l}$	79%
Selenium	1,94	0,02	2,18	0,09	$\mu\text{g/l}$	112%
Uranium	4,93	0,04	4,38	0,30	$\mu\text{g/l}$	89%
Zinc	26,0	1,9	24,8	1,5	$\mu\text{g/l}$	95%



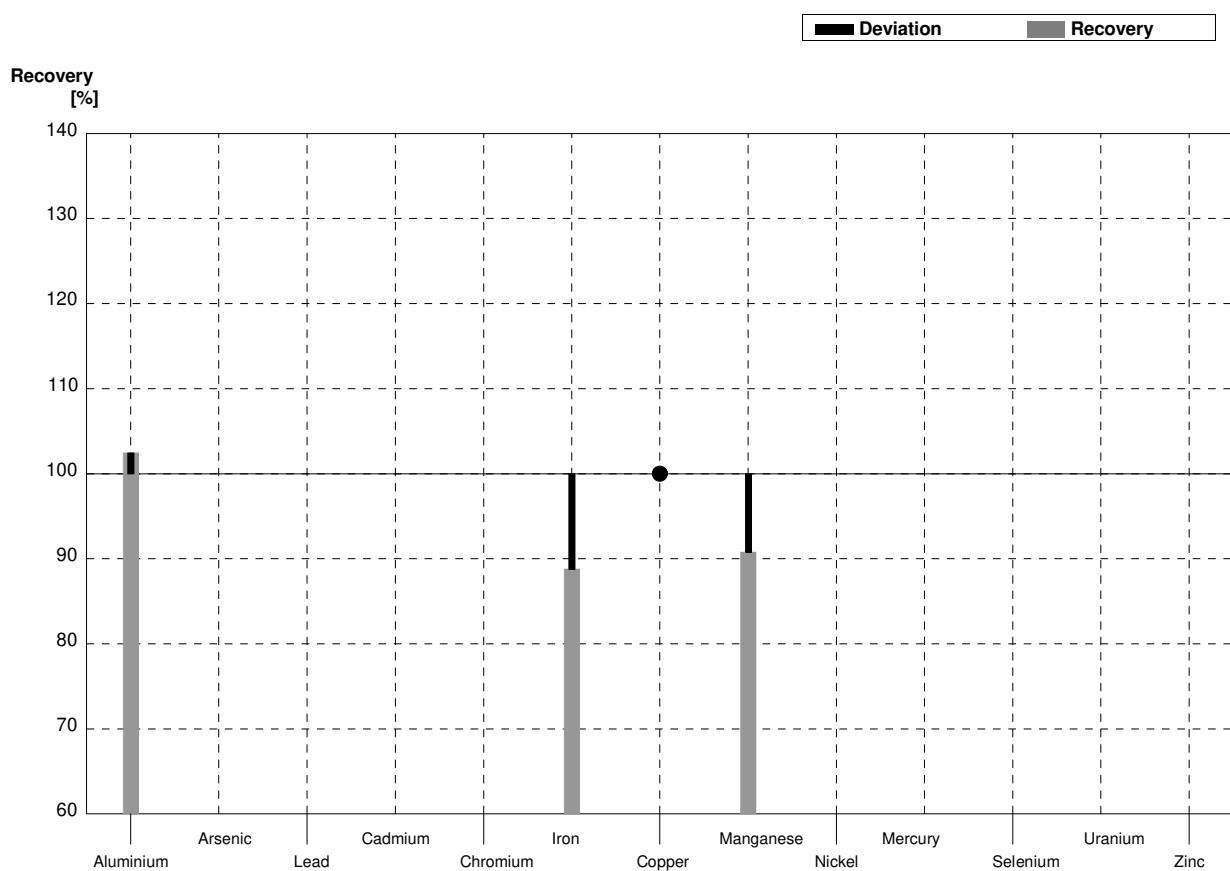
Sample M159A
Laboratory AB

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	53	9	$\mu\text{g/l}$	108%
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3	40,7	7,3	$\mu\text{g/l}$	90%
Copper	6,61	0,04	<10		$\mu\text{g/l}$	•
Manganese	11,6	0,1	10,5	1,9	$\mu\text{g/l}$	91%
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9			$\mu\text{g/l}$	



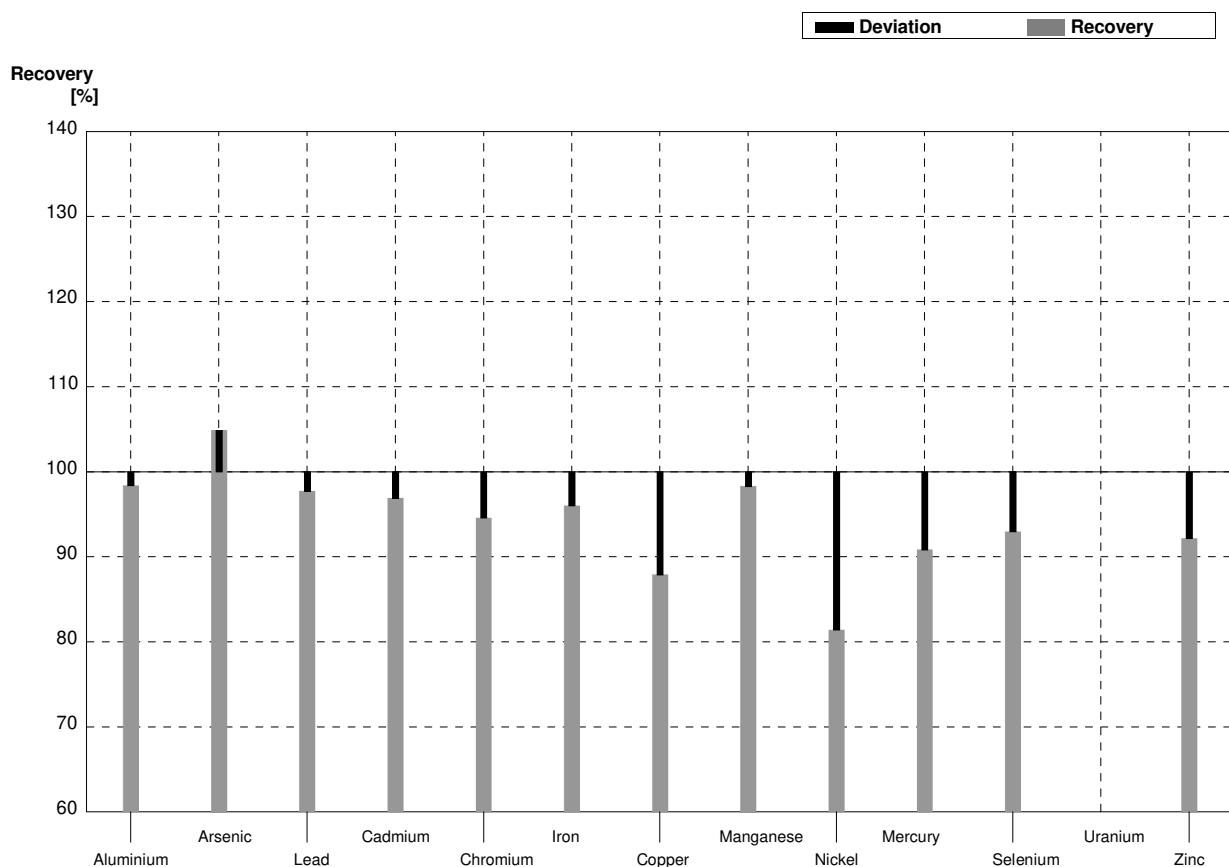
Sample M159B
Laboratory AB

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,5	2,1	$\mu\text{g/l}$	102%
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3	11,1	2,0	$\mu\text{g/l}$	89%
Copper	3,11	0,03	<10		$\mu\text{g/l}$	•
Manganese	40,2	0,3	36,5	6,6	$\mu\text{g/l}$	91%
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9			$\mu\text{g/l}$	



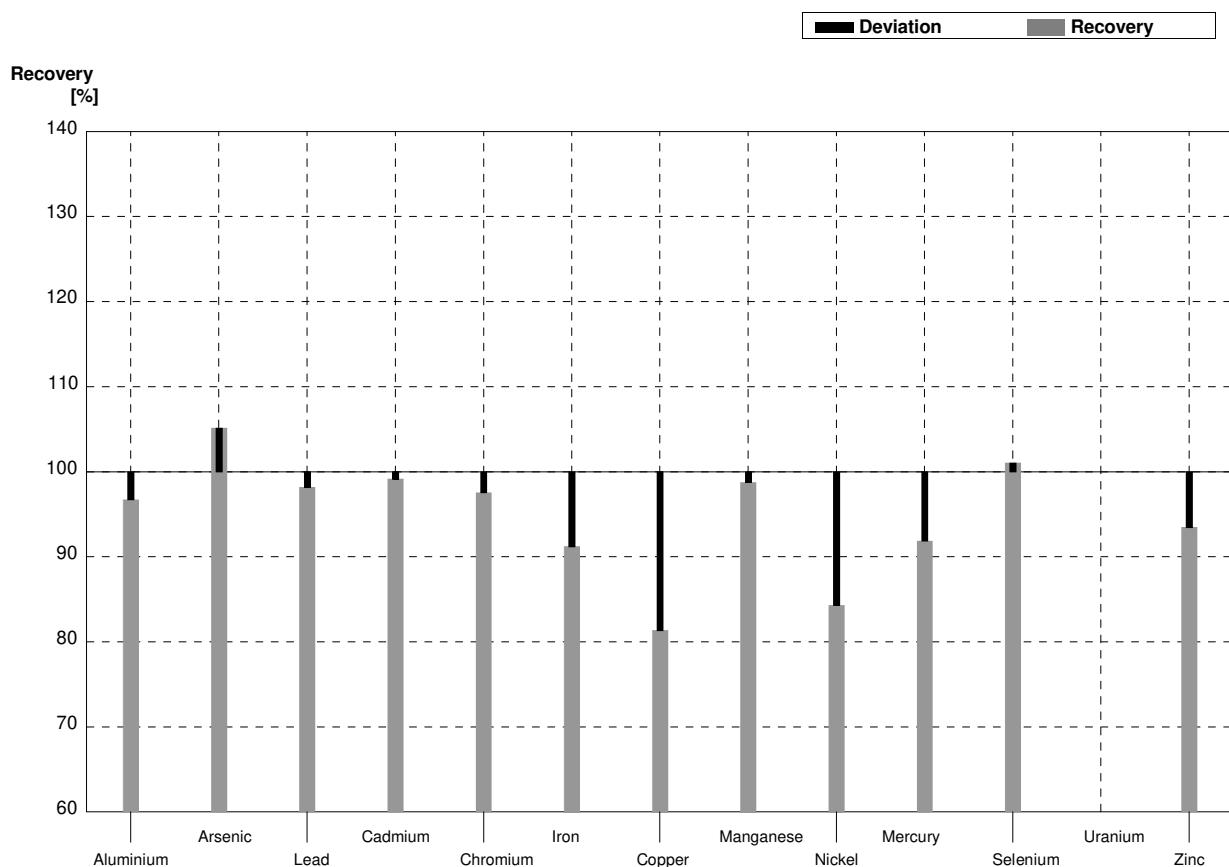
Sample M159A
Laboratory AC

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,3		$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,22		$\mu\text{g/l}$	105%
Lead	3,50	0,03	3,42		$\mu\text{g/l}$	98%
Cadmium	4,16	0,02	4,03		$\mu\text{g/l}$	97%
Chromium	1,29	0,01	1,22		$\mu\text{g/l}$	95%
Iron	45,0	0,3	43,2		$\mu\text{g/l}$	96%
Copper	6,61	0,04	5,81		$\mu\text{g/l}$	88%
Manganese	11,6	0,1	11,4		$\mu\text{g/l}$	98%
Nickel	3,71	0,03	3,02		$\mu\text{g/l}$	81%
Mercury	1,20	0,02	1,09		$\mu\text{g/l}$	91%
Selenium	0,398	0,015	0,37		$\mu\text{g/l}$	93%
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	14,1		$\mu\text{g/l}$	92%



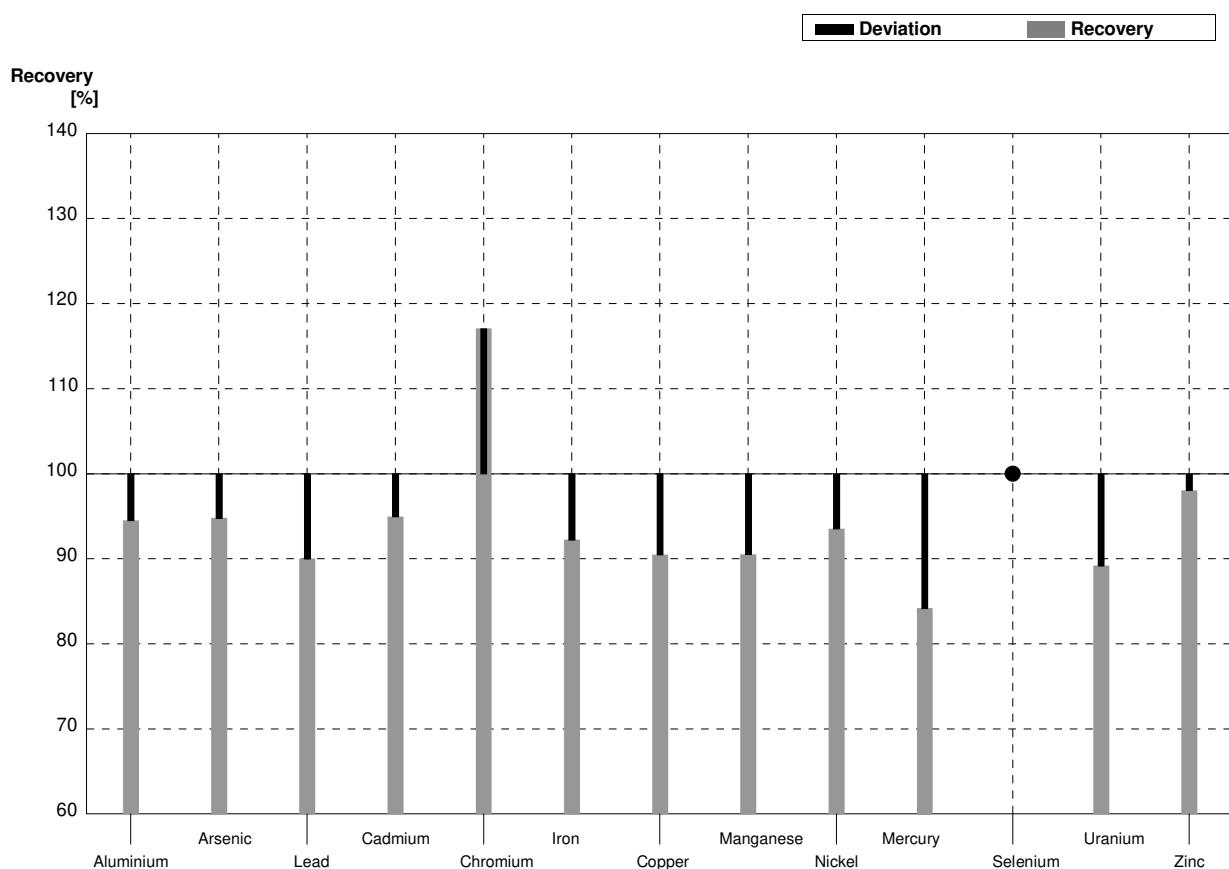
Sample M159B
Laboratory AC

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,8		$\mu\text{g/l}$	97%
Arsenic	4,27	0,03	4,49		$\mu\text{g/l}$	105%
Lead	6,55	0,05	6,43		$\mu\text{g/l}$	98%
Cadmium	1,16	0,01	1,15		$\mu\text{g/l}$	99%
Chromium	5,28	0,04	5,15		$\mu\text{g/l}$	98%
Iron	12,5	0,3	11,4		$\mu\text{g/l}$	91%
Copper	3,11	0,03	2,53		$\mu\text{g/l}$	81%
Manganese	40,2	0,3	39,7		$\mu\text{g/l}$	99%
Nickel	5,10	0,04	4,3		$\mu\text{g/l}$	84%
Mercury	1,72	0,03	1,58		$\mu\text{g/l}$	92%
Selenium	1,94	0,02	1,96		$\mu\text{g/l}$	101%
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	24,3		$\mu\text{g/l}$	93%



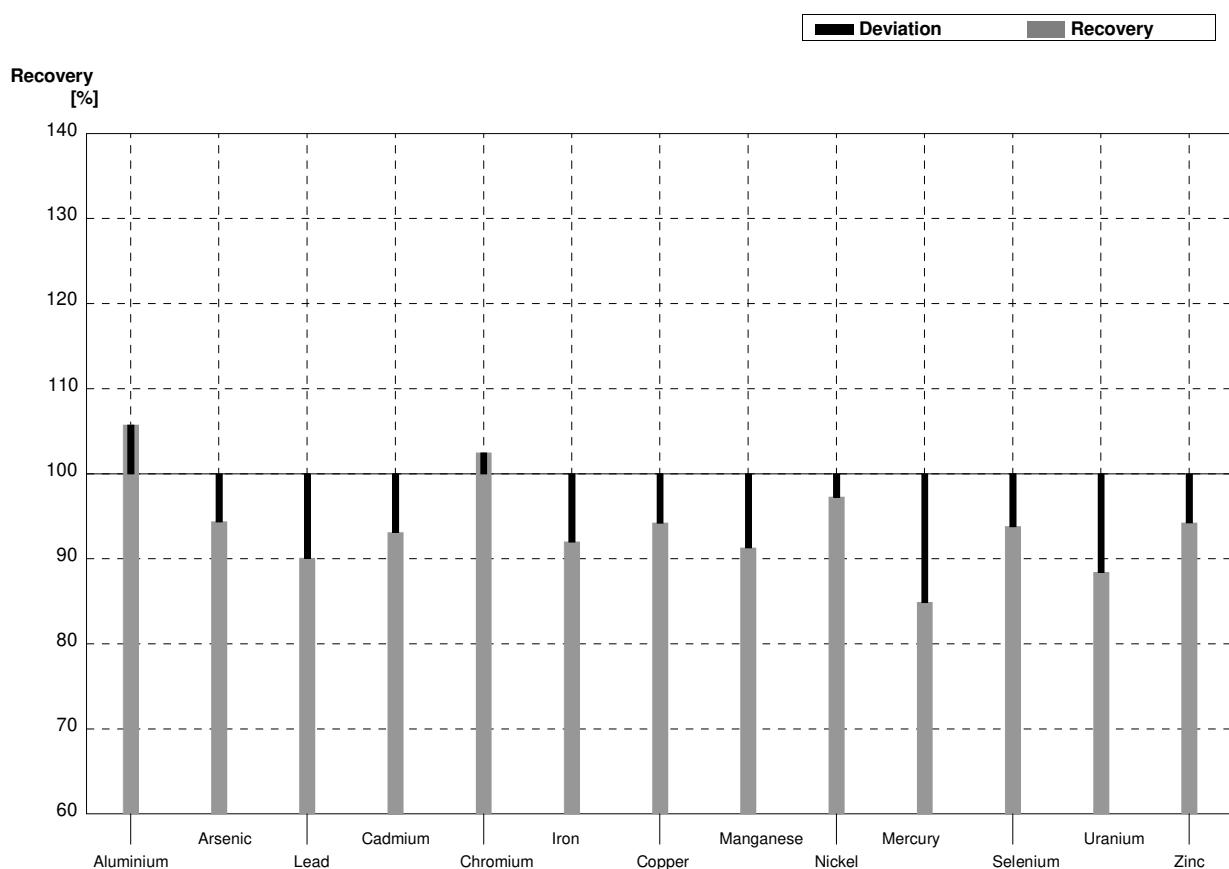
Sample M159A
Laboratory AD

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	46,4	2,6	$\mu\text{g/l}$	95%
Arsenic	3,07	0,02	2,91	0,10	$\mu\text{g/l}$	95%
Lead	3,50	0,03	3,15	0,020	$\mu\text{g/l}$	90%
Cadmium	4,16	0,02	3,95	0,10	$\mu\text{g/l}$	95%
Chromium	1,29	0,01	1,51	0,032	$\mu\text{g/l}$	117%
Iron	45,0	0,3	41,5	0,10	$\mu\text{g/l}$	92%
Copper	6,61	0,04	5,98	0,040	$\mu\text{g/l}$	90%
Manganese	11,6	0,1	10,5	0,058	$\mu\text{g/l}$	91%
Nickel	3,71	0,03	3,47	0,070	$\mu\text{g/l}$	94%
Mercury	1,20	0,02	1,01	0,015	$\mu\text{g/l}$	84%
Selenium	0,398	0,015	<0,440		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,47	0,017	$\mu\text{g/l}$	89%
Zinc	15,3	1,9	15,0	0,058	$\mu\text{g/l}$	98%



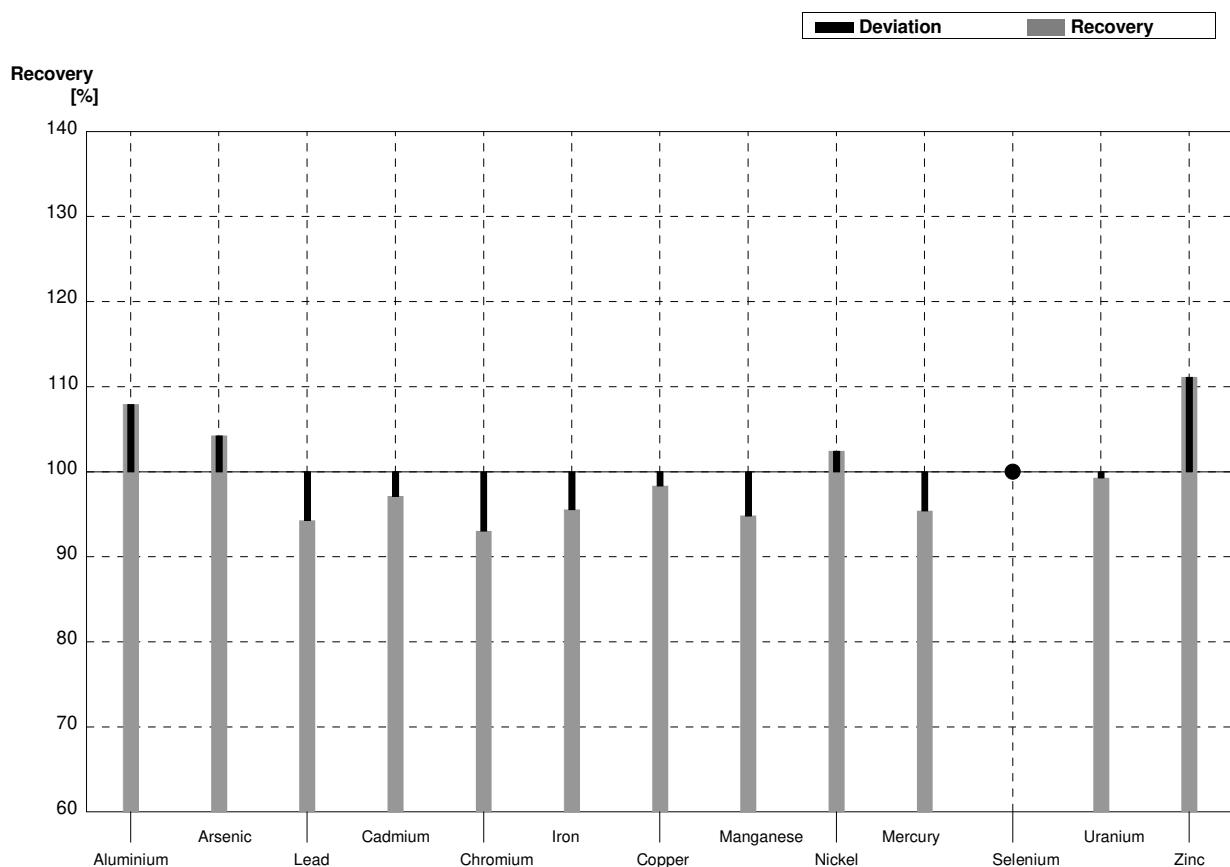
Sample M159B
Laboratory AD

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,9	0,14	$\mu\text{g/l}$	106%
Arsenic	4,27	0,03	4,03	0,20	$\mu\text{g/l}$	94%
Lead	6,55	0,05	5,90	0,076	$\mu\text{g/l}$	90%
Cadmium	1,16	0,01	1,08	0,006	$\mu\text{g/l}$	93%
Chromium	5,28	0,04	5,41	0,16	$\mu\text{g/l}$	102%
Iron	12,5	0,3	11,5	0,15	$\mu\text{g/l}$	92%
Copper	3,11	0,03	2,93	0,042	$\mu\text{g/l}$	94%
Manganese	40,2	0,3	36,7	0,32	$\mu\text{g/l}$	91%
Nickel	5,10	0,04	4,96	0,11	$\mu\text{g/l}$	97%
Mercury	1,72	0,03	1,46	0,017	$\mu\text{g/l}$	85%
Selenium	1,94	0,02	1,82	0,049	$\mu\text{g/l}$	94%
Uranium	4,93	0,04	4,36	0,035	$\mu\text{g/l}$	88%
Zinc	26,0	1,9	24,5	0,25	$\mu\text{g/l}$	94%



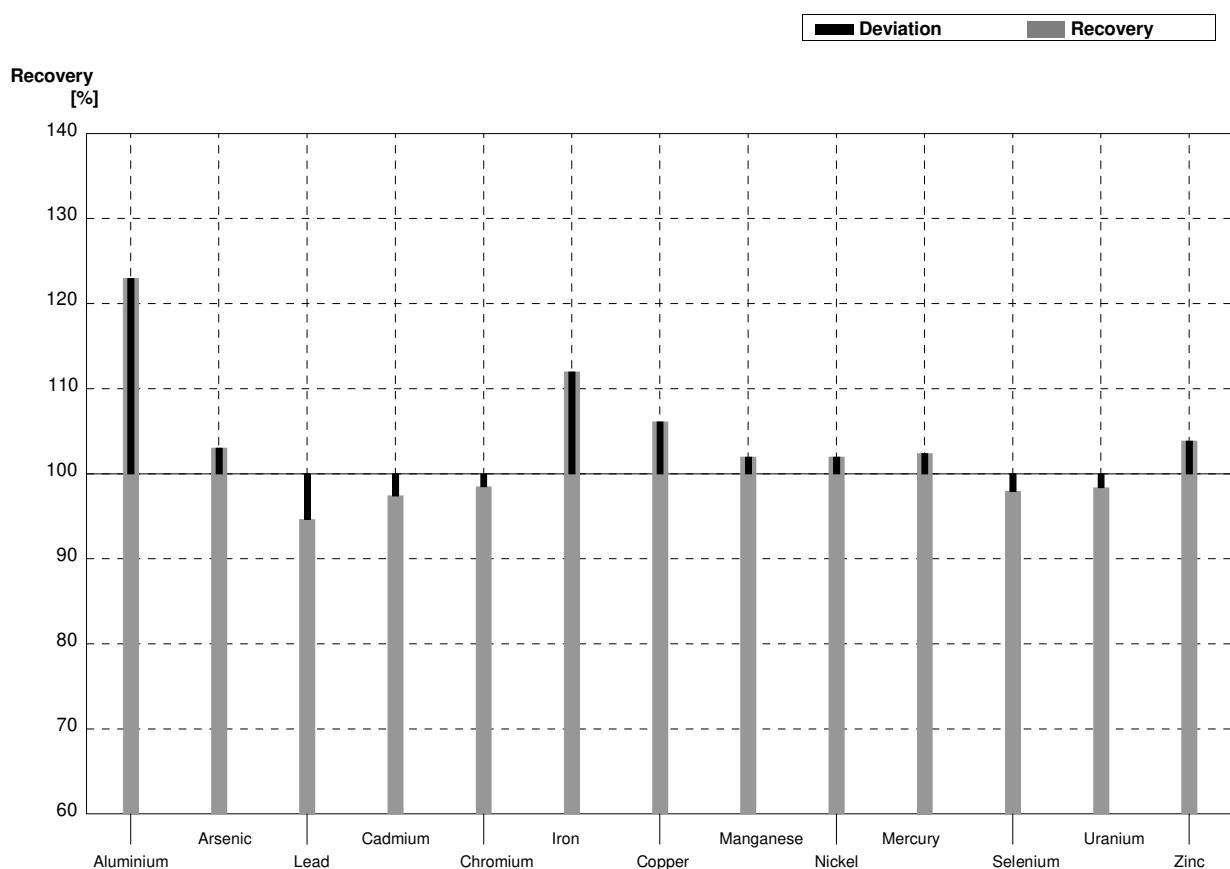
Sample M159A
Laboratory AE

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	53,0000	5,30000	$\mu\text{g/l}$	108%
Arsenic	3,07	0,02	3,2000	0,38400	$\mu\text{g/l}$	104%
Lead	3,50	0,03	3,30000	0,26400	$\mu\text{g/l}$	94%
Cadmium	4,16	0,02	4,04000	0,32320	$\mu\text{g/l}$	97%
Chromium	1,29	0,01	1,20000	0,14400	$\mu\text{g/l}$	93%
Iron	45,0	0,3	43,000	11,1800	$\mu\text{g/l}$	96%
Copper	6,61	0,04	6,5000	0,52000	$\mu\text{g/l}$	98%
Manganese	11,6	0,1	11,000	1,10000	$\mu\text{g/l}$	95%
Nickel	3,71	0,03	3,80000	0,38000	$\mu\text{g/l}$	102%
Mercury	1,20	0,02	1,145	0,17200	$\mu\text{g/l}$	95%
Selenium	0,398	0,015	<0,5000		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,75000	0,13800	$\mu\text{g/l}$	99%
Zinc	15,3	1,9	17,0000	1,70000	$\mu\text{g/l}$	111%



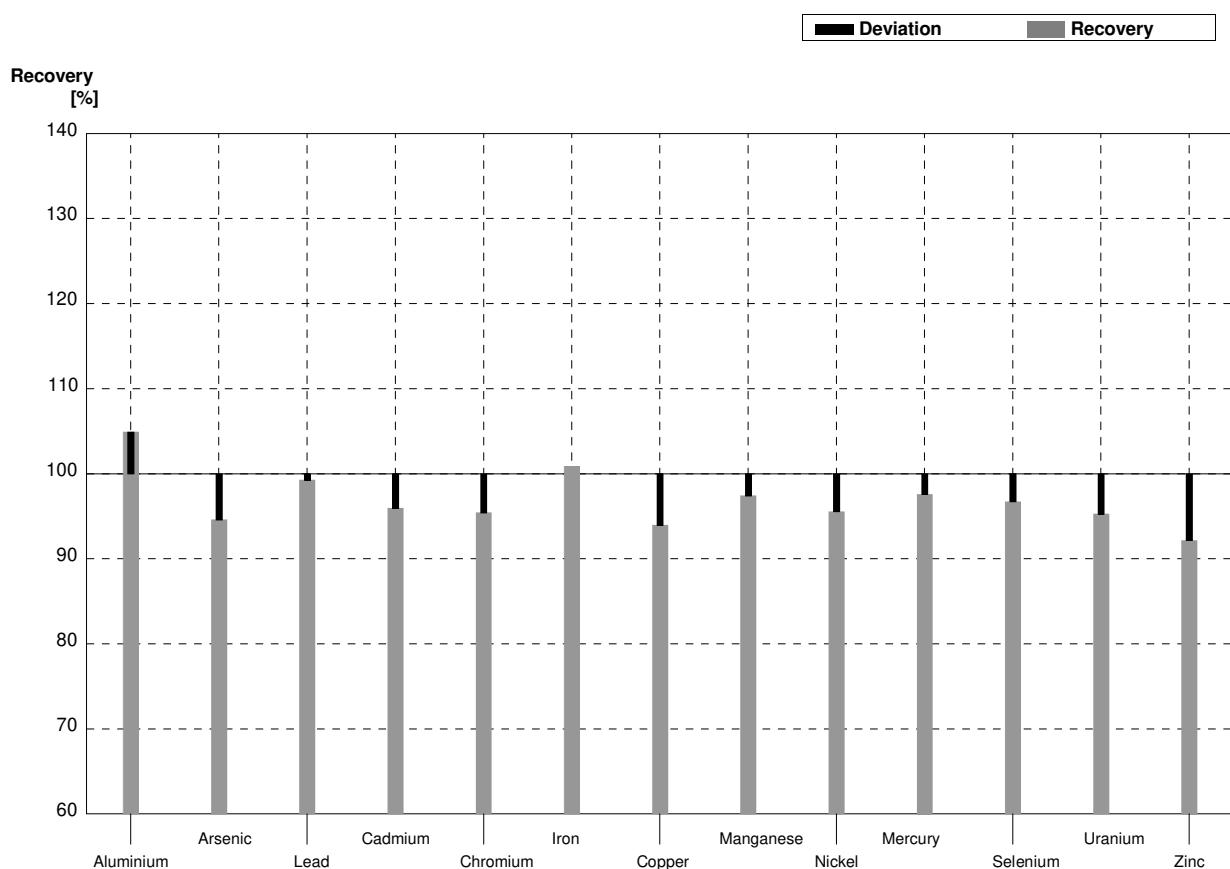
Sample M159B
Laboratory AE

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	15,0000	1,50000	$\mu\text{g/l}$	123%
Arsenic	4,27	0,03	4,40000	0,52800	$\mu\text{g/l}$	103%
Lead	6,55	0,05	6,20000	0,49600	$\mu\text{g/l}$	95%
Cadmium	1,16	0,01	1,13000	0,09040	$\mu\text{g/l}$	97%
Chromium	5,28	0,04	5,20000	0,62400	$\mu\text{g/l}$	98%
Iron	12,5	0,3	14,0000	3,64000	$\mu\text{g/l}$	112%
Copper	3,11	0,03	3,30000	0,26400	$\mu\text{g/l}$	106%
Manganese	40,2	0,3	41,0000	4,1000	$\mu\text{g/l}$	102%
Nickel	5,10	0,04	5,20000	0,52000	$\mu\text{g/l}$	102%
Mercury	1,72	0,03	1,76100	0,26400	$\mu\text{g/l}$	102%
Selenium	1,94	0,02	1,90000	0,28500	$\mu\text{g/l}$	98%
Uranium	4,93	0,04	4,85000	0,24300	$\mu\text{g/l}$	98%
Zinc	26,0	1,9	27,0000	2,70000	$\mu\text{g/l}$	104%



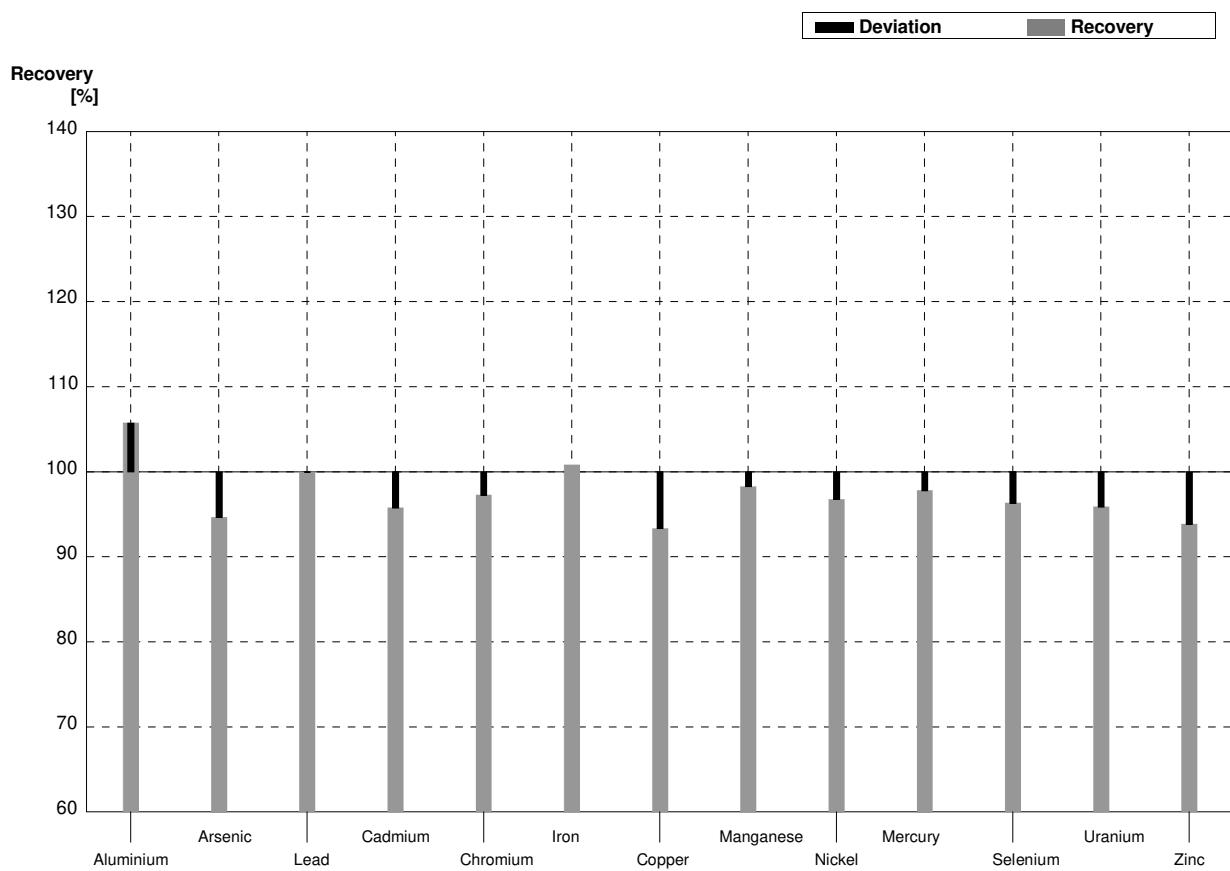
Sample M159A
Laboratory AF

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	51,5	5,2	$\mu\text{g/l}$	105%
Arsenic	3,07	0,02	2,904	0,29	$\mu\text{g/l}$	95%
Lead	3,50	0,03	3,474	0,35	$\mu\text{g/l}$	99%
Cadmium	4,16	0,02	3,992	0,4	$\mu\text{g/l}$	96%
Chromium	1,29	0,01	1,231	0,12	$\mu\text{g/l}$	95%
Iron	45,0	0,3	45,4	4,5	$\mu\text{g/l}$	101%
Copper	6,61	0,04	6,210	0,62	$\mu\text{g/l}$	94%
Manganese	11,6	0,1	11,3	1,1	$\mu\text{g/l}$	97%
Nickel	3,71	0,03	3,545	0,36	$\mu\text{g/l}$	96%
Mercury	1,20	0,02	1,171	0,12	$\mu\text{g/l}$	98%
Selenium	0,398	0,015	0,385	0,04	$\mu\text{g/l}$	97%
Uranium	2,77	0,02	2,639	0,26	$\mu\text{g/l}$	95%
Zinc	15,3	1,9	14,1	1,4	$\mu\text{g/l}$	92%



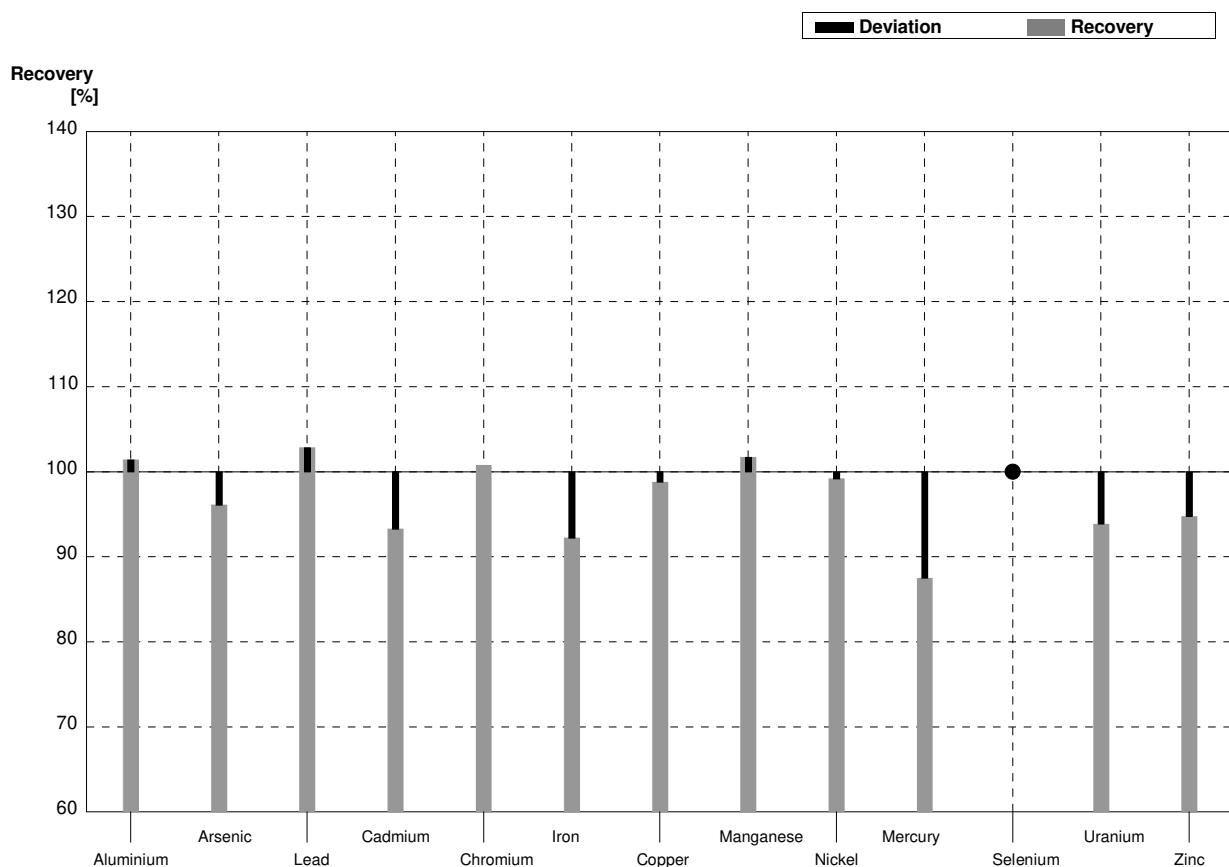
Sample M159B
Laboratory AF

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,9	1,3	$\mu\text{g/l}$	106%
Arsenic	4,27	0,03	4,042	0,4	$\mu\text{g/l}$	95%
Lead	6,55	0,05	6,548	0,66	$\mu\text{g/l}$	100%
Cadmium	1,16	0,01	1,111	0,11	$\mu\text{g/l}$	96%
Chromium	5,28	0,04	5,135	0,51	$\mu\text{g/l}$	97%
Iron	12,5	0,3	12,6	1,26	$\mu\text{g/l}$	101%
Copper	3,11	0,03	2,903	0,29	$\mu\text{g/l}$	93%
Manganese	40,2	0,3	39,5	4	$\mu\text{g/l}$	98%
Nickel	5,10	0,04	4,935	0,49	$\mu\text{g/l}$	97%
Mercury	1,72	0,03	1,682	0,17	$\mu\text{g/l}$	98%
Selenium	1,94	0,02	1,869	0,19	$\mu\text{g/l}$	96%
Uranium	4,93	0,04	4,727	0,47	$\mu\text{g/l}$	96%
Zinc	26,0	1,9	24,4	2,5	$\mu\text{g/l}$	94%



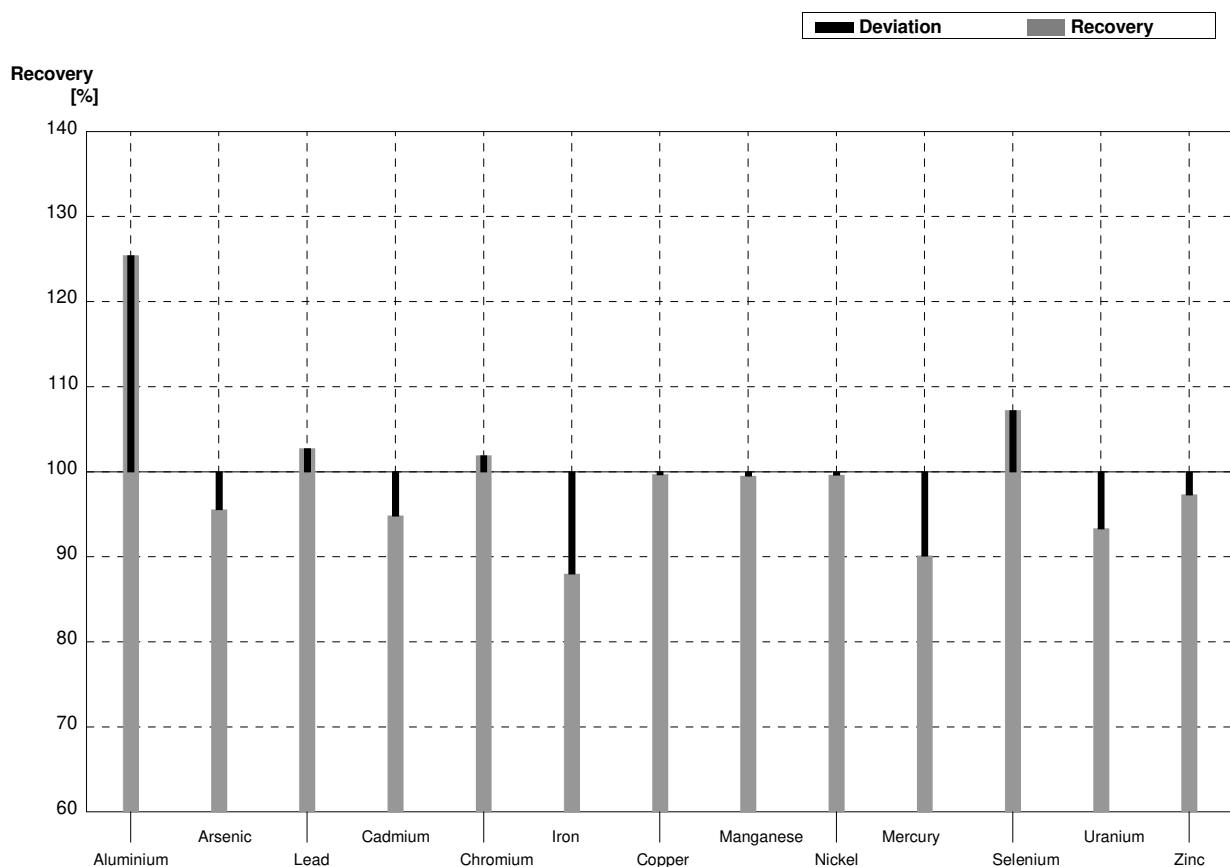
Sample M159A
Laboratory AG

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	49,8	10	$\mu\text{g/l}$	101%
Arsenic	3,07	0,02	2,95	0,59	$\mu\text{g/l}$	96%
Lead	3,50	0,03	3,60	0,72	$\mu\text{g/l}$	103%
Cadmium	4,16	0,02	3,88	0,88	$\mu\text{g/l}$	93%
Chromium	1,29	0,01	1,30	0,26	$\mu\text{g/l}$	101%
Iron	45,0	0,3	41,5	8,3	$\mu\text{g/l}$	92%
Copper	6,61	0,04	6,53	1,3	$\mu\text{g/l}$	99%
Manganese	11,6	0,1	11,8	2,4	$\mu\text{g/l}$	102%
Nickel	3,71	0,03	3,68	0,74	$\mu\text{g/l}$	99%
Mercury	1,20	0,02	1,05	0,21	$\mu\text{g/l}$	88%
Selenium	0,398	0,015	<1		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,60	0,52	$\mu\text{g/l}$	94%
Zinc	15,3	1,9	14,5	2,9	$\mu\text{g/l}$	95%



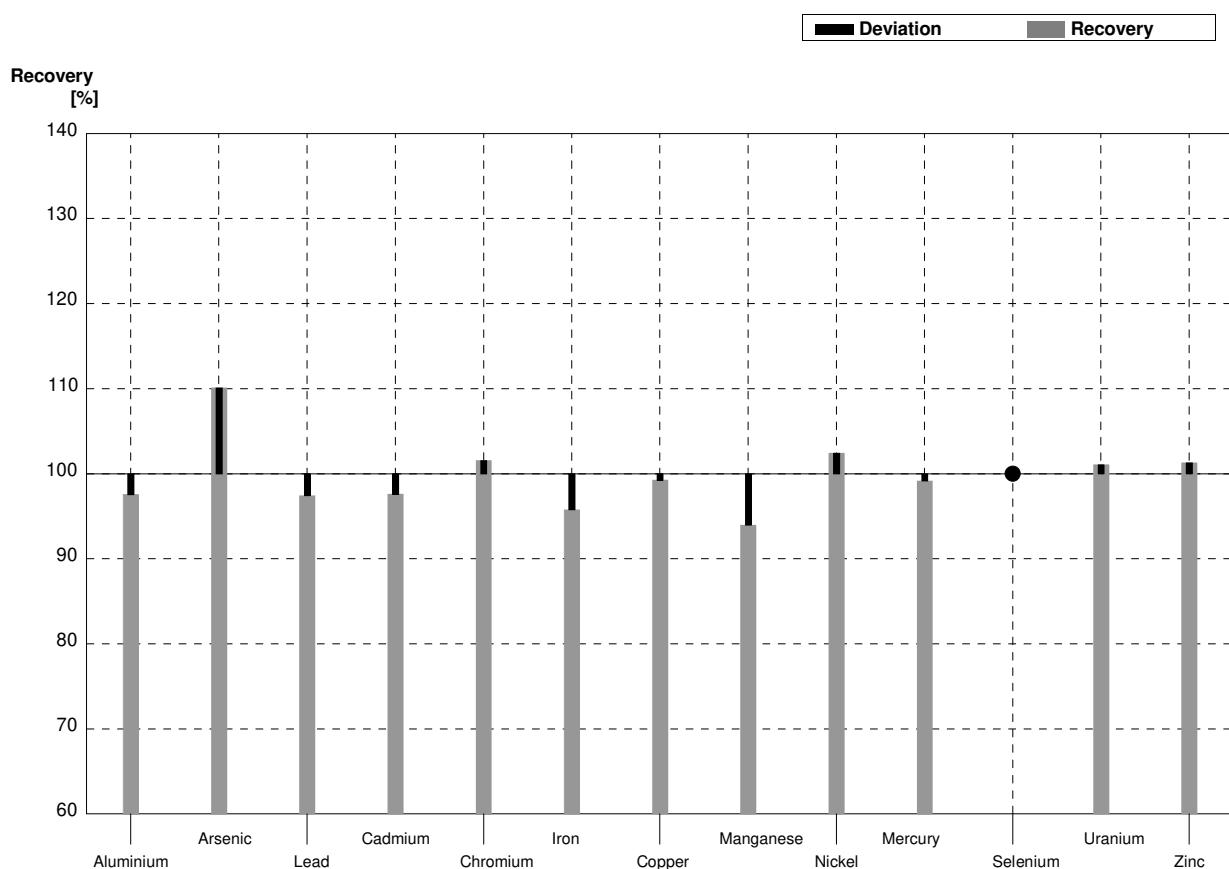
Sample M159B
Laboratory AG

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	15,3	3,1	$\mu\text{g/l}$	125%
Arsenic	4,27	0,03	4,08	0,82	$\mu\text{g/l}$	96%
Lead	6,55	0,05	6,73	1,35	$\mu\text{g/l}$	103%
Cadmium	1,16	0,01	1,10	0,22	$\mu\text{g/l}$	95%
Chromium	5,28	0,04	5,38	1,1	$\mu\text{g/l}$	102%
Iron	12,5	0,3	11,0	2,2	$\mu\text{g/l}$	88%
Copper	3,11	0,03	3,10	0,62	$\mu\text{g/l}$	100%
Manganese	40,2	0,3	40,0	8,0	$\mu\text{g/l}$	100%
Nickel	5,10	0,04	5,08	1,0	$\mu\text{g/l}$	100%
Mercury	1,72	0,03	1,55	0,31	$\mu\text{g/l}$	90%
Selenium	1,94	0,02	2,08	0,42	$\mu\text{g/l}$	107%
Uranium	4,93	0,04	4,60	0,92	$\mu\text{g/l}$	93%
Zinc	26,0	1,9	25,3	5,1	$\mu\text{g/l}$	97%



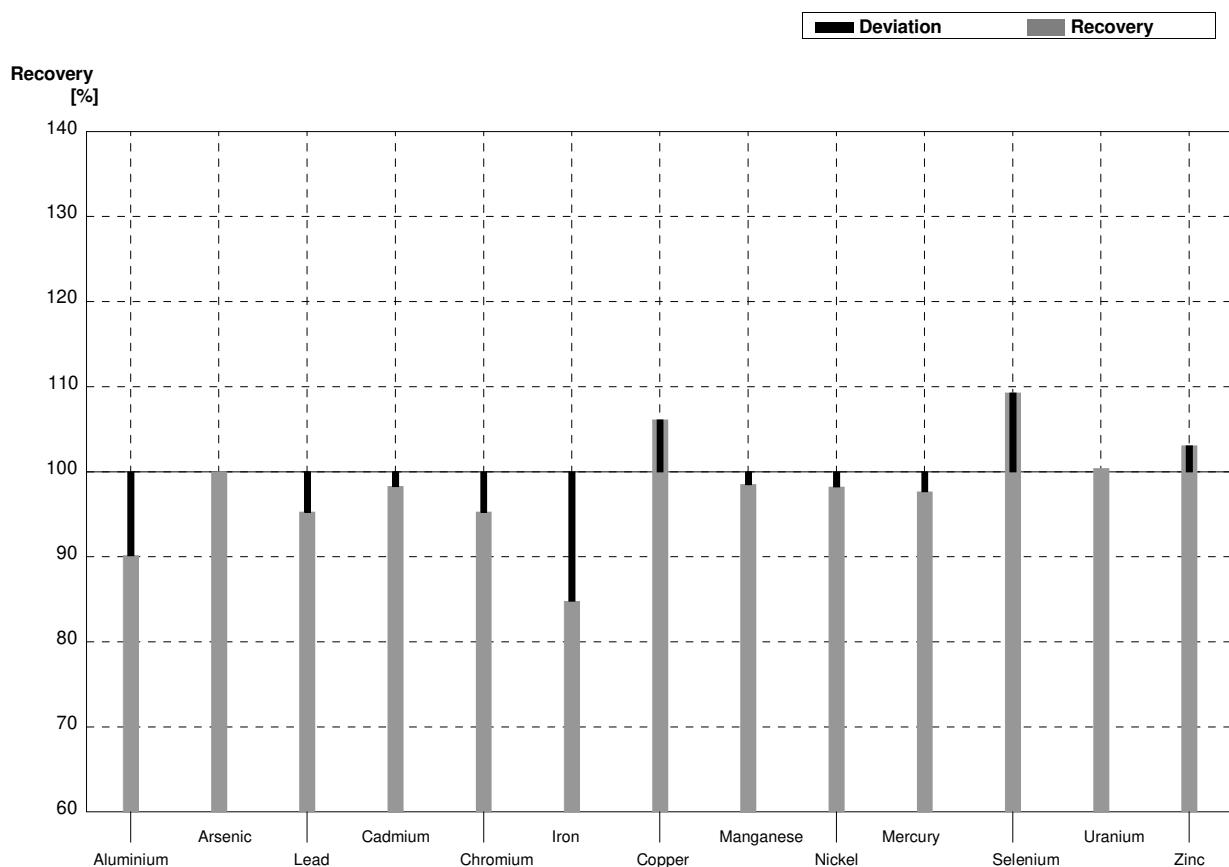
Sample M159A
Laboratory AH

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	47,9	0,813	$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,38	0,222	$\mu\text{g/l}$	110%
Lead	3,50	0,03	3,41	0,0697	$\mu\text{g/l}$	97%
Cadmium	4,16	0,02	4,06	0,143	$\mu\text{g/l}$	98%
Chromium	1,29	0,01	1,31	0,169	$\mu\text{g/l}$	102%
Iron	45,0	0,3	43,1	0,260	$\mu\text{g/l}$	96%
Copper	6,61	0,04	6,56	0,0610	$\mu\text{g/l}$	99%
Manganese	11,6	0,1	10,9	1,17	$\mu\text{g/l}$	94%
Nickel	3,71	0,03	3,80	0,123	$\mu\text{g/l}$	102%
Mercury	1,20	0,02	1,19	0,0322	$\mu\text{g/l}$	99%
Selenium	0,398	0,015	<1,00		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,80	0,0774	$\mu\text{g/l}$	101%
Zinc	15,3	1,9	15,5	0,372	$\mu\text{g/l}$	101%



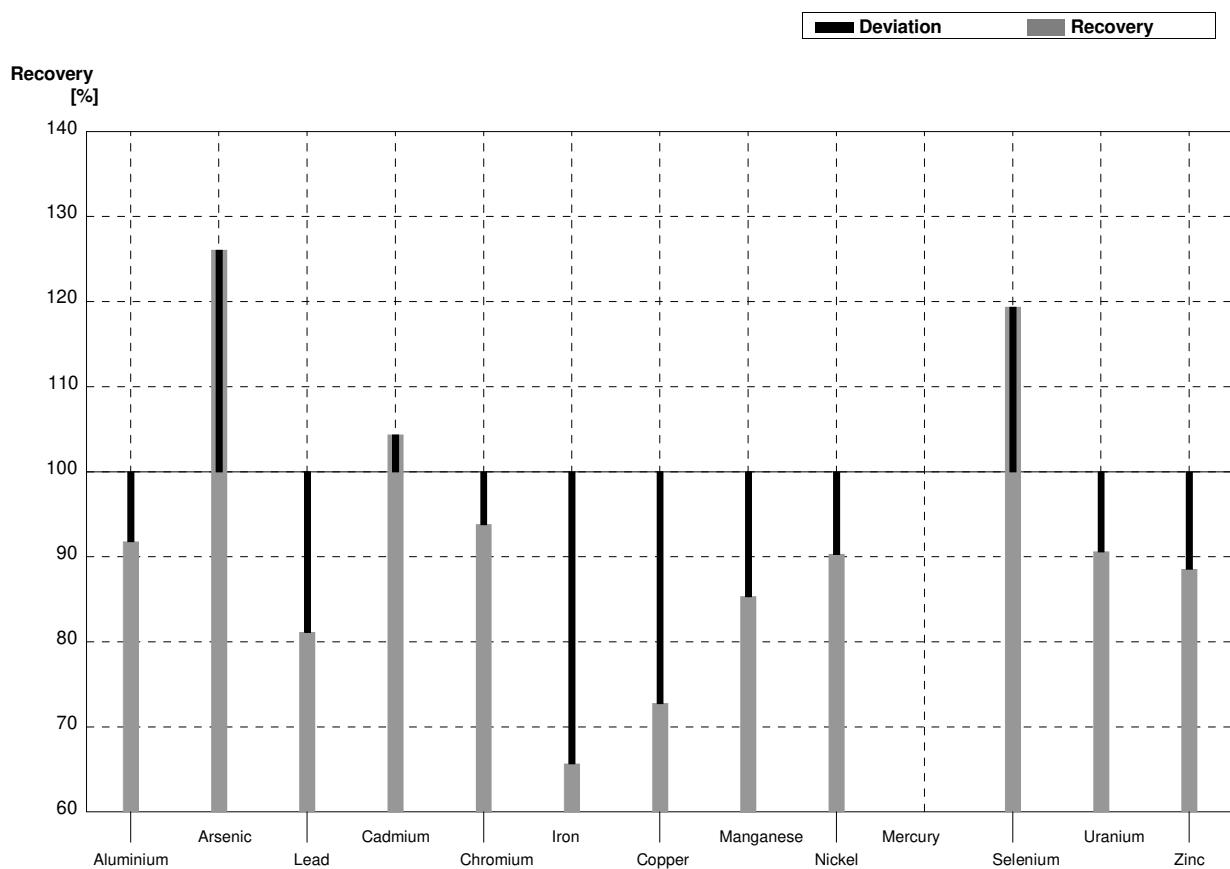
Sample M159B
Laboratory AH

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,0	0,956	$\mu\text{g/l}$	90%
Arsenic	4,27	0,03	4,27	0,216	$\mu\text{g/l}$	100%
Lead	6,55	0,05	6,24	0,0872	$\mu\text{g/l}$	95%
Cadmium	1,16	0,01	1,14	0,144	$\mu\text{g/l}$	98%
Chromium	5,28	0,04	5,03	0,140	$\mu\text{g/l}$	95%
Iron	12,5	0,3	10,6	0,302	$\mu\text{g/l}$	85%
Copper	3,11	0,03	3,30	0,0618	$\mu\text{g/l}$	106%
Manganese	40,2	0,3	39,6	0,985	$\mu\text{g/l}$	99%
Nickel	5,10	0,04	5,01	0,120	$\mu\text{g/l}$	98%
Mercury	1,72	0,03	1,68	0,0338	$\mu\text{g/l}$	98%
Selenium	1,94	0,02	2,12	0,139	$\mu\text{g/l}$	109%
Uranium	4,93	0,04	4,95	0,0724	$\mu\text{g/l}$	100%
Zinc	26,0	1,9	26,8	0,342	$\mu\text{g/l}$	103%



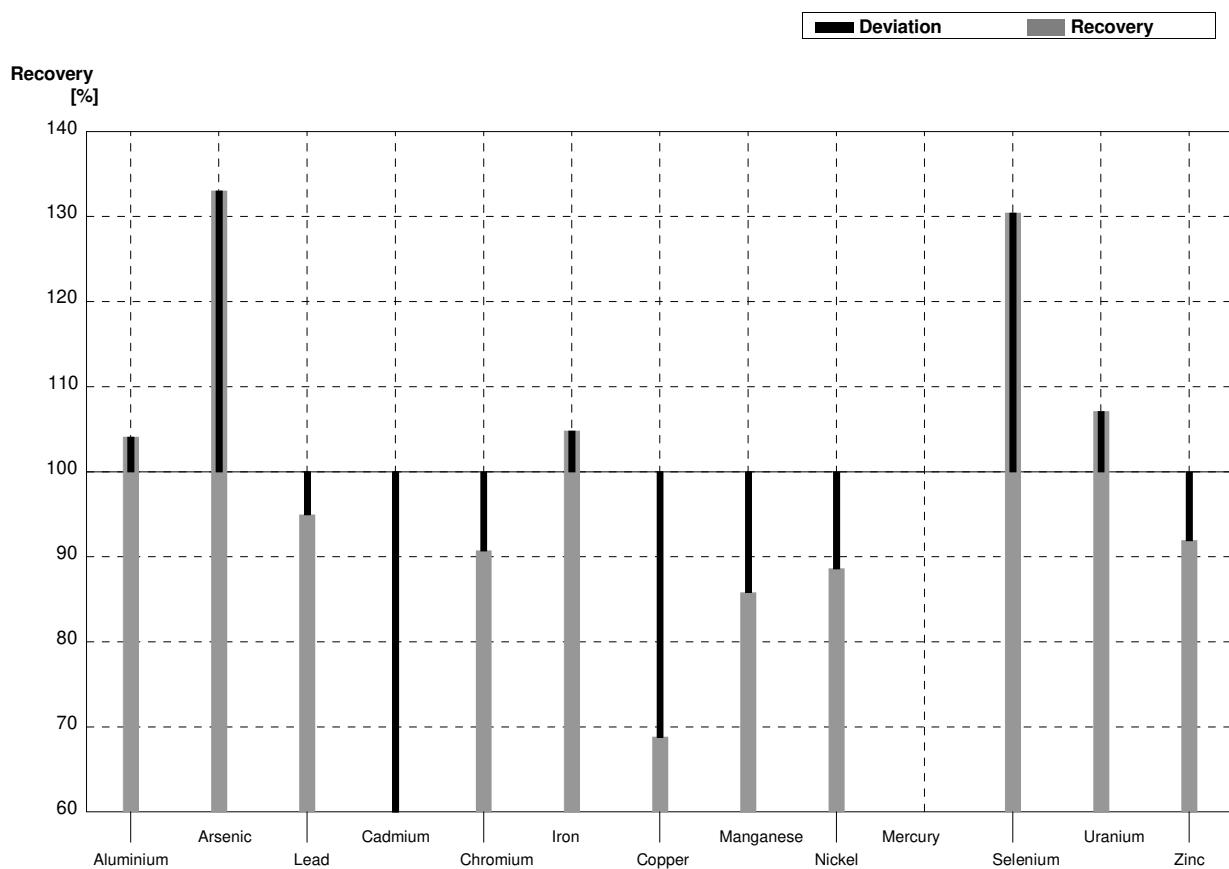
Sample M159A
Laboratory Al

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	45,07	1	$\mu\text{g/l}$	92%
Arsenic	3,07	0,02	3,87	0,8	$\mu\text{g/l}$	126%
Lead	3,50	0,03	2,84	0,6	$\mu\text{g/l}$	81%
Cadmium	4,16	0,02	4,34	0,5	$\mu\text{g/l}$	104%
Chromium	1,29	0,01	1,21	0,8	$\mu\text{g/l}$	94%
Iron	45,0	0,3	29,56	2	$\mu\text{g/l}$	66%
Copper	6,61	0,04	4,81	0,5	$\mu\text{g/l}$	73%
Manganese	11,6	0,1	9,9	0,3	$\mu\text{g/l}$	85%
Nickel	3,71	0,03	3,35	0,1	$\mu\text{g/l}$	90%
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015	0,475	0,1	$\mu\text{g/l}$	119%
Uranium	2,77	0,02	2,51	0,4	$\mu\text{g/l}$	91%
Zinc	15,3	1,9	13,55	0,5	$\mu\text{g/l}$	89%



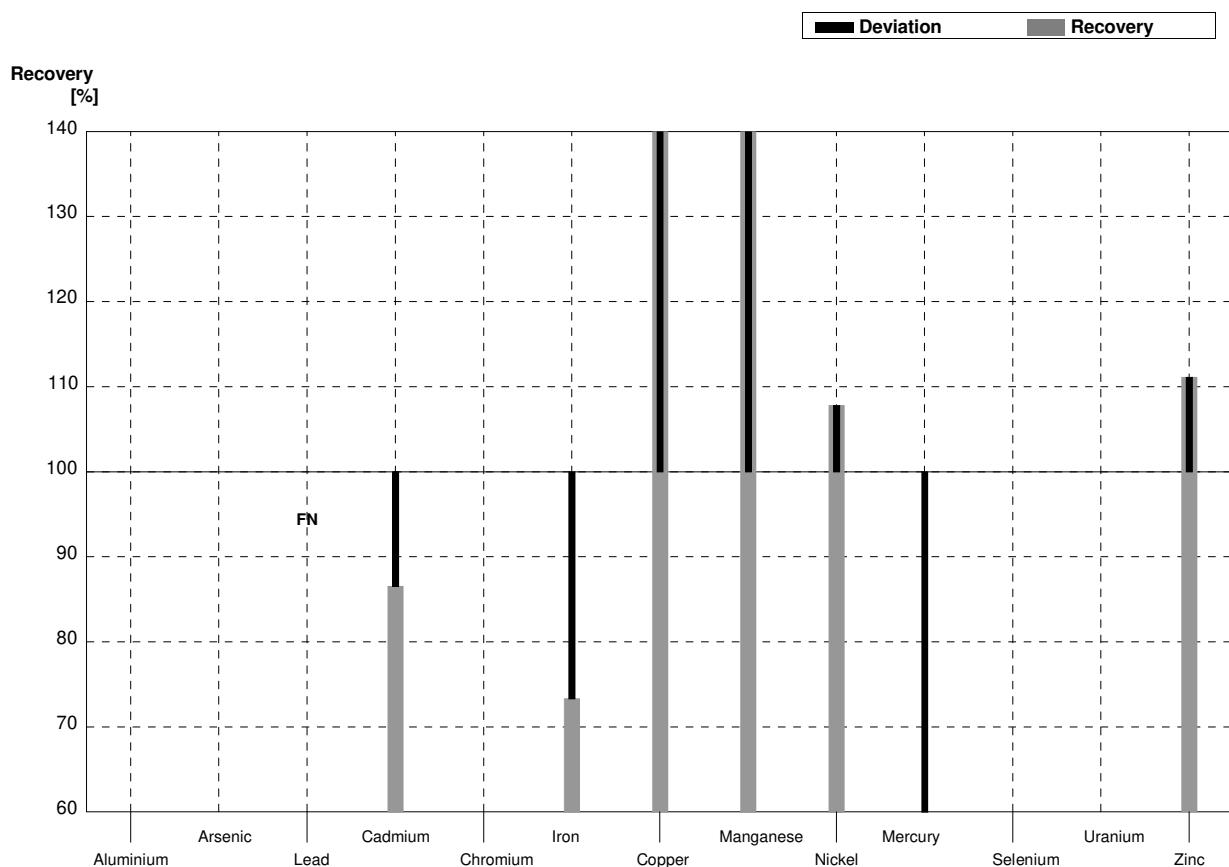
Sample M159B
Laboratory Al

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,70	0,5	$\mu\text{g/l}$	104%
Arsenic	4,27	0,03	5,68	0,8	$\mu\text{g/l}$	133%
Lead	6,55	0,05	6,22	0,8	$\mu\text{g/l}$	95%
Cadmium	1,16	0,01	0,52	0,1	$\mu\text{g/l}$	45%
Chromium	5,28	0,04	4,79	0,3	$\mu\text{g/l}$	91%
Iron	12,5	0,3	13,1	1	$\mu\text{g/l}$	105%
Copper	3,11	0,03	2,14	0,4	$\mu\text{g/l}$	69%
Manganese	40,2	0,3	34,5	1	$\mu\text{g/l}$	86%
Nickel	5,10	0,04	4,52	0,2	$\mu\text{g/l}$	89%
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02	2,53	0,5	$\mu\text{g/l}$	130%
Uranium	4,93	0,04	5,28	0,8	$\mu\text{g/l}$	107%
Zinc	26,0	1,9	23,9	0,5	$\mu\text{g/l}$	92%



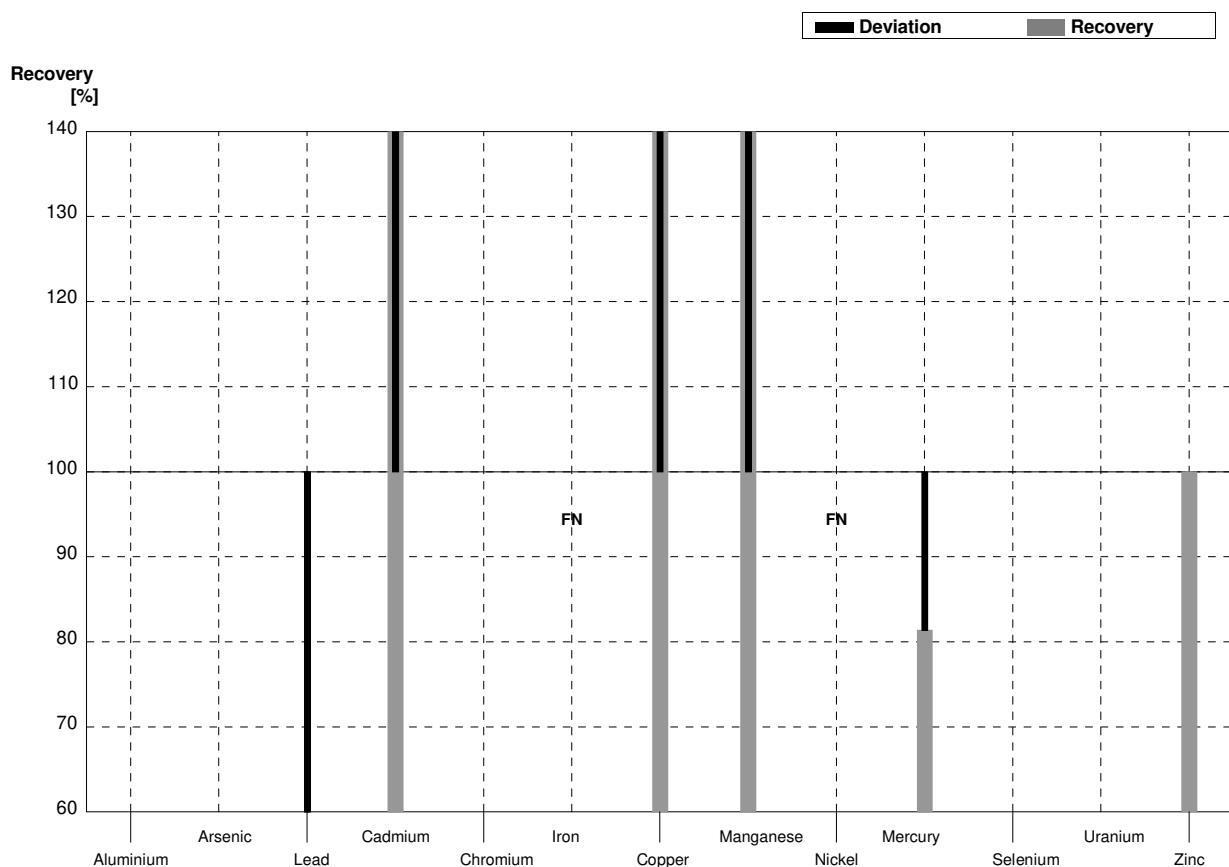
Sample M159A
Laboratory AJ

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03	<1,0	0,06	$\mu\text{g/l}$	FN
Cadmium	4,16	0,02	3,60	0,02	$\mu\text{g/l}$	87%
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3	33,0	0,4	$\mu\text{g/l}$	73%
Copper	6,61	0,04	13,0	0,08	$\mu\text{g/l}$	197%
Manganese	11,6	0,1	60,0	0,8	$\mu\text{g/l}$	517%
Nickel	3,71	0,03	4,00	0,02	$\mu\text{g/l}$	108%
Mercury	1,20	0,02	0,50	0,02	$\mu\text{g/l}$	42%
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9	17,0	1,2	$\mu\text{g/l}$	111%



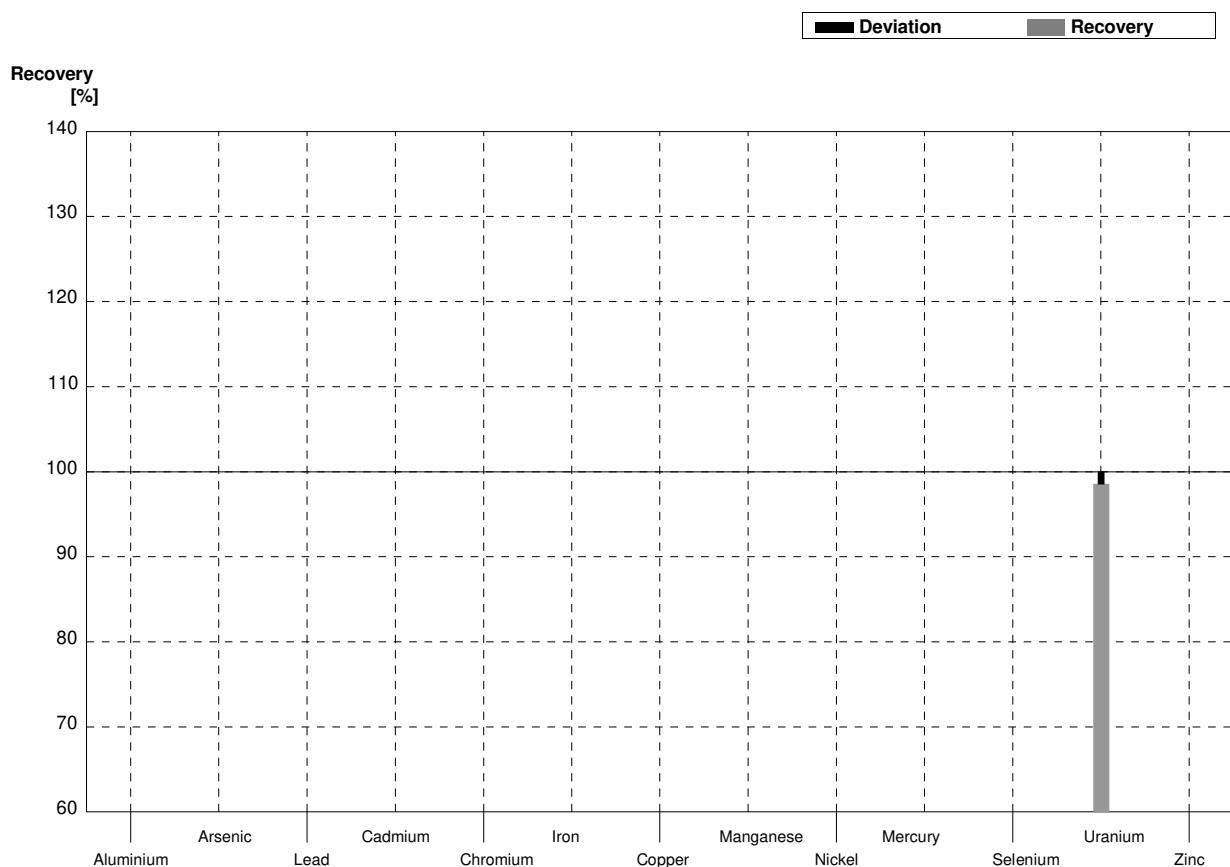
Sample M159B
Laboratory AJ

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05	1,80	0,06	$\mu\text{g/l}$	27%
Cadmium	1,16	0,01	20,0	0,02	$\mu\text{g/l}$	1724%
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3	<1,0	0,4	$\mu\text{g/l}$	FN
Copper	3,11	0,03	11,0	0,08	$\mu\text{g/l}$	354%
Manganese	40,2	0,3	90,0	0,8	$\mu\text{g/l}$	224%
Nickel	5,10	0,04	<1,0	0,02	$\mu\text{g/l}$	FN
Mercury	1,72	0,03	1,40	0,02	$\mu\text{g/l}$	81%
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9	26,0	1,2	$\mu\text{g/l}$	100%



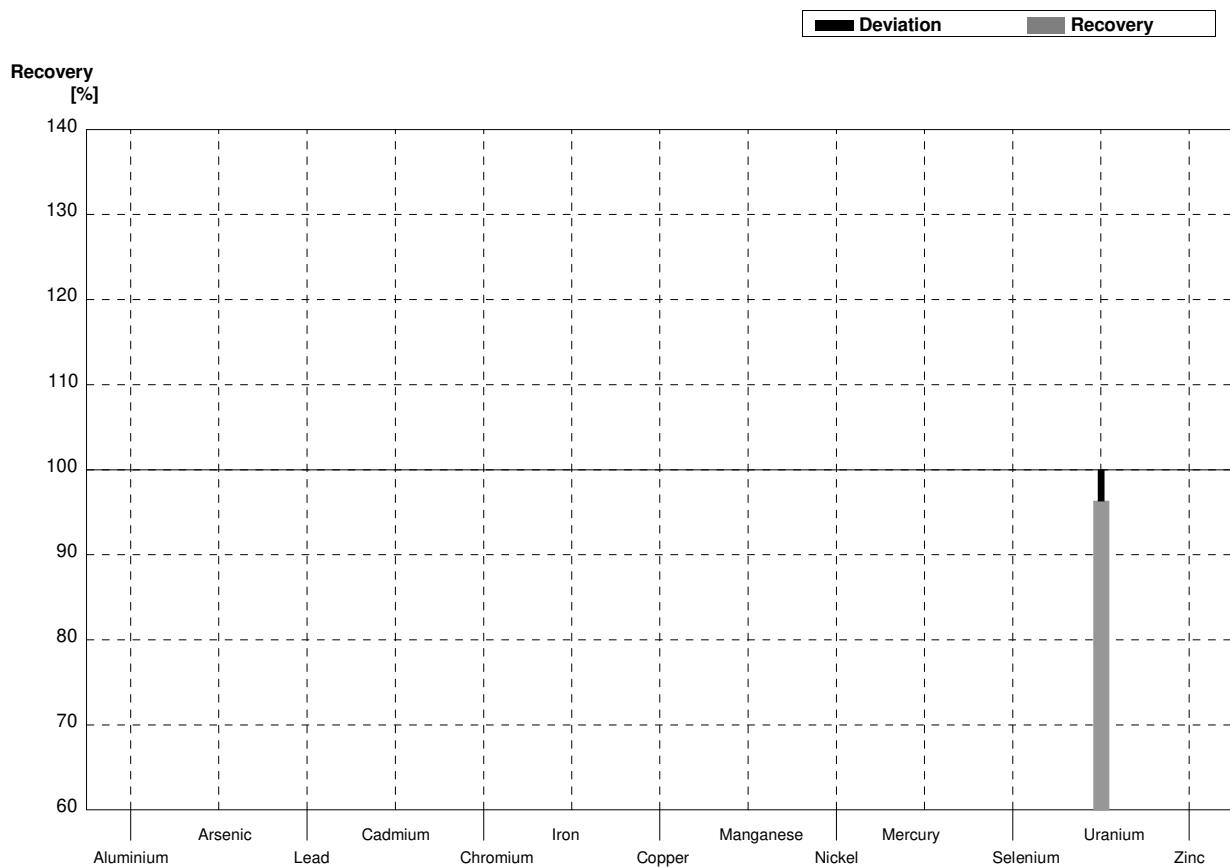
Sample M159A
Laboratory AK

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Aluminium	49,1	0,3			µg/l	
Arsenic	3,07	0,02			µg/l	
Lead	3,50	0,03			µg/l	
Cadmium	4,16	0,02			µg/l	
Chromium	1,29	0,01			µg/l	
Iron	45,0	0,3			µg/l	
Copper	6,61	0,04			µg/l	
Manganese	11,6	0,1			µg/l	
Nickel	3,71	0,03			µg/l	
Mercury	1,20	0,02			µg/l	
Selenium	0,398	0,015			µg/l	
Uranium	2,77	0,02	2,73	0,3	µg/l	99%
Zinc	15,3	1,9			µg/l	



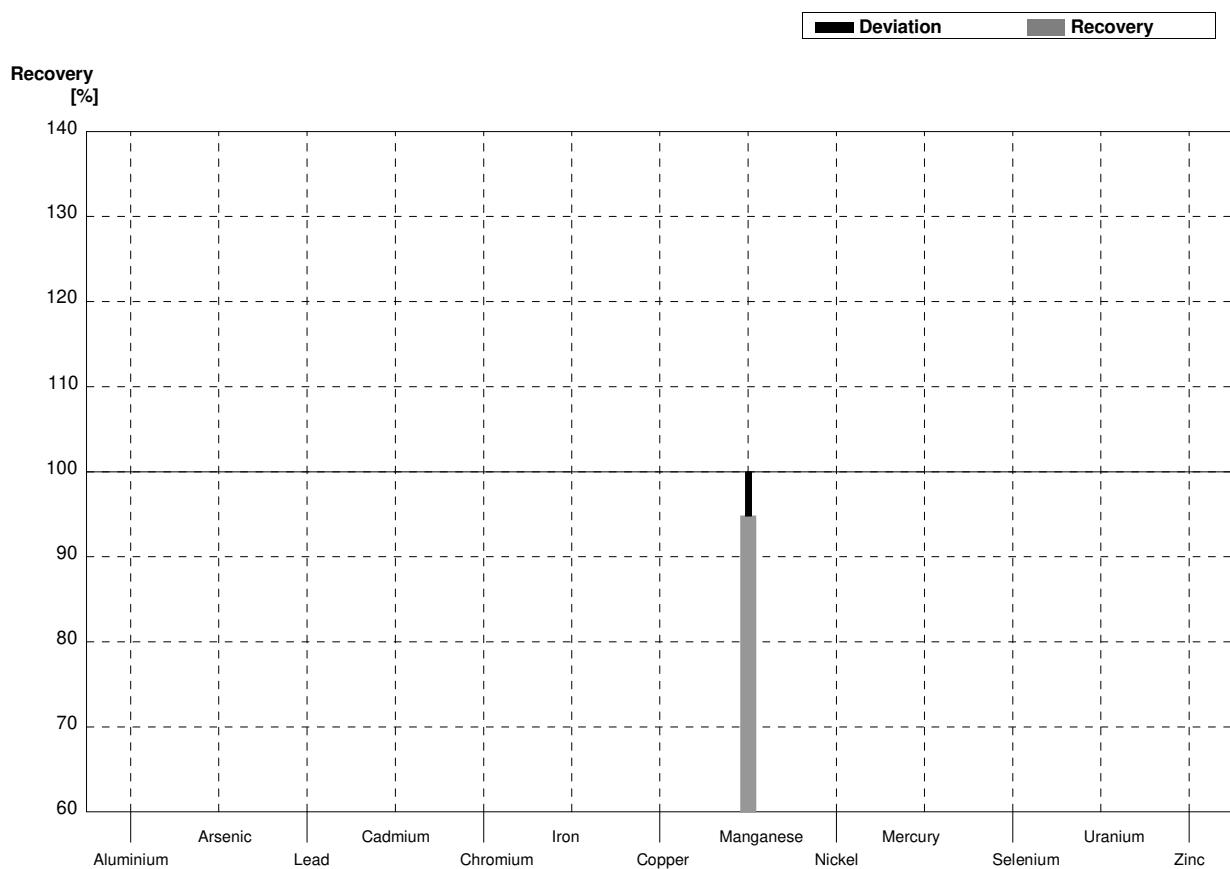
Sample M159B
Laboratory AK

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04	4,75	0,5	$\mu\text{g/l}$	96%
Zinc	26,0	1,9			$\mu\text{g/l}$	



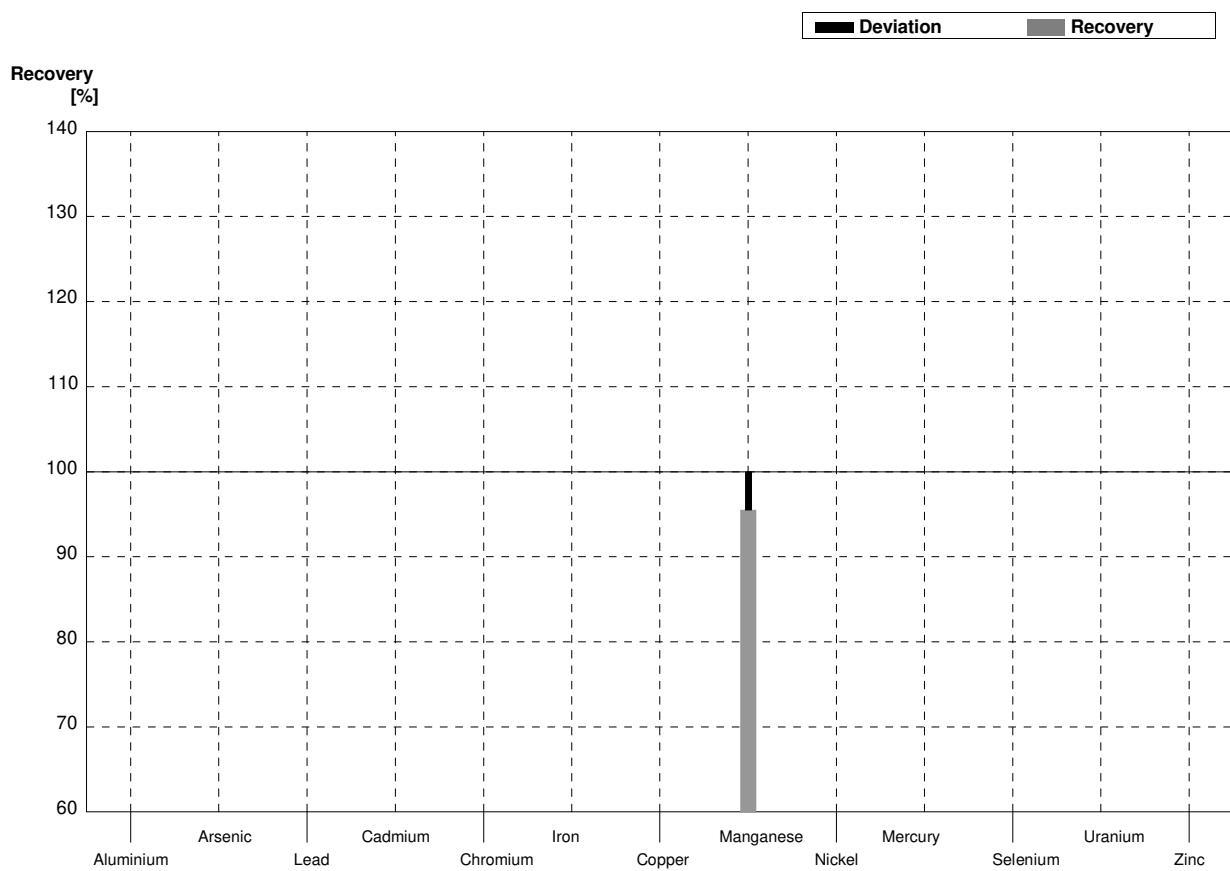
Sample M159A
Laboratory AL

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1	11,0		$\mu\text{g/l}$	95%
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9			$\mu\text{g/l}$	



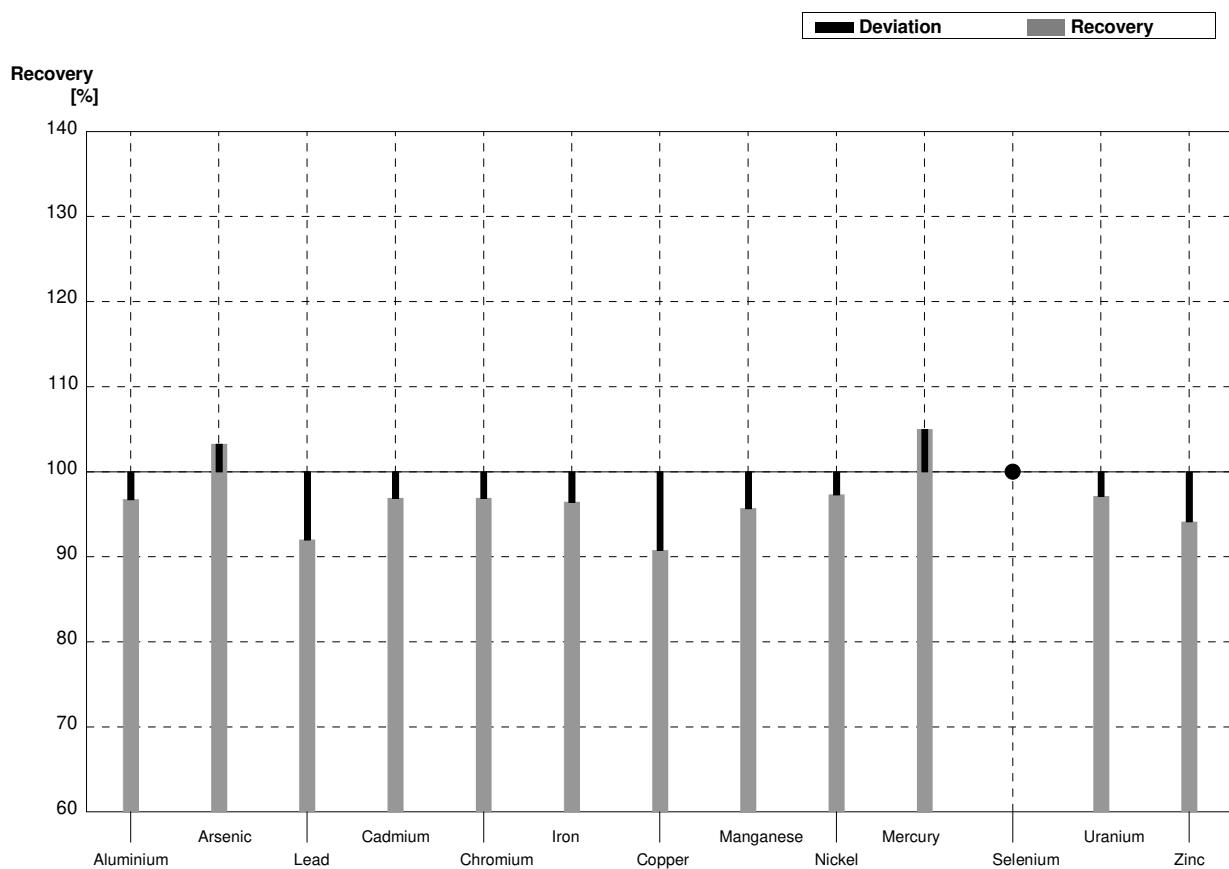
Sample M159B
Laboratory AL

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3	38,4		$\mu\text{g/l}$	96%
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9			$\mu\text{g/l}$	



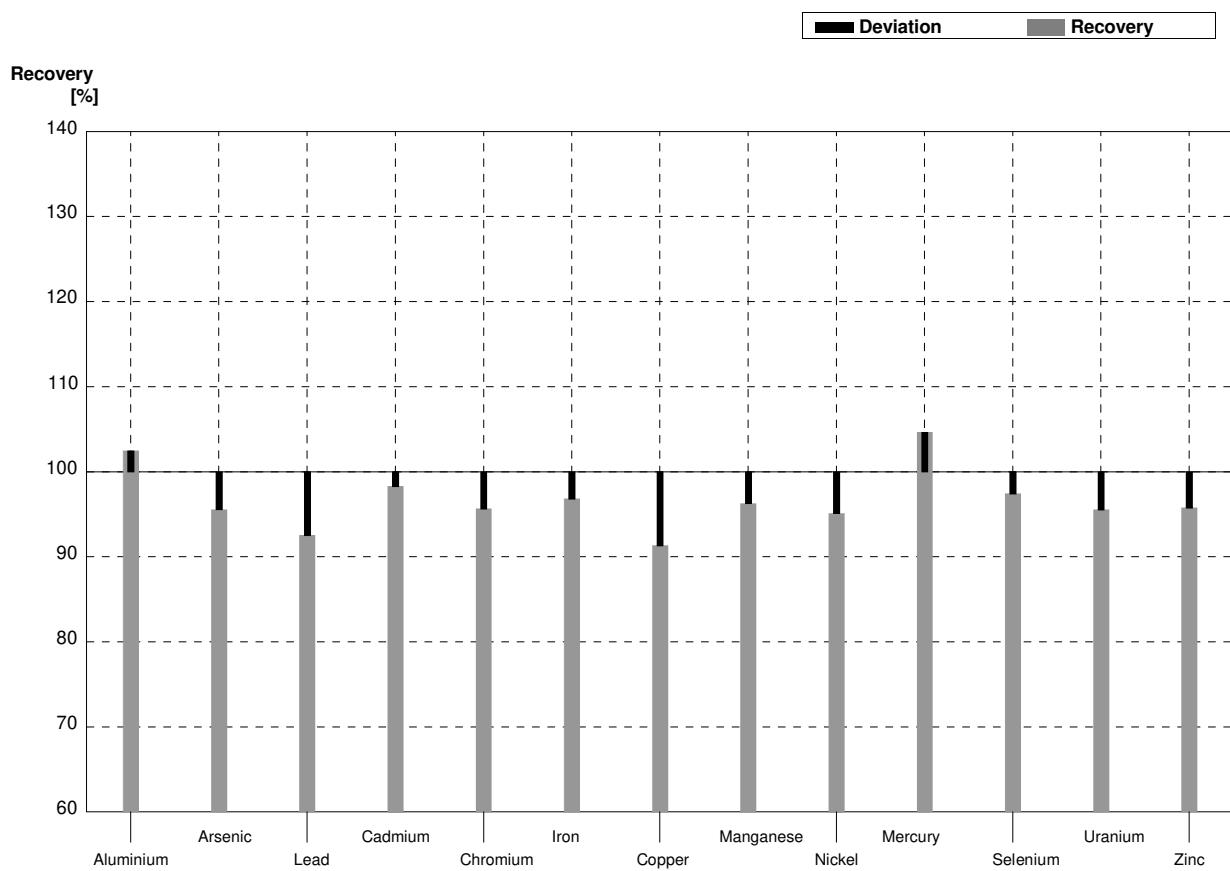
Sample M159A
Laboratory AM

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	47,5	4,75	$\mu\text{g/l}$	97%
Arsenic	3,07	0,02	3,17	0,48	$\mu\text{g/l}$	103%
Lead	3,50	0,03	3,22	0,322	$\mu\text{g/l}$	92%
Cadmium	4,16	0,02	4,03	0,403	$\mu\text{g/l}$	97%
Chromium	1,29	0,01	1,25	0,125	$\mu\text{g/l}$	97%
Iron	45,0	0,3	43,4	4,34	$\mu\text{g/l}$	96%
Copper	6,61	0,04	6,0	0,60	$\mu\text{g/l}$	91%
Manganese	11,6	0,1	11,1	1,11	$\mu\text{g/l}$	96%
Nickel	3,71	0,03	3,61	0,361	$\mu\text{g/l}$	97%
Mercury	1,20	0,02	1,26	0,126	$\mu\text{g/l}$	105%
Selenium	0,398	0,015	<1,0		$\mu\text{g/l}$	•
Uranium	2,77	0,02	2,69	0,269	$\mu\text{g/l}$	97%
Zinc	15,3	1,9	14,4	1,44	$\mu\text{g/l}$	94%



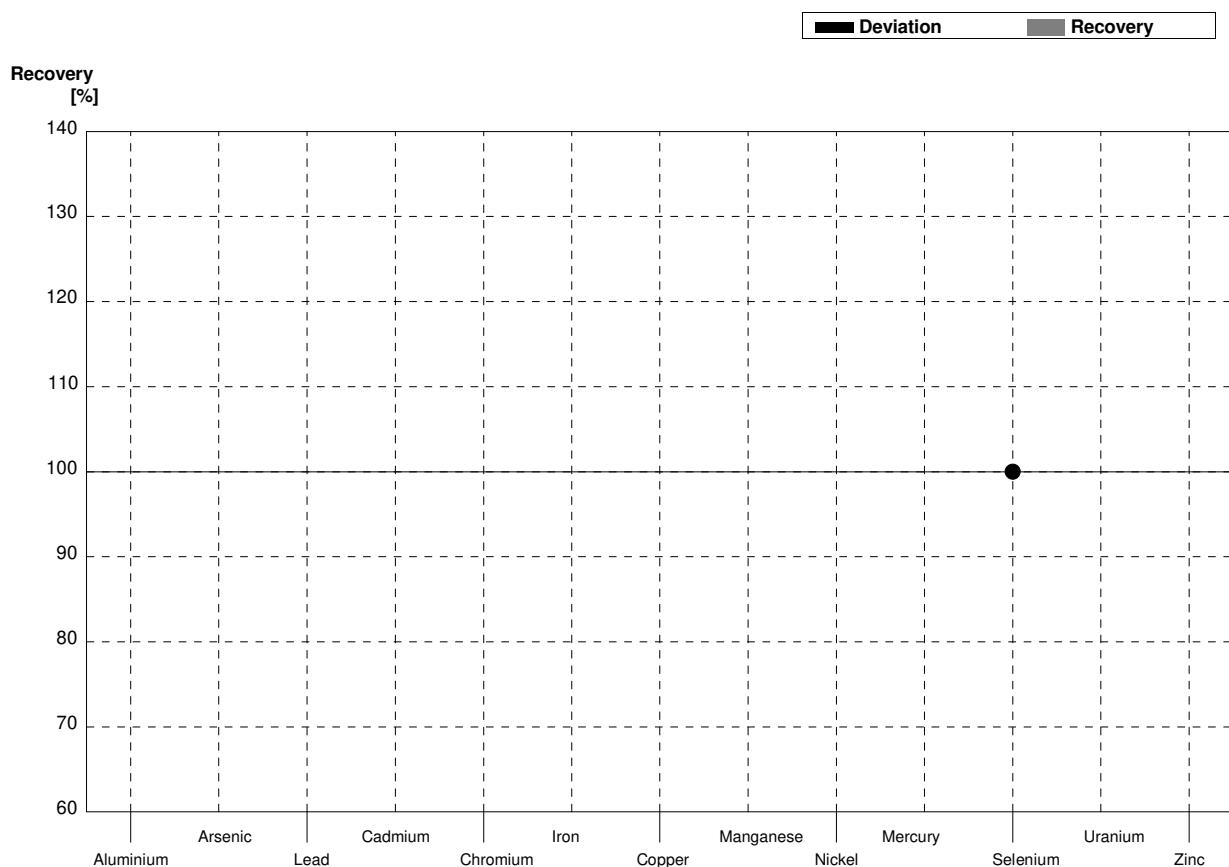
Sample M159B
Laboratory AM

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,5	1,25	$\mu\text{g/l}$	102%
Arsenic	4,27	0,03	4,08	0,61	$\mu\text{g/l}$	96%
Lead	6,55	0,05	6,06	0,61	$\mu\text{g/l}$	93%
Cadmium	1,16	0,01	1,14	0,114	$\mu\text{g/l}$	98%
Chromium	5,28	0,04	5,05	0,51	$\mu\text{g/l}$	96%
Iron	12,5	0,3	12,1	0,121	$\mu\text{g/l}$	97%
Copper	3,11	0,03	2,84	0,284	$\mu\text{g/l}$	91%
Manganese	40,2	0,3	38,7	3,87	$\mu\text{g/l}$	96%
Nickel	5,10	0,04	4,85	0,485	$\mu\text{g/l}$	95%
Mercury	1,72	0,03	1,80	0,180	$\mu\text{g/l}$	105%
Selenium	1,94	0,02	1,89	0,284	$\mu\text{g/l}$	97%
Uranium	4,93	0,04	4,71	0,471	$\mu\text{g/l}$	96%
Zinc	26,0	1,9	24,9	2,49	$\mu\text{g/l}$	96%



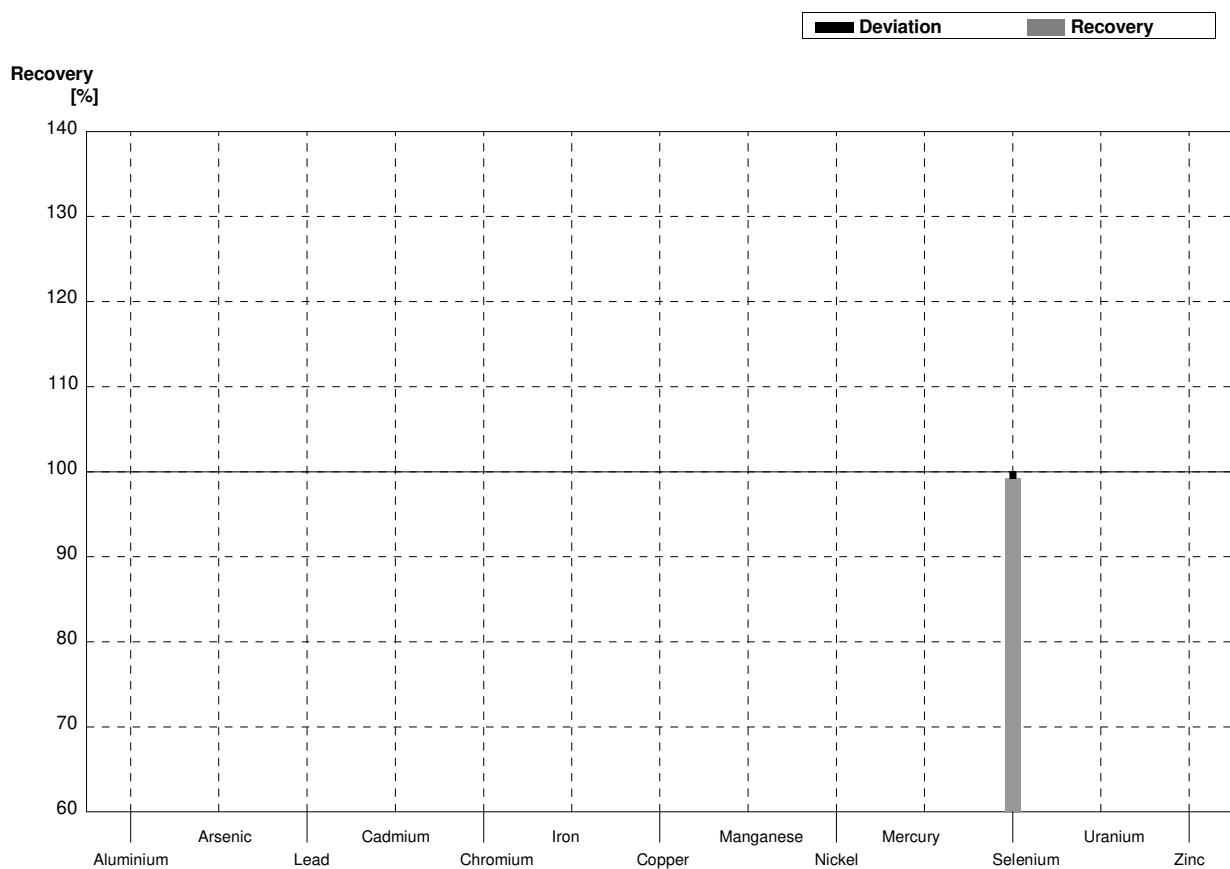
Sample M159A
Laboratory AN

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015	<1,00	0,20	$\mu\text{g/l}$	•
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9			$\mu\text{g/l}$	



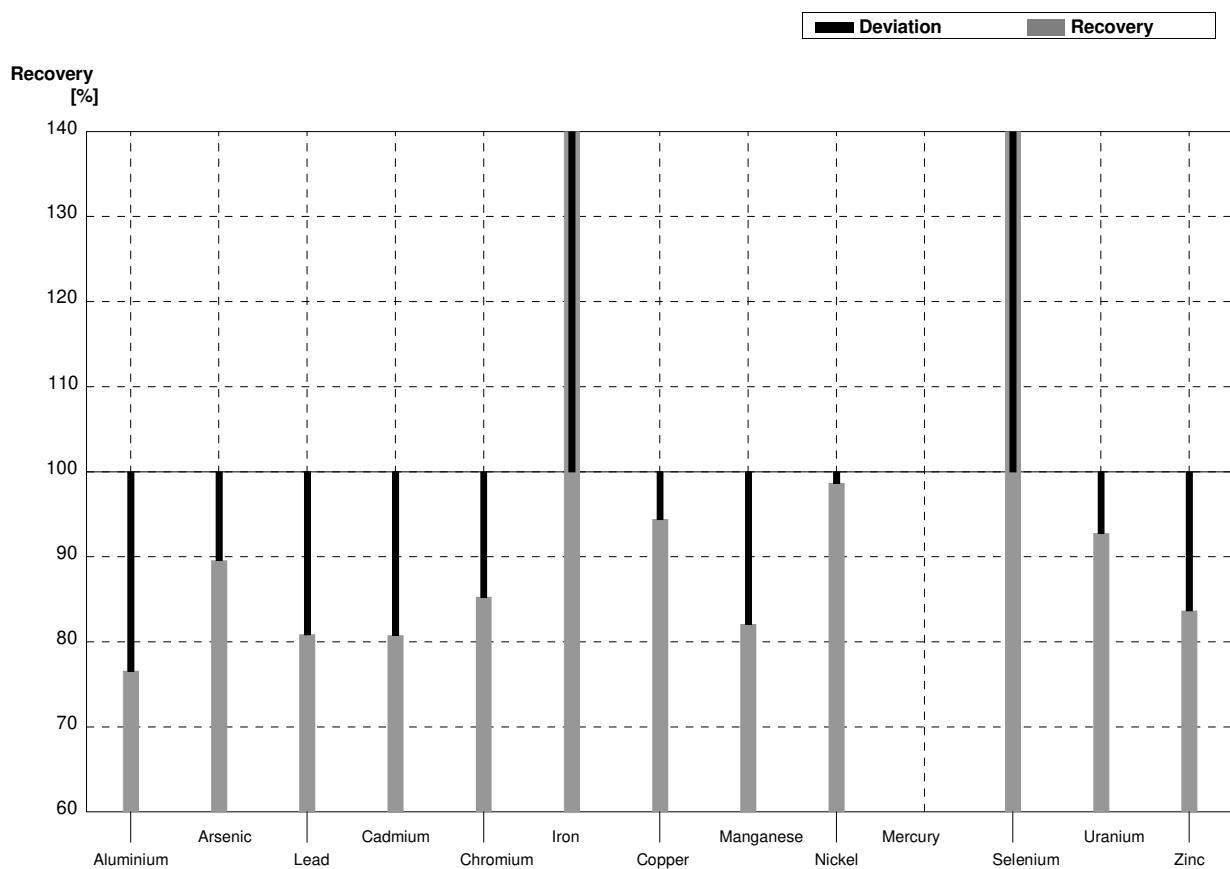
Sample M159B
Laboratory AN

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02	1,925	0,385	$\mu\text{g/l}$	99%
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9			$\mu\text{g/l}$	



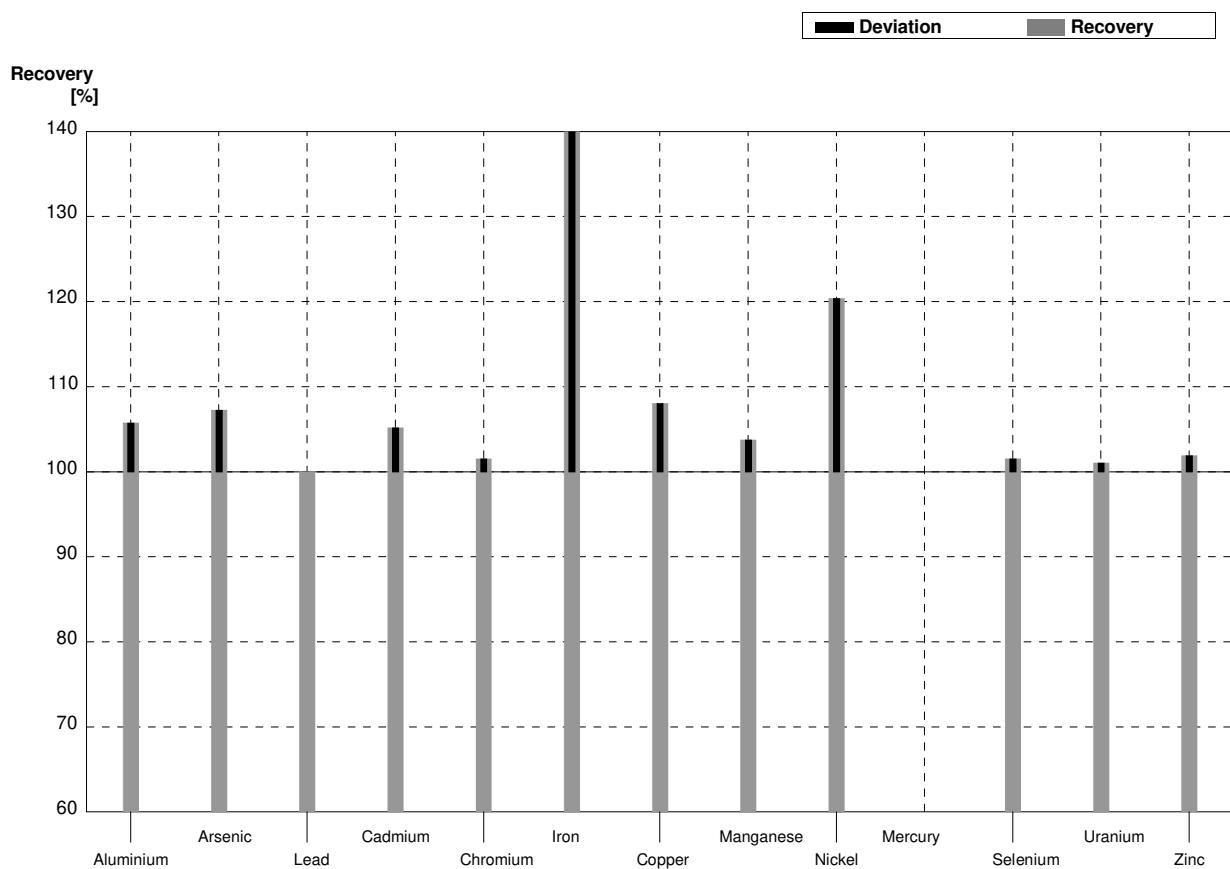
Sample M159A
Laboratory AO

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	37,6	3,16	$\mu\text{g/l}$	77%
Arsenic	3,07	0,02	2,75	0,05	$\mu\text{g/l}$	90%
Lead	3,50	0,03	2,83	0,42	$\mu\text{g/l}$	81%
Cadmium	4,16	0,02	3,36	0,71	$\mu\text{g/l}$	81%
Chromium	1,29	0,01	1,10	0,13	$\mu\text{g/l}$	85%
Iron	45,0	0,3	94,8	28,2	$\mu\text{g/l}$	211%
Copper	6,61	0,04	6,24	1,02	$\mu\text{g/l}$	94%
Manganese	11,6	0,1	9,52	1,24	$\mu\text{g/l}$	82%
Nickel	3,71	0,03	3,66	0,50	$\mu\text{g/l}$	99%
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015	1,04	0,17	$\mu\text{g/l}$	261%
Uranium	2,77	0,02	2,57	0,45	$\mu\text{g/l}$	93%
Zinc	15,3	1,9	12,8	2,69	$\mu\text{g/l}$	84%



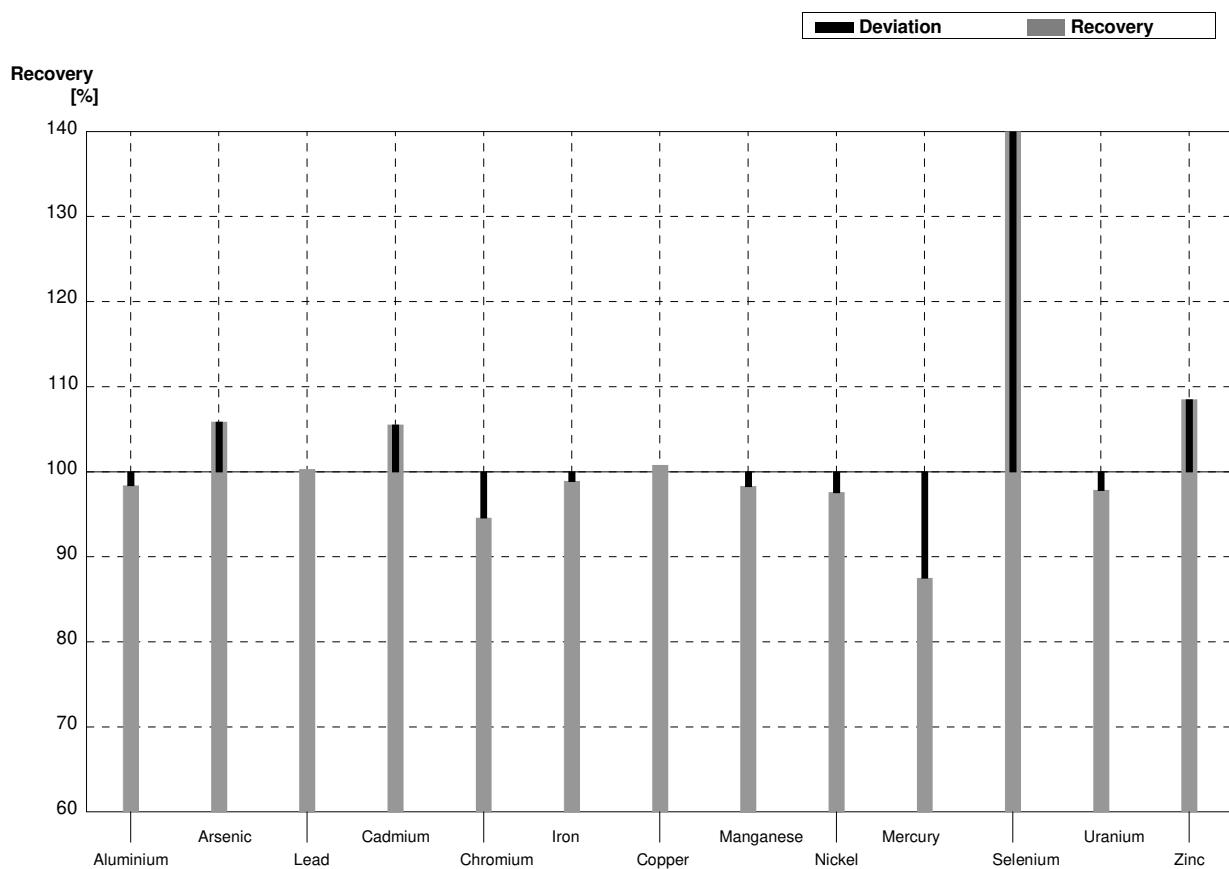
Sample M159B
Laboratory AO

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	12,9	1,08	$\mu\text{g/l}$	106%
Arsenic	4,27	0,03	4,58	0,08	$\mu\text{g/l}$	107%
Lead	6,55	0,05	6,55	0,98	$\mu\text{g/l}$	100%
Cadmium	1,16	0,01	1,22	0,26	$\mu\text{g/l}$	105%
Chromium	5,28	0,04	5,36	0,61	$\mu\text{g/l}$	102%
Iron	12,5	0,3	146	43,7	$\mu\text{g/l}$	1168%
Copper	3,11	0,03	3,36	0,55	$\mu\text{g/l}$	108%
Manganese	40,2	0,3	41,7	5,42	$\mu\text{g/l}$	104%
Nickel	5,10	0,04	6,14	0,84	$\mu\text{g/l}$	120%
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02	1,97	0,32	$\mu\text{g/l}$	102%
Uranium	4,93	0,04	4,98	0,87	$\mu\text{g/l}$	101%
Zinc	26,0	1,9	26,5	5,57	$\mu\text{g/l}$	102%



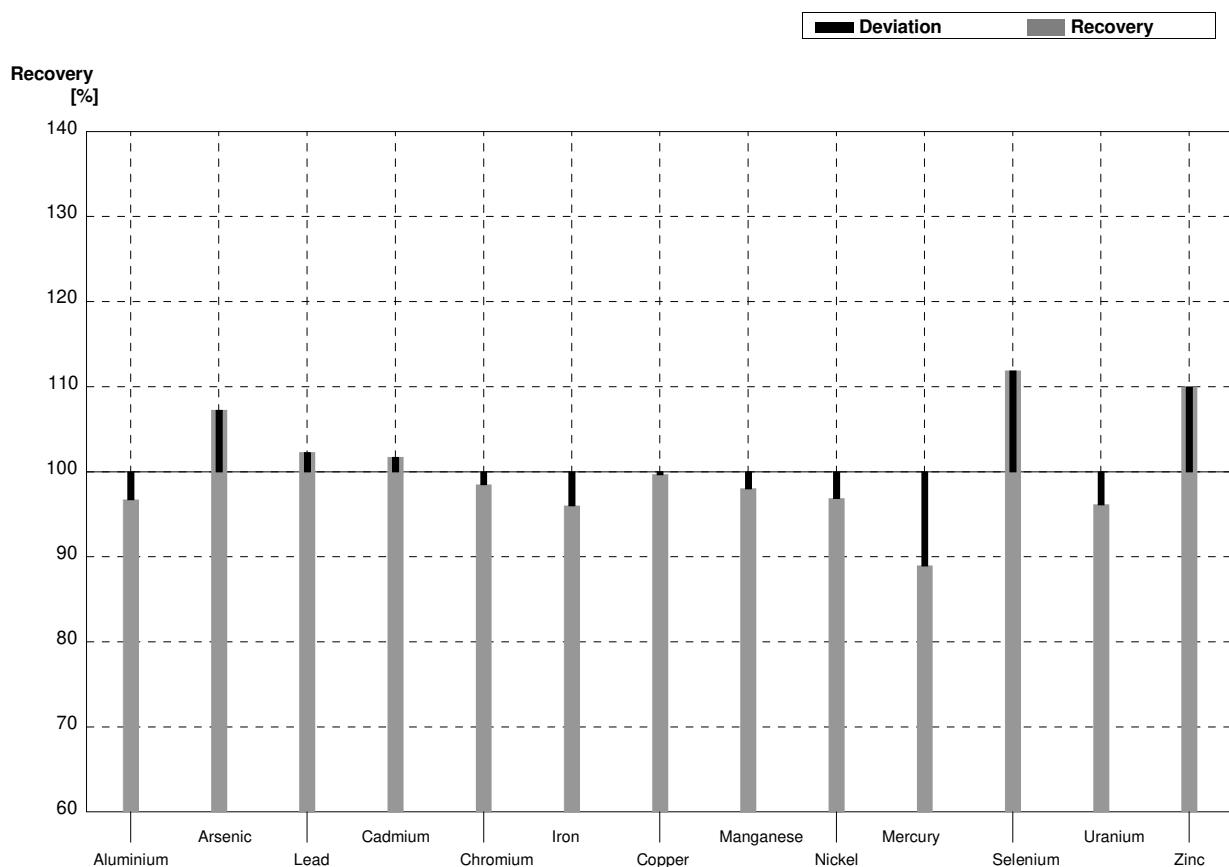
Sample M159A
Laboratory AP

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	48,3	7,3	$\mu\text{g/l}$	98%
Arsenic	3,07	0,02	3,25	0,49	$\mu\text{g/l}$	106%
Lead	3,50	0,03	3,51	0,65	$\mu\text{g/l}$	100%
Cadmium	4,16	0,02	4,39	0,68	$\mu\text{g/l}$	106%
Chromium	1,29	0,01	1,22	0,18	$\mu\text{g/l}$	95%
Iron	45,0	0,3	44,5	6,7	$\mu\text{g/l}$	99%
Copper	6,61	0,04	6,66	1,00	$\mu\text{g/l}$	101%
Manganese	11,6	0,1	11,4	1,7	$\mu\text{g/l}$	98%
Nickel	3,71	0,03	3,62	0,38	$\mu\text{g/l}$	98%
Mercury	1,20	0,02	1,05	0,16	$\mu\text{g/l}$	88%
Selenium	0,398	0,015	0,62	0,09	$\mu\text{g/l}$	156%
Uranium	2,77	0,02	2,71	0,15	$\mu\text{g/l}$	98%
Zinc	15,3	1,9	16,6	2,5	$\mu\text{g/l}$	108%



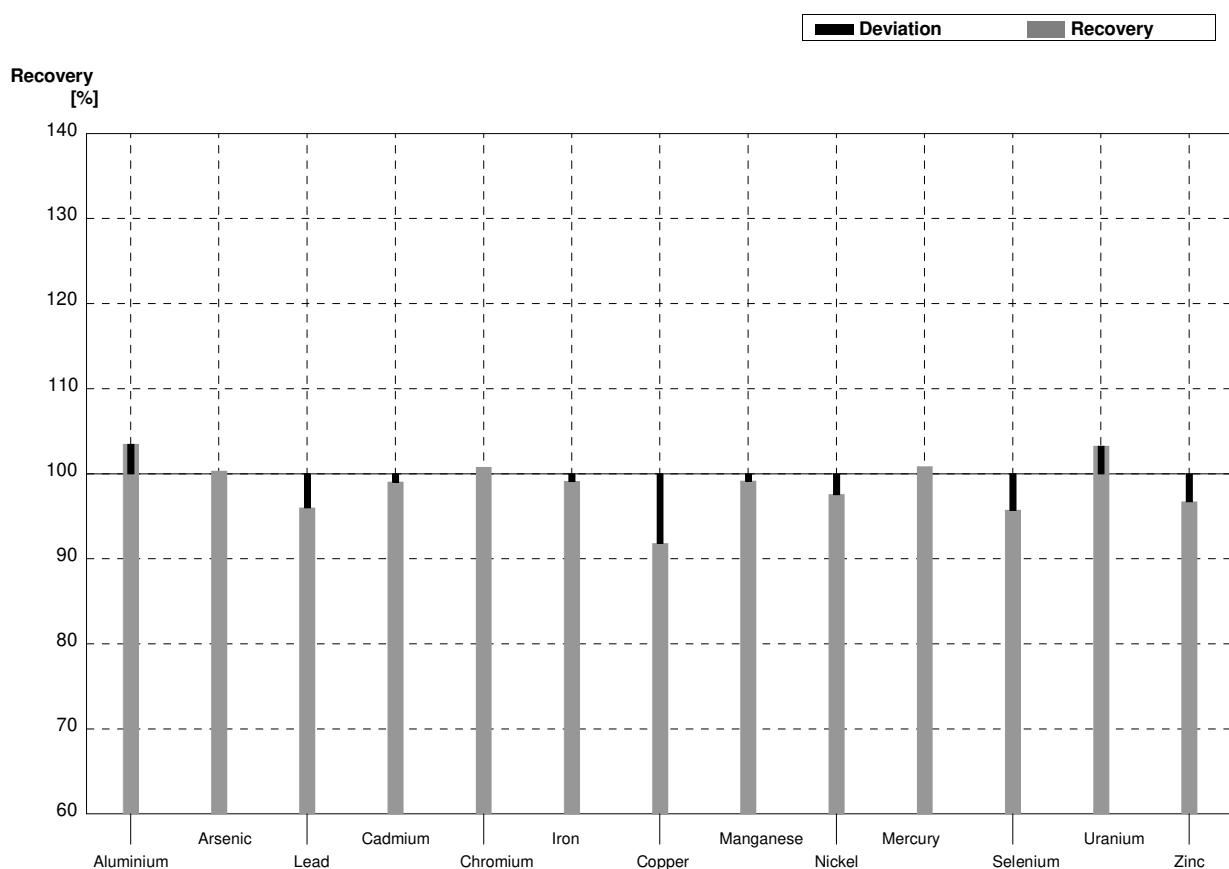
Sample M159B
Laboratory AP

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	11,8	1,8	$\mu\text{g/l}$	97%
Arsenic	4,27	0,03	4,58	0,69	$\mu\text{g/l}$	107%
Lead	6,55	0,05	6,7	1,2	$\mu\text{g/l}$	102%
Cadmium	1,16	0,01	1,18	0,18	$\mu\text{g/l}$	102%
Chromium	5,28	0,04	5,2	0,8	$\mu\text{g/l}$	98%
Iron	12,5	0,3	12,0	1,8	$\mu\text{g/l}$	96%
Copper	3,11	0,03	3,10	0,47	$\mu\text{g/l}$	100%
Manganese	40,2	0,3	39,4	5,9	$\mu\text{g/l}$	98%
Nickel	5,10	0,04	4,94	0,52	$\mu\text{g/l}$	97%
Mercury	1,72	0,03	1,53	0,23	$\mu\text{g/l}$	89%
Selenium	1,94	0,02	2,17	0,33	$\mu\text{g/l}$	112%
Uranium	4,93	0,04	4,74	0,26	$\mu\text{g/l}$	96%
Zinc	26,0	1,9	28,6	4,3	$\mu\text{g/l}$	110%



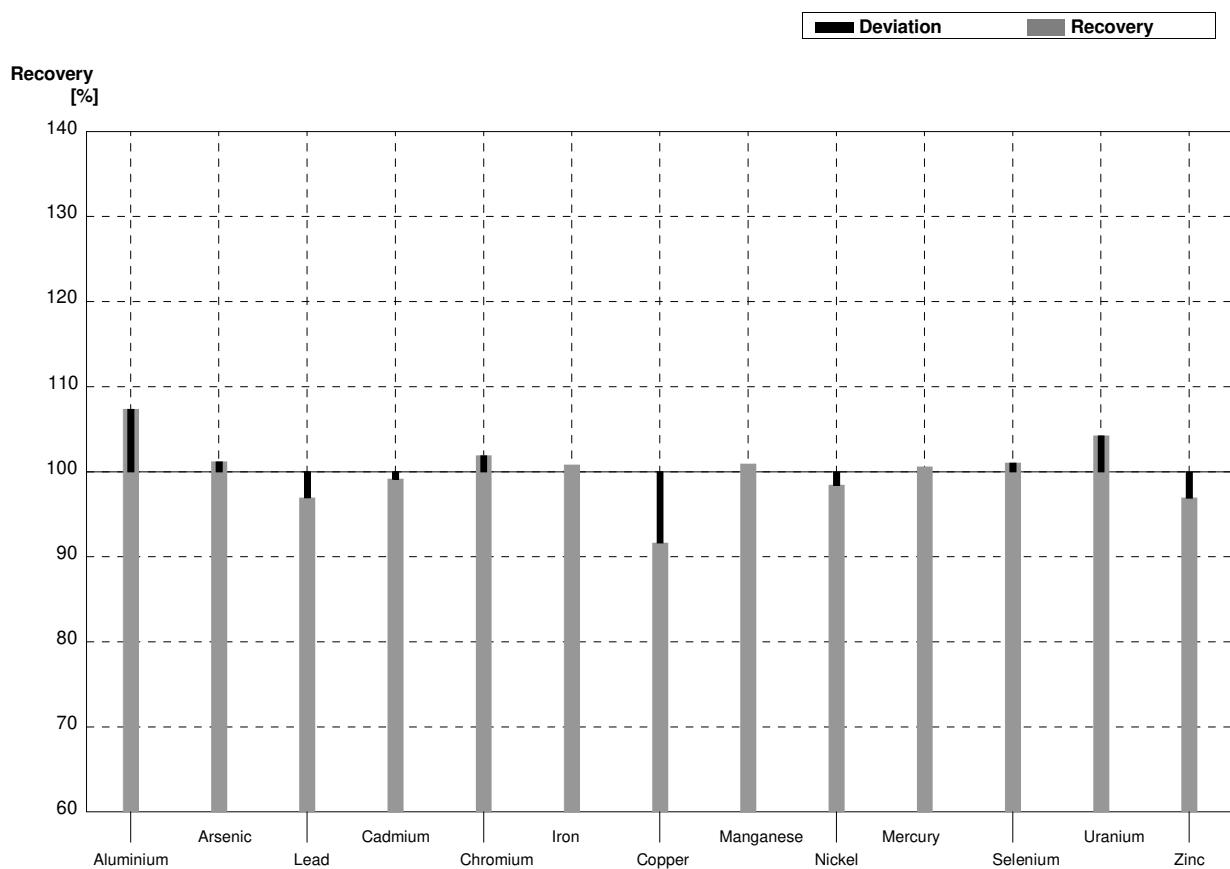
Sample M159A
Laboratory AQ

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3	50,8	3,2	$\mu\text{g/l}$	103%
Arsenic	3,07	0,02	3,08	0,18	$\mu\text{g/l}$	100%
Lead	3,50	0,03	3,36	0,40	$\mu\text{g/l}$	96%
Cadmium	4,16	0,02	4,12	0,52	$\mu\text{g/l}$	99%
Chromium	1,29	0,01	1,30	0,048	$\mu\text{g/l}$	101%
Iron	45,0	0,3	44,6	1,3	$\mu\text{g/l}$	99%
Copper	6,61	0,04	6,07	0,58	$\mu\text{g/l}$	92%
Manganese	11,6	0,1	11,5	0,36	$\mu\text{g/l}$	99%
Nickel	3,71	0,03	3,62	0,29	$\mu\text{g/l}$	98%
Mercury	1,20	0,02	1,21	0,024	$\mu\text{g/l}$	101%
Selenium	0,398	0,015	0,381	0,013	$\mu\text{g/l}$	96%
Uranium	2,77	0,02	2,86	0,35	$\mu\text{g/l}$	103%
Zinc	15,3	1,9	14,8	2,3	$\mu\text{g/l}$	97%



Sample M159B
Laboratory AQ

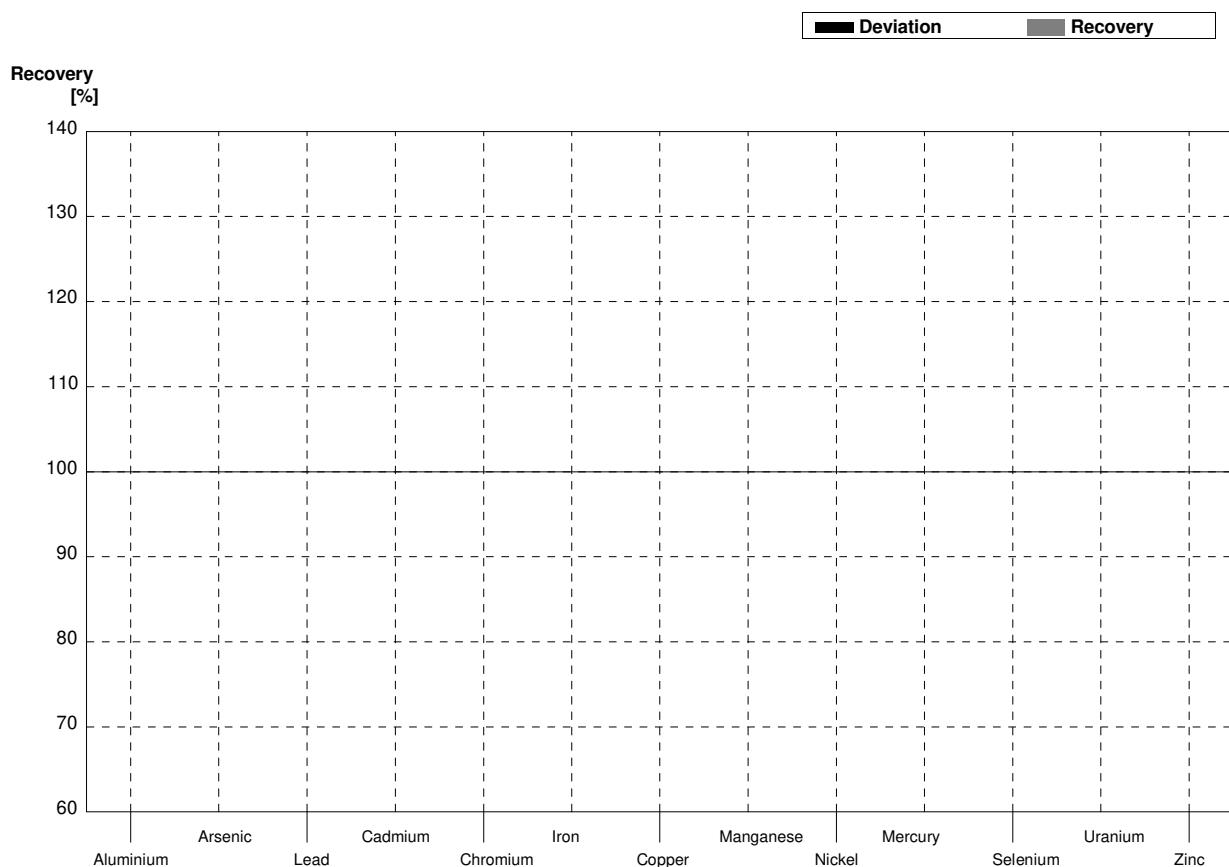
Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2	13,1	0,84	$\mu\text{g/l}$	107%
Arsenic	4,27	0,03	4,32	0,26	$\mu\text{g/l}$	101%
Lead	6,55	0,05	6,35	0,76	$\mu\text{g/l}$	97%
Cadmium	1,16	0,01	1,15	0,15	$\mu\text{g/l}$	99%
Chromium	5,28	0,04	5,38	0,20	$\mu\text{g/l}$	102%
Iron	12,5	0,3	12,6	0,38	$\mu\text{g/l}$	101%
Copper	3,11	0,03	2,85	0,27	$\mu\text{g/l}$	92%
Manganese	40,2	0,3	40,57	1,3	$\mu\text{g/l}$	101%
Nickel	5,10	0,04	5,02	0,41	$\mu\text{g/l}$	98%
Mercury	1,72	0,03	1,73	0,030	$\mu\text{g/l}$	101%
Selenium	1,94	0,02	1,96	0,067	$\mu\text{g/l}$	101%
Uranium	4,93	0,04	5,14	0,63	$\mu\text{g/l}$	104%
Zinc	26,0	1,9	25,2	4,0	$\mu\text{g/l}$	97%



Sample M159A

Laboratory AR

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Aluminium	49,1	0,3			$\mu\text{g/l}$	
Arsenic	3,07	0,02			$\mu\text{g/l}$	
Lead	3,50	0,03			$\mu\text{g/l}$	
Cadmium	4,16	0,02			$\mu\text{g/l}$	
Chromium	1,29	0,01			$\mu\text{g/l}$	
Iron	45,0	0,3			$\mu\text{g/l}$	
Copper	6,61	0,04			$\mu\text{g/l}$	
Manganese	11,6	0,1			$\mu\text{g/l}$	
Nickel	3,71	0,03			$\mu\text{g/l}$	
Mercury	1,20	0,02			$\mu\text{g/l}$	
Selenium	0,398	0,015			$\mu\text{g/l}$	
Uranium	2,77	0,02			$\mu\text{g/l}$	
Zinc	15,3	1,9			$\mu\text{g/l}$	



Sample M159B
Laboratory AR

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Aluminium	12,2	0,2			$\mu\text{g/l}$	
Arsenic	4,27	0,03			$\mu\text{g/l}$	
Lead	6,55	0,05			$\mu\text{g/l}$	
Cadmium	1,16	0,01			$\mu\text{g/l}$	
Chromium	5,28	0,04			$\mu\text{g/l}$	
Iron	12,5	0,3			$\mu\text{g/l}$	
Copper	3,11	0,03			$\mu\text{g/l}$	
Manganese	40,2	0,3			$\mu\text{g/l}$	
Nickel	5,10	0,04			$\mu\text{g/l}$	
Mercury	1,72	0,03			$\mu\text{g/l}$	
Selenium	1,94	0,02			$\mu\text{g/l}$	
Uranium	4,93	0,04			$\mu\text{g/l}$	
Zinc	26,0	1,9			$\mu\text{g/l}$	

