

IFA-Proficiency Testing Scheme zur Wasseranalytik / for Water Analysis

Endbericht / Final Report
Eignungsprüfungsrunde / Proficiency testing round
M174

Metalle / Metals

Probenversand / Sample dispatch: 11.11.2024

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Allgemeine Informationen

Diese Zusammenfassung beschreibt die 174. Runde der regelmäßigen Eignungsprüfungen zur Parametergruppe „Metalle“. Die Prüfgegenstände M174A und M174B wurden am 11. November 2024 an 41 Teilnehmer versendet. Jedes Labor erhielt zwei Prüfgegenstände zu je 250 ml, abgefüllt in LDPE-Flaschen.

Einsendeschluss für die Ergebnisse war am 6. Dezember 2024. Von 40 Teilnehmern wurden Ergebnisse übermittelt.

Zur Anonymisierung wurde jedem Labor per Zufallsgenerator ein Buchstabencode zugeteilt.

Zusammensetzung des Prüfgegenstands

Die Prüfgegenstände M174A und M174B enthielten Al, As, Ba, Cd, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, U und Zn in einer den natürlichen Bedingungen angepassten Matrix, welche durch Zugabe von hochreinen Salzen (CaCO_3 , $\text{Mg}(\text{NO}_3)_2$, NaCl und KCl), H_2SO_4 und HCl eingestellt wurde: 45,8 mg/l Ca, 19,5 mg/l Mg, 8,9 mg/l Na, 1,19 mg/l K, 19,5 mg/l SO_4^{2-} , und 51,0 mg/l Cl⁻. Die Prüfgegenstände wurden mit hochreiner HNO_3 (0,5 % v/v) bei pH < 2 stabilisiert.

Homogenitäts-, Richtigkeits- und Stabilitätsuntersuchung

Die Prüfgegenstände wurden vor dem Versand am IFA auf Homogenität und Richtigkeit untersucht. Die Ergebnisse der Kontrollanalytik finden sich auf den Rohdatenblättern sowie auf den Auswertungen zu jedem Parameter.

Zur Überprüfung der Stabilität wurden vier Wochen nach dem Versand in zwei Flaschen der Prüfgegenstände M174A und M174B alle Parameter nochmals bestimmt. Die Ergebnisse dieser Messungen sind in den Rohdaten-Tabellen und im parameterorientierten Teil dieser Auswertung aufgelistet.

Nach unseren Erfahrungen bleiben die Konzentrationen von allen Parametern bei Lagerung bei 4-6 °C im Dunkeln bis 18 Monate stabil.

Zugewiesene Werte

Die zugewiesenen Werte ergaben sich aus den Wägewerten der zur Herstellung der Prüfgegenstände verwendeten Standards. Sie lagen bei Al, As, Cd, Cr, Fe, Cu, Mn, Ni, Pb, Se und Zn in mindestens einem Prüfgegenstand über den Mindestbestimmungsgrenzen der österreichischen Gewässerzustandsüberwachungsverordnung (GZÜV - BGBl. II. 479/2006).

Die Unsicherheiten der zugewiesenen Werte (erweiterte Unsicherheiten, $k = 2$, $\alpha = 0,05$) wurden nach den Vorgaben des EURACHEM / CITAC Guides „Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)“ ermittelt.

Auswertung

Mit den bei uns eingegangenen Messwerten wurde ein Ausreißertest nach Hampel durchgeführt. Die von diesem Test als auffällig eingestuft Werte sind in den Tabellen der parameterorientierten Auswertung mit einem Stern gekennzeichnet.

Die aus den ausreißerbereinigten Daten berechneten, auf die zugewiesenen Werte bezogenen mittleren Wiederfindungen lagen zwischen 88,6 % (Sb in M174A) und 104,5 % (Se in M174A). Die aus den ausreißerbereinigten Daten berechneten Standardabweichungen bewegten sich im Bereich von 2,2 % (Ba in M174B) bis 10,7 % (Cr in M174A).

Zu den Mittelwerten und mittleren Wiederfindungen wurden auch die Vertrauensbereiche ($P = 99\%$) angegeben. Diese Vertrauensbereiche der Labormittelwerte enthielten in allen Fällen mit Ausnahme von Sb (88,6 % \pm 4,7 %), Pb (95,5 % \pm 2,4 %), Cu (95,8 % \pm 2,2 %), U (95,6 % \pm 2,5 %) und Sn (93,6 % \pm 2,6 %) in M174A und Pb (95,5 % \pm 2,6 %), Ni (96,7 % \pm 2,3 %) und U (95,5 % \pm 2,6 %) in M174B die entsprechenden zugewiesenen Werte mit ihren Unsicherheiten.

Die Standardunsicherheiten aller zugewiesenen Werte wurden nach dem Kriterium $u(x_{pp}) < 0,3\sigma_{pp}$ oder $u(x_{pp}) < 0,1\delta E$ (DIN ISO 13528, Punkt 9.2) überprüft und entsprach in allen Fällen bis auf Zink im Prüfgegenstand M174A der Vorgabe. Bei diesen Parametern wurde deshalb zusätzlich der Vergleich der absoluten Differenz zwischen zugewiesenem Wert (x_{pt}) und Labormittelwert (\bar{X}) unter Berücksichtigung der Messunsicherheiten $u(x_{pt})$ und $u(\bar{X})$ durchgeführt. Alle Parameter entsprachen der Vorgabe:

$$|x_{pt} - \bar{X}| < 2 * \sqrt{u(x_{pt})^2 + u(\bar{X})^2} \quad (\text{DIN ISO 13528, Punkt 7 und E7})$$

Daher wurden alle ermittelten zugewiesenen Werte mit ihren Standardunsicherheiten übernommen.

z-Score-Auswertung

Ein z-Score ist die auf eine Standardabweichung bezogene Abweichung eines Messwertes vom zugewiesenen Wert. Er wird mittels folgender Formel berechnet:

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

| | |
|---------------|--|
| z | z-Score |
| x_i | Messwert eines Labors |
| X | zugewiesener Wert oder ausreißerbereinigter Mittelwert („Konsenswert“) |
| σ_{pt} | Standardabweichung für die Eignungsbewertung |

Es handelt sich also um das Verhältnis der Abweichung des Messwerts eines Labors vom zugewiesenen Wert zu einer vorgegebenen Standardabweichung.

Die Standardabweichungen für die Eignungsbewertung wurden, mit Ausnahme von Sr, aus den Ergebnissen der im Zeitraum 2013 - 2023 vom IFA-Tulln veranstalteten Eignungsprüfung berechnet.

Diese Vorgehensweise wurde deshalb gewählt, weil, unserer Erfahrung nach, die Standardabweichungen der ausreißerbereinigten Messwerte zwischen den einzelnen Eignungsprüfungen variieren. Die Ermittlung der Standardabweichung über die Eignungsprüfungsrunden aus mehreren Jahren bietet jedoch eine gut abgesicherte Basis auf einer breiten Datengrundlage und ist somit meistens besser geeignet, als das bei der direkt aus der Eignungsprüfung berechneten Standardabweichung der Fall wäre. (siehe EN ISO/IEC 17043:2010, B.3.1.3)

Der Vorteil, der sich für alle Teilnehmer daraus ergibt, ist, dass dadurch bei unseren Eignungsprüfungen schon vor der Teilnahme vorhersehbar ist, welche z-Scores man mit den eigenen, aus Routineverfahren bekannten, Messabweichungen erwarten kann.

Strontium wurde im Jahr 2023 erstmalig, jedoch nicht im akkreditierten Bereich angeboten. Zur Abschätzung der Standardabweichung für die Eignungsbewertung (bezogen auf den zugewiesenen Wert) wurden alle erzielten Standardabweichungen der Laboratorien von den bisher durchgeführten Eignungsprüfungsrunden für Sr herangezogen.

Rechenbeispiel:

Ein Labor bestimmte für den Parameter Aluminium einen Messwert von 73,7 µg/l (Wiederfindung von 101,94 %). Der zugewiesene Wert für Aluminium lag bei 72,3 µg/l (100 %).

In der nachfolgenden Tabelle (und in der Tabelle des Jahresprogrammes www.ifatest.at) ist die relative Standardabweichung für die Eignungsbewertung beim Parameter Aluminium mit 7,8 % angegeben. Bezogen auf den zugewiesenen Wert 72,3 µg/l Al entsprechen 7,8 % 5,6 µg/l.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{73,7 \mu\text{g/l} - 72,3 \mu\text{g/l}}{5,6 \mu\text{g/l}} \approx 0,25 \quad \text{oder} \quad \frac{101,94 \% - 100 \%}{7,8 \%} \approx 0,25$$

| | | |
|---------------|-----------|---|
| z | z-Score | |
| x_i | 73,7 µg/l | entsprechen 101,94 % (Messwert des Labors) |
| X | 72,3 µg/l | entsprechen 100 % (zugewiesener Wert) |
| σ_{pt} | 5,6 µg/l | entsprechen 7,8 % (Standardabweichung für die Eignungsbewertung, siehe Tabelle unten) |

Abweichungen in den Nachkommastellen können sich bei Nachberechnung dadurch ergeben, dass im Bericht bei den Wiederfindungen zwecks Übersichtlichkeit gerundete Werte angegeben sind.

Die folgende Tabelle enthält die Standardabweichung für die Eignungsbewertung bezogen auf den zugewiesenen Wert mit ihren Anwendungsbereichen. Die Berechnung von z-Scores erfolgt nur dann, wenn der zugehörige zugewiesene Wert über der in der Tabelle angegebenen Konzentration liegt.

| Parameter | Standardabweichung für die Eignungsbewertung bezogen auf den zugewiesenen Wert | untere Grenze |
|-------------------------|--|---------------|
| Aluminium | 7,8 % | 7,5 µg/l |
| Antimon | 8,8 % | 0,15 µg/l |
| Arsen | 7,1 % | 0,5 µg/l |
| Barium | 4,5 % | 12 µg/l |
| Blei | 6,6 % | 0,3 µg/l |
| Cadmium | 5,2 % | 0,1 µg/l |
| Chrom | 6,2 % | 0,5 µg/l |
| Eisen | 6,6 % | 10 µg/l |
| Kupfer | 7,5 % | 1,0 µg/l |
| Mangan | 5,2 % | 2,0 µg/l |
| Molybdän | 6,1 % | 0,4 µg/l |
| Nickel | 6,9 % | 0,75 µg/l |
| Selen | 8,8 % | 0,45 µg/l |
| Strontium ¹⁾ | 4,5 % | 41 µg/l |
| Uran | 5,6 % | 0,35 µg/l |
| Zink | 6,9 % | 3 µg/l |
| Zinn | 8,4 % | 0,5 µg/l |

¹⁾ Strontium wurde im Jahr 2023 erstmalig, jedoch nicht im akkreditierten Bereich angeboten. Zur Abschätzung der Standardabweichung für die Eignungsbewertung (bezogen auf den zugewiesenen Wert) wurden alle erzielten Standardabweichungen der Laboratorien von den bisher durchgeführten Eignungsprüfungen für Sr herangezogen.

Zur Interpretation von z-Scores wird meist folgende Klassifikation vorgeschlagen:

| z-Score | Klassifikation |
|---------|-------------------------|
| ≤2 | zufriedenstellend |
| 2< z <3 | fraglich |
| ≥3 | nicht zufriedenstellend |

Die z-Scores sind in der parameterorientierten Auswertung in den Tabellen neben den Wiederfindungen angegeben. Jedes Labor erhält zusätzlich zu dieser Auswertung ein Blatt, auf dem die erzielten z-Scores zusammengefasst und grafisch dargestellt sind. Die Standardabweichungen für die Eignungsbewertung sind dort in Konzentrationseinheiten angegeben.

Eine Übersichtstabelle aller z-Scores ist im Anschluss an die Rohdatentabellen im parameterorientierten Teil zu finden.

Zur Darstellung der Ergebnisse in der Auswertung:

Eine Legende zur Darstellung der Ergebnisse finden Sie auf der nächsten Seite. In den Tabellen der Auswertung sind jeweils zugewiesener Wert, Messwert, Unsicherheit und die Wiederfindung dargestellt. In der parameterorientierten Auswertung befindet sich der Sollwert direkt unter der Parameterbezeichnung. Die Unsicherheit des Sollwertes ist immer als erweiterte Unsicherheit ($k = 2$; $\alpha = 0,05$) angegeben. Sie wurde nach den Vorgaben des EURACHEM / CITAC Guides „Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)“ ermittelt. Die grafische Darstellung der Ergebnisse enthält die Unsicherheit des zugewiesenen Wertes als grau unterlegtes Band.

In der Spalte „A“ bei der parameterorientierten Auswertung wurden die Messwerte, die nach dem Test nach Hampel als Ausreißer gewertet wurden, mit einem Stern (*) gekennzeichnet. Die Grafik der Messwerte wurde für alle Parameter auf $100 \% \pm 45 \%$ des zugewiesenen Wertes skaliert. Die kleine Tabelle unten links enthält statistische Parameter, darunter den 99 % - Vertrauensbereich der Labormittelwerte vor und nach Ausreißereliminierung.

Ergebnisse, für die keine Wiederfindung bzw. Abweichung vom zugewiesenen Wert berechnet werden kann (d.h. „Kleiner als“ Ergebnisse oder Zahlenwerte bei nicht zugegebenen Substanzen) werden in den Tabellen und Grafiken entweder als **FN** (falsch negativ), **FP** (falsch positiv) oder als • - Symbol dargestellt.

- Als falsch negativ gelten „< Ergebnisse“ mit einem Betrag des Zahlenwertes unterhalb des zugewiesenen Wertes bzw. Messwert „0“ bei zugegebenen Substanzen.
- Falsch positive Ergebnisse sind für Substanzen möglich, die über „< zugewiesener Wert“ ausgewertet wurden. Mit FP werden alle Messwerte gekennzeichnet, die mit ihren Unsicherheiten das Kriterium „< zugewiesener Wert“ nicht einschließen (tangieren).
- Mit einem • - Symbol werden alle weiteren Ergebnisse illustriert, für die keine Wiederfindung berechnet werden kann

Prüfmethoden

Den Teilnehmenden stand die Wahl der Analysenmethode frei. Die Parameter sollten mit den im jeweiligen Teilnehmerlabor eingesetzten Routineverfahren bestimmt werden. Eine Übersicht der angewendeten Methoden befindet sich am Ende des Berichts.

„< Werte“ bzw. „> Werte“ sowie stark abweichende Messwerte, welche zu einer unübersichtlichen Skalierung führen würden, sind in den Graphiken nicht berücksichtigt.

Tulln, 17. Dezember 2024

Probe M106A

Parameter Kupfer

*Sollwert ± U (k=2) 4,79 µg/l ± 0,13 µg/l
 IFA-Kontrolle ± U (k=2) 4,79 µg/l ± 0,38 µg/l
 IFA-Stabilität ± U (k=2) 4,69 µg/l ± 0,38 µg/l

*Sollwert = "zugewiesener Wert"
Sollwert ± Unsicherheit aus Einwaage
Kontrollmessung IFA vor Versand
Messung IFA 3 Wochen nach Versand

| Labor-Kennung | Messwert | ± | Einheit | Wiederfindung | z-Score |
|---------------|----------|--------|---------|---------------|---------|
| A | 5,16 | 0,4128 | µg/l | 108% | 0,90 |
| B | 4,22 | 0,42 | µg/l | 88% | -1,38 |
| C | 4,45 | 0,13 | µg/l | 93% | -0,83 |
| D | | | µg/l | | |
| E | | | µg/l | | |
| F | 4,10 | 0,08 | µg/l | 86% | -1,68 |
| G | | | µg/l | | |
| H | | | µg/l | | |
| I | 4,75 | 0,74 | µg/l | 99% | -0,10 |
| J | <5 | | µg/l | * | |
| K | 4,76 | | µg/l | 99% | -0,07 |
| L | <10 | | µg/l | * | |
| M | 4,8 | 0,5 | µg/l | 100% | 0,02 |
| N | 3,7 | 0,4 | µg/l | 77% | -2,65 |
| O | 4,47 | 0,447 | µg/l | 93% | -0,78 |
| P | 6,0 | | µg/l | 125% | 2,94 |
| Q | 4,17 | 0,2 | µg/l | 87% | -1,51 |
| R | 4,6 | 0,8 | µg/l | 96% | -0,46 |
| S | 4,44 | 0,67 | µg/l | 93% | -0,85 |
| T | | | µg/l | | |
| U | 4,675 | 0,935 | µg/l | 95% | -0,28 |
| V | 5,0 | 0,50 | µg/l | 104% | 0,51 |
| W | 3,54 | 0,3 | µg/l | 74% | -3,03 |
| X | 7,108 | 0,749 | µg/l | 148% | 5,63 |
| Y | <10 | | µg/l | * | |
| Z | | | µg/l | | |
| AA | <3,0 | | µg/l | FN | |
| AB | 3,775 | 0,107 | µg/l | 79% | -2,46 |
| AC | <10,0 | | µg/l | * | |

Wiederfindung des zugewiesenen Wertes in Prozent

z-Score des Labors

Ein Stern markiert einen Ausreißer nach dem Hampel-Test

Ergebnisunsicherheit laut Teilnehmer

| | alle Ergebnisse | ohne Ausreißer | Einheit |
|-------------------|-----------------|----------------|---------|
| MW ± VB(99%) | 4,65 ± 0,57 | 4,51 ± 0,42 | µg/l |
| WF ± VB(99%) | 97,1 ± 12,0 | 94,1 ± 8,8 | % |
| Standardabw. | 0,84 | 0,59 | µg/l |
| rel. Standardabw. | 18,1 | 13,2 | % |
| n für Berechnung | 18 | 17 | |

Standardabweichung zwischen den Labors

Mittelwert der Messwerte und Wiederfindung des zugewiesenen Wertes mit zugehörigen Vertrauensbereichen (p=99%)

Anzahl der Messungen zur Berechnung der statistischen Kenngrößen

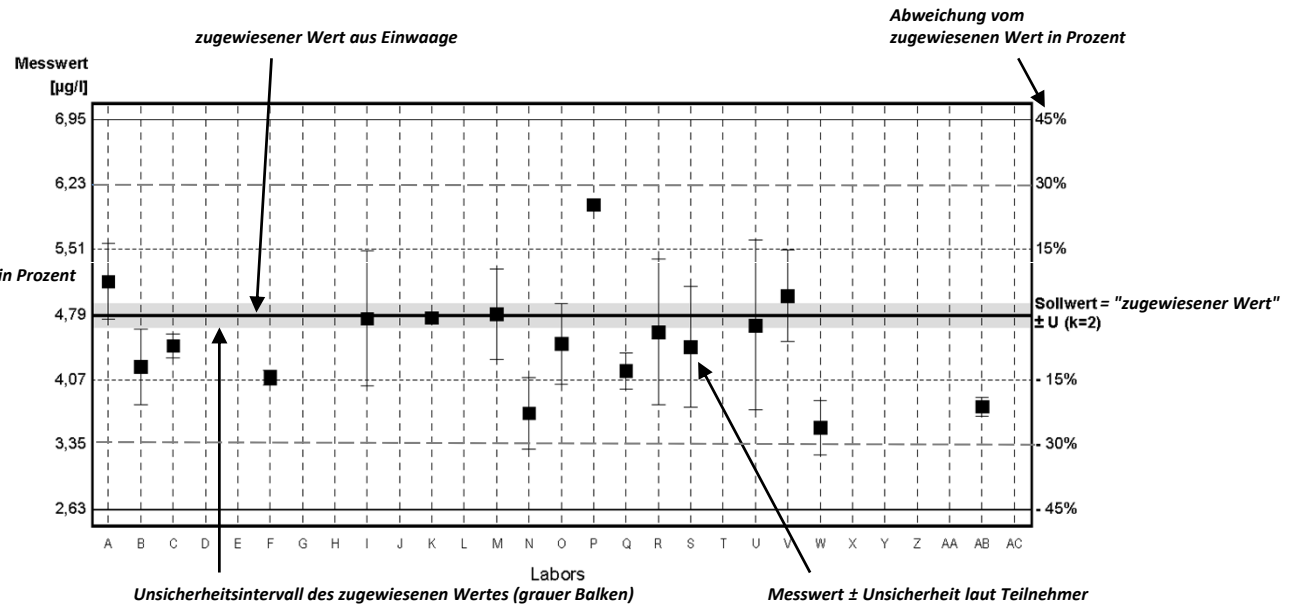
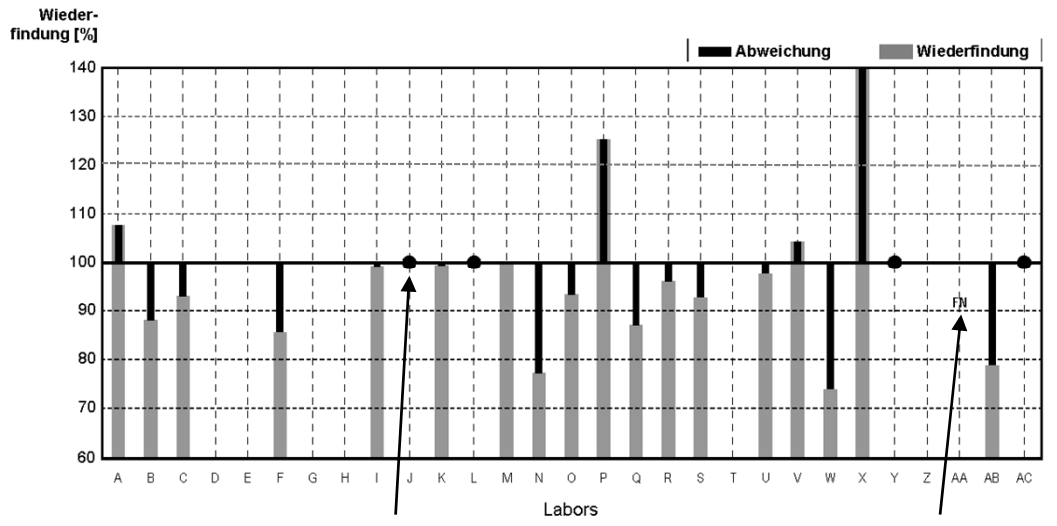


Diagramm 1: Messwerte mit zugehörigen Unsicherheitsintervallen



Ergebnis abgegeben, Berechnung der Wiederfindung oder Zuordnung FN, FP nicht möglich

Falsch negativ „< Ergebnis“ kleiner als der theoretische Sollwert

Diagramm 2: Wiederfindung und Abweichung vom zugewiesenen Wert

LEGENDE

Information

This report summarises the results of the round M174 (trace metals) within the IFA-Proficiency Testing Scheme for Water Analysis. The proficiency testing items M174A and M174B were distributed to 41 participants on Monday, 11 November 2024. Each participant received two proficiency testing items of 250 mL filled into LDPE bottles.

Closing date for reporting results to the IFA-Tulln was Friday, 6 December 2024. 40 participants submitted results. To make the participants anonymous, each laboratory obtained a letter code by random.

Proficiency testing items

The proficiency testing items consisted of artificial ground water spiked with pure standards. For the preparation, ultrapure water was spiked with concentrated solutions of salts to simulate the ionic composition of natural Austrian ground water. The ultrapure salts CaCO_3 , $\text{Mg}(\text{NO}_3)_2$, NaCl , KCl were used and the ultrapure acids H_2SO_4 and HCl were added. By this, the matrix of the proficiency testing items consisted of about 45.8 mg/L Ca, 19.5 mg/L Mg, 8.9 mg/L Na, 1.19 mg/L K, 19.5 mg/L SO_4^{2-} and 51.0 mg/L Cl⁻. Ultrapure HNO_3 (0.5 % v/v) was added to stabilise the proficiency testing item at a pH below 2, which meets the standard sampling procedure in the Austrian monitoring program.

Traces of Al, As, Ba, Cd, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, U and Zn were added, using certified standards. For most of the compounds added to the proficiency testing items, the assigned concentrations were higher than the minimum quantifiable values of the Austrian ground and river water monitoring program. The calculation of the assigned concentrations of the compounds was based on the mass of standard added to the proficiency testing items.

Homogeneity, accuracy and stability tests

Some proficiency testing items of the round M174A and M174B were analysed for all investigated parameters prior to shipment to the participants. The results are listed in the results tables and the parameter oriented part of the report ("IFA result").

To verify stability, all parameters of samples M174A and M174B were determined in several samples four weeks after shipment. The results are listed in the result tables ("Stability test") and the parameter oriented part of the report ("IFA result").

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

Results

Data evaluation was based on assigned concentrations that were calculated from the weights of the standards used to produce the proficiency testing items. 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 assigned concentrations, calculated from outlier-corrected data mean values ranged between 88.6 % (Sb in M174A) and 104.5 % (Se in M174A).

The between laboratory CVs covered the ranged between 2.2 % (Ba in M174B) and 10.7 % (Cr in M174A).

All confidence intervals of the outlier-corrected laboratory mean values except that for Sb (88.6 % \pm 4.7 %), Pb (95.5 % \pm 2.4 %), Cu (95.8 % \pm 2.2 %), U (95.6 % \pm 2.5 %) and Sn (93.6 % \pm 2.6 %) in M174A and Pb (95.5 % \pm 2.6 %), Ni (96.7 % \pm 2.3 %) and U (95.5 % \pm 2.6 %) in M174B encompass the corresponding assigned values with their uncertainties. For all other parameters, no difference could be detected between assigned concentrations and outlier corrected laboratory mean values statistically.

The standard uncertainties of all assigned values were checked according to the criterion $u(x_{pp}) < 0,3\sigma_{pp}$ oder $u(x_{pp}) < 0,1\delta E$ (DIN ISO 13528, Section 9.2) and met the requirement in all cases except for zinc in the test item M174A.

For these parameters, the comparison of the absolute difference between the assigned value (x_{pt}) and the laboratory mean value (\bar{X}), considering the measurement uncertainties $u(x_{pt})$ and $u(\bar{X})$, was additionally carried out. All parameters met the requirement:

$$|x_{pt} - \bar{X}| < 2 * \sqrt{u(x_{pt})^2 + u(\bar{X})^2} \quad (\text{DIN ISO 13528, Section 7 and E7})$$

Therefore, all determined assigned values with their standard uncertainties were adopted.

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 | assigned 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 assigned value) and a standard deviation. The z-score criteria were, except for Sr, determined from relative standard deviations from all interlaboratory comparisons that have been organised by the IFA-Tulln from 2013 to 2023. They represent average performance data of all former participating laboratories.

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

Strontium was offered for the first time in 2023, but not in the accredited area. To estimate the standard deviation for the proficiency assessment (based on the assigned value), all standard deviations achieved by the laboratories from all comparison tests carried out so far for Sr were used.

Calculation example:

A laboratory found 73.7 µg/L for the parameter Aluminium (recovery of 101.94 %). The assigned 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 7.8 %, which is 5.6 µg/L Al, when based on the assigned value.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{73.7 \mu\text{g/L} - 72.3 \mu\text{g/L}}{5.6 \mu\text{g/L}} \approx 0.25 \quad \text{or} \quad \frac{101.94 \% - 100 \%}{7.8 \%} \approx 0.25$$

| | | |
|---------------|-----------|---|
| z | z-score | |
| x_i | 73.7 µg/L | equivalent to 101.94 % (result of the laboratory) |
| X | 72.3 µg/L | equivalent to 100 % (assigned value) |
| σ_{pt} | 5.6 µg/L | equivalent to 7.8 % (standard deviation for proficiency assessment see table below) |

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

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

| Parameter | standard deviation for proficiency assessment based on the assigned value | Lower limit |
|-------------------------|---|-------------|
| Aluminium | 7.8 % | 7.5 µg/L |
| Antimony | 8.8 % | 0.15 µg/L |
| Arsenic | 7.1 % | 0.5 µg/L |
| Barium | 4.5 % | 12 µg/L |
| Cadmium | 5.2 % | 0.1 µg/L |
| Chromium | 6.2 % | 0.5 µg/L |
| Copper | 7.5 % | 1.0 µg/L |
| Iron | 6.6 % | 10 µg/L |
| Lead | 6.6 % | 0.3 µg/L |
| Manganese | 5.2 % | 2.0 µg/L |
| Molybdenum | 6.1 % | 0.4 µg/L |
| Nickel | 6.9 % | 0.75 µg/L |
| Selenium | 8.8 % | 0.45 µg/L |
| Strontium ¹⁾ | 4.5 % | 41 µg/L |
| Tin | 8.4 % | 0.5 µg/L |
| Uranium | 5.6 % | 0.35 µg/L |
| Zinc | 6.9 % | 3 µg/L |

¹⁾ Strontium was offered for the first time in 2023, but not in the accredited range. To estimate the standard deviation for the proficiency assessment (relative to the assigned value), all standard deviations achieved by the laboratories from the proficiency testing rounds conducted so far for Sr were used.

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

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

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

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

Illustration of results

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

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

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

Overview of measurement methods

The participants were free to choose the analytical method. The test methods should be consistent with the methods applied in routine. An overview of the methods used can be found at the end of the report.

"< values" or "> values" as well as significantly different measured values, which would lead to confusing scaling, are not included in the graphics.

Tulln, 17 December 2024

Sample M106A
Parameter Copper

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

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

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

Recovery of assigned value in percent

z-Score of the laboratory

An asterik indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

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

Between laboratory standard deviation

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

Number of results used for calculation of statistic parameters

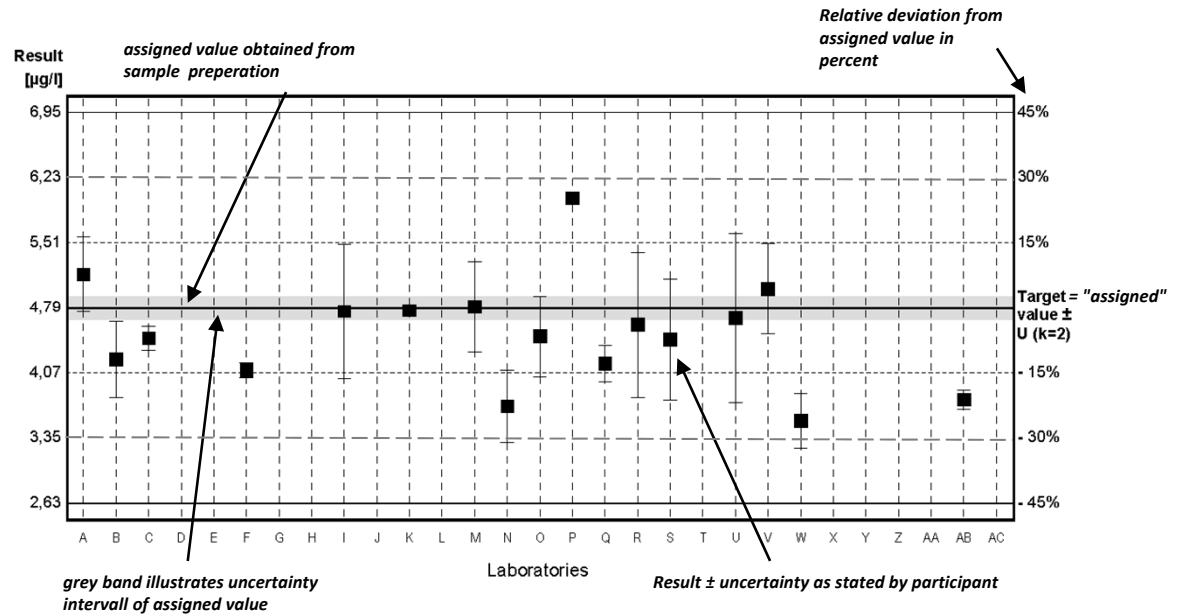


Diagram 1: Measurement results and their uncertainties

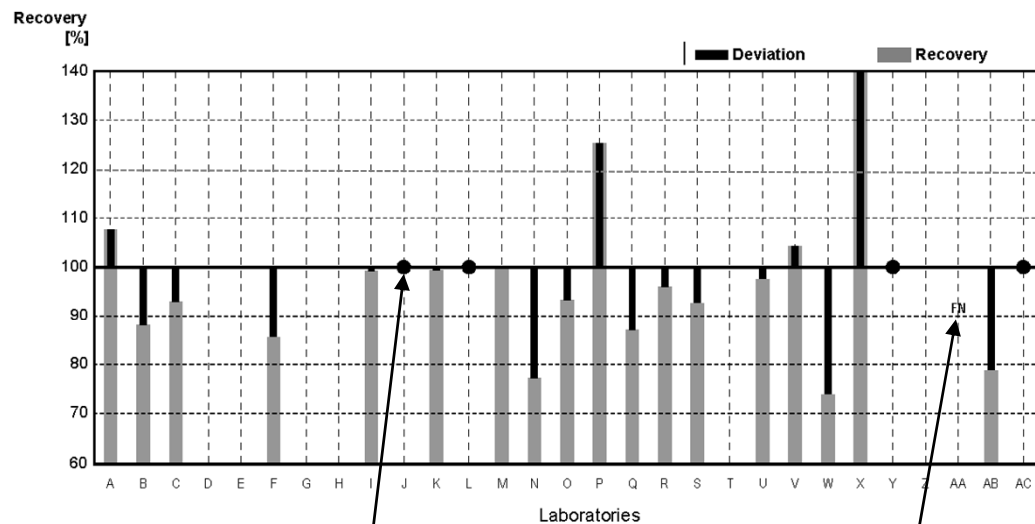


Diagram 2: Recoveries and deviations from assigned values

EXPLANATION

Rohdatenblätter und Parameterorientierte Auswertung Tables and Parameter Oriented Part

Eignungsprüfungsrunde / Proficiency testing round
M174

Metalle / Metals

Versand / Dispatch: 11.11.2024

Results M174A

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----------------|-----------|----------|---------|--------|-------|---------|----------|-------|
| assigned value | 18.8 | 1.210 | 5.02 | 25.06 | 2.79 | 0.398 | 0.795 | 33.9 |
| IFA result | 19.2 | 1.08 | 4.68 | 24.9 | 2.65 | 0.402 | 0.79 | 35.2 |
| Stability test | 18.3 | 1.07 | 5.32 | 24.9 | 2.67 | 0.402 | 0.80 | 33.0 |
| A | 18.6 | 1.30 | 5.12 | 24.3 | 2.76 | 0.406 | 0.825 | 33.5 |
| B | 33.94 | | 5.069 | | 2.507 | 0.365 | 0.721 | 32.97 |
| C | 20.0 | 1.10 | 5.00 | 25.0 | 2.70 | 0.380 | 0.90 | 32.0 |
| D | 0.100 | 0.960 | 5.1 | 25.2 | 2.68 | 0.401 | 0.80 | 30.0 |
| E | 21.0 | <1 | 4.80 | 24.0 | 2.70 | 0.375 | <1 | 32.8 |
| F | | | | | 3.55 | | | |
| G | 18.7 | 1.26 | 5.13 | 24.9 | 2.73 | 0.424 | 0.874 | 33.8 |
| H | 19.18 | 0.952 | 4.746 | 25.27 | 2.826 | 0.397 | 0.762 | 33.92 |
| I | 19.6 | 1.15 | 5.21 | 26.7 | 2.83 | 0.404 | 0.81 | 33.7 |
| J | 21.0 | 1.07 | 5.17 | 24.3 | 2.64 | 0.396 | 0.907 | 35.0 |
| K | 20.4 | | | 25.8 | 3.08 | 0.450 | 0.990 | 34.3 |
| L | 19.2 | 1.01 | 4.80 | 21.4 | 2.32 | 0.366 | 0.796 | 30.6 |
| M | 19.09 | 1.016 | 5.115 | 24.69 | 2.664 | 0.3913 | 0.7396 | 33.51 |
| N | 16.6 | | 5.37 | | 2.82 | 0.401 | <1 | 28.4 |
| O | 17.0 | 1.09 | 4.55 | 24.9 | 2.68 | 0.394 | <1.0 | 33.0 |
| P | 20.4 | 0.95 | 5.07 | 25.1 | 2.50 | 0.370 | 0.80 | 34.4 |
| Q | 17.8 | 1.03 | 4.95 | 24.1 | 2.24 | 0.386 | 0.66 | 34.1 |
| R | 19.9 | 1.10 | 5.33 | 25.5 | 2.60 | 0.393 | 0.78 | 32.2 |
| S | 18.32 | | < 5.0 | | <3 | < 1.0 | < 2.0 | 33.6 |
| T | 28.03 | | | | | | | 38.00 |
| U | <20 | | | | <6 | <0.5 | <5 | 32.6 |
| V | 21.2 | 1.085 | 5.24 | 26.4 | 2.66 | 0.409 | 0.95 | 32.8 |
| W | <20 | 0.833 | 4.89 | 23.7 | 2.68 | 0.398 | <1 | 31.8 |
| X | | 1.11 | 5.47 | 27.1 | 2.59 | 0.402 | 0.77 | 32.5 |
| Y | 13.2 | 1.13 | 4.86 | 24.8 | 2.66 | 0.397 | 0.999 | 30.1 |
| Z | 19.7 | 1.08 | 5.24 | 25.8 | 2.80 | 0.389 | <1 | 34.4 |

All data in µg/L

Uncertainties M174A

| | Aluminium ± | Antimony ± | Arsenic ± | Barium ± | Lead ± | Cadmium ± | Chromium ± | Iron ± |
|----------------|----------------|---------------|--------------|-------------|-----------|--------------|---------------|-----------|
| assigned value | 0.3 | 0.018 | 0.03 | 0.13 | 0.03 | 0.006 | 0.010 | 0.4 |
| IFA result | 0.7 | 0.09 | 0.43 | 0.9 | 0.13 | 0.025 | 0.06 | 2.7 |
| Stability test | 0.7 | 0.09 | 0.49 | 0.9 | 0.14 | 0.025 | 0.06 | 2.5 |
| A | 2.4 | 0.14 | 0.6 | 1.8 | 0.17 | 0.033 | 0.099 | 3.25 |
| B | 0.75 | | 0.259 | | 0.103 | 0.004 | 0.068 | 0.59 |
| C | 2.00 | 0.17 | 0.60 | 3.80 | 0.216 | 0.0304 | 0.108 | 8.32 |
| D | 0.01 | 0.06 | 0.33 | 1.64 | 0.18 | 0.03 | 0.04 | 1.01 |
| E | 4.2 | | 0.96 | 4.8 | 0.54 | 0.075 | | 6.6 |
| F | | | | | 0.40 | | | |
| G | 1.3 | 0.08 | 0.61 | 2.7 | 0.16 | 0.025 | 0.057 | 2.8 |
| H | 3.11 | 0.09 | 0.47 | 2.07 | 0.34 | 0.03 | 0.06 | 3.46 |
| I | 3.3 | 0.16 | 0.89 | 2.7 | 0.34 | 0.048 | 0.15 | 6.1 |
| J | 0.45 | 0.031 | 0.19 | 0.40 | 0.020 | 0.023 | 0.006 | 0.21 |
| K | 3.0 | | | 3.0 | 0.42 | 0.057 | 0.13 | 4.3 |
| L | 3.8 | 0.20 | 0.96 | 4.3 | 0.46 | 0.073 | 0.159 | 6.1 |
| M | 3.06 | 0.122 | 0.665 | 2.22 | 0.612 | 0.0352 | 0.1036 | 3.02 |
| N | 1.69 | | 0.0626 | | 0.0505 | 0.00281 | | 0.578 |
| O | 3.4 | 0.16 | 0.68 | 3.0 | 0.32 | 0.047 | | 5.0 |
| P | | | | | | | | |
| Q | 4.5 | 0.26 | 1.48 | 6.0 | 0.56 | 0.096 | 0.20 | 10.2 |
| R | 2.0 | 0.11 | 0.53 | 2.6 | 0.26 | 0.039 | 0.08 | 3.2 |
| S | 3.0 | | | | | | | 3.3 |
| T | 5.61 | | | | | | | 4.56 |
| U | | | | | | | | 5.2 |
| V | 2.45 | 0.09 | 0.51 | | 0.28 | 0.05 | | 2.28 |
| W | | 0.100 | 0.244 | 4.75 | 0.617 | 0.034 | | 4.45 |
| X | | 0.111 | 0.821 | 2.7 | 0.259 | 0.040 | 0.077 | 3.25 |
| Y | 2.6 | 0.225 | 0.973 | 4.96 | 0.532 | 0.079 | 0.200 | 6.02 |
| Z | 2.95 | 0.16 | 0.79 | 3.86 | 0.42 | 0.058 | | 5.16 |

All data in µg/L

Results M174A

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----------------|-----------|----------|---------|--------|-------|---------|----------|--------|
| assigned value | 18.8 | 1.210 | 5.02 | 25.06 | 2.79 | 0.398 | 0.795 | 33.9 |
| IFA result | 19.2 | 1.08 | 4.68 | 24.9 | 2.65 | 0.402 | 0.79 | 35.2 |
| Stability test | 18.3 | 1.07 | 5.32 | 24.9 | 2.67 | 0.402 | 0.80 | 33.0 |
| AA | 18.56 | 1.131 | 5.196 | 24.76 | 2.640 | 0.415 | 0.735 | 34.61 |
| AB | 18.3 | 1.03 | 5.1 | 24.6 | 2.67 | <0.5 | <5 | 34.0 |
| AC | 17.9 | 1.21 | 5.7 | | 2.39 | 0.429 | 0.85 | 35.4 |
| AD | 19.9 | | 5.2 | | 2.67 | 0.430 | <2 | 44.0 |
| AE | 17.4 | 1.07 | 5.04 | 23.4 | 2.46 | <0.3 | <1.0 | 31.1 |
| AF | | | | | | | | 34.1 |
| AG | 17.6 | 1.09 | 5.16 | 24.5 | 2.51 | 0.367 | 0.75 | 31.8 |
| AH | | 1.09 | 5.4 | 25.0 | 2.72 | 0.408 | 0.85 | |
| AI | 18.927 | 1.025 | 5.032 | 22.923 | 2.790 | 0.382 | 0.796 | 33.225 |
| AJ | 18.82 | 1.00 | 4.85 | 26.43 | 2.88 | 0.399 | 0.77 | 31.23 |
| AK | | | | | | 0.276 | | |
| AL | 7.54 | <2 | 7.24 | 29.0 | 2.88 | 0.139 | 0.684 | 29.3 |
| AM | 18.0 | 0.869 | | 22.4 | | | | 28.1 |
| AN | 18.3 | 1.28 | 5.3 | 25.4 | 2.67 | 0.396 | 0.79 | 39.2 |
| AO | | | | | | | | |

All data in µg/L

Uncertainties M174A

| | Aluminium ± | Antimony ± | Arsenic ± | Barium ± | Lead ± | Cadmium ± | Chromium ± | Iron ± |
|----------------|----------------|---------------|--------------|-------------|-----------|--------------|---------------|-----------|
| assigned value | 0.3 | 0.018 | 0.03 | 0.13 | 0.03 | 0.006 | 0.010 | 0.4 |
| IFA result | 0.7 | 0.09 | 0.43 | 0.9 | 0.13 | 0.025 | 0.06 | 2.7 |
| Stability test | 0.7 | 0.09 | 0.49 | 0.9 | 0.14 | 0.025 | 0.06 | 2.5 |
| AA | | | | | | | | |
| AB | 3.66 | 0.206 | 1.02 | 3.69 | 0.53 | | | 6.8 |
| AC | 1.47 | 0.082 | 0.54 | | 0.122 | 0.093 | 0.134 | 5.6 |
| AD | 5 | | 1.5 | | 1 | 0.1 | | 30 |
| AE | 3.0 | 0.2 | 0.8 | 3.5 | 0.4 | 0.04 | 0.1 | 4.0 |
| AF | | | | | | | | 2.7 |
| AG | 4.4 | 0.27 | 1.29 | 6.13 | 0.63 | 0.092 | 0.19 | 8.0 |
| AH | | 0.26 | 1.1 | 1.8 | 0.33 | 0.110 | 0.08 | |
| AI | 3.331 | 0.284 | 0.633 | 2.884 | 0.417 | 0.033 | 0.125 | 4.030 |
| AJ | 2.82 | 0.15 | 0.73 | 3.96 | 0.43 | 0.06 | 0.12 | 4.68 |
| AK | | | | | | 0.03 | | |
| AL | 0.43 | | 0.62 | 2.73 | 0.55 | 0.023 | 0.069 | 1.52 |
| AM | 1.80 | 0.0869 | | 2.24 | | | | 2.81 |
| AN | 1.81 | 0.118 | 0.66 | 2.77 | 0.235 | 0.046 | 0.058 | 5.9 |
| AO | | | | | | | | |

All data in µg/L

Results M174A

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----------------|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| assigned value | 4.63 | 8.57 | 1.48 | 2.84 | 0.936 | 339 | 1.723 | 28.7 | 1.89 |
| IFA result | 4.64 | 8.5 | 1.45 | 2.83 | 0.88 | 330 | 1.52 | 39.1 | 1.80 |
| Stability test | 4.77 | 8.6 | 1.42 | 2.85 | 1.12 | 318 | 1.61 | 39.5 | 1.80 |
| A | 4.78 | 8.49 | 1.61 | 2.97 | 0.965 | 344 | 1.70 | 29.6 | 1.81 |
| B | 4.505 | 8.213 | | 2.684 | 3.020 | 339.5 | 1.532 | 29.61 | |
| C | 4.50 | 9.00 | 1.50 | 2.70 | 1.00 | 346.3 | 1.63 | 28.0 | 1.80 |
| D | 4.14 | 8.6 | 1.37 | 2.87 | 0.92 | 349 | | 28.3 | 1.72 |
| E | 4.38 | 8.33 | | 2.53 | <1 | 328 | 1.60 | 28.0 | 1.38 |
| F | | | | 2.63 | | | | | |
| G | 4.57 | 8.54 | 1.53 | 2.82 | 0.99 | 357 | 1.67 | 27.7 | 1.78 |
| H | 4.767 | 8.549 | 1.376 | 2.716 | 0.843 | 342.8 | 1.701 | 28.34 | 1.728 |
| I | 4.57 | 8.7 | 1.56 | 2.77 | 0.98 | 342 | 1.74 | 28.7 | 1.88 |
| J | 4.50 | 8.53 | 1.44 | 2.86 | 0.901 | 314 | 1.63 | 28.0 | 1.83 |
| K | 4.57 | 8.71 | 1.64 | 2.26 | | 352 | | 30.3 | |
| L | 3.99 | 8.44 | 1.46 | 2.59 | <1.0 | 314 | 10.8 | 28.0 | 1.71 |
| M | 4.326 | 8.188 | 1.376 | 2.664 | 0.940 | 333.9 | 1.622 | 28.50 | 1.656 |
| N | 4.52 | <10 | | 2.82 | <1 | | 1.81 | 26.9 | |
| O | 4.44 | <10.0 | 1.43 | 2.80 | <1.0 | 336 | 1.69 | 25.4 | 1.34 |
| P | 4.29 | 8.53 | 1.48 | 2.72 | 0.90 | 344 | 1.48 | 26.7 | 1.71 |
| Q | 3.87 | 8.0 | 1.46 | 2.76 | 1.01 | | 1.69 | 27.8 | |
| R | 4.39 | 8.43 | 1.48 | 2.80 | 0.99 | 400 | 1.65 | 28.1 | 1.80 |
| S | < 5.0 | 8.3 | | <5 | <10 | | | 28.36 | |
| T | | 8.83 | 1.82 | | | | | 25.07 | |
| U | <150 | 8.4 | | <5 | | | | <500 | <10 |
| V | 4.40 | 8.5 | 1.95 | 2.75 | 1.04 | | 1.86 | 28.8 | 2.58 |
| W | 4.14 | 8.40 | 1.44 | 2.50 | <1 | 329 | 1.64 | 27.4 | <10 |
| X | 4.46 | 8.0 | 1.66 | 2.77 | 1.02 | 321 | 1.69 | 30.3 | 1.73 |
| Y | 4.55 | 7.65 | 1.55 | 2.93 | 0.921 | 311 | 1.56 | 29.1 | 1.65 |
| Z | 4.66 | 8.43 | 1.52 | 2.60 | 1.00 | 339 | 1.85 | 28.0 | 1.80 |

All data in µg/L

Uncertainties M174A

| | Copper ± | Manganese ± | Molybdenum ± | Nickel ± | Selenium ± | Strontium ± | Uranium ± | Zinc ± | Tin ± |
|----------------|-------------|----------------|-----------------|-------------|---------------|----------------|--------------|-----------|----------|
| assigned value | 0.04 | 0.14 | 0.05 | 0.03 | 0.018 | 3 | 0.015 | 2.5 | 0.03 |
| IFA result | 0.33 | 0.5 | 0.13 | 0.14 | 0.12 | 32 | 0.15 | 5.1 | 0.12 |
| Stability test | 0.34 | 0.6 | 0.12 | 0.14 | 0.15 | 31 | 0.16 | 5.1 | 0.12 |
| A | 0.57 | 0.72 | 0.18 | 0.51 | 0.08 | 30.3 | 0.12 | 2.3 | 0.15 |
| B | 0.187 | 0.106 | | 0.095 | 0.894 | 13.1 | 0.138 | 0.70 | |
| C | 0.360 | 0.900 | 0.230 | 0.270 | 0.150 | 51.95 | 0.082 | 2.80 | 0.270 |
| D | 0.10 | 0.26 | 0.09 | 0.07 | 0.06 | 4.20 | | 0.77 | 0.14 |
| E | 0.088 | 1.7 | | 0.51 | | 66 | 0.32 | 5.6 | 0.28 |
| F | | | | 0.30 | | | | | |
| G | 0.41 | 0.60 | 0.16 | 0.18 | 0.11 | 39 | 0.20 | 3.60 | 0.20 |
| H | 0.53 | 0.71 | 0.23 | 0.26 | 0.08 | 42.5 | 0.24 | 5.02 | 0.24 |
| I | 0.50 | 1.3 | 0.20 | 0.64 | 0.33 | 48 | 0.35 | 4.6 | 0.32 |
| J | 0.035 | 0.059 | 0.021 | 0.035 | 0.027 | 4.04 | 0.021 | 0.35 | 0.029 |
| K | 0.54 | 1.2 | 0.34 | 0.28 | | 40 | | 3.7 | |
| L | 0.80 | 1.69 | 0.29 | 0.52 | | 63 | 2.2 | 5.6 | 0.34 |
| M | 0.908 | 1.310 | 0.220 | 0.480 | 0.141 | 46.7 | 0.243 | 3.42 | 0.364 |
| N | 0.0655 | | | 0.115 | | | 0.0548 | 0.088 | |
| O | 0.53 | | 0.17 | 0.31 | | 50 | 0.25 | 3.8 | 0.20 |
| P | | | | | | | | | |
| Q | 0.97 | 2.4 | 0.36 | 0.69 | 0.25 | | 0.42 | 7.0 | |
| R | 0.44 | 0.84 | 0.15 | 0.28 | 0.10 | 60 | 0.17 | 2.8 | 0.18 |
| S | | 0.83 | | | | | | 4.0 | |
| T | | 2.21 | 0.45 | | | | | 5.26 | |
| U | | 1.2 | | | | | | | |
| V | | 0.57 | | 0.23 | 0.17 | | | 7.49 | |
| W | 1.160 | 0.63 | 0.144 | 0.200 | | 52.66 | 0.20 | 6.86 | |
| X | 0.446 | 0.8 | 0.166 | 0.277 | 0.153 | 32.1 | 0.169 | 3.03 | 0.173 |
| Y | 0.91 | 1.53 | 0.31 | 0.58 | 0.184 | 62.2 | 0.311 | 5.82 | 0.33 |
| Z | 0.70 | 1.26 | 0.23 | 0.39 | 0.15 | 50.9 | 0.28 | 4.20 | 0.27 |

All data in µg/L

Results M174A

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----------------|---------|-----------|------------|--------|----------|-----------|---------|--------|------|
| assigned value | 4.63 | 8.57 | 1.48 | 2.84 | 0.936 | 339 | 1.723 | 28.7 | 1.89 |
| IFA result | 4.64 | 8.5 | 1.45 | 2.83 | 0.88 | 330 | 1.52 | 39.1 | 1.80 |
| Stability test | 4.77 | 8.6 | 1.42 | 2.85 | 1.12 | 318 | 1.61 | 39.5 | 1.80 |
| AA | 5.258 | 8.875 | 1.544 | 2.832 | 1.044 | 352.2 | 1.667 | 28.38 | |
| AB | 4.47 | <10 | 1.53 | 2.71 | <1 | 336 | 1.64 | 28.2 | 1.84 |
| AC | 4.45 | 8.9 | | 2.93 | 1.00 | | 1.59 | 29.5 | |
| AD | 4.29 | 11.0 | | 3.18 | | | | 29.0 | |
| AE | <10 | 8.0 | 1.38 | 2.31 | <1.00 | | 1.96 | 28.8 | <10 |
| AF | | <10 | | | | | | | |
| AG | 4.10 | 7.98 | 1.46 | 2.55 | 0.99 | | 1.53 | 27.5 | 1.71 |
| AH | | | 1.57 | 2.96 | 1.00 | | 1.67 | 29.0 | 1.90 |
| AI | <50.000 | 8.246 | 1.347 | 2.505 | <1.000 | 317.853 | 1.609 | 28.759 | |
| AJ | 4.47 | 8.50 | 1.29 | 2.74 | 0.97 | 352 | 1.63 | 28.54 | 1.80 |
| AK | | | | | | | | | |
| AL | 3.68 | 7.70 | 5.90 | 2.62 | 8.54 | 309 | 8.01 | 27.2 | <5 |
| AM | | | 1.31 | | | 310 | | | |
| AN | 4.59 | 8.7 | | 2.76 | 0.99 | 328 | 1.62 | 28.1 | |
| AO | | | | | | | | | |

All data in µg/L

Uncertainties M174A

| | Copper ± | Manganese ± | Molybdenum ± | Nickel ± | Selenium ± | Strontium ± | Uranium ± | Zinc ± | Tin ± |
|----------------|-------------|----------------|-----------------|-------------|---------------|----------------|--------------|-----------|----------|
| assigned value | 0.04 | 0.14 | 0.05 | 0.03 | 0.018 | 3 | 0.015 | 2.5 | 0.03 |
| IFA result | 0.33 | 0.5 | 0.13 | 0.14 | 0.12 | 32 | 0.15 | 5.1 | 0.12 |
| Stability test | 0.34 | 0.6 | 0.12 | 0.14 | 0.15 | 31 | 0.16 | 5.1 | 0.12 |
| AA | | | | | | | | | |
| AB | 0.89 | | 0.306 | 0.54 | | 67 | 0.328 | 5.6 | 0.368 |
| AC | 0.73 | 0.427 | | 0.270 | 0.055 | | 0.056 | 3.84 | |
| AD | 1 | 10 | | 1 | | | | 10 | |
| AE | 1.5 | 1.1 | 0.2 | 0.6 | 0.2 | | 0.29 | 4.3 | 1.7 |
| AF | | | | | | | | | |
| AG | 1.03 | 2.00 | 0.37 | 0.64 | 0.25 | | 0.38 | 6.9 | 0.43 |
| AH | | | 0.25 | 0.44 | 0.18 | | 0.22 | 2.0 | |
| AI | | 0.661 | 0.390 | 0.445 | | 47.042 | 0.194 | 5.177 | |
| AJ | 0.67 | 1.27 | 0.19 | 0.41 | 0.15 | 53 | 0.24 | 4.28 | 0.27 |
| AK | | | | | | | | | |
| AL | 0.11 | 0.45 | 0.93 | 0.17 | 0.70 | 0.31 | 0.77 | 1.31 | |
| AM | | | 0.131 | | | 31.0 | | | |
| AN | 0.38 | 0.68 | | 0.204 | 0.113 | 16.7 | 0.156 | 4.22 | |
| AO | | | | | | | | | |

All data in µg/L

Results M174B

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----------------|-----------|----------|---------|--------|-------|---------|----------|-------|
| assigned value | 38.0 | 0.445 | 1.804 | 60.3 | 7.08 | 1.030 | 5.26 | 83.8 |
| IFA result | 39.0 | 0.422 | 1.71 | 58.1 | 6.3 | 1.03 | 5.13 | 85 |
| Stability test | 37.4 | 0.418 | 1.87 | 58.3 | 6.4 | 1.00 | 5.20 | 80 |
| A | 37.4 | 0.57 | 1.76 | 58.8 | 7.03 | 1.06 | 5.44 | 81.5 |
| B | 64.59 | | 1.927 | | 6.359 | 0.949 | 4.915 | 80.01 |
| C | 39.0 | <0.5 | 1.90 | 60.0 | 6.90 | 1.03 | 5.30 | 88.0 |
| D | 4.00 | 0.430 | 1.81 | 59 | 6.19 | 0.98 | 5.2 | 74 |
| E | 42.0 | <1 | 1.73 | 59.3 | 6.85 | 0.900 | 5.15 | 82.3 |
| F | | | | | 7.35 | | | |
| G | 37.5 | 0.50 | 1.82 | 59 | 6.70 | 1.03 | 5.44 | 81 |
| H | 39.09 | 0.427 | 1.701 | 60.70 | 7.232 | 1.012 | 5.341 | 85.10 |
| I | 39.8 | 0.468 | 1.87 | 63.7 | 7.08 | 1.06 | 5.20 | 83.9 |
| J | 40.5 | 0.451 | 1.75 | 59.0 | 7.07 | 1.01 | 5.19 | 83.3 |
| K | 39.6 | | | 59.9 | 7.64 | 1.02 | 5.16 | 81.0 |
| L | 31.6 | 0.435 | 1.81 | 51.2 | 5.93 | 0.965 | 4.32 | 73.1 |
| M | 38.57 | 0.4364 | 1.862 | 60.46 | 6.726 | 1.013 | 4.919 | 83.03 |
| N | 36.3 | | 1.86 | | 7.20 | 1.04 | 5.13 | 76.4 |
| O | 34.6 | <1.0 | 1.72 | 57.4 | 6.82 | 1.02 | 5.13 | 81.8 |
| P | 40.3 | 0.450 | 1.80 | 60.8 | 6.31 | 0.98 | 5.29 | 83.7 |
| Q | 36.0 | 0.461 | 1.87 | 59.6 | 6.1 | 0.99 | 5.0 | 87.0 |
| R | 40.9 | 0.452 | 1.94 | 61.8 | 6.59 | 1.02 | 5.19 | 80.1 |
| S | 37.39 | | < 5.0 | | 6.79 | < 1.0 | 5.32 | 83.4 |
| T | 44.15 | | | | | | | 84.55 |
| U | 34.0 | | | | 7.0 | 1.00 | <5 | 81 |
| V | 42.6 | 0.543 | 1.99 | 62.7 | 6.65 | 0.995 | 5.19 | 79.5 |
| W | 38.4 | <0.5 | 1.82 | 56.3 | 6.70 | 1.02 | 4.89 | 80.0 |
| X | | 0.444 | 1.96 | 68.9 | 6.54 | 1.07 | 4.98 | 81.2 |
| Y | 32.9 | 0.451 | 1.77 | 59.7 | 6.82 | 1.04 | 5.59 | 80.1 |
| Z | 39.0 | <1 | 1.93 | 59.3 | 7.31 | 1.01 | 5.23 | 83.9 |

All data in µg/L

Uncertainties M174B

| | Aluminium ± | Antimony ± | Arsenic ± | Barium ± | Lead ± | Cadmium ± | Chromium ± | Iron ± |
|----------------|----------------|---------------|--------------|-------------|-----------|--------------|---------------|-----------|
| assigned value | 0.4 | 0.015 | 0.015 | 0.2 | 0.04 | 0.011 | 0.03 | 0.5 |
| IFA result | 1.3 | 0.042 | 0.16 | 1.2 | 0.3 | 0.06 | 0.16 | 6 |
| Stability test | 1.3 | 0.042 | 0.17 | 1.2 | 0.3 | 0.06 | 0.16 | 6 |
| A | 4.8 | 0.06 | 0.20 | 4.4 | 0.44 | 0.09 | 0.65 | 7.9 |
| B | 3.85 | | 0.081 | | 0.253 | 0.016 | 0.162 | 1.39 |
| C | 3.90 | | 0.228 | 9.00 | 0.552 | 0.0824 | 0.636 | 22.88 |
| D | 2.18 | 0.01 | 0.04 | 0.79 | 0.09 | 0.01 | 0.08 | 0.84 |
| E | 8.4 | | 0.35 | 12 | 1.4 | 0.18 | 1.0 | 16 |
| F | | | | | 0.70 | | | |
| G | 2.7 | 0.03 | 0.22 | 6.5 | 0.40 | 0.06 | 0.35 | 6.7 |
| H | 6.33 | 0.04 | 0.17 | 4.98 | 0.88 | 0.09 | 0.39 | 8.68 |
| I | 4.8 | 0.065 | 0.32 | 6.4 | 0.85 | 0.13 | 0.99 | 15.1 |
| J | 0.87 | 0.017 | 0.087 | 0.99 | 0.040 | 0.074 | 0.031 | 0.36 |
| K | 5.8 | | | 7.0 | 1.0 | 0.13 | 0.69 | 10 |
| L | 6.3 | 0.087 | 0.36 | 10.2 | 1.19 | 0.193 | 0.86 | 14.6 |
| M | 6.17 | 0.0524 | 0.242 | 5.44 | 1.547 | 0.091 | 0.689 | 7.47 |
| N | 1.60 | | 0.0704 | | 0.0479 | 0.0409 | 0.0630 | 0.608 |
| O | 6.9 | | 0.26 | 6.9 | 0.82 | 0.12 | 0.77 | 12 |
| P | | | | | | | | |
| Q | 9.0 | 0.115 | 0.56 | 14.9 | 1.5 | 0.25 | 1.5 | 26.1 |
| R | 4.1 | 0.045 | 0.20 | 6.2 | 0.66 | 0.10 | 0.52 | 8.0 |
| S | 6.0 | | | | 1.20 | | 0.40 | 8.3 |
| T | 8.83 | | | | | | | 10.15 |
| U | 3.4 | | | | 1.8 | 0.11 | | 13 |
| V | 6.7 | | 0.10 | 4.61 | 0.84 | 0.01 | 0.84 | 5.40 |
| W | 3.458 | | 0.091 | 11.26 | 1.541 | 0.086 | 0.489 | 11.196 |
| X | | 0.0444 | 0.294 | 6.89 | 0.654 | 0.107 | 0.498 | 8.12 |
| Y | 6.6 | 0.090 | 0.354 | 11.9 | 1.36 | 0.208 | 1.12 | 16.0 |
| Z | 5.85 | | 0.29 | 8.90 | 1.10 | 0.15 | 0.78 | 12.6 |

All data in µg/L

Results M174B

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----------------|-----------|----------|---------|--------|-------|---------|----------|--------|
| assigned value | 38.0 | 0.445 | 1.804 | 60.3 | 7.08 | 1.030 | 5.26 | 83.8 |
| IFA result | 39.0 | 0.422 | 1.71 | 58.1 | 6.3 | 1.03 | 5.13 | 85 |
| Stability test | 37.4 | 0.418 | 1.87 | 58.3 | 6.4 | 1.00 | 5.20 | 80 |
| AA | 38.36 | 0.479 | 1.868 | 59.22 | 6.425 | 1.056 | 5.352 | 86.38 |
| AB | 37.9 | <1 | 1.92 | 60 | 6.6 | 1.05 | 5.3 | 86 |
| AC | 36.8 | 0.478 | 2.05 | | 6.0 | 1.10 | 5.7 | 89 |
| AD | 35.6 | | 1.80 | | 7.1 | 1.08 | 5.8 | 92 |
| AE | 38.0 | <1.00 | 1.95 | 59 | 6.6 | 0.91 | 5.1 | 79 |
| AF | | | | | | | | 85 |
| AG | 36.7 | 0.50 | 1.84 | 58.4 | 6.23 | 0.95 | 5.06 | 79.6 |
| AH | | 0.434 | 1.96 | 60 | 6.8 | 1.02 | 5.5 | |
| AI | 34.706 | <1.000 | 1.762 | 55.012 | 6.844 | 0.998 | 5.019 | 81.913 |
| AJ | 39.94 | 0.433 | 1.72 | 64.15 | 7.23 | 1.06 | 5.16 | 77.05 |
| AK | | | | | | 0.893 | | |
| AL | 20.6 | 3.21 | <5 | 65.0 | 6.98 | 0.658 | 4.84 | 71.3 |
| AM | 36.8 | 0.413 | | 57.9 | | | | 71.1 |
| AN | 37.2 | 0.59 | 2.08 | 60 | 6.7 | 1.02 | 5.3 | 93 |
| AO | | | | | | | | |

All data in µg/L

Uncertainties M174B

| | Aluminium ± | Antimony ± | Arsenic ± | Barium ± | Lead ± | Cadmium ± | Chromium ± | Iron ± |
|----------------|----------------|---------------|--------------|-------------|-----------|--------------|---------------|-----------|
| assigned value | 0.4 | 0.015 | 0.015 | 0.2 | 0.04 | 0.011 | 0.03 | 0.5 |
| IFA result | 1.3 | 0.042 | 0.16 | 1.2 | 0.3 | 0.06 | 0.16 | 6 |
| Stability test | 1.3 | 0.042 | 0.17 | 1.2 | 0.3 | 0.06 | 0.16 | 6 |
| AA | | | | | | | | |
| AB | 7.6 | | 0.384 | 8.9 | 1.33 | 0.158 | 0.83 | 17.3 |
| AC | 3.02 | 0.0325 | 0.195 | | 0.306 | 0.239 | 0.90 | 14.2 |
| AD | 8 | | 1 | | 1.2 | 0.15 | 1 | 30 |
| AE | 6.5 | 0.2 | 0.3 | 8.8 | 1.0 | 0.12 | 0.7 | 10.2 |
| AF | | | | | | | | 7 |
| AG | 9.2 | 0.13 | 0.46 | 14.6 | 1.56 | 0.24 | 1.27 | 19.9 |
| AH | | 0.104 | 0.39 | 4 | 0.8 | 0.28 | 0.05 | |
| AI | 6.108 | | 0.222 | 6.921 | 1.024 | 0.087 | 0.790 | 9.936 |
| AJ | 5.99 | 0.065 | 0.26 | 9.62 | 1.08 | 0.16 | 0.77 | 11.56 |
| AK | | | | | | 0.08 | | |
| AL | 1.38 | 0.18 | | 2.99 | 1.54 | 0.02 | 0.24 | 2.07 |
| AM | 3.68 | 0.0413 | | 5.79 | | | | 7.11 |
| AN | 2.83 | 0.054 | 0.26 | 6.5 | 0.59 | 0.117 | 0.387 | 13.9 |
| AO | | | | | | | | |

All data in µg/L

Results M174B

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----------------|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| assigned value | 1.19 | 21.92 | 4.89 | 3.63 | 2.31 | 864 | 4.23 | 57 | 0.74 |
| IFA result | 1.19 | 20.9 | 4.84 | 3.57 | 2.30 | 862 | 3.53 | 71 | 0.72 |
| Stability test | 1.16 | 21.3 | 4.76 | 3.59 | 2.37 | 826 | 3.71 | 61 | 0.69 |
| A | 1.15 | 21.6 | 5.28 | 3.80 | 2.44 | 871 | 4.21 | 58.6 | 0.75 |
| B | 1.246 | 21.09 | | 3.460 | 4.330 | 844.3 | 3.713 | 60.03 | |
| C | 1.20 | 22.0 | 4.90 | 3.40 | 2.30 | 876.5 | 4.06 | 54.0 | <1.0 |
| D | 1.12 | 22.4 | 4.40 | 3.72 | 2.22 | 890 | | 57 | 0.764 |
| E | 1.13 | 21.0 | | 3.25 | 2.18 | 865 | 3.90 | 57.3 | <1 |
| F | | | | 3.40 | | | | | |
| G | 1.20 | 21.3 | 4.96 | 3.56 | 2.42 | 901 | 4.04 | 55 | 0.75 |
| H | 1.176 | 21.86 | 4.616 | 3.523 | 2.054 | 863.9 | 4.140 | 57.24 | 0.692 |
| I | 1.20 | 21.8 | 5.15 | 3.54 | 2.40 | 866 | 4.24 | 56.9 | 0.75 |
| J | 1.16 | 22.0 | 4.83 | 3.68 | 2.37 | 805 | 4.03 | 56.0 | 0.758 |
| K | 0.93 | 21.3 | 4.53 | 2.95 | | 850 | | 57.0 | |
| L | 1.07 | 18.3 | 4.93 | 3.43 | 2.23 | 794 | 27.6 | 51.6 | <1.0 |
| M | 1.039 | 20.78 | 4.643 | 3.394 | 2.333 | 853.9 | 3.981 | 56.79 | 0.687 |
| N | 1.29 | 21.9 | | 3.61 | 2.26 | | 4.37 | 54.5 | |
| O | 1.11 | 20.0 | 4.86 | 3.53 | 2.22 | 856 | 4.19 | 48.6 | <1.0 |
| P | 1.10 | 21.9 | 4.91 | 3.50 | 2.30 | 875 | 3.59 | 52.9 | 0.70 |
| Q | 0.92 | 20.6 | 4.85 | 3.38 | 2.44 | | 3.97 | 53.6 | |
| R | 1.18 | 21.5 | 4.93 | 3.64 | 2.48 | 1070 | 4.03 | 56.5 | 0.735 |
| S | < 5.0 | 21.3 | | <5 | <10 | | | 56.98 | |
| T | | 21.39 | 5.17 | | | | | 50.06 | |
| U | <150 | 21.8 | | <5 | | | | <500 | <10 |
| V | 1.36 | 21.23 | 5.57 | 3.52 | 2.45 | | 4.23 | 56.3 | 0.85 |
| W | 1.04 | 21.9 | 4.74 | 3.29 | 2.22 | 861 | 3.96 | 55.5 | <10 |
| X | 1.14 | 20.7 | 5.4 | 3.48 | 2.58 | 834 | 4.14 | 59.6 | 0.71 |
| Y | 1.46 | 18.57 | 5.18 | 3.65 | 2.55 | 774 | 4.00 | 58.1 | 0.801 |
| Z | 1.32 | 21.4 | 5.12 | 3.36 | 2.48 | 872 | 4.59 | 56.7 | <1 |

All data in µg/L

Uncertainties M174B

| | Copper ± | Manganese ± | Molybdenum ± | Nickel ± | Selenium ± | Strontium ± | Uranium ± | Zinc ± | Tin ± |
|----------------|-------------|----------------|-----------------|-------------|---------------|----------------|--------------|-----------|----------|
| assigned value | 0.03 | 0.18 | 0.06 | 0.03 | 0.02 | 8 | 0.03 | 2 | 0.02 |
| IFA result | 0.08 | 1.4 | 0.42 | 0.17 | 0.30 | 67 | 0.35 | 8 | 0.08 |
| Stability test | 0.08 | 1.4 | 0.41 | 0.17 | 0.31 | 64 | 0.37 | 7 | 0.07 |
| A | 0.14 | 1.8 | 0.58 | 0.65 | 0.19 | 76.6 | 0.30 | 4.6 | 0.06 |
| B | 0.025 | 0.39 | | 0.085 | 2.464 | 27.3 | 0.323 | 1.32 | |
| C | 0.096 | 2.20 | 0.740 | 0.340 | 0.345 | 131.5 | 0.203 | 5.40 | |
| D | 0.01 | 0.33 | 0.05 | 0.05 | 0.13 | 9.7 | | 0.49 | 0.02 |
| E | 0.23 | 4.2 | | 0.65 | 0.44 | 173 | 0.78 | 11 | |
| F | | | | 0.30 | | | | | |
| G | 0.11 | 1.5 | 0.55 | 0.22 | 0.27 | 99 | 0.49 | 7.2 | 0.08 |
| H | 0.13 | 1.81 | 0.78 | 0.34 | 0.21 | 107.1 | 0.59 | 10.13 | 0.10 |
| I | 0.13 | 3.3 | 0.67 | 0.82 | 0.82 | 121 | 0.85 | 7.4 | 0.13 |
| J | 0.010 | 0.153 | 0.055 | 0.040 | 0.053 | 8.74 | 0.062 | 0.71 | 0.012 |
| K | 0.11 | 2.9 | 0.94 | 0.36 | | 76 | | 6.9 | |
| L | 0.21 | 3.7 | 0.99 | 0.69 | 0.45 | 159 | 5.5 | 10.3 | |
| M | 0.218 | 3.32 | 0.743 | 0.611 | 0.350 | 119.5 | 0.597 | 6.81 | 0.151 |
| N | 0.0747 | 0.421 | | 0.111 | 0.104 | | 0.0494 | 2.07 | |
| O | 0.13 | 2.4 | 0.58 | 0.39 | 0.33 | 128 | 0.63 | 7.3 | |
| P | | | | | | | | | |
| Q | 0.23 | 6.2 | 1.21 | 0.85 | 0.61 | | 0.99 | 13.4 | |
| R | 0.12 | 2.2 | 0.49 | 0.36 | 0.25 | 160 | 0.40 | 5.7 | 0.074 |
| S | | 2.13 | | | | | | 8.0 | |
| T | | 5.35 | 1.29 | | | | | 10.51 | |
| U | | 3.1 | | | | | | | |
| V | | 1.33 | 2.05 | 0.35 | 0.35 | | 0.36 | 8.71 | |
| W | 0.292 | 1.639 | 0.474 | 0.263 | 0.289 | 137.772 | 0.475 | 13.879 | |
| X | 0.114 | 2.07 | 0.54 | 0.348 | 0.387 | 83.4 | 0.414 | 5.96 | 0.071 |
| Y | 0.29 | 3.71 | 1.04 | 0.73 | 0.509 | 155 | 0.801 | 11.6 | 0.160 |
| Z | 0.20 | 3.21 | 0.77 | 0.50 | 0.37 | 131 | 0.69 | 8.50 | |

All data in µg/L

Results M174B

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----------------|---------|-----------|------------|--------|----------|-----------|---------|--------|------|
| assigned value | 1.19 | 21.92 | 4.89 | 3.63 | 2.31 | 864 | 4.23 | 57 | 0.74 |
| IFA result | 1.19 | 20.9 | 4.84 | 3.57 | 2.30 | 862 | 3.53 | 71 | 0.72 |
| Stability test | 1.16 | 21.3 | 4.76 | 3.59 | 2.37 | 826 | 3.71 | 61 | 0.69 |
| AA | 1.133 | 22.68 | 5.143 | 3.631 | 2.529 | 901.8 | 3.897 | 60.09 | |
| AB | 1.19 | 22.7 | 5.0 | 3.66 | 2.31 | 860 | 4.03 | 58 | <1 |
| AC | 1.18 | 23.4 | | 3.79 | 2.88 | | 3.83 | 60 | |
| AD | <2 | 26.0 | | 3.67 | | | | 60 | |
| AE | <10 | 21.2 | 4.44 | 3.09 | 2.02 | | 4.22 | 58 | <10 |
| AF | | <10 | | | | | | | |
| AG | 1.05 | 20.7 | 4.65 | 3.29 | 2.41 | | 3.66 | 55.2 | 0.70 |
| AH | | | 4.97 | 3.76 | 2.36 | | 4.25 | 57 | 0.76 |
| AI | <50.000 | 21.035 | 4.440 | 3.148 | 2.112 | 818.264 | 3.927 | 56.047 | |
| AJ | 1.14 | 21.64 | 4.24 | 3.52 | 2.40 | 891 | 3.95 | 57.33 | 0.73 |
| AK | | | | | | | | | |
| AL | 1.15 | 21.5 | 7.99 | 3.59 | 9.41 | 779 | 29.4 | 54.9 | <5 |
| AM | | | 4.47 | | | 880 | | | |
| AN | 1.28 | 22.0 | | 3.61 | 2.34 | 832 | 3.98 | 57 | |
| AO | | | | | | | | | |

All data in µg/L

Uncertainties M174B

| | Copper ± | Manganese ± | Molybdenum ± | Nickel ± | Selenium ± | Strontium ± | Uranium ± | Zinc ± | Tin ± |
|----------------|-------------|----------------|-----------------|-------------|---------------|----------------|--------------|-----------|----------|
| assigned value | 0.03 | 0.18 | 0.06 | 0.03 | 0.02 | 8 | 0.03 | 2 | 0.02 |
| IFA result | 0.08 | 1.4 | 0.42 | 0.17 | 0.30 | 67 | 0.35 | 8 | 0.08 |
| Stability test | 0.08 | 1.4 | 0.41 | 0.17 | 0.31 | 64 | 0.37 | 7 | 0.07 |
| AA | | | | | | | | | |
| AB | 0.238 | 4.55 | 1.01 | 0.73 | 0.462 | | 0.81 | 11.5 | |
| AC | 0.195 | 1.12 | | 0.349 | 0.158 | | 0.134 | 7.8 | |
| AD | | 10 | | 1 | | | | 15 | |
| AE | 1.5 | 3.0 | 0.7 | 0.7 | 0.3 | | 0.63 | 8.7 | 1.7 |
| AF | | | | | | | | | |
| AG | 0.26 | 5.2 | 1.16 | 0.82 | 0.40 | | 0.92 | 13.8 | 0.18 |
| AH | | | 0.80 | 0.56 | 0.42 | | 0.55 | 4 | |
| AI | | 1.687 | 1.284 | 0.559 | 0.699 | 121.103 | 0.474 | 10.088 | |
| AJ | 0.17 | 3.25 | 0.64 | 0.53 | 0.36 | 134 | 0.59 | 8.60 | 0.11 |
| AK | | | | | | | | | |
| AL | 0.14 | 1.12 | 0.22 | 3.63 | 1.55 | 1.56 | 3.12 | 1.59 | |
| AM | | | 0.447 | | | 88.0 | | | |
| AN | 0.10 | 1.72 | | 0.267 | 0.269 | 42.4 | 0.382 | 8.6 | |
| AO | | | | | | | | | |

All data in µg/L

z-Scores M174A

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|---|-----------|----------|---------|--------|-------|---------|----------|-------|
| A | -0.14 | 0.85 | 0.28 | -0.67 | -0.16 | 0.39 | 0.61 | -0.18 |
| B | 10.32 | | 0.14 | | -1.54 | -1.59 | -1.50 | -0.42 |
| C | 0.82 | -1.03 | -0.06 | -0.05 | -0.49 | -0.87 | 2.13 | -0.85 |
| D | -12.75 | -2.35 | 0.22 | 0.12 | -0.60 | 0.14 | 0.10 | -1.74 |
| E | 1.50 | | -0.62 | -0.94 | -0.49 | -1.11 | | -0.49 |
| F | | | | | 4.13 | | | |
| G | -0.07 | 0.47 | 0.31 | -0.14 | -0.33 | 1.26 | 1.60 | -0.04 |
| H | 0.26 | -2.42 | -0.77 | 0.19 | 0.20 | -0.05 | -0.67 | 0.01 |
| I | 0.55 | -0.56 | 0.53 | 1.45 | 0.22 | 0.29 | 0.30 | -0.09 |
| J | 1.50 | -1.31 | 0.42 | -0.67 | -0.81 | -0.10 | 2.27 | 0.49 |
| K | 1.09 | | | 0.66 | 1.57 | 2.51 | 3.96 | 0.18 |
| L | 0.27 | -1.88 | -0.62 | -3.25 | -2.55 | -1.55 | 0.02 | -1.47 |
| M | 0.20 | -1.82 | 0.27 | -0.33 | -0.68 | -0.32 | -1.12 | -0.17 |
| N | -1.50 | | 0.98 | | 0.16 | 0.14 | | -2.46 |
| O | -1.23 | -1.13 | -1.32 | -0.14 | -0.60 | -0.19 | | -0.40 |
| P | 1.09 | -2.44 | 0.14 | 0.04 | -1.57 | -1.35 | 0.10 | 0.22 |
| Q | -0.68 | -1.69 | -0.20 | -0.85 | -2.99 | -0.58 | -2.74 | 0.09 |
| R | 0.75 | -1.03 | 0.87 | 0.39 | -1.03 | -0.24 | -0.30 | -0.76 |
| S | -0.33 | | | | | | | -0.13 |
| T | 6.29 | | | | | | | 1.83 |
| U | | | | | | | | -0.58 |
| V | 1.64 | -1.17 | 0.62 | 1.19 | -0.71 | 0.53 | 3.14 | -0.49 |
| W | | -3.54 | -0.36 | -1.21 | -0.60 | 0.00 | | -0.94 |
| X | | -0.94 | 1.26 | 1.81 | -1.09 | 0.19 | -0.51 | -0.63 |
| Y | -3.82 | -0.75 | -0.45 | -0.23 | -0.71 | -0.05 | 4.14 | -1.70 |
| Z | 0.61 | -1.22 | 0.62 | 0.66 | 0.05 | -0.43 | | 0.22 |

z-Scores M174A

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----|-----------|----------|---------|--------|-------|---------|----------|-------|
| AA | -0.16 | -0.74 | 0.49 | -0.27 | -0.81 | 0.82 | -1.22 | 0.32 |
| AB | -0.34 | -1.69 | 0.22 | -0.41 | -0.65 | | | 0.04 |
| AC | -0.61 | 0.00 | 1.91 | | -2.17 | 1.50 | 1.12 | 0.67 |
| AD | 0.75 | | 0.51 | | -0.65 | 1.55 | | 4.51 |
| AE | -0.95 | -1.31 | 0.06 | -1.47 | -1.79 | | | -1.25 |
| AF | | | | | | | | 0.09 |
| AG | -0.82 | -1.13 | 0.39 | -0.50 | -1.52 | -1.50 | -0.91 | -0.94 |
| AH | | -1.13 | 1.07 | -0.05 | -0.38 | 0.48 | 1.12 | |
| AI | 0.09 | -1.74 | 0.03 | -1.90 | 0.00 | -0.77 | 0.02 | -0.30 |
| AJ | 0.01 | -1.97 | -0.48 | 1.21 | 0.49 | 0.05 | -0.51 | -1.19 |
| AK | | | | | | -5.89 | | |
| AL | -7.68 | | 6.23 | 3.49 | 0.49 | -12.51 | -2.25 | -2.06 |
| AM | -0.55 | -3.20 | | -2.36 | | | | -2.59 |
| AN | -0.34 | 0.66 | 0.79 | 0.30 | -0.65 | -0.10 | -0.10 | 2.37 |
| AO | | | | | | | | |

z-Scores M174A

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|---|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| A | 0.43 | -0.18 | 1.44 | 0.66 | 0.35 | 0.33 | -0.24 | 0.45 | -0.50 |
| B | -0.36 | -0.80 | | -0.80 | 25.30 | 0.03 | -1.98 | 0.46 | |
| C | -0.37 | 0.96 | 0.22 | -0.71 | 0.78 | 0.48 | -0.96 | -0.35 | -0.57 |
| D | -1.41 | 0.07 | -1.22 | 0.15 | -0.19 | 0.66 | | -0.20 | -1.07 |
| E | -0.72 | -0.54 | | -1.58 | | -0.72 | -1.27 | -0.35 | -3.21 |
| F | | | | -1.07 | | | | | |
| G | -0.17 | -0.07 | 0.55 | -0.10 | 0.66 | 1.18 | -0.55 | -0.50 | -0.69 |
| H | 0.39 | -0.05 | -1.15 | -0.63 | -1.13 | 0.25 | -0.23 | -0.18 | -1.02 |
| I | -0.17 | 0.29 | 0.89 | -0.36 | 0.53 | 0.20 | 0.18 | 0.00 | -0.06 |
| J | -0.37 | -0.09 | -0.44 | 0.10 | -0.42 | -1.64 | -0.96 | -0.35 | -0.38 |
| K | -0.17 | 0.31 | 1.77 | -2.96 | | 0.85 | | 0.81 | |
| L | -1.84 | -0.29 | -0.22 | -1.28 | | -1.64 | 94.07 | -0.35 | -1.13 |
| M | -0.88 | -0.86 | -1.15 | -0.90 | 0.05 | -0.33 | -1.05 | -0.10 | -1.47 |
| N | -0.32 | | | -0.10 | | | 0.90 | -0.91 | |
| O | -0.55 | | -0.55 | -0.20 | | -0.20 | -0.34 | -1.67 | -3.46 |
| P | -0.98 | -0.09 | 0.00 | -0.61 | -0.44 | 0.33 | -2.52 | -1.01 | -1.13 |
| Q | -2.19 | -1.28 | -0.22 | -0.41 | 0.90 | | -0.34 | -0.45 | |
| R | -0.69 | -0.31 | 0.00 | -0.20 | 0.66 | 4.00 | -0.76 | -0.30 | -0.57 |
| S | | -0.61 | | | | | | -0.17 | |
| T | | 0.58 | 3.77 | | | | | -1.83 | |
| U | | -0.38 | | | | | | | |
| V | -0.66 | -0.16 | 5.21 | -0.46 | 1.26 | | 1.42 | 0.05 | 4.35 |
| W | -1.41 | -0.38 | -0.44 | -1.74 | | -0.66 | -0.86 | -0.66 | |
| X | -0.49 | -1.28 | 1.99 | -0.36 | 1.02 | -1.18 | -0.34 | 0.81 | -1.01 |
| Y | -0.23 | -2.06 | 0.78 | 0.46 | -0.18 | -1.84 | -1.69 | 0.20 | -1.51 |
| Z | 0.09 | -0.31 | 0.44 | -1.22 | 0.78 | 0.00 | 1.32 | -0.35 | -0.57 |

z-Scores M174A

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| AA | 1.81 | 0.68 | 0.71 | -0.04 | 1.31 | 0.87 | -0.58 | -0.16 | |
| AB | -0.46 | | 0.55 | -0.66 | | -0.20 | -0.86 | -0.25 | -0.31 |
| AC | -0.52 | 0.74 | | 0.46 | 0.78 | | -1.38 | 0.40 | |
| AD | -0.98 | 5.45 | | 1.74 | | | | 0.15 | |
| AE | | -1.28 | -1.11 | -2.70 | | | 2.46 | 0.05 | |
| AF | | | | | | | | | |
| AG | -1.53 | -1.32 | -0.22 | -1.48 | 0.66 | | -2.00 | -0.61 | -1.13 |
| AH | | | 1.00 | 0.61 | 0.78 | | -0.55 | 0.15 | 0.06 |
| AI | | -0.73 | -1.47 | -1.71 | | -1.39 | -1.18 | 0.03 | |
| AJ | -0.46 | -0.16 | -2.10 | -0.51 | 0.41 | 0.85 | -0.96 | -0.08 | -0.57 |
| AK | | | | | | | | | |
| AL | -2.74 | -1.95 | 48.96 | -1.12 | 92.32 | -1.97 | 65.16 | -0.76 | |
| AM | | | -1.88 | | | -1.90 | | | |
| AN | -0.12 | 0.29 | | -0.41 | 0.66 | -0.72 | -1.07 | -0.30 | |
| AO | | | | | | | | | |

z-Scores M174B

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|---|-----------|----------|---------|--------|-------|---------|----------|-------|
| A | -0.20 | 3.19 | -0.34 | -0.55 | -0.11 | 0.56 | 0.55 | -0.42 |
| B | 8.97 | | 0.96 | | -1.54 | -1.51 | -1.06 | -0.69 |
| C | 0.34 | | 0.75 | -0.11 | -0.39 | 0.00 | 0.12 | 0.76 |
| D | -11.47 | -0.38 | 0.05 | -0.48 | -1.90 | -0.93 | -0.18 | -1.77 |
| E | 1.35 | | -0.58 | -0.37 | -0.49 | -2.43 | -0.34 | -0.27 |
| F | | | | | 0.58 | | | |
| G | -0.17 | 1.40 | 0.12 | -0.48 | -0.81 | 0.00 | 0.55 | -0.51 |
| H | 0.37 | -0.46 | -0.80 | 0.15 | 0.33 | -0.34 | 0.25 | 0.24 |
| I | 0.61 | 0.59 | 0.52 | 1.25 | 0.00 | 0.56 | -0.18 | 0.02 |
| J | 0.84 | 0.15 | -0.42 | -0.48 | -0.02 | -0.37 | -0.21 | -0.09 |
| K | 0.54 | | | -0.15 | 1.20 | -0.19 | -0.31 | -0.51 |
| L | -2.16 | -0.26 | 0.05 | -3.35 | -2.46 | -1.21 | -2.88 | -1.93 |
| M | 0.19 | -0.22 | 0.45 | 0.06 | -0.76 | -0.32 | -1.05 | -0.14 |
| N | -0.57 | | 0.44 | | 0.26 | 0.19 | -0.40 | -1.34 |
| O | -1.15 | | -0.66 | -1.07 | -0.56 | -0.19 | -0.40 | -0.36 |
| P | 0.78 | 0.13 | -0.03 | 0.18 | -1.65 | -0.93 | 0.09 | -0.02 |
| Q | -0.67 | 0.41 | 0.52 | -0.26 | -2.10 | -0.75 | -0.80 | 0.58 |
| R | 0.98 | 0.18 | 1.06 | 0.55 | -1.05 | -0.19 | -0.21 | -0.67 |
| S | -0.21 | | | | -0.62 | | 0.18 | -0.07 |
| T | 2.07 | | | | | | | 0.14 |
| U | -1.35 | | | | -0.17 | -0.56 | | -0.51 |
| V | 1.55 | 2.50 | 1.45 | 0.88 | -0.92 | -0.65 | -0.21 | -0.78 |
| W | 0.13 | | 0.12 | -1.47 | -0.81 | -0.19 | -1.13 | -0.69 |
| X | | -0.03 | 1.22 | 3.17 | -1.16 | 0.75 | -0.86 | -0.47 |
| Y | -1.72 | 0.15 | -0.27 | -0.22 | -0.56 | 0.19 | 1.01 | -0.67 |
| Z | 0.34 | | 0.98 | -0.37 | 0.49 | -0.37 | -0.09 | 0.02 |

z-Scores M174B

| | Aluminium | Antimony | Arsenic | Barium | Lead | Cadmium | Chromium | Iron |
|----|-----------|----------|---------|--------|-------|---------|----------|-------|
| AA | 0.12 | 0.87 | 0.50 | -0.40 | -1.40 | 0.49 | 0.28 | 0.47 |
| AB | -0.03 | | 0.91 | -0.11 | -1.03 | 0.37 | 0.12 | 0.40 |
| AC | -0.40 | 0.84 | 1.92 | | -2.31 | 1.31 | 1.35 | 0.94 |
| AD | -0.81 | | -0.03 | | 0.04 | 0.93 | 1.66 | 1.48 |
| AE | 0.00 | | 1.14 | -0.48 | -1.03 | -2.24 | -0.49 | -0.87 |
| AF | | | | | | | | 0.22 |
| AG | -0.44 | 1.40 | 0.28 | -0.70 | -1.82 | -1.49 | -0.61 | -0.76 |
| AH | | -0.28 | 1.22 | -0.11 | -0.60 | -0.19 | 0.74 | |
| AI | -1.11 | | -0.33 | -1.95 | -0.51 | -0.60 | -0.74 | -0.34 |
| AJ | 0.65 | -0.31 | -0.66 | 1.42 | 0.32 | 0.56 | -0.31 | -1.22 |
| AK | | | | | | -2.56 | | |
| AL | -5.87 | 70.61 | | 1.73 | -0.21 | -6.95 | -1.29 | -2.26 |
| AM | -0.40 | -0.82 | | -0.88 | | | | -2.30 |
| AN | -0.27 | 3.70 | 2.15 | -0.11 | -0.81 | -0.19 | 0.12 | 1.66 |
| AO | | | | | | | | |

z-Scores M174B

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|---|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| A | -0.45 | -0.28 | 1.31 | 0.68 | 0.64 | 0.18 | -0.08 | 0.41 | 0.16 |
| B | 0.63 | -0.73 | | -0.68 | 9.94 | -0.51 | -2.18 | 0.77 | |
| C | 0.11 | 0.07 | 0.03 | -0.92 | -0.05 | 0.32 | -0.72 | -0.76 | |
| D | -0.78 | 0.42 | -1.64 | 0.36 | -0.44 | 0.67 | | 0.00 | 0.39 |
| E | -0.67 | -0.81 | | -1.52 | -0.64 | 0.03 | -1.39 | 0.08 | |
| F | | | | -0.92 | | | | | |
| G | 0.11 | -0.54 | 0.23 | -0.28 | 0.54 | 0.95 | -0.80 | -0.51 | 0.16 |
| H | -0.16 | -0.05 | -0.92 | -0.43 | -1.26 | 0.00 | -0.38 | 0.06 | -0.77 |
| I | 0.11 | -0.11 | 0.87 | -0.36 | 0.44 | 0.05 | 0.04 | -0.03 | 0.16 |
| J | -0.34 | 0.07 | -0.20 | 0.20 | 0.30 | -1.52 | -0.84 | -0.25 | 0.29 |
| K | -2.91 | -0.54 | -1.21 | -2.71 | | -0.36 | | 0.00 | |
| L | -1.34 | -3.18 | 0.13 | -0.80 | -0.39 | -1.80 | 98.66 | -1.37 | |
| M | -1.69 | -1.00 | -0.83 | -0.94 | 0.11 | -0.26 | -1.05 | -0.05 | -0.85 |
| N | 1.12 | -0.02 | | -0.08 | -0.25 | | 0.59 | -0.64 | |
| O | -0.90 | -1.68 | -0.10 | -0.40 | -0.44 | -0.21 | -0.17 | -2.14 | |
| P | -1.01 | -0.02 | 0.07 | -0.52 | -0.05 | 0.28 | -2.70 | -1.04 | -0.64 |
| Q | -3.03 | -1.16 | -0.13 | -1.00 | 0.64 | | -1.10 | -0.86 | |
| R | -0.11 | -0.37 | 0.13 | 0.04 | 0.84 | 5.30 | -0.84 | -0.13 | -0.08 |
| S | | -0.54 | | | | | | -0.01 | |
| T | | -0.46 | 0.94 | | | | | -1.76 | |
| U | | -0.11 | | | | | | | |
| V | 1.90 | -0.61 | 2.28 | -0.44 | 0.69 | | 0.00 | -0.18 | 1.77 |
| W | -1.68 | -0.02 | -0.50 | -1.36 | -0.44 | -0.08 | -1.14 | -0.38 | |
| X | -0.56 | -1.07 | 1.71 | -0.60 | 1.33 | -0.77 | -0.38 | 0.66 | -0.48 |
| Y | 3.03 | -2.94 | 0.97 | 0.08 | 1.18 | -2.31 | -0.97 | 0.28 | 0.98 |
| Z | 1.46 | -0.46 | 0.77 | -1.08 | 0.84 | 0.21 | 1.52 | -0.08 | |

z-Scores M174B

| | Copper | Manganese | Molybdenum | Nickel | Selenium | Strontium | Uranium | Zinc | Tin |
|----|--------|-----------|------------|--------|----------|-----------|---------|-------|-------|
| AA | -0.64 | 0.67 | 0.85 | 0.00 | 1.08 | 0.97 | -1.41 | 0.79 | |
| AB | 0.00 | 0.68 | 0.37 | 0.12 | 0.00 | -0.10 | -0.84 | 0.25 | |
| AC | -0.11 | 1.30 | | 0.64 | 2.80 | | -1.69 | 0.76 | |
| AD | | 3.58 | | 0.16 | | | | 0.76 | |
| AE | | -0.63 | -1.51 | -2.16 | -1.43 | | -0.04 | 0.25 | |
| AF | | | | | | | | | |
| AG | -1.57 | -1.07 | -0.80 | -1.36 | 0.49 | | -2.41 | -0.46 | -0.64 |
| AH | | | 0.27 | 0.52 | 0.25 | | 0.08 | 0.00 | 0.32 |
| AI | | -0.78 | -1.51 | -1.92 | -0.97 | -1.18 | -1.28 | -0.24 | |
| AJ | -0.56 | -0.25 | -2.18 | -0.44 | 0.44 | 0.69 | -1.18 | 0.08 | -0.16 |
| AK | | | | | | | | | |
| AL | -0.45 | -0.37 | 10.39 | -0.16 | 34.93 | -2.19 | 106.26 | -0.53 | |
| AM | | | -1.41 | | | 0.41 | | | |
| AN | 1.01 | 0.07 | | -0.08 | 0.15 | -0.82 | -1.06 | 0.00 | |
| AO | | | | | | | | | |

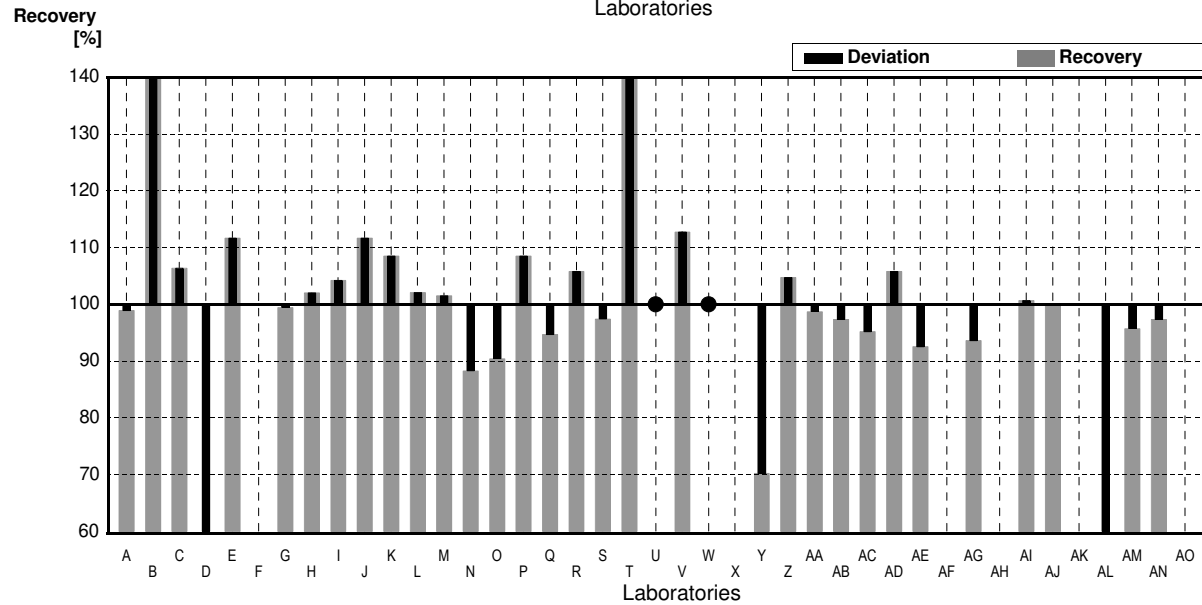
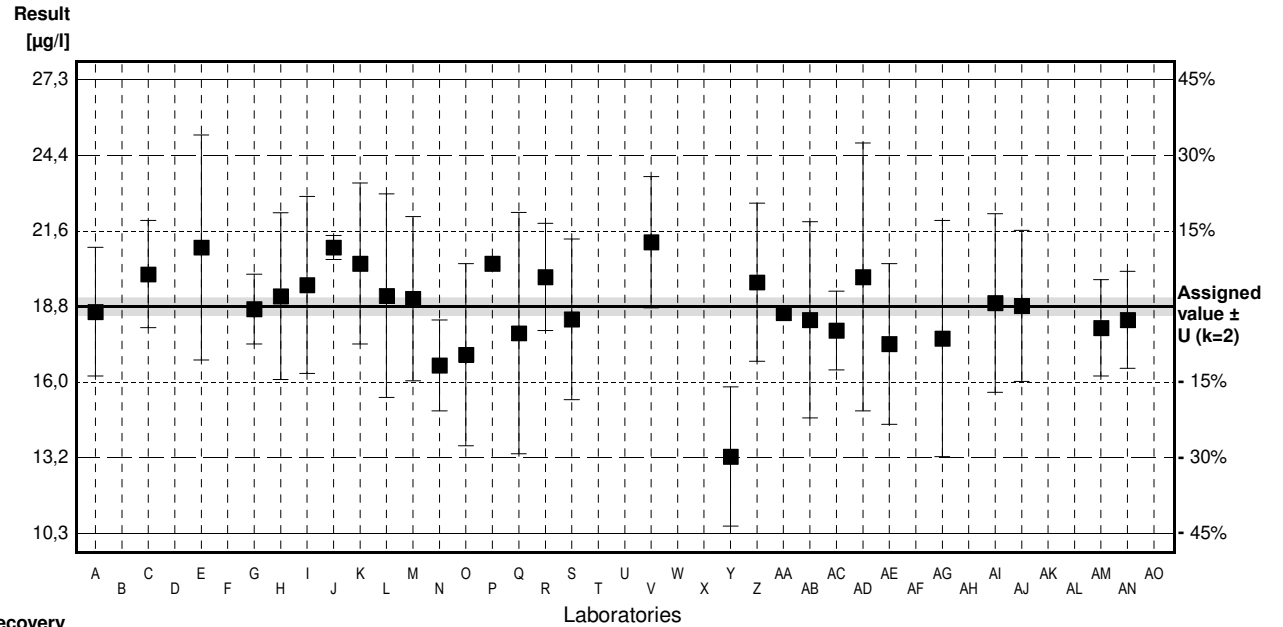
Sample M174A

Parameter Aluminium

Assigned value ± U (k=2) 18,8 µg/l ± 0,3 µg/l
 IFA result ± U (k=2) 19,2 µg/l ± 0,7 µg/l
 Stability test ± U (k=2) 18,3 µg/l ± 0,7 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 18.6 | 2.4 | µg/l | 99% | -0.14 |
| B | 33.94 * | 0.75 | µg/l | 181% | 10.32 |
| C | 20.0 | 2.00 | µg/l | 106% | 0.82 |
| D | 0.100 * | 0.01 | µg/l | 1% | -12.75 |
| E | 21.0 | 4.2 | µg/l | 112% | 1.50 |
| F | | | µg/l | | |
| G | 18.7 | 1.3 | µg/l | 99% | -0.07 |
| H | 19.18 | 3.11 | µg/l | 102% | 0.26 |
| I | 19.6 | 3.3 | µg/l | 104% | 0.55 |
| J | 21.0 | 0.45 | µg/l | 112% | 1.50 |
| K | 20.4 | 3.0 | µg/l | 109% | 1.09 |
| L | 19.2 | 3.8 | µg/l | 102% | 0.27 |
| M | 19.09 | 3.06 | µg/l | 102% | 0.20 |
| N | 16.6 | 1.69 | µg/l | 88% | -1.50 |
| O | 17.0 | 3.4 | µg/l | 90% | -1.23 |
| P | 20.4 | | µg/l | 109% | 1.09 |
| Q | 17.8 | 4.5 | µg/l | 95% | -0.68 |
| R | 19.9 | 2.0 | µg/l | 106% | 0.75 |
| S | 18.32 | 3.0 | µg/l | 97% | -0.33 |
| T | 28.03 * | 5.61 | µg/l | 149% | 6.29 |
| U | <20 | | µg/l | . | . |
| V | 21.2 | 2.45 | µg/l | 113% | 1.64 |
| W | <20 | | µg/l | . | . |
| X | | | µg/l | | |
| Y | 13.2 * | 2.6 | µg/l | 70% | -3.82 |
| Z | 19.7 | 2.95 | µg/l | 105% | 0.61 |
| AA | 18.56 | | µg/l | 99% | -0.16 |
| AB | 18.3 | 3.66 | µg/l | 97% | -0.34 |
| AC | 17.9 | 1.47 | µg/l | 95% | -0.61 |
| AD | 19.9 | 5 | µg/l | 106% | 0.75 |
| AE | 17.4 | 3.0 | µg/l | 93% | -0.95 |
| AF | | | µg/l | | |
| AG | 17.6 | 4.4 | µg/l | 94% | -0.82 |
| AH | | | µg/l | | |
| AI | 18.927 | 3.331 | µg/l | 101% | 0.09 |
| AJ | 18.82 | 2.82 | µg/l | 100% | 0.01 |
| AK | | | µg/l | | |
| AL | 7.54 * | 0.43 | µg/l | 40% | -7.68 |
| AM | 18.0 | 1.80 | µg/l | 96% | -0.55 |
| AN | 18.3 | 1.81 | µg/l | 97% | -0.34 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 18,6 ± 2,5 | 19,0 ± 0,6 | µg/l |
| Recov. ± CI(99%) | 99,0 ± 13,2 | 100,9 ± 3,4 | % |
| SD between labs | 5,2 | 1,2 | µg/l |
| RSD between labs | 27,9 | 6,4 | % |
| n for calculation | 33 | 28 | |



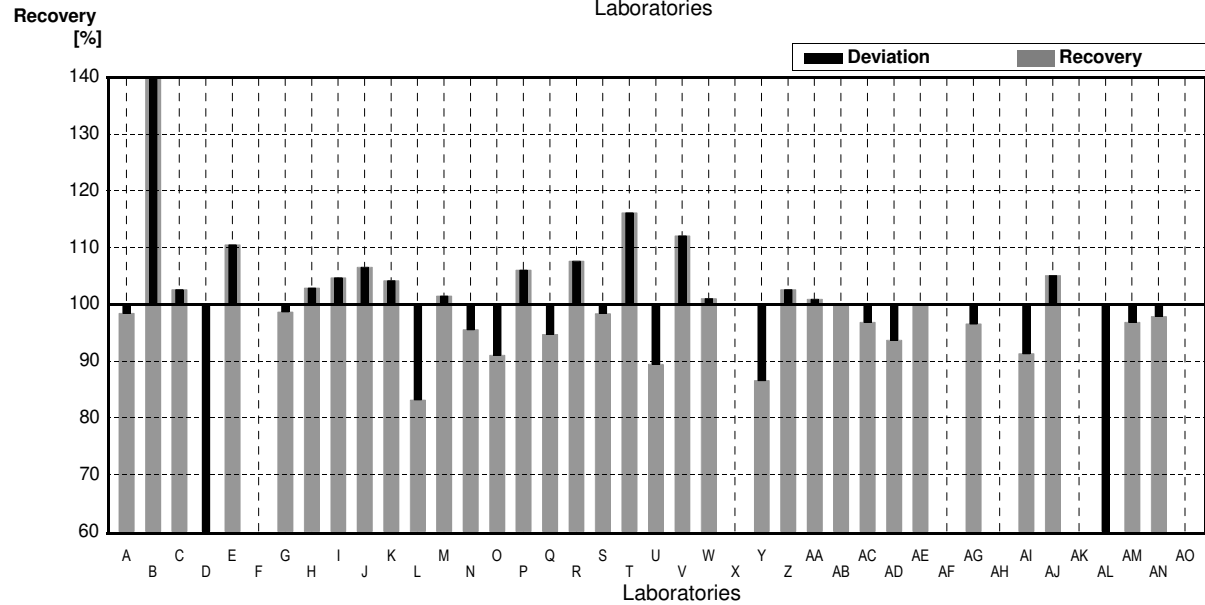
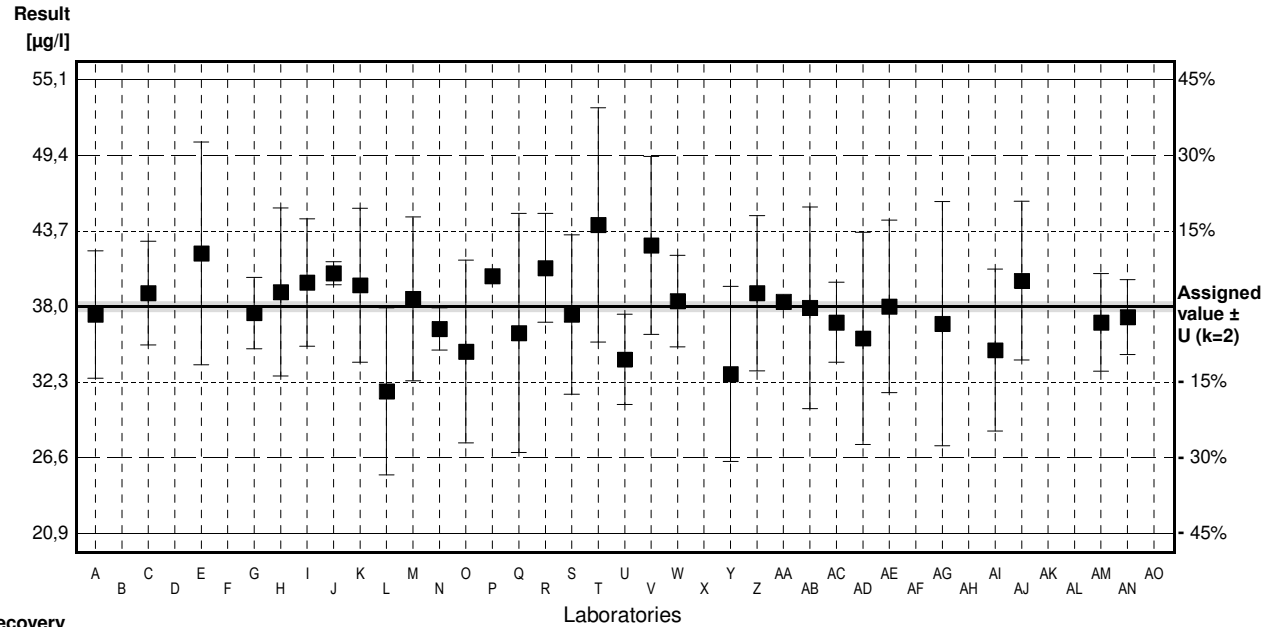
Sample M174B

Parameter Aluminium

Assigned value ± U (k=2) 38,0 µg/l ± 0,4 µg/l
 IFA result ± U (k=2) 39,0 µg/l ± 1,3 µg/l
 Stability test ± U (k=2) 37,4 µg/l ± 1,3 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 37.4 | 4.8 | µg/l | 98% | -0.20 |
| B | 64.59 * | 3.85 | µg/l | 170% | 8.97 |
| C | 39.0 | 3.90 | µg/l | 103% | 0.34 |
| D | 4.00 * | 2.18 | µg/l | 11% | -11.47 |
| E | 42.0 | 8.4 | µg/l | 111% | 1.35 |
| F | | | µg/l | | |
| G | 37.5 | 2.7 | µg/l | 99% | -0.17 |
| H | 39.09 | 6.33 | µg/l | 103% | 0.37 |
| I | 39.8 | 4.8 | µg/l | 105% | 0.61 |
| J | 40.5 | 0.87 | µg/l | 107% | 0.84 |
| K | 39.6 | 5.8 | µg/l | 104% | 0.54 |
| L | 31.6 | 6.3 | µg/l | 83% | -2.16 |
| M | 38.57 | 6.17 | µg/l | 102% | 0.19 |
| N | 36.3 | 1.60 | µg/l | 96% | -0.57 |
| O | 34.6 | 6.9 | µg/l | 91% | -1.15 |
| P | 40.3 | | µg/l | 106% | 0.78 |
| Q | 36.0 | 9.0 | µg/l | 95% | -0.67 |
| R | 40.9 | 4.1 | µg/l | 108% | 0.98 |
| S | 37.39 | 6.0 | µg/l | 98% | -0.21 |
| T | 44.15 | 8.83 | µg/l | 116% | 2.07 |
| U | 34.0 | 3.4 | µg/l | 89% | -1.35 |
| V | 42.6 | 6.7 | µg/l | 112% | 1.55 |
| W | 38.4 | 3.458 | µg/l | 101% | 0.13 |
| X | | | µg/l | | |
| Y | 32.9 | 6.6 | µg/l | 87% | -1.72 |
| Z | 39.0 | 5.85 | µg/l | 103% | 0.34 |
| AA | 38.36 | | µg/l | 101% | 0.12 |
| AB | 37.9 | 7.6 | µg/l | 100% | -0.03 |
| AC | 36.8 | 3.02 | µg/l | 97% | -0.40 |
| AD | 35.6 | 8 | µg/l | 94% | -0.81 |
| AE | 38.0 | 6.5 | µg/l | 100% | 0.00 |
| AF | | | µg/l | | |
| AG | 36.7 | 9.2 | µg/l | 97% | -0.44 |
| AH | | | µg/l | | |
| AI | 34.706 | 6.108 | µg/l | 91% | -1.11 |
| AJ | 39.94 | 5.99 | µg/l | 105% | 0.65 |
| AK | | | µg/l | | |
| AL | 20.6 * | 1.38 | µg/l | 54% | -5.87 |
| AM | 36.8 | 3.68 | µg/l | 97% | -0.40 |
| AN | 37.2 | 2.83 | µg/l | 98% | -0.27 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 37,2 ± 3,9 | 37,9 ± 1,3 | µg/l |
| Recov. ± CI(99%) | 98,0 ± 10,2 | 99,8 ± 3,5 | % |
| SD between labs | 8,4 | 2,7 | µg/l |
| RSD between labs | 22,5 | 7,2 | % |
| n for calculation | 35 | 32 | |



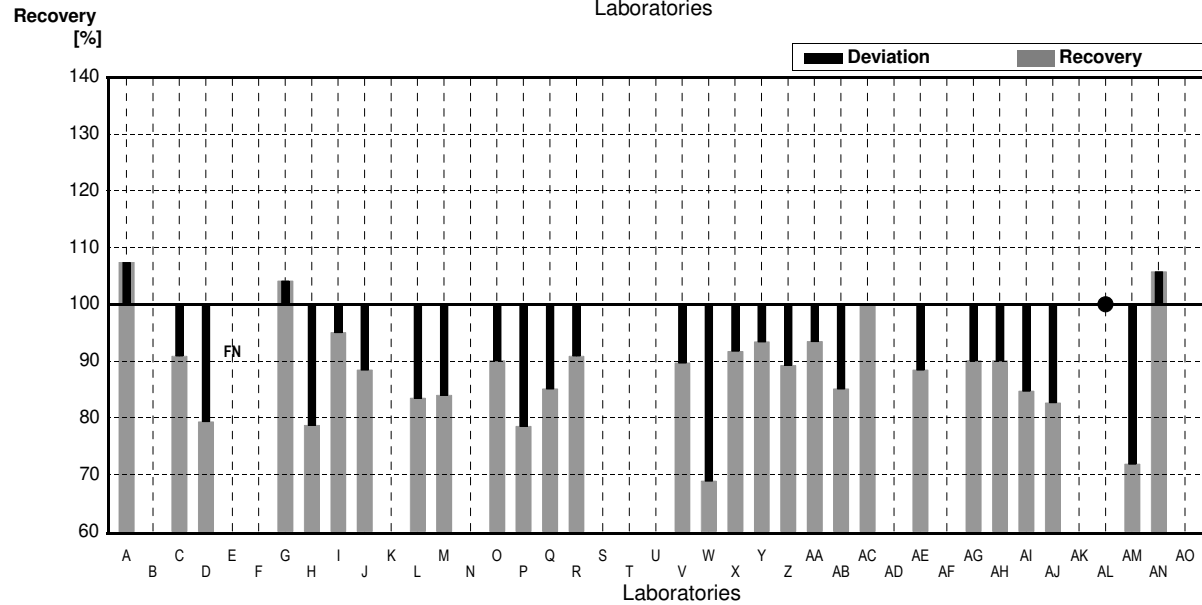
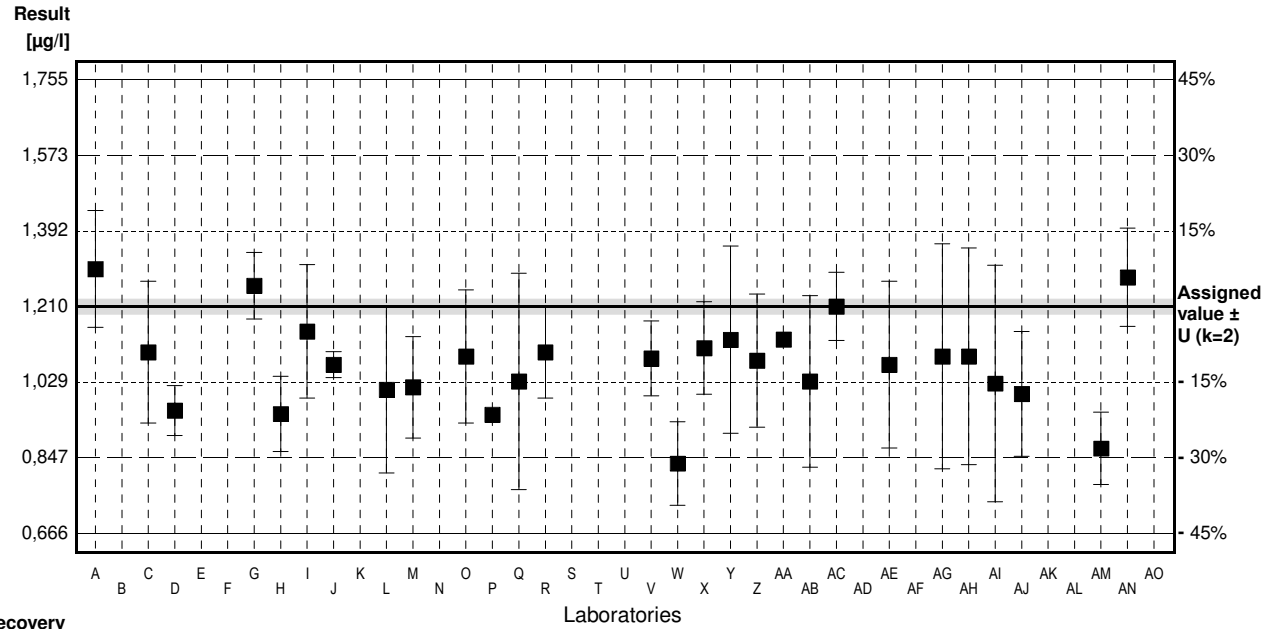
Sample M174A

Parameter Antimony

Assigned value $\pm U$ (k=2) 1,210 $\mu\text{g/l}$ \pm 0,018 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 1,08 $\mu\text{g/l}$ \pm 0,09 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 1,07 $\mu\text{g/l}$ \pm 0,09 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|--------|-----------------|----------|---------|
| A | 1.30 | 0.14 | $\mu\text{g/l}$ | 107% | 0.85 |
| B | | | $\mu\text{g/l}$ | | |
| C | 1.10 | 0.17 | $\mu\text{g/l}$ | 91% | -1.03 |
| D | 0.960 | 0.06 | $\mu\text{g/l}$ | 79% | -2.35 |
| E | <1 | | $\mu\text{g/l}$ | FN | |
| F | | | $\mu\text{g/l}$ | | |
| G | 1.26 | 0.08 | $\mu\text{g/l}$ | 104% | 0.47 |
| H | 0.952 | 0.09 | $\mu\text{g/l}$ | 79% | -2.42 |
| I | 1.15 | 0.16 | $\mu\text{g/l}$ | 95% | -0.56 |
| J | 1.07 | 0.031 | $\mu\text{g/l}$ | 88% | -1.31 |
| K | | | $\mu\text{g/l}$ | | |
| L | 1.01 | 0.20 | $\mu\text{g/l}$ | 83% | -1.88 |
| M | 1.016 | 0.122 | $\mu\text{g/l}$ | 84% | -1.82 |
| N | | | $\mu\text{g/l}$ | | |
| O | 1.09 | 0.16 | $\mu\text{g/l}$ | 90% | -1.13 |
| P | 0.95 | | $\mu\text{g/l}$ | 79% | -2.44 |
| Q | 1.03 | 0.26 | $\mu\text{g/l}$ | 85% | -1.69 |
| R | 1.10 | 0.11 | $\mu\text{g/l}$ | 91% | -1.03 |
| S | | | $\mu\text{g/l}$ | | |
| T | | | $\mu\text{g/l}$ | | |
| U | | | $\mu\text{g/l}$ | | |
| V | 1.085 | 0.09 | $\mu\text{g/l}$ | 90% | -1.17 |
| W | 0.833 | 0.100 | $\mu\text{g/l}$ | 69% | -3.54 |
| X | 1.11 | 0.111 | $\mu\text{g/l}$ | 92% | -0.94 |
| Y | 1.13 | 0.225 | $\mu\text{g/l}$ | 93% | -0.75 |
| Z | 1.08 | 0.16 | $\mu\text{g/l}$ | 89% | -1.22 |
| AA | 1.131 | | $\mu\text{g/l}$ | 93% | -0.74 |
| AB | 1.03 | 0.206 | $\mu\text{g/l}$ | 85% | -1.69 |
| AC | 1.21 | 0.082 | $\mu\text{g/l}$ | 100% | 0.00 |
| AD | | | $\mu\text{g/l}$ | | |
| AE | 1.07 | 0.2 | $\mu\text{g/l}$ | 88% | -1.31 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 1.09 | 0.27 | $\mu\text{g/l}$ | 90% | -1.13 |
| AH | 1.09 | 0.26 | $\mu\text{g/l}$ | 90% | -1.13 |
| AI | 1.025 | 0.284 | $\mu\text{g/l}$ | 85% | -1.74 |
| AJ | 1.00 | 0.15 | $\mu\text{g/l}$ | 83% | -1.97 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | <2 | | $\mu\text{g/l}$ | - | |
| AM | 0.869 | 0.0869 | $\mu\text{g/l}$ | 72% | -3.20 |
| AN | 1.28 | 0.118 | $\mu\text{g/l}$ | 106% | 0.66 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-------------------|-------------------|-----------------|
| Mean \pm CI(99%) | 1,072 \pm 0,057 | 1,072 \pm 0,057 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 88,6 \pm 4,7 | 88,6 \pm 4,7 | % |
| SD between labs | 0,110 | 0,110 | $\mu\text{g/l}$ |
| RSD between labs | 10,2 | 10,2 | % |
| n for calculation | 28 | 28 | |



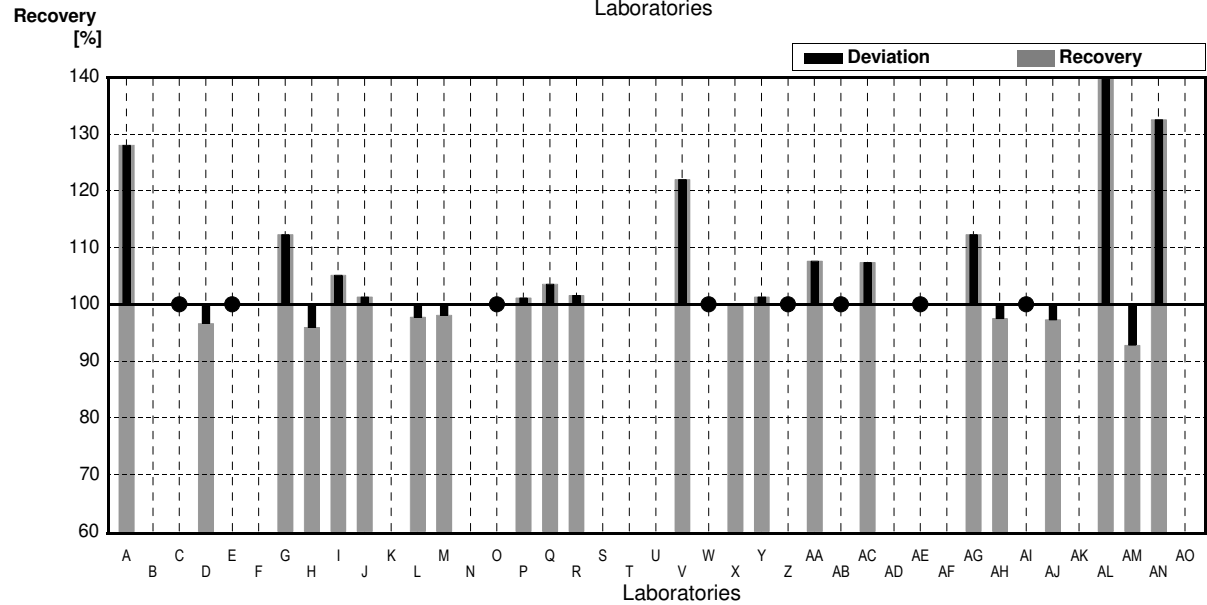
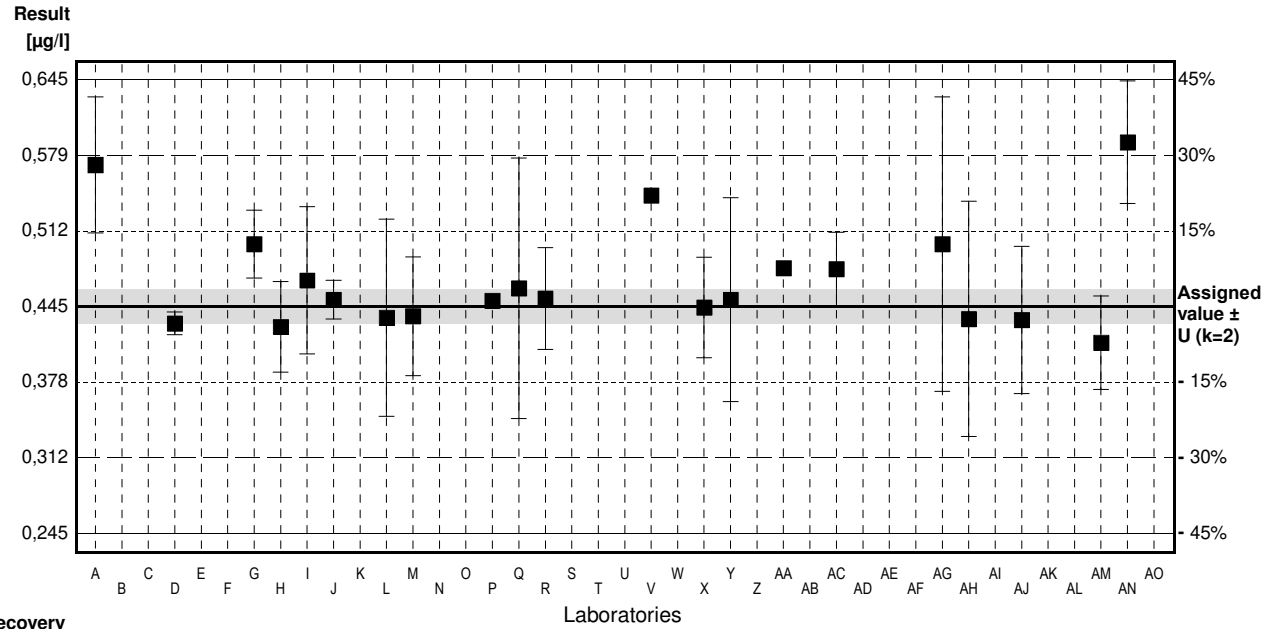
Sample M174B

Parameter Antimony

Assigned value ± U (k=2) 0,445 µg/l ± 0,015 µg/l
 IFA result ± U (k=2) 0,422 µg/l ± 0,042 µg/l
 Stability test ± U (k=2) 0,418 µg/l ± 0,042 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 0.57 * | 0.06 | µg/l | 128% | 3.19 |
| B | <0.5 | | µg/l | • | |
| C | 0.430 | 0.01 | µg/l | 97% | -0.38 |
| D | <1 | | µg/l | • | |
| E | | | µg/l | | |
| F | | | µg/l | | |
| G | 0.50 | 0.03 | µg/l | 112% | 1.40 |
| H | 0.427 | 0.04 | µg/l | 96% | -0.46 |
| I | 0.468 | 0.065 | µg/l | 105% | 0.59 |
| J | 0.451 | 0.017 | µg/l | 101% | 0.15 |
| K | | | µg/l | | |
| L | 0.435 | 0.087 | µg/l | 98% | -0.26 |
| M | 0.4364 | 0.0524 | µg/l | 98% | -0.22 |
| N | | | µg/l | | |
| O | <1.0 | | µg/l | • | |
| P | 0.450 | | µg/l | 101% | 0.13 |
| Q | 0.461 | 0.115 | µg/l | 104% | 0.41 |
| R | 0.452 | 0.045 | µg/l | 102% | 0.18 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 0.543 | | µg/l | 122% | 2.50 |
| W | <0.5 | | µg/l | • | |
| X | 0.444 | 0.0444 | µg/l | 100% | -0.03 |
| Y | 0.451 | 0.090 | µg/l | 101% | 0.15 |
| Z | <1 | | µg/l | • | |
| AA | 0.479 | | µg/l | 108% | 0.87 |
| AB | <1 | | µg/l | • | |
| AC | 0.478 | 0.0325 | µg/l | 107% | 0.84 |
| AD | | | µg/l | | |
| AE | <1.00 | 0.2 | µg/l | • | |
| AF | | | µg/l | | |
| AG | 0.50 | 0.13 | µg/l | 112% | 1.40 |
| AH | 0.434 | 0.104 | µg/l | 98% | -0.28 |
| AI | <1.000 | | µg/l | • | |
| AJ | 0.433 | 0.065 | µg/l | 97% | -0.31 |
| AK | | | µg/l | | |
| AL | 3.21 * | 0.18 | µg/l | 721% | 70.61 |
| AM | 0.413 | 0.0413 | µg/l | 93% | -0.82 |
| AN | 0.59 * | 0.054 | µg/l | 133% | 3.70 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|---------------|----------------|------|
| Mean ± CI(99%) | 0,593 ± 0,354 | 0,457 ± 0,021 | µg/l |
| Recov. ± CI(99%) | 133,4 ± 79,5 | 102,7 ± 4,7 | % |
| SD between labs | 0,586 | 0,032 | µg/l |
| RSD between labs | 98,8 | 6,9 | % |
| n for calculation | 22 | 19 | |



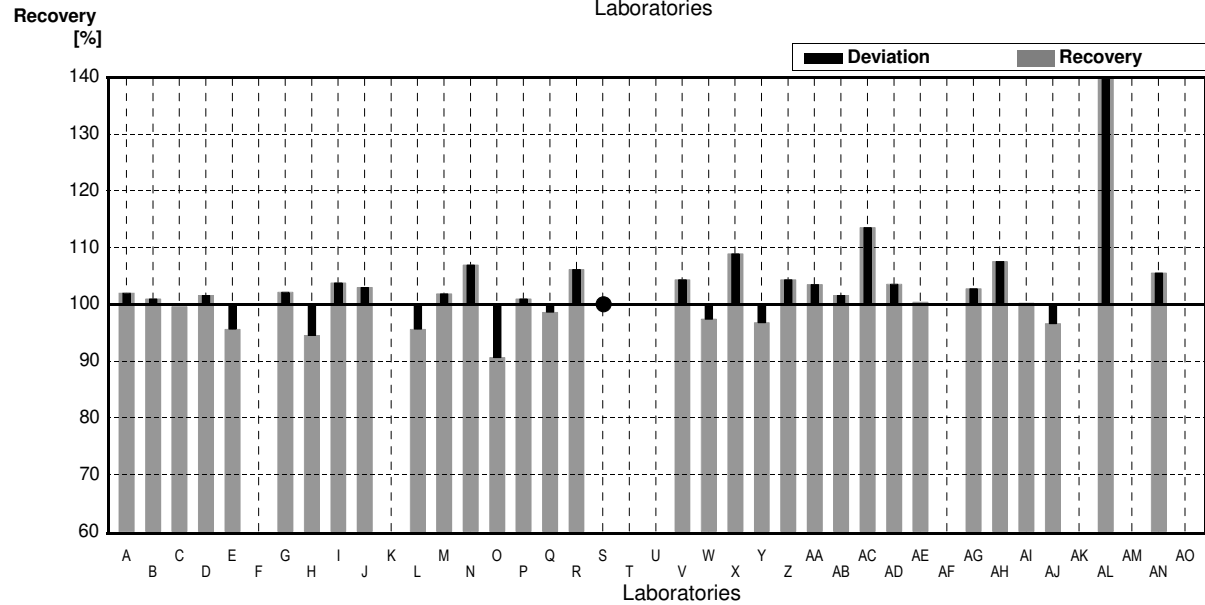
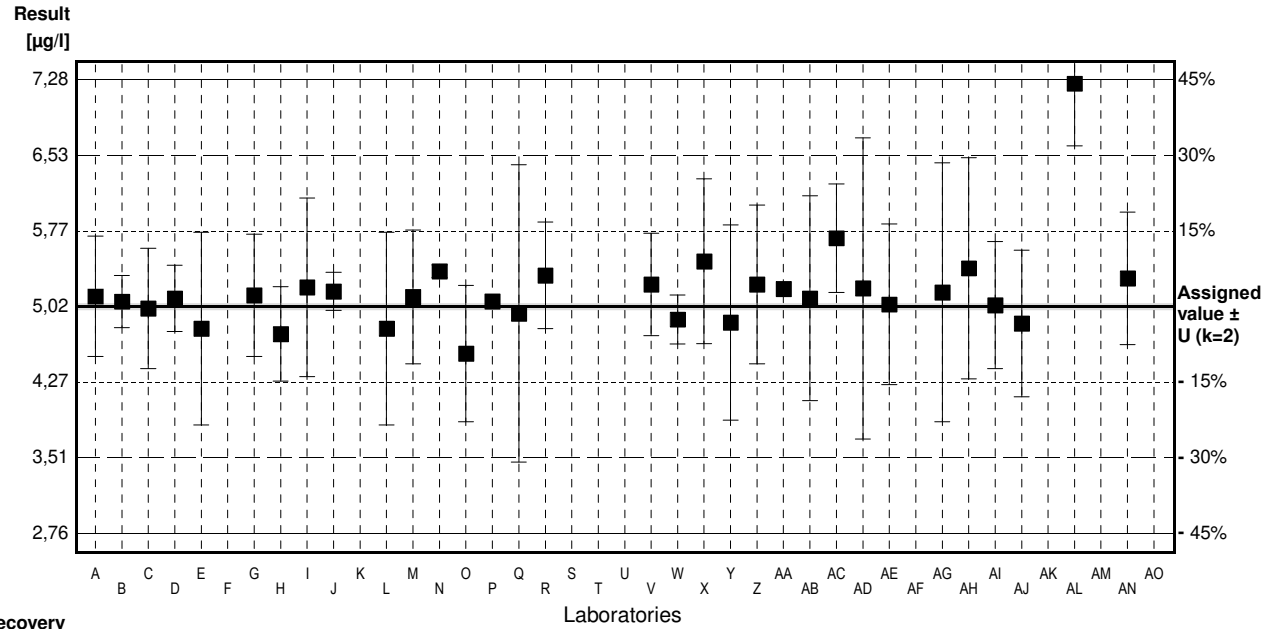
Sample M174A

Parameter Arsenic

Assigned value ± U (k=2) 5,02 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 4,68 µg/l ± 0,43 µg/l
 Stability test ± U (k=2) 5,32 µg/l ± 0,49 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 5,12 | 0,6 | µg/l | 102% | 0,28 |
| B | 5,069 | 0,259 | µg/l | 101% | 0,14 |
| C | 5,00 | 0,60 | µg/l | 100% | -0,06 |
| D | 5,1 | 0,33 | µg/l | 102% | 0,22 |
| E | 4,80 | 0,96 | µg/l | 96% | -0,62 |
| F | | | µg/l | | |
| G | 5,13 | 0,61 | µg/l | 102% | 0,31 |
| H | 4,746 | 0,47 | µg/l | 95% | -0,77 |
| I | 5,21 | 0,89 | µg/l | 104% | 0,53 |
| J | 5,17 | 0,19 | µg/l | 103% | 0,42 |
| K | | | µg/l | | |
| L | 4,80 | 0,96 | µg/l | 96% | -0,62 |
| M | 5,115 | 0,665 | µg/l | 102% | 0,27 |
| N | 5,37 | 0,0626 | µg/l | 107% | 0,98 |
| O | 4,55 * | 0,68 | µg/l | 91% | -1,32 |
| P | 5,07 | | µg/l | 101% | 0,14 |
| Q | 4,95 | 1,48 | µg/l | 99% | -0,20 |
| R | 5,33 | 0,53 | µg/l | 106% | 0,87 |
| S | < 5,0 | | µg/l | * | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 5,24 | 0,51 | µg/l | 104% | 0,62 |
| W | 4,89 | 0,244 | µg/l | 97% | -0,36 |
| X | 5,47 | 0,821 | µg/l | 109% | 1,26 |
| Y | 4,86 | 0,973 | µg/l | 97% | -0,45 |
| Z | 5,24 | 0,79 | µg/l | 104% | 0,62 |
| AA | 5,196 | | µg/l | 104% | 0,49 |
| AB | 5,1 | 1,02 | µg/l | 102% | 0,22 |
| AC | 5,7 * | 0,54 | µg/l | 114% | 1,91 |
| AD | 5,2 | 1,5 | µg/l | 104% | 0,51 |
| AE | 5,04 | 0,8 | µg/l | 100% | 0,06 |
| AF | | | µg/l | | |
| AG | 5,16 | 1,29 | µg/l | 103% | 0,39 |
| AH | 5,4 | 1,1 | µg/l | 108% | 1,07 |
| AI | 5,032 | 0,633 | µg/l | 100% | 0,03 |
| AJ | 4,85 | 0,73 | µg/l | 97% | -0,48 |
| AK | | | µg/l | | |
| AL | 7,24 * | 0,62 | µg/l | 144% | 6,23 |
| AM | | | µg/l | | |
| AN | 5,3 | 0,66 | µg/l | 106% | 0,79 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 5,17 ± 0,22 | 5,10 ± 0,10 | µg/l |
| Recov. ± CI(99%) | 103,0 ± 4,3 | 101,6 ± 1,9 | % |
| SD between labs | 0,44 | 0,19 | µg/l |
| RSD between labs | 8,6 | 3,7 | % |
| n for calculation | 32 | 29 | |



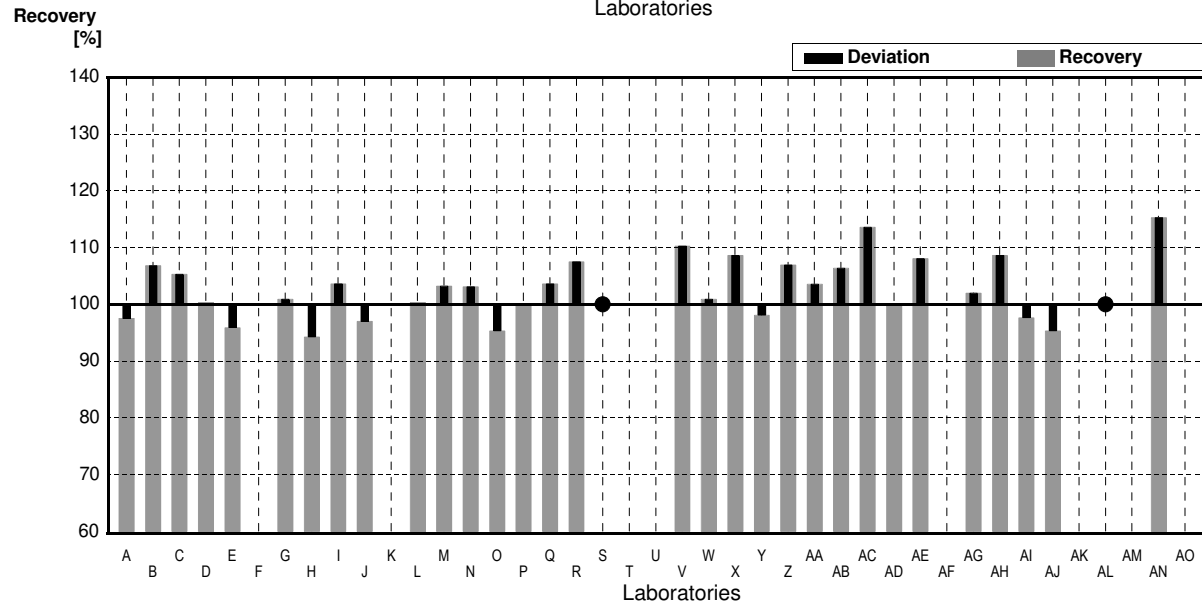
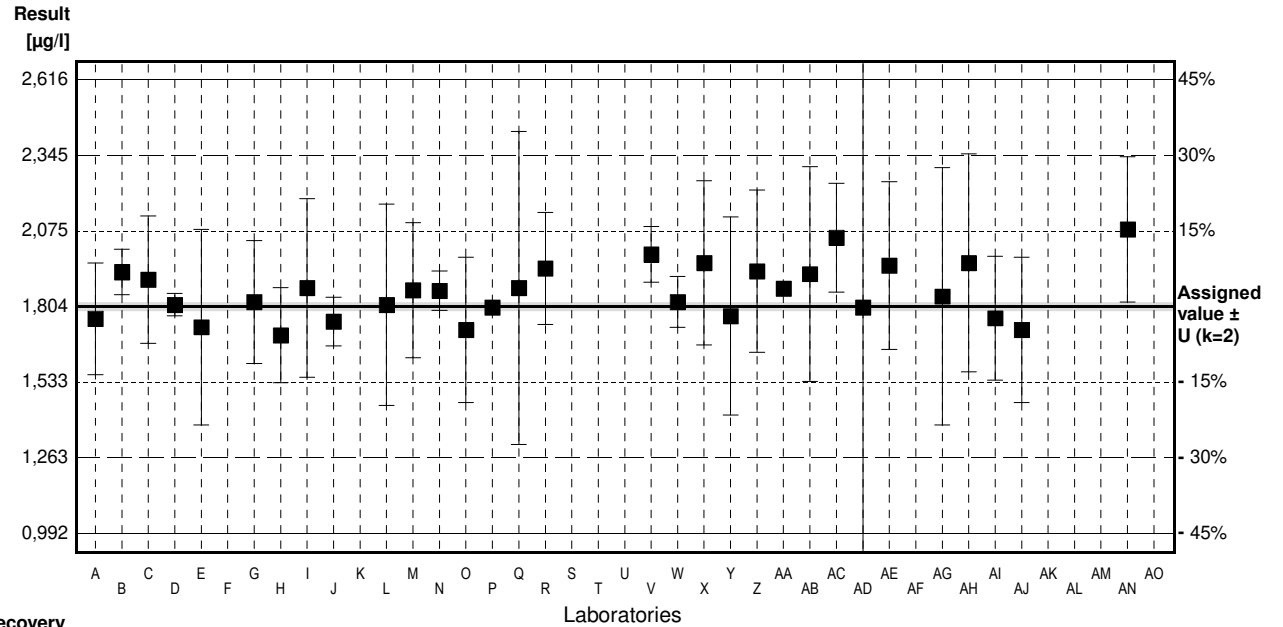
Sample M174B

Parameter Arsenic

Assigned value $\pm U$ (k=2) 1,804 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 1,71 $\mu\text{g/l}$ \pm 0,16 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 1,87 $\mu\text{g/l}$ \pm 0,17 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|--------|-----------------|----------|---------|
| A | 1,76 | 0,20 | $\mu\text{g/l}$ | 98% | -0,34 |
| B | 1,927 | 0,081 | $\mu\text{g/l}$ | 107% | 0,96 |
| C | 1,90 | 0,228 | $\mu\text{g/l}$ | 105% | 0,75 |
| D | 1,81 | 0,04 | $\mu\text{g/l}$ | 100% | 0,05 |
| E | 1,73 | 0,35 | $\mu\text{g/l}$ | 96% | -0,58 |
| F | | | $\mu\text{g/l}$ | | |
| G | 1,82 | 0,22 | $\mu\text{g/l}$ | 101% | 0,12 |
| H | 1,701 | 0,17 | $\mu\text{g/l}$ | 94% | -0,80 |
| I | 1,87 | 0,32 | $\mu\text{g/l}$ | 104% | 0,52 |
| J | 1,75 | 0,087 | $\mu\text{g/l}$ | 97% | -0,42 |
| K | | | $\mu\text{g/l}$ | | |
| L | 1,81 | 0,36 | $\mu\text{g/l}$ | 100% | 0,05 |
| M | 1,862 | 0,242 | $\mu\text{g/l}$ | 103% | 0,45 |
| N | 1,86 | 0,0704 | $\mu\text{g/l}$ | 103% | 0,44 |
| O | 1,72 | 0,26 | $\mu\text{g/l}$ | 95% | -0,66 |
| P | 1,80 | | $\mu\text{g/l}$ | 100% | -0,03 |
| Q | 1,87 | 0,56 | $\mu\text{g/l}$ | 104% | 0,52 |
| R | 1,94 | 0,20 | $\mu\text{g/l}$ | 108% | 1,06 |
| S | < 5,0 | | $\mu\text{g/l}$ | * | |
| T | | | $\mu\text{g/l}$ | | |
| U | | | $\mu\text{g/l}$ | | |
| V | 1,99 | 0,10 | $\mu\text{g/l}$ | 110% | 1,45 |
| W | 1,82 | 0,091 | $\mu\text{g/l}$ | 101% | 0,12 |
| X | 1,96 | 0,294 | $\mu\text{g/l}$ | 109% | 1,22 |
| Y | 1,77 | 0,354 | $\mu\text{g/l}$ | 98% | -0,27 |
| Z | 1,93 | 0,29 | $\mu\text{g/l}$ | 107% | 0,98 |
| AA | 1,868 | | $\mu\text{g/l}$ | 104% | 0,50 |
| AB | 1,92 | 0,384 | $\mu\text{g/l}$ | 106% | 0,91 |
| AC | 2,05 | 0,195 | $\mu\text{g/l}$ | 114% | 1,92 |
| AD | 1,80 | 1 | $\mu\text{g/l}$ | 100% | -0,03 |
| AE | 1,95 | 0,3 | $\mu\text{g/l}$ | 108% | 1,14 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 1,84 | 0,46 | $\mu\text{g/l}$ | 102% | 0,28 |
| AH | 1,96 | 0,39 | $\mu\text{g/l}$ | 109% | 1,22 |
| AI | 1,762 | 0,222 | $\mu\text{g/l}$ | 98% | -0,33 |
| AJ | 1,72 | 0,26 | $\mu\text{g/l}$ | 95% | -0,66 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | <5 | | $\mu\text{g/l}$ | * | |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 2,08 | 0,26 | $\mu\text{g/l}$ | 115% | 2,15 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-------------------|-------------------|-----------------|
| Mean \pm CI(99%) | 1,856 \pm 0,048 | 1,856 \pm 0,048 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 102,9 \pm 2,7 | 102,9 \pm 2,7 | % |
| SD between labs | 0,098 | 0,098 | $\mu\text{g/l}$ |
| RSD between labs | 5,3 | 5,3 | % |
| n for calculation | 31 | 31 | |



Sample M174A

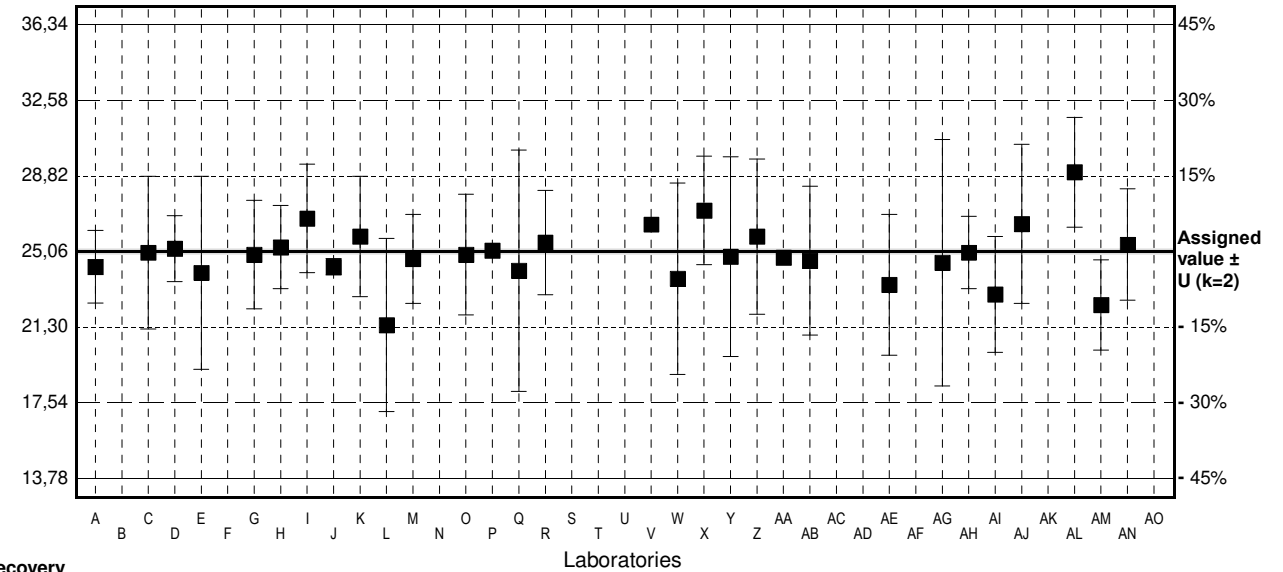
Parameter Barium

Assigned value $\pm U$ (k=2) 25,06 $\mu\text{g/l}$ \pm 0,13 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 24,9 $\mu\text{g/l}$ \pm 0,9 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 24,9 $\mu\text{g/l}$ \pm 0,9 $\mu\text{g/l}$

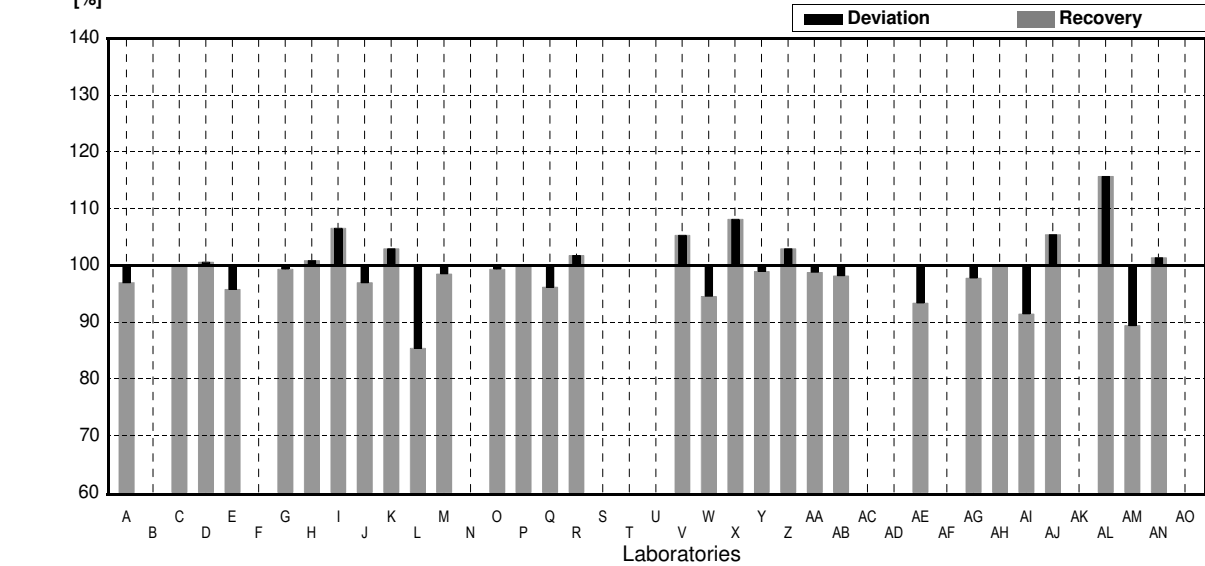
| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|-------|-----------------|----------|---------|
| A | 24.3 | 1.8 | $\mu\text{g/l}$ | 97% | -0.67 |
| B | | | $\mu\text{g/l}$ | | |
| C | 25.0 | 3.80 | $\mu\text{g/l}$ | 100% | -0.05 |
| D | 25.2 | 1.64 | $\mu\text{g/l}$ | 101% | 0.12 |
| E | 24.0 | 4.8 | $\mu\text{g/l}$ | 96% | -0.94 |
| F | | | $\mu\text{g/l}$ | | |
| G | 24.9 | 2.7 | $\mu\text{g/l}$ | 99% | -0.14 |
| H | 25.27 | 2.07 | $\mu\text{g/l}$ | 101% | 0.19 |
| I | 26.7 | 2.7 | $\mu\text{g/l}$ | 107% | 1.45 |
| J | 24.3 | 0.40 | $\mu\text{g/l}$ | 97% | -0.67 |
| K | 25.8 | 3.0 | $\mu\text{g/l}$ | 103% | 0.66 |
| L | 21.4 | 4.3 | $\mu\text{g/l}$ | 85% | -3.25 |
| M | 24.69 | 2.22 | $\mu\text{g/l}$ | 99% | -0.33 |
| N | | | $\mu\text{g/l}$ | | |
| O | 24.9 | 3.0 | $\mu\text{g/l}$ | 99% | -0.14 |
| P | 25.1 | | $\mu\text{g/l}$ | 100% | 0.04 |
| Q | 24.1 | 6.0 | $\mu\text{g/l}$ | 96% | -0.85 |
| R | 25.5 | 2.6 | $\mu\text{g/l}$ | 102% | 0.39 |
| S | | | $\mu\text{g/l}$ | | |
| T | | | $\mu\text{g/l}$ | | |
| U | | | $\mu\text{g/l}$ | | |
| V | 26.4 | | $\mu\text{g/l}$ | 105% | 1.19 |
| W | 23.7 | 4.75 | $\mu\text{g/l}$ | 95% | -1.21 |
| X | 27.1 | 2.7 | $\mu\text{g/l}$ | 108% | 1.81 |
| Y | 24.8 | 4.96 | $\mu\text{g/l}$ | 99% | -0.23 |
| Z | 25.8 | 3.86 | $\mu\text{g/l}$ | 103% | 0.66 |
| AA | 24.76 | | $\mu\text{g/l}$ | 99% | -0.27 |
| AB | 24.6 | 3.69 | $\mu\text{g/l}$ | 98% | -0.41 |
| AC | | | $\mu\text{g/l}$ | | |
| AD | | | $\mu\text{g/l}$ | | |
| AE | 23.4 | 3.5 | $\mu\text{g/l}$ | 93% | -1.47 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 24.5 | 6.13 | $\mu\text{g/l}$ | 98% | -0.50 |
| AH | 25.0 | 1.8 | $\mu\text{g/l}$ | 100% | -0.05 |
| AI | 22.923 | 2.884 | $\mu\text{g/l}$ | 91% | -1.90 |
| AJ | 26.43 | 3.96 | $\mu\text{g/l}$ | 105% | 1.21 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 29.0 | 2.73 | $\mu\text{g/l}$ | 116% | 3.49 |
| AM | 22.4 | 2.24 | $\mu\text{g/l}$ | 89% | -2.36 |
| AN | 25.4 | 2.77 | $\mu\text{g/l}$ | 101% | 0.30 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|------------------|------------------|-----------------|
| Mean \pm CI(99%) | 24,91 \pm 0,73 | 24,89 \pm 0,57 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 99,4 \pm 2,9 | 99,3 \pm 2,3 | % |
| SD between labs | 1,45 | 1,08 | $\mu\text{g/l}$ |
| RSD between labs | 5,8 | 4,3 | % |
| n for calculation | 30 | 28 | |

Result
[$\mu\text{g/l}$]



Recovery
[%]



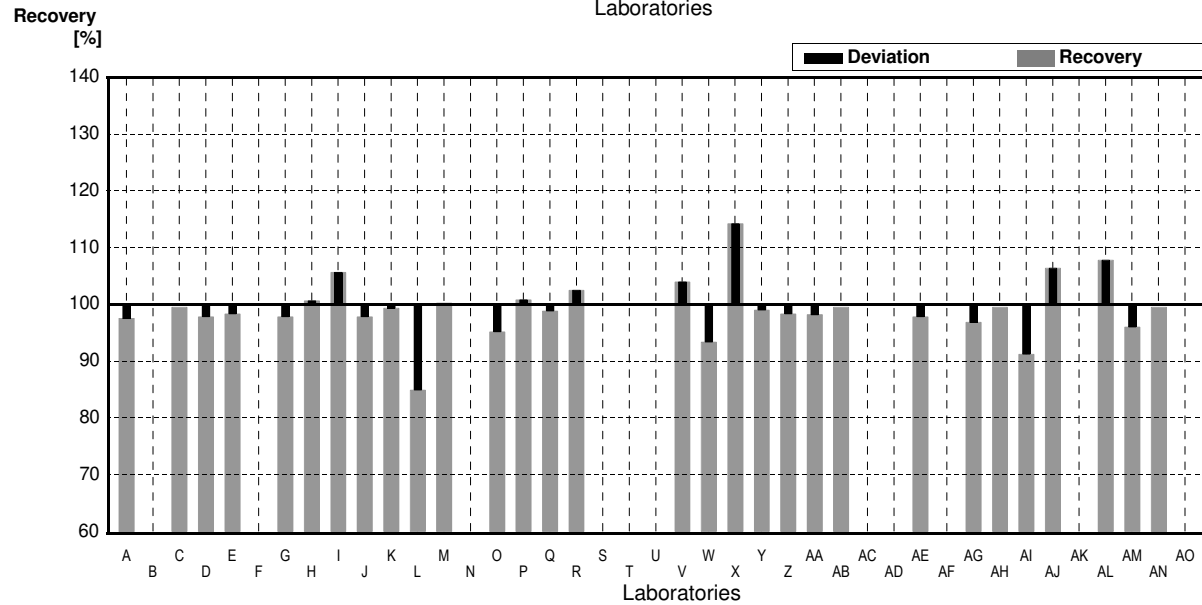
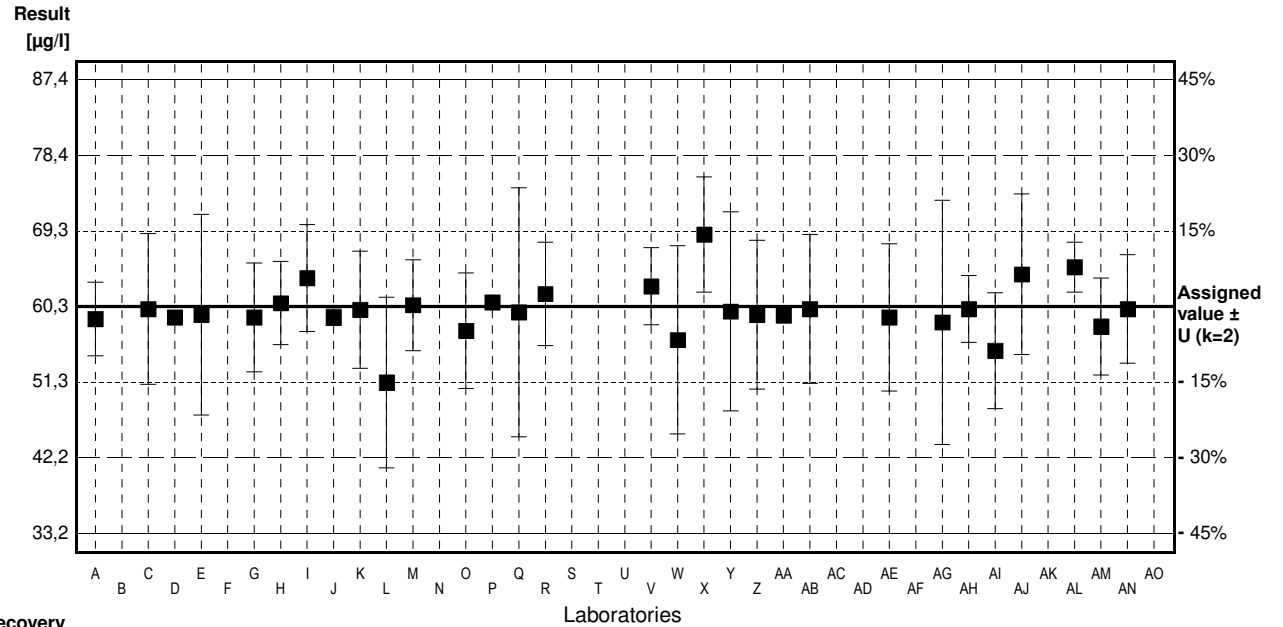
Sample M174B

Parameter Barium

Assigned value ± U (k=2) 60,3 µg/l ± 0,2 µg/l
 IFA result ± U (k=2) 58,1 µg/l ± 1,2 µg/l
 Stability test ± U (k=2) 58,3 µg/l ± 1,2 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|----------|-------|------|----------|---------|
| A | 58.8 | 4.4 | µg/l | 98% | -0.55 |
| B | | | µg/l | | |
| C | 60.0 | 9.00 | µg/l | 100% | -0.11 |
| D | 59 | 0.79 | µg/l | 98% | -0.48 |
| E | 59.3 | 12 | µg/l | 98% | -0.37 |
| F | | | µg/l | | |
| G | 59 | 6.5 | µg/l | 98% | -0.48 |
| H | 60.70 | 4.98 | µg/l | 101% | 0.15 |
| I | 63.7 * | 6.4 | µg/l | 106% | 1.25 |
| J | 59.0 | 0.99 | µg/l | 98% | -0.48 |
| K | 59.9 | 7.0 | µg/l | 99% | -0.15 |
| L | 51.2 * | 10.2 | µg/l | 85% | -3.35 |
| M | 60.46 | 5.44 | µg/l | 100% | 0.06 |
| N | | | µg/l | | |
| O | 57.4 | 6.9 | µg/l | 95% | -1.07 |
| P | 60.8 | | µg/l | 101% | 0.18 |
| Q | 59.6 | 14.9 | µg/l | 99% | -0.26 |
| R | 61.8 | 6.2 | µg/l | 102% | 0.55 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 62.7 | 4.61 | µg/l | 104% | 0.88 |
| W | 56.3 | 11.26 | µg/l | 93% | -1.47 |
| X | 68.9 * | 6.89 | µg/l | 114% | 3.17 |
| Y | 59.7 | 11.9 | µg/l | 99% | -0.22 |
| Z | 59.3 | 8.90 | µg/l | 98% | -0.37 |
| AA | 59.22 | | µg/l | 98% | -0.40 |
| AB | 60 | 8.9 | µg/l | 100% | -0.11 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | 59 | 8.8 | µg/l | 98% | -0.48 |
| AF | | | µg/l | | |
| AG | 58.4 | 14.6 | µg/l | 97% | -0.70 |
| AH | 60 | 4 | µg/l | 100% | -0.11 |
| AI | 55.012 * | 6.921 | µg/l | 91% | -1.95 |
| AJ | 64.15 * | 9.62 | µg/l | 106% | 1.42 |
| AK | | | µg/l | | |
| AL | 65.0 * | 2.99 | µg/l | 108% | 1.73 |
| AM | 57.9 | 5.79 | µg/l | 96% | -0.88 |
| AN | 60 | 6.5 | µg/l | 100% | -0.11 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 59,9 ± 1,6 | 59,5 ± 0,8 | µg/l |
| Recov. ± CI(99%) | 99,3 ± 2,6 | 98,7 ± 1,3 | % |
| SD between labs | 3,1 | 1,3 | µg/l |
| RSD between labs | 5,2 | 2,2 | % |
| n for calculation | 30 | 24 | |



Sample M174A

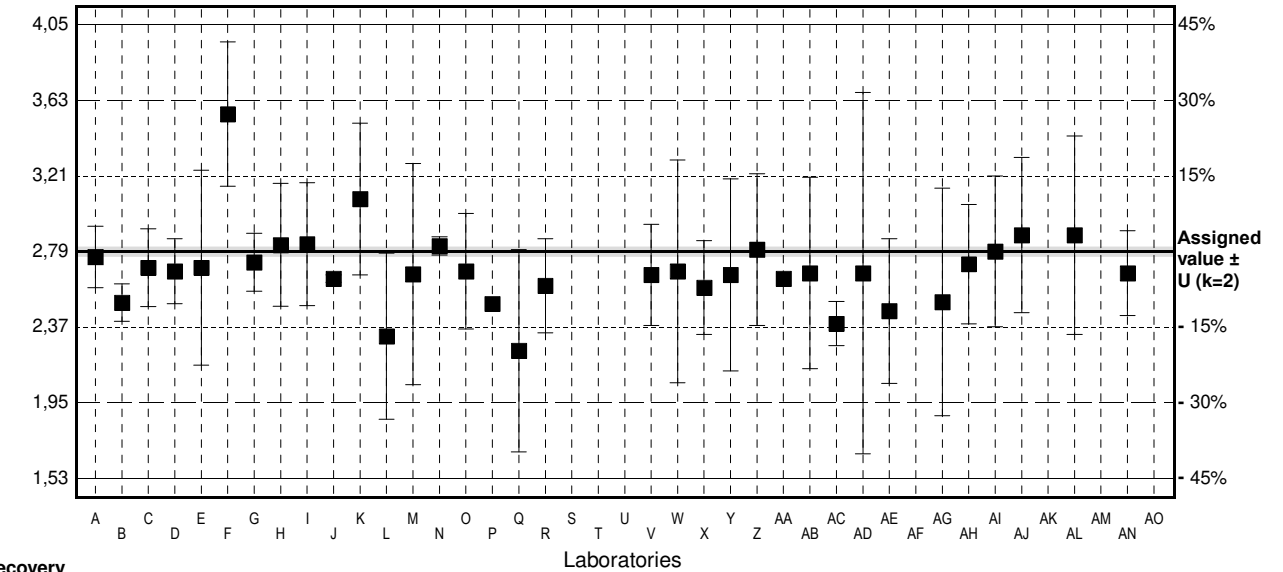
Parameter Lead

Assigned value ± U (k=2) 2,79 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 2,65 µg/l ± 0,13 µg/l
 Stability test ± U (k=2) 2,67 µg/l ± 0,14 µg/l

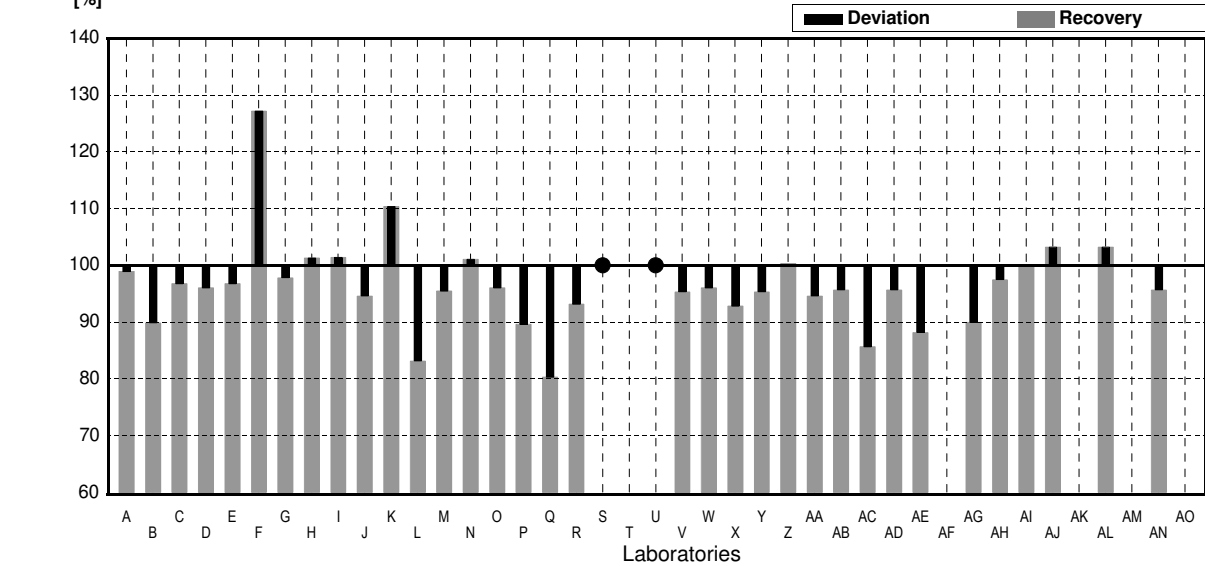
| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 2,76 | 0,17 | µg/l | 99% | -0,16 |
| B | 2,507 | 0,103 | µg/l | 90% | -1,54 |
| C | 2,70 | 0,216 | µg/l | 97% | -0,49 |
| D | 2,68 | 0,18 | µg/l | 96% | -0,60 |
| E | 2,70 | 0,54 | µg/l | 97% | -0,49 |
| F | 3,55 * | 0,40 | µg/l | 127% | 4,13 |
| G | 2,73 | 0,16 | µg/l | 98% | -0,33 |
| H | 2,826 | 0,34 | µg/l | 101% | 0,20 |
| I | 2,83 | 0,34 | µg/l | 101% | 0,22 |
| J | 2,64 | 0,020 | µg/l | 95% | -0,81 |
| K | 3,08 * | 0,42 | µg/l | 110% | 1,57 |
| L | 2,32 | 0,46 | µg/l | 83% | -2,55 |
| M | 2,664 | 0,612 | µg/l | 95% | -0,68 |
| N | 2,82 | 0,0505 | µg/l | 101% | 0,16 |
| O | 2,68 | 0,32 | µg/l | 96% | -0,60 |
| P | 2,50 | | µg/l | 90% | -1,57 |
| Q | 2,24 * | 0,56 | µg/l | 80% | -2,99 |
| R | 2,60 | 0,26 | µg/l | 93% | -1,03 |
| S | <3 | | µg/l | * | |
| T | | | µg/l | | |
| U | <6 | | µg/l | * | |
| V | 2,66 | 0,28 | µg/l | 95% | -0,71 |
| W | 2,68 | 0,617 | µg/l | 96% | -0,60 |
| X | 2,59 | 0,259 | µg/l | 93% | -1,09 |
| Y | 2,66 | 0,532 | µg/l | 95% | -0,71 |
| Z | 2,80 | 0,42 | µg/l | 100% | 0,05 |
| AA | 2,640 | | µg/l | 95% | -0,81 |
| AB | 2,67 | 0,53 | µg/l | 96% | -0,65 |
| AC | 2,39 | 0,122 | µg/l | 86% | -2,17 |
| AD | 2,67 | 1 | µg/l | 96% | -0,65 |
| AE | 2,46 | 0,4 | µg/l | 88% | -1,79 |
| AF | | | µg/l | | |
| AG | 2,51 | 0,63 | µg/l | 90% | -1,52 |
| AH | 2,72 | 0,33 | µg/l | 97% | -0,38 |
| AI | 2,790 | 0,417 | µg/l | 100% | 0,00 |
| AJ | 2,88 | 0,43 | µg/l | 103% | 0,49 |
| AK | | | µg/l | | |
| AL | 2,88 | 0,55 | µg/l | 103% | 0,49 |
| AM | | | µg/l | | |
| AN | 2,67 | 0,235 | µg/l | 96% | -0,65 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 2,69 ± 0,11 | 2,67 ± 0,07 | µg/l |
| Recov. ± CI(99%) | 96,5 ± 3,8 | 95,5 ± 2,4 | % |
| SD between labs | 0,22 | 0,14 | µg/l |
| RSD between labs | 8,3 | 5,1 | % |
| n for calculation | 34 | 31 | |

Result
[µg/l]



Recovery
[%]



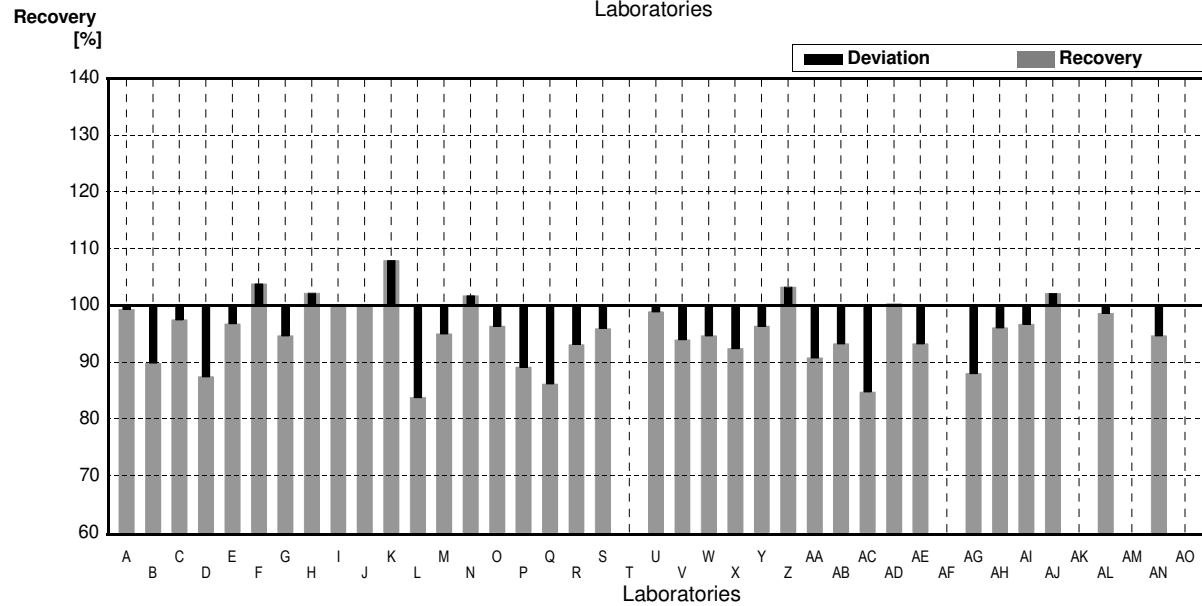
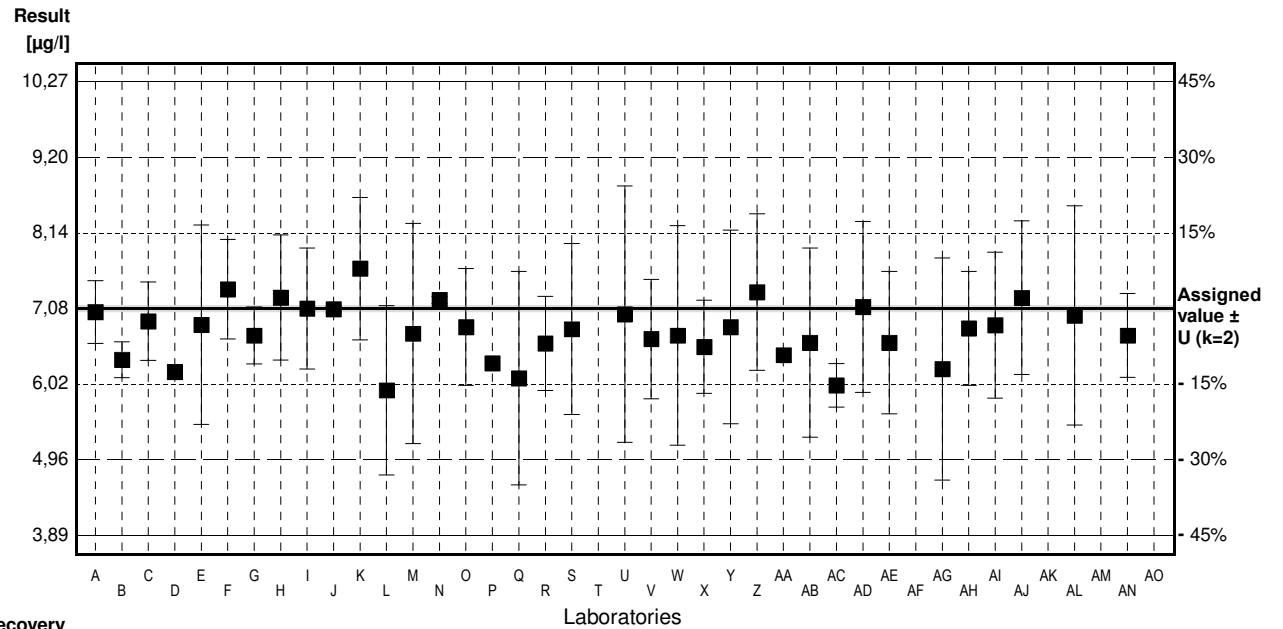
Sample M174B

Parameter Lead

Assigned value $\pm U$ (k=2) 7,08 $\mu\text{g/l}$ \pm 0,04 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 6,3 $\mu\text{g/l}$ \pm 0,3 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 6,4 $\mu\text{g/l}$ \pm 0,3 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|--------|-----------------|----------|---------|
| A | 7.03 | 0.44 | $\mu\text{g/l}$ | 99% | -0.11 |
| B | 6.359 | 0.253 | $\mu\text{g/l}$ | 90% | -1.54 |
| C | 6.90 | 0.552 | $\mu\text{g/l}$ | 97% | -0.39 |
| D | 6.19 | 0.09 | $\mu\text{g/l}$ | 87% | -1.90 |
| E | 6.85 | 1.4 | $\mu\text{g/l}$ | 97% | -0.49 |
| F | 7.35 | 0.70 | $\mu\text{g/l}$ | 104% | 0.58 |
| G | 6.70 | 0.40 | $\mu\text{g/l}$ | 95% | -0.81 |
| H | 7.232 | 0.88 | $\mu\text{g/l}$ | 102% | 0.33 |
| I | 7.08 | 0.85 | $\mu\text{g/l}$ | 100% | 0.00 |
| J | 7.07 | 0.040 | $\mu\text{g/l}$ | 100% | -0.02 |
| K | 7.64 | 1.0 | $\mu\text{g/l}$ | 108% | 1.20 |
| L | 5.93 | 1.19 | $\mu\text{g/l}$ | 84% | -2.46 |
| M | 6.726 | 1.547 | $\mu\text{g/l}$ | 95% | -0.76 |
| N | 7.20 | 0.0479 | $\mu\text{g/l}$ | 102% | 0.26 |
| O | 6.82 | 0.82 | $\mu\text{g/l}$ | 96% | -0.56 |
| P | 6.31 | | $\mu\text{g/l}$ | 89% | -1.65 |
| Q | 6.1 | 1.5 | $\mu\text{g/l}$ | 86% | -2.10 |
| R | 6.59 | 0.66 | $\mu\text{g/l}$ | 93% | -1.05 |
| S | 6.79 | 1.20 | $\mu\text{g/l}$ | 96% | -0.62 |
| T | | | $\mu\text{g/l}$ | | |
| U | 7.0 | 1.8 | $\mu\text{g/l}$ | 99% | -0.17 |
| V | 6.65 | 0.84 | $\mu\text{g/l}$ | 94% | -0.92 |
| W | 6.70 | 1.541 | $\mu\text{g/l}$ | 95% | -0.81 |
| X | 6.54 | 0.654 | $\mu\text{g/l}$ | 92% | -1.16 |
| Y | 6.82 | 1.36 | $\mu\text{g/l}$ | 96% | -0.56 |
| Z | 7.31 | 1.10 | $\mu\text{g/l}$ | 103% | 0.49 |
| AA | 6.425 | | $\mu\text{g/l}$ | 91% | -1.40 |
| AB | 6.6 | 1.33 | $\mu\text{g/l}$ | 93% | -1.03 |
| AC | 6.0 | 0.306 | $\mu\text{g/l}$ | 85% | -2.31 |
| AD | 7.1 | 1.2 | $\mu\text{g/l}$ | 100% | 0.04 |
| AE | 6.6 | 1.0 | $\mu\text{g/l}$ | 93% | -1.03 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 6.23 | 1.56 | $\mu\text{g/l}$ | 88% | -1.82 |
| AH | 6.8 | 0.8 | $\mu\text{g/l}$ | 96% | -0.60 |
| AI | 6.844 | 1.024 | $\mu\text{g/l}$ | 97% | -0.51 |
| AJ | 7.23 | 1.08 | $\mu\text{g/l}$ | 102% | 0.32 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 6.98 | 1.54 | $\mu\text{g/l}$ | 99% | -0.21 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 6.7 | 0.59 | $\mu\text{g/l}$ | 95% | -0.81 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-----------------|-----------------|-----------------|
| Mean \pm CI(99%) | 6,76 \pm 0,18 | 6,76 \pm 0,18 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 95,5 \pm 2,6 | 95,5 \pm 2,6 | % |
| SD between labs | 0,40 | 0,40 | $\mu\text{g/l}$ |
| RSD between labs | 5,9 | 5,9 | % |
| n for calculation | 36 | 36 | |



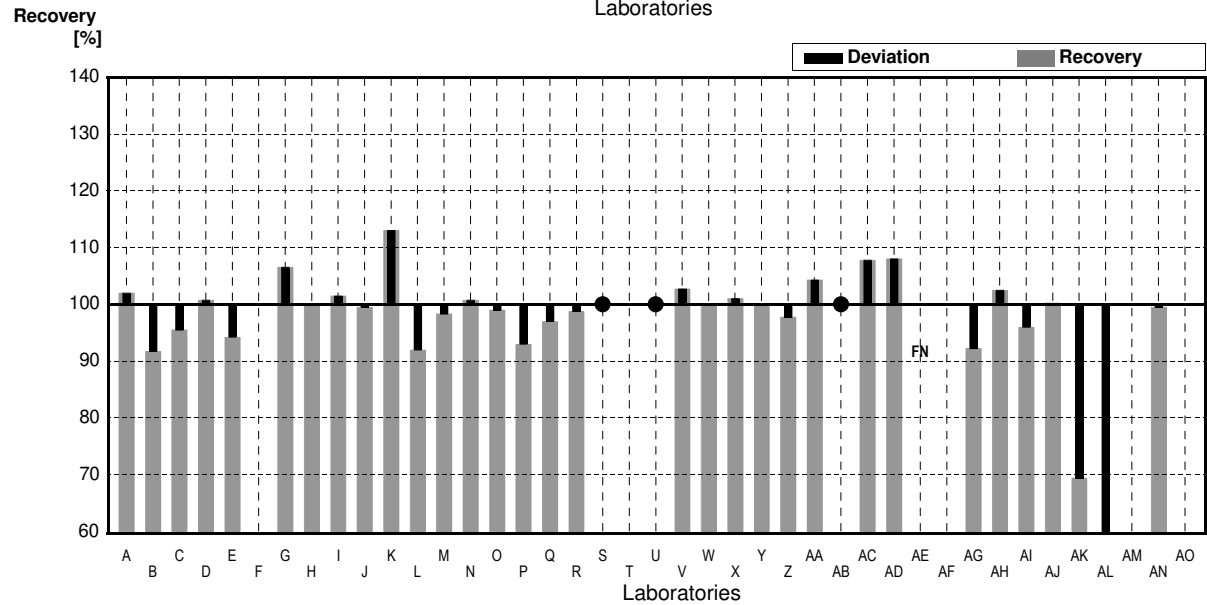
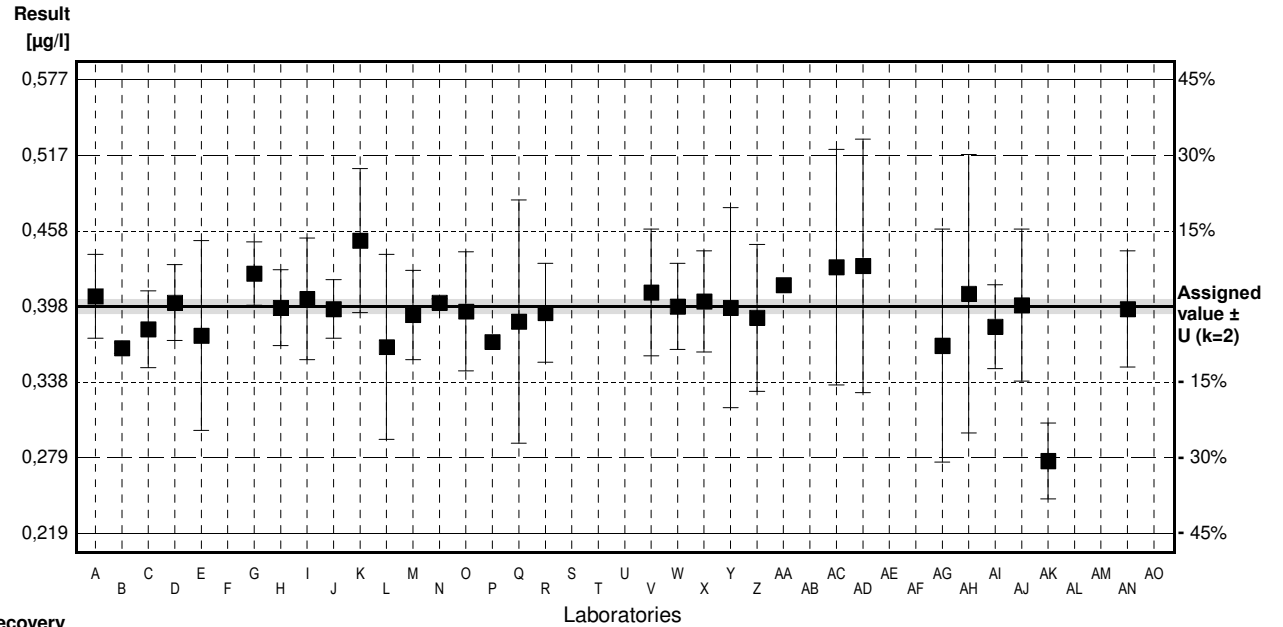
Sample M174A

Parameter Cadmium

Assigned value $\pm U$ (k=2) 0,398 $\mu\text{g/l}$ \pm 0,006 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,402 $\mu\text{g/l}$ \pm 0,025 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,402 $\mu\text{g/l}$ \pm 0,025 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|---------|---------|-----------------|----------|---------|
| A | 0.406 | 0.033 | $\mu\text{g/l}$ | 102% | 0.39 |
| B | 0.365 | 0.004 | $\mu\text{g/l}$ | 92% | -1.59 |
| C | 0.380 | 0.0304 | $\mu\text{g/l}$ | 95% | -0.87 |
| D | 0.401 | 0.03 | $\mu\text{g/l}$ | 101% | 0.14 |
| E | 0.375 | 0.075 | $\mu\text{g/l}$ | 94% | -1.11 |
| F | | | $\mu\text{g/l}$ | | |
| G | 0.424 | 0.025 | $\mu\text{g/l}$ | 107% | 1.26 |
| H | 0.397 | 0.03 | $\mu\text{g/l}$ | 100% | -0.05 |
| I | 0.404 | 0.048 | $\mu\text{g/l}$ | 102% | 0.29 |
| J | 0.396 | 0.023 | $\mu\text{g/l}$ | 99% | -0.10 |
| K | 0.450 * | 0.057 | $\mu\text{g/l}$ | 113% | 2.51 |
| L | 0.366 | 0.073 | $\mu\text{g/l}$ | 92% | -1.55 |
| M | 0.3913 | 0.0352 | $\mu\text{g/l}$ | 98% | -0.32 |
| N | 0.401 | 0.00281 | $\mu\text{g/l}$ | 101% | 0.14 |
| O | 0.394 | 0.047 | $\mu\text{g/l}$ | 99% | -0.19 |
| P | 0.370 | | $\mu\text{g/l}$ | 93% | -1.35 |
| Q | 0.386 | 0.096 | $\mu\text{g/l}$ | 97% | -0.58 |
| R | 0.393 | 0.039 | $\mu\text{g/l}$ | 99% | -0.24 |
| S | < 1.0 | | $\mu\text{g/l}$ | . | |
| T | | | $\mu\text{g/l}$ | | |
| U | <0.5 | | $\mu\text{g/l}$ | . | |
| V | 0.409 | 0.05 | $\mu\text{g/l}$ | 103% | 0.53 |
| W | 0.398 | 0.034 | $\mu\text{g/l}$ | 100% | 0.00 |
| X | 0.402 | 0.040 | $\mu\text{g/l}$ | 101% | 0.19 |
| Y | 0.397 | 0.079 | $\mu\text{g/l}$ | 100% | -0.05 |
| Z | 0.389 | 0.058 | $\mu\text{g/l}$ | 98% | -0.43 |
| AA | 0.415 | | $\mu\text{g/l}$ | 104% | 0.82 |
| AB | <0.5 | | $\mu\text{g/l}$ | . | |
| AC | 0.429 | 0.093 | $\mu\text{g/l}$ | 108% | 1.50 |
| AD | 0.430 | 0.1 | $\mu\text{g/l}$ | 108% | 1.55 |
| AE | <0.3 | 0.04 | $\mu\text{g/l}$ | FN | |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 0.367 | 0.092 | $\mu\text{g/l}$ | 92% | -1.50 |
| AH | 0.408 | 0.110 | $\mu\text{g/l}$ | 103% | 0.48 |
| AI | 0.382 | 0.033 | $\mu\text{g/l}$ | 96% | -0.77 |
| AJ | 0.399 | 0.06 | $\mu\text{g/l}$ | 100% | 0.05 |
| AK | 0.276 * | 0.03 | $\mu\text{g/l}$ | 69% | -5.89 |
| AL | 0.139 * | 0.023 | $\mu\text{g/l}$ | 35% | -12.51 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 0.396 | 0.046 | $\mu\text{g/l}$ | 99% | -0.10 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-------------------|-------------------|-----------------|
| Mean \pm CI(99%) | 0,385 \pm 0,026 | 0,396 \pm 0,009 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 96,9 \pm 6,5 | 99,4 \pm 2,2 | % |
| SD between labs | 0,053 | 0,017 | $\mu\text{g/l}$ |
| RSD between labs | 13,8 | 4,4 | % |
| n for calculation | 32 | 29 | |



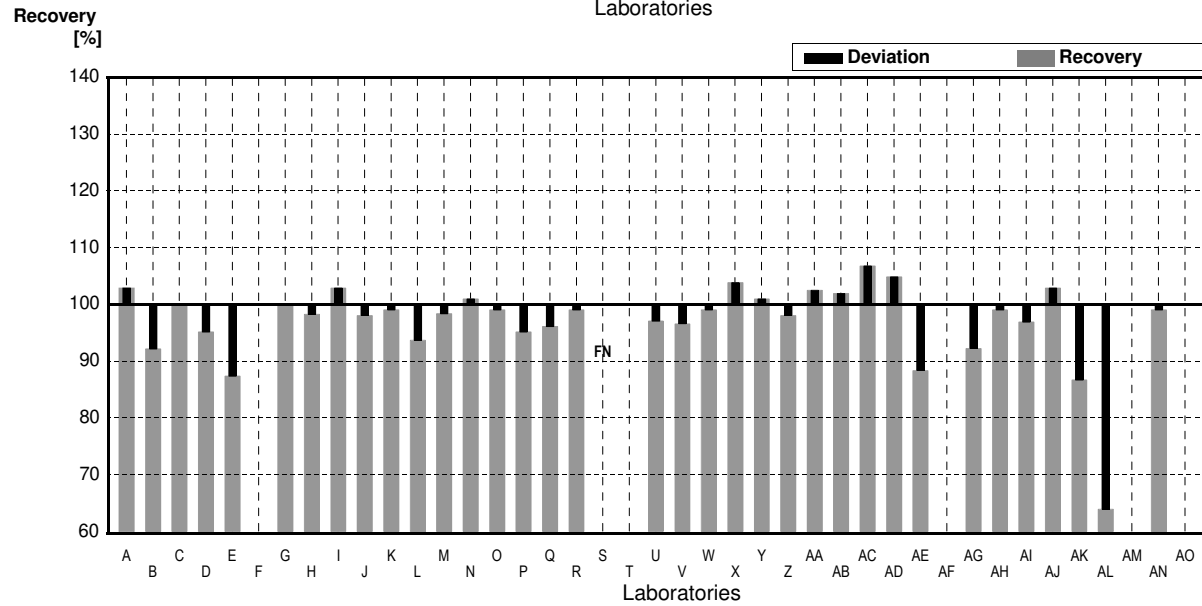
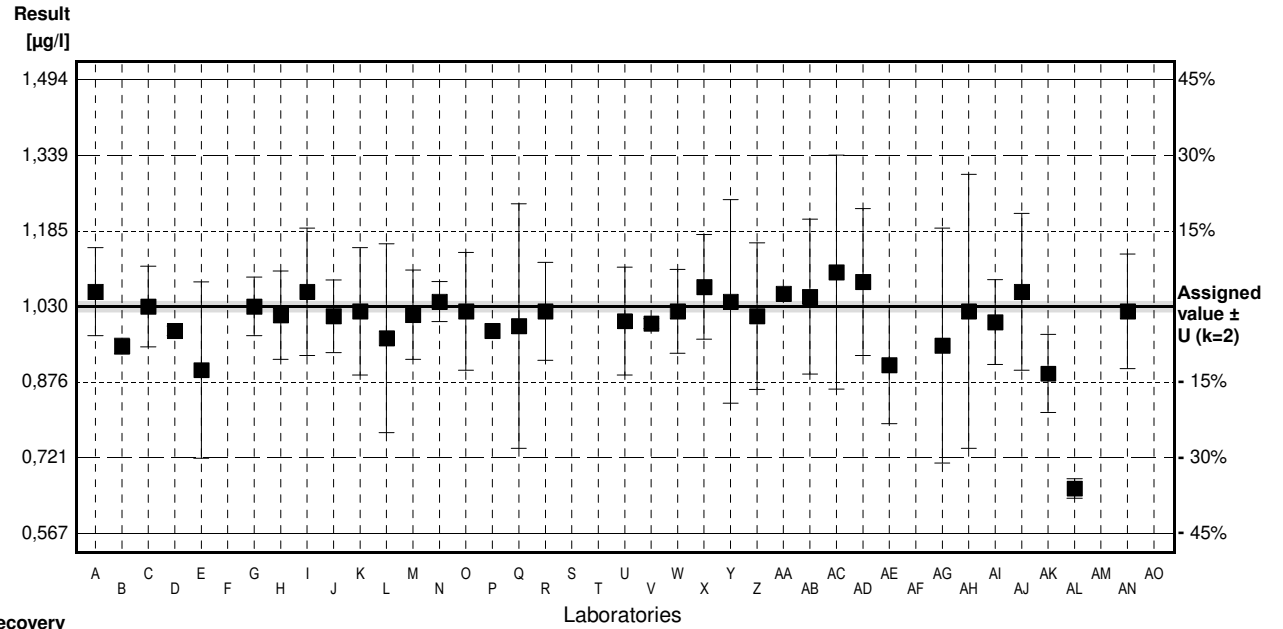
Sample M174B

Parameter Cadmium

Assigned value ± U (k=2) 1,030 µg/l ± 0,011 µg/l
 IFA result ± U (k=2) 1,03 µg/l ± 0,06 µg/l
 Stability test ± U (k=2) 1,00 µg/l ± 0,06 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A | 1.06 | 0.09 | µg/l | 103% | 0.56 |
| B | 0.949 | 0.016 | µg/l | 92% | -1.51 |
| C | 1.03 | 0.0824 | µg/l | 100% | 0.00 |
| D | 0.98 | 0.01 | µg/l | 95% | -0.93 |
| E | 0.900 | 0.18 | µg/l | 87% | -2.43 |
| F | | | µg/l | | |
| G | 1.03 | 0.06 | µg/l | 100% | 0.00 |
| H | 1.012 | 0.09 | µg/l | 98% | -0.34 |
| I | 1.06 | 0.13 | µg/l | 103% | 0.56 |
| J | 1.01 | 0.074 | µg/l | 98% | -0.37 |
| K | 1.02 | 0.13 | µg/l | 99% | -0.19 |
| L | 0.965 | 0.193 | µg/l | 94% | -1.21 |
| M | 1.013 | 0.091 | µg/l | 98% | -0.32 |
| N | 1.04 | 0.0409 | µg/l | 101% | 0.19 |
| O | 1.02 | 0.12 | µg/l | 99% | -0.19 |
| P | 0.98 | | µg/l | 95% | -0.93 |
| Q | 0.99 | 0.25 | µg/l | 96% | -0.75 |
| R | 1.02 | 0.10 | µg/l | 99% | -0.19 |
| S | < 1.0 | | µg/l | FN | |
| T | | | µg/l | | |
| U | 1.00 | 0.11 | µg/l | 97% | -0.56 |
| V | 0.995 | 0.01 | µg/l | 97% | -0.65 |
| W | 1.02 | 0.086 | µg/l | 99% | -0.19 |
| X | 1.07 | 0.107 | µg/l | 104% | 0.75 |
| Y | 1.04 | 0.208 | µg/l | 101% | 0.19 |
| Z | 1.01 | 0.15 | µg/l | 98% | -0.37 |
| AA | 1.056 | | µg/l | 103% | 0.49 |
| AB | 1.05 | 0.158 | µg/l | 102% | 0.37 |
| AC | 1.10 | 0.239 | µg/l | 107% | 1.31 |
| AD | 1.08 | 0.15 | µg/l | 105% | 0.93 |
| AE | 0.91 | 0.12 | µg/l | 88% | -2.24 |
| AF | | | µg/l | | |
| AG | 0.95 | 0.24 | µg/l | 92% | -1.49 |
| AH | 1.02 | 0.28 | µg/l | 99% | -0.19 |
| AI | 0.998 | 0.087 | µg/l | 97% | -0.60 |
| AJ | 1.06 | 0.16 | µg/l | 103% | 0.56 |
| AK | 0.893 | 0.08 | µg/l | 87% | -2.56 |
| AL | 0.658 * | 0.02 | µg/l | 64% | -6.95 |
| AM | | | µg/l | | |
| AN | 1.02 | 0.117 | µg/l | 99% | -0.19 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|---------------|----------------|------|
| Mean ± CI(99%) | 1,000 ± 0,035 | 1,010 ± 0,023 | µg/l |
| Recov. ± CI(99%) | 97,1 ± 3,4 | 98,1 ± 2,2 | % |
| SD between labs | 0,077 | 0,049 | µg/l |
| RSD between labs | 7,7 | 4,8 | % |
| n for calculation | 35 | 34 | |



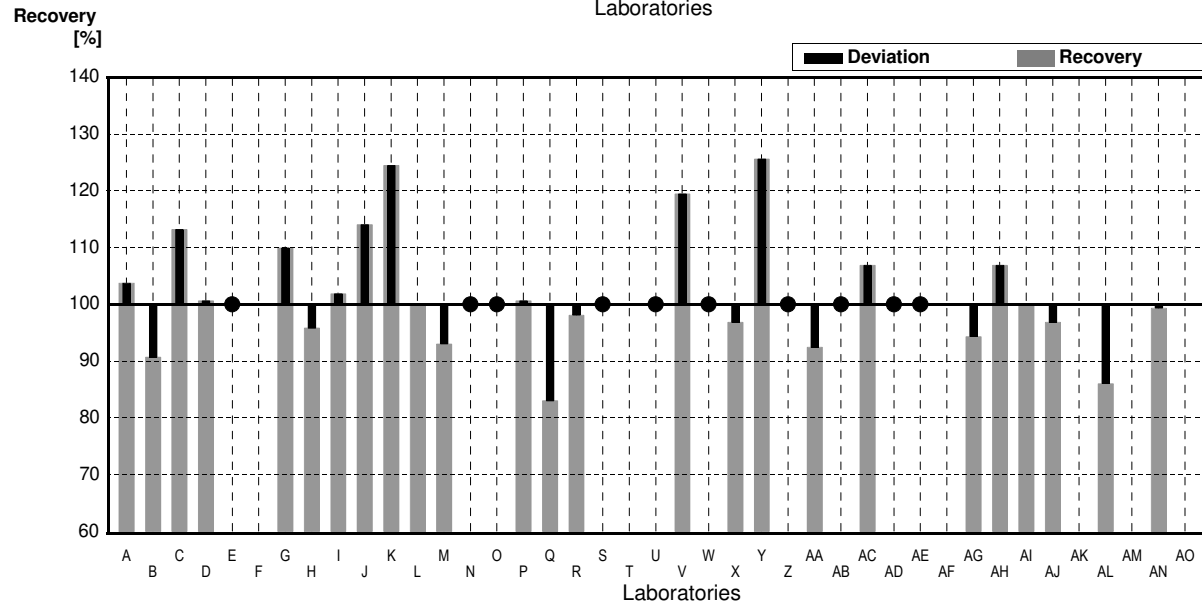
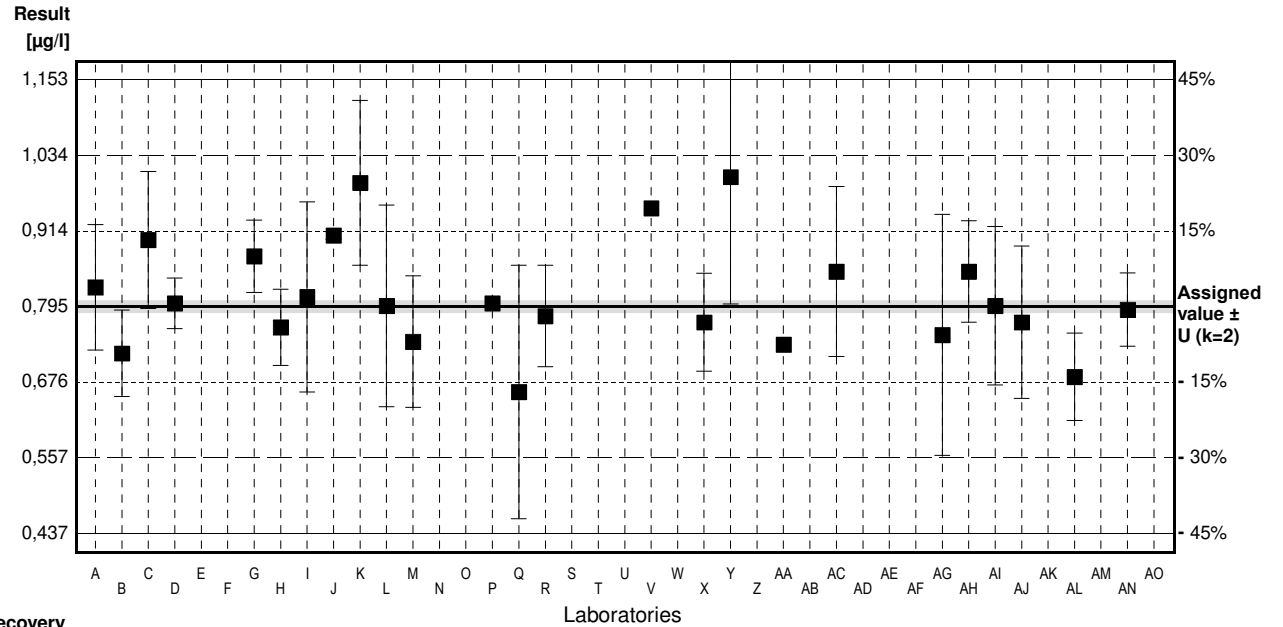
Sample M174A

Parameter Chromium

Assigned value ± U (k=2) 0,795 µg/l ± 0,010 µg/l
 IFA result ± U (k=2) 0,79 µg/l ± 0,06 µg/l
 Stability test ± U (k=2) 0,80 µg/l ± 0,06 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 0,825 | 0,099 | µg/l | 104% | 0,61 |
| B | 0,721 | 0,068 | µg/l | 91% | -1,50 |
| C | 0,90 | 0,108 | µg/l | 113% | 2,13 |
| D | 0,80 | 0,04 | µg/l | 101% | 0,10 |
| E | <1 | | µg/l | • | |
| F | | | µg/l | | |
| G | 0,874 | 0,057 | µg/l | 110% | 1,60 |
| H | 0,762 | 0,06 | µg/l | 96% | -0,67 |
| I | 0,81 | 0,15 | µg/l | 102% | 0,30 |
| J | 0,907 | 0,006 | µg/l | 114% | 2,27 |
| K | 0,990 | 0,13 | µg/l | 125% | 3,96 |
| L | 0,796 | 0,159 | µg/l | 100% | 0,02 |
| M | 0,7396 | 0,1036 | µg/l | 93% | -1,12 |
| N | <1 | | µg/l | • | |
| O | <1,0 | | µg/l | • | |
| P | 0,80 | | µg/l | 101% | 0,10 |
| Q | 0,66 | 0,20 | µg/l | 83% | -2,74 |
| R | 0,78 | 0,08 | µg/l | 98% | -0,30 |
| S | < 2,0 | | µg/l | • | |
| T | | | µg/l | | |
| U | <5 | | µg/l | • | |
| V | 0,95 | | µg/l | 119% | 3,14 |
| W | <1 | | µg/l | • | |
| X | 0,77 | 0,077 | µg/l | 97% | -0,51 |
| Y | 0,999 | 0,200 | µg/l | 126% | 4,14 |
| Z | <1 | | µg/l | • | |
| AA | 0,735 | | µg/l | 92% | -1,22 |
| AB | <5 | | µg/l | • | |
| AC | 0,85 | 0,134 | µg/l | 107% | 1,12 |
| AD | <2 | | µg/l | • | |
| AE | <1,0 | 0,1 | µg/l | • | |
| AF | | | µg/l | | |
| AG | 0,75 | 0,19 | µg/l | 94% | -0,91 |
| AH | 0,85 | 0,08 | µg/l | 107% | 1,12 |
| AI | 0,796 | 0,125 | µg/l | 100% | 0,02 |
| AJ | 0,77 | 0,12 | µg/l | 97% | -0,51 |
| AK | | | µg/l | | |
| AL | 0,684 | 0,069 | µg/l | 86% | -2,25 |
| AM | | | µg/l | | |
| AN | 0,79 | 0,058 | µg/l | 99% | -0,10 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|---------------|----------------|------|
| Mean ± CI(99%) | 0,812 ± 0,049 | 0,812 ± 0,049 | µg/l |
| Recov. ± CI(99%) | 102,2 ± 6,1 | 102,2 ± 6,1 | % |
| SD between labs | 0,087 | 0,087 | µg/l |
| RSD between labs | 10,7 | 10,7 | % |
| n for calculation | 25 | 25 | |



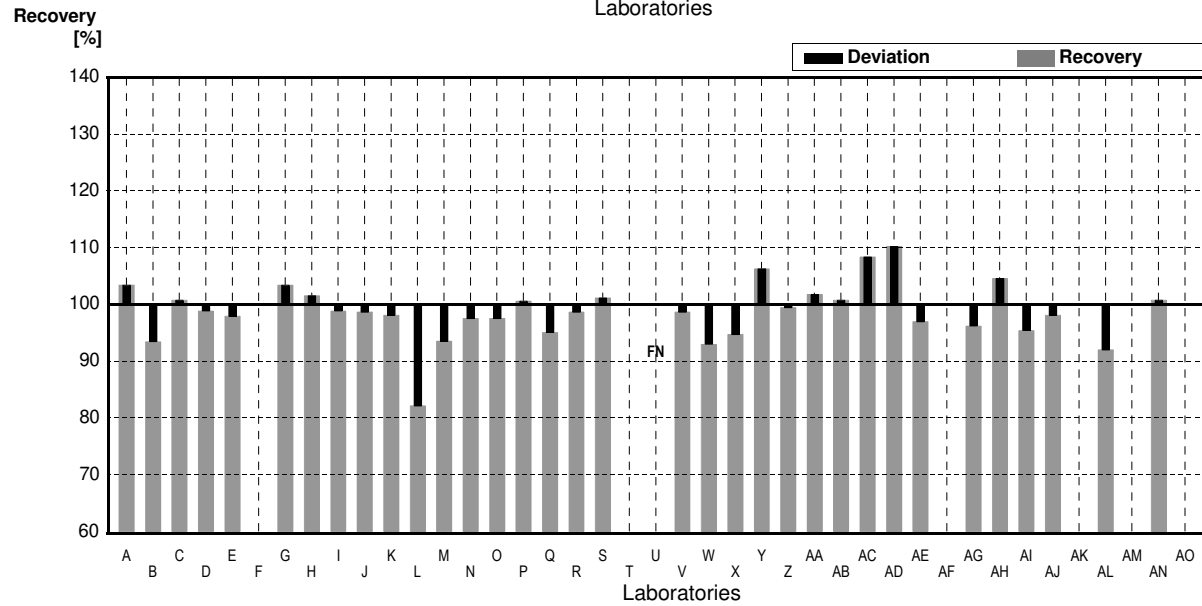
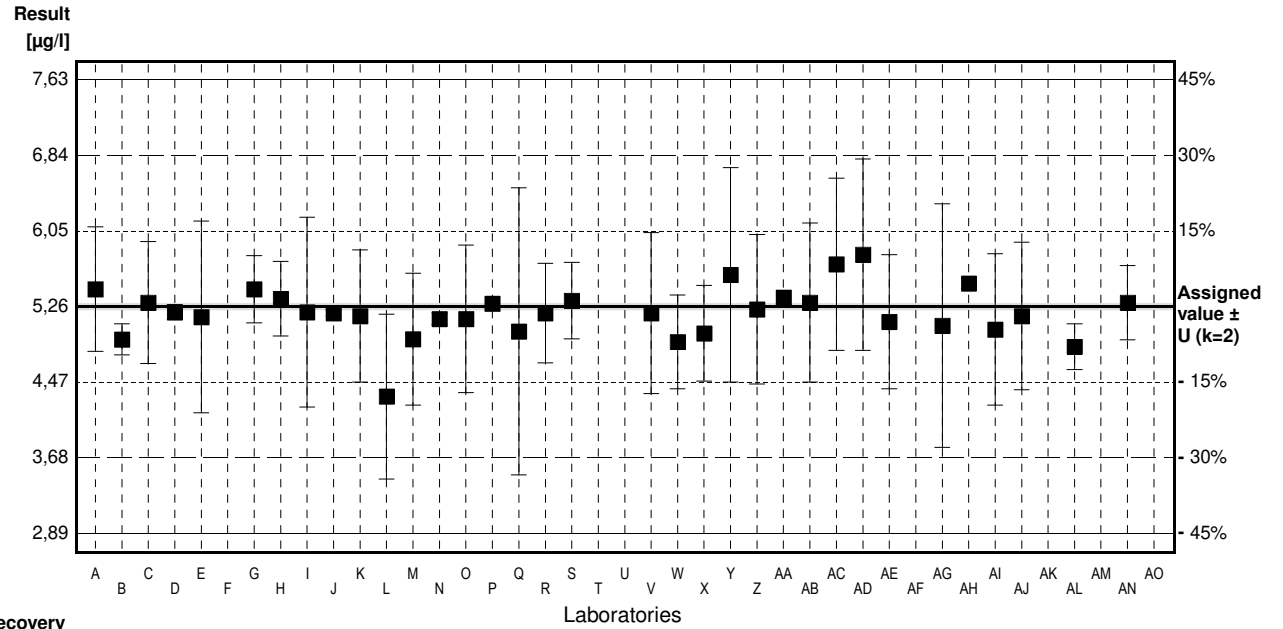
Sample M174B

Parameter Chromium

Assigned value ± U (k=2) 5,26 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 5,13 µg/l ± 0,16 µg/l
 Stability test ± U (k=2) 5,20 µg/l ± 0,16 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 5.44 | 0.65 | µg/l | 103% | 0.55 |
| B | 4.915 | 0.162 | µg/l | 93% | -1.06 |
| C | 5.30 | 0.636 | µg/l | 101% | 0.12 |
| D | 5.2 | 0.08 | µg/l | 99% | -0.18 |
| E | 5.15 | 1.0 | µg/l | 98% | -0.34 |
| F | | | µg/l | | |
| G | 5.44 | 0.35 | µg/l | 103% | 0.55 |
| H | 5.341 | 0.39 | µg/l | 102% | 0.25 |
| I | 5.20 | 0.99 | µg/l | 99% | -0.18 |
| J | 5.19 | 0.031 | µg/l | 99% | -0.21 |
| K | 5.16 | 0.69 | µg/l | 98% | -0.31 |
| L | 4.32 * | 0.86 | µg/l | 82% | -2.88 |
| M | 4.919 | 0.689 | µg/l | 94% | -1.05 |
| N | 5.13 | 0.0630 | µg/l | 98% | -0.40 |
| O | 5.13 | 0.77 | µg/l | 98% | -0.40 |
| P | 5.29 | | µg/l | 101% | 0.09 |
| Q | 5.0 | 1.5 | µg/l | 95% | -0.80 |
| R | 5.19 | 0.52 | µg/l | 99% | -0.21 |
| S | 5.32 | 0.40 | µg/l | 101% | 0.18 |
| T | | | µg/l | | |
| U | <5 | | µg/l | FN | |
| V | 5.19 | 0.84 | µg/l | 99% | -0.21 |
| W | 4.89 | 0.489 | µg/l | 93% | -1.13 |
| X | 4.98 | 0.498 | µg/l | 95% | -0.86 |
| Y | 5.59 | 1.12 | µg/l | 106% | 1.01 |
| Z | 5.23 | 0.78 | µg/l | 99% | -0.09 |
| AA | 5.352 | | µg/l | 102% | 0.28 |
| AB | 5.3 | 0.83 | µg/l | 101% | 0.12 |
| AC | 5.7 | 0.90 | µg/l | 108% | 1.35 |
| AD | 5.8 * | 1 | µg/l | 110% | 1.66 |
| AE | 5.1 | 0.7 | µg/l | 97% | -0.49 |
| AF | | | µg/l | | |
| AG | 5.06 | 1.27 | µg/l | 96% | -0.61 |
| AH | 5.5 | 0.05 | µg/l | 105% | 0.74 |
| AI | 5.019 | 0.790 | µg/l | 95% | -0.74 |
| AJ | 5.16 | 0.77 | µg/l | 98% | -0.31 |
| AK | | | µg/l | | |
| AL | 4.84 | 0.24 | µg/l | 92% | -1.29 |
| AM | | | µg/l | | |
| AN | 5.3 | 0.387 | µg/l | 101% | 0.12 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 5,20 ± 0,10 | 5,20 ± 0,10 | µg/l |
| Recov. ± CI(99%) | 98,8 ± 2,4 | 98,9 ± 1,9 | % |
| SD between labs | 0,27 | 0,20 | µg/l |
| RSD between labs | 5,2 | 3,9 | % |
| n for calculation | 34 | 32 | |



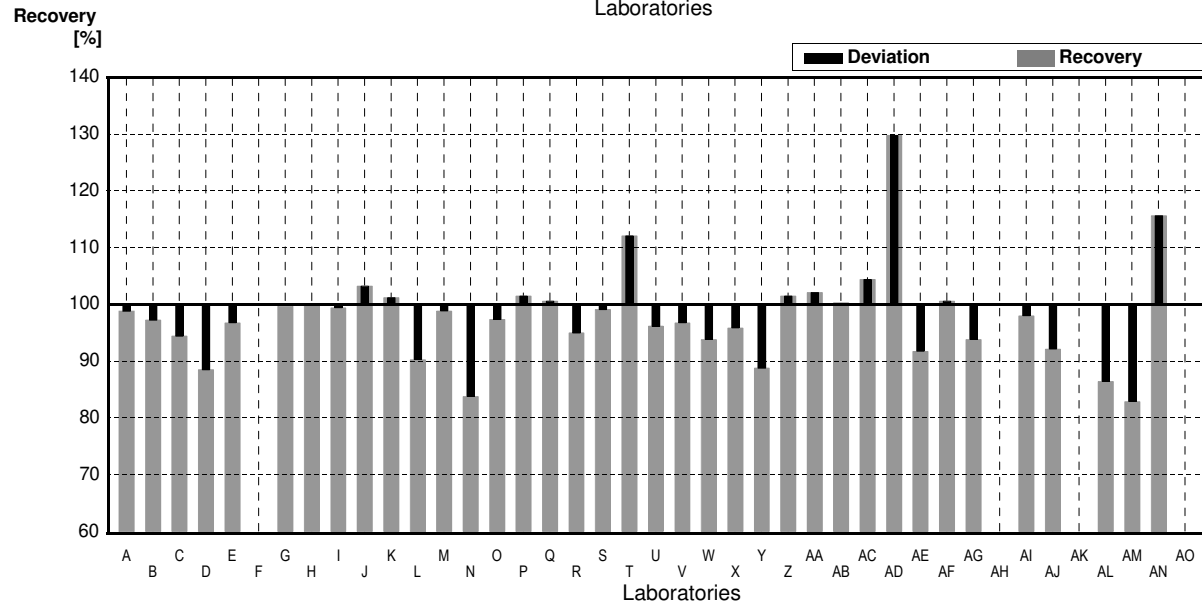
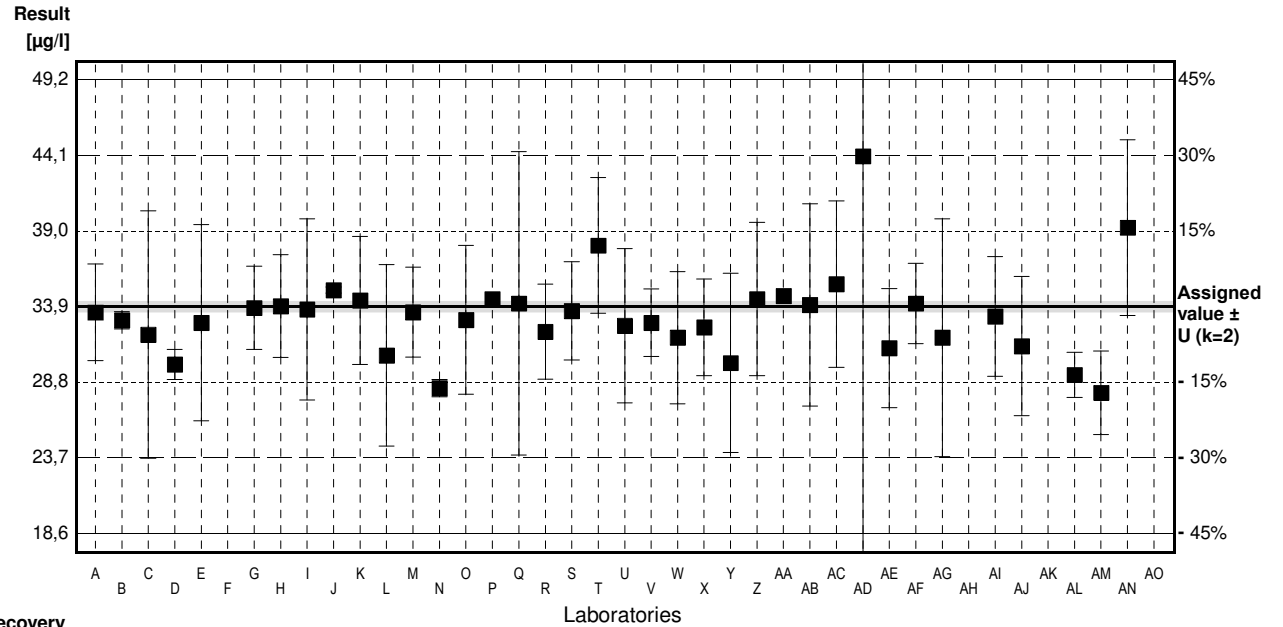
Sample M174A

Parameter Iron

Assigned value $\pm U$ (k=2) 33,9 $\mu\text{g/l}$ \pm 0,4 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 35,2 $\mu\text{g/l}$ \pm 2,7 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 33,0 $\mu\text{g/l}$ \pm 2,5 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|-------|-----------------|----------|---------|
| A | 33.5 | 3.25 | $\mu\text{g/l}$ | 99% | -0.18 |
| B | 32.97 | 0.59 | $\mu\text{g/l}$ | 97% | -0.42 |
| C | 32.0 | 8.32 | $\mu\text{g/l}$ | 94% | -0.85 |
| D | 30.0 | 1.01 | $\mu\text{g/l}$ | 88% | -1.74 |
| E | 32.8 | 6.6 | $\mu\text{g/l}$ | 97% | -0.49 |
| F | | | $\mu\text{g/l}$ | | |
| G | 33.8 | 2.8 | $\mu\text{g/l}$ | 100% | -0.04 |
| H | 33.92 | 3.46 | $\mu\text{g/l}$ | 100% | 0.01 |
| I | 33.7 | 6.1 | $\mu\text{g/l}$ | 99% | -0.09 |
| J | 35.0 | 0.21 | $\mu\text{g/l}$ | 103% | 0.49 |
| K | 34.3 | 4.3 | $\mu\text{g/l}$ | 101% | 0.18 |
| L | 30.6 | 6.1 | $\mu\text{g/l}$ | 90% | -1.47 |
| M | 33.51 | 3.02 | $\mu\text{g/l}$ | 99% | -0.17 |
| N | 28.4 | 0.578 | $\mu\text{g/l}$ | 84% | -2.46 |
| O | 33.0 | 5.0 | $\mu\text{g/l}$ | 97% | -0.40 |
| P | 34.4 | | $\mu\text{g/l}$ | 101% | 0.22 |
| Q | 34.1 | 10.2 | $\mu\text{g/l}$ | 101% | 0.09 |
| R | 32.2 | 3.2 | $\mu\text{g/l}$ | 95% | -0.76 |
| S | 33.6 | 3.3 | $\mu\text{g/l}$ | 99% | -0.13 |
| T | 38.00 | 4.56 | $\mu\text{g/l}$ | 112% | 1.83 |
| U | 32.6 | 5.2 | $\mu\text{g/l}$ | 96% | -0.58 |
| V | 32.8 | 2.28 | $\mu\text{g/l}$ | 97% | -0.49 |
| W | 31.8 | 4.45 | $\mu\text{g/l}$ | 94% | -0.94 |
| X | 32.5 | 3.25 | $\mu\text{g/l}$ | 96% | -0.63 |
| Y | 30.1 | 6.02 | $\mu\text{g/l}$ | 89% | -1.70 |
| Z | 34.4 | 5.16 | $\mu\text{g/l}$ | 101% | 0.22 |
| AA | 34.61 | | $\mu\text{g/l}$ | 102% | 0.32 |
| AB | 34.0 | 6.8 | $\mu\text{g/l}$ | 100% | 0.04 |
| AC | 35.4 | 5.6 | $\mu\text{g/l}$ | 104% | 0.67 |
| AD | 44.0 * | 30 | $\mu\text{g/l}$ | 130% | 4.51 |
| AE | 31.1 | 4.0 | $\mu\text{g/l}$ | 92% | -1.25 |
| AF | 34.1 | 2.7 | $\mu\text{g/l}$ | 101% | 0.09 |
| AG | 31.8 | 8.0 | $\mu\text{g/l}$ | 94% | -0.94 |
| AH | | | $\mu\text{g/l}$ | | |
| AI | 33.225 | 4.030 | $\mu\text{g/l}$ | 98% | -0.30 |
| AJ | 31.23 | 4.68 | $\mu\text{g/l}$ | 92% | -1.19 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 29.3 | 1.52 | $\mu\text{g/l}$ | 86% | -2.06 |
| AM | 28.1 | 2.81 | $\mu\text{g/l}$ | 83% | -2.59 |
| AN | 39.2 * | 5.9 | $\mu\text{g/l}$ | 116% | 2.37 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|----------------|----------------|-----------------|
| Mean \pm CI(99%) | 33,2 \pm 1,3 | 32,8 \pm 0,9 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 98,1 \pm 3,8 | 96,7 \pm 2,8 | % |
| SD between labs | 2,9 | 2,0 | $\mu\text{g/l}$ |
| RSD between labs | 8,7 | 6,2 | % |
| n for calculation | 37 | 35 | |



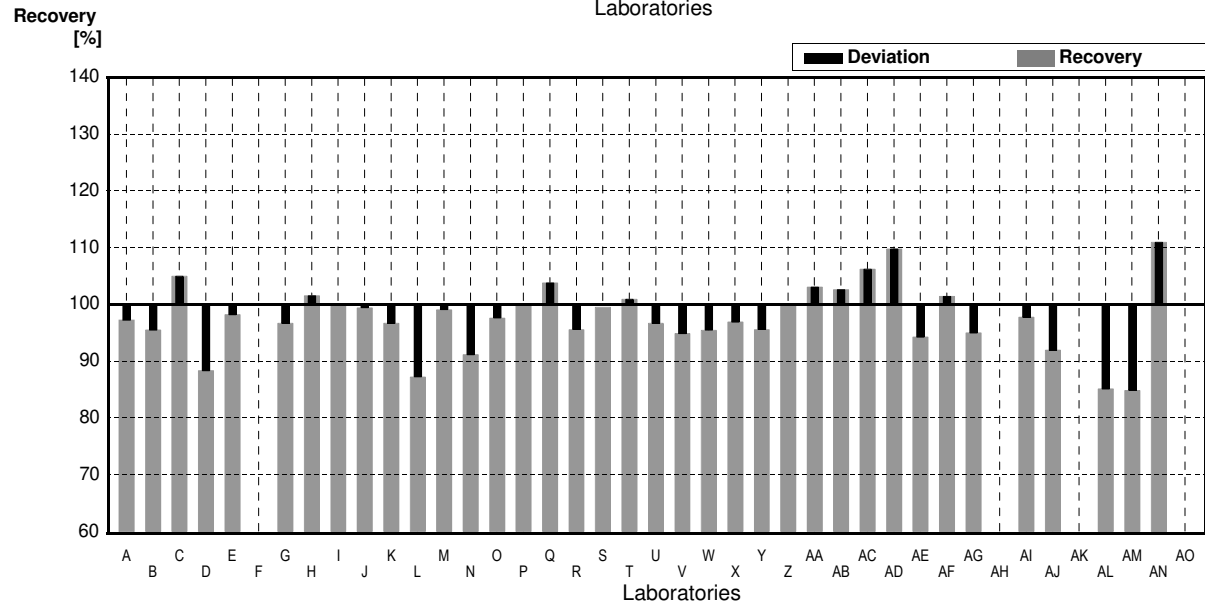
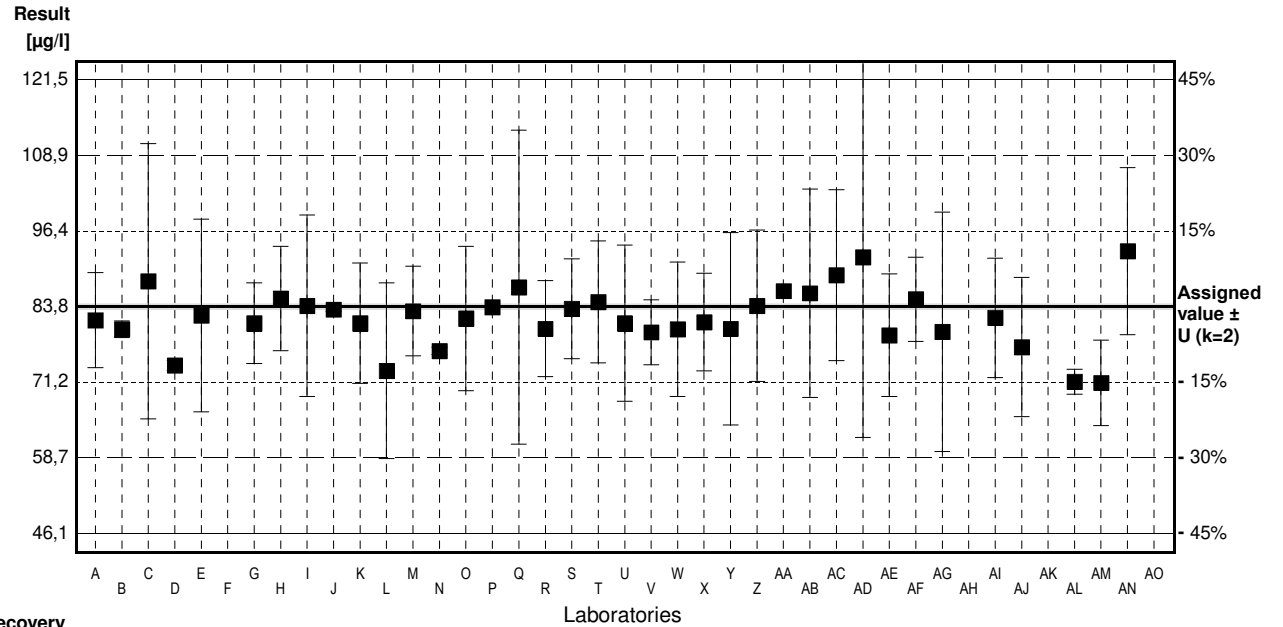
Sample M174B

Parameter Iron

Assigned value $\pm U$ (k=2) 83,8 $\mu\text{g/l}$ \pm 0,5 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 85 $\mu\text{g/l}$ \pm 6 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 80 $\mu\text{g/l}$ \pm 6 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|--------|-----------------|----------|---------|
| A | 81.5 | 7.9 | $\mu\text{g/l}$ | 97% | -0.42 |
| B | 80.01 | 1.39 | $\mu\text{g/l}$ | 95% | -0.69 |
| C | 88.0 | 22.88 | $\mu\text{g/l}$ | 105% | 0.76 |
| D | 74 | 0.84 | $\mu\text{g/l}$ | 88% | -1.77 |
| E | 82.3 | 16 | $\mu\text{g/l}$ | 98% | -0.27 |
| F | | | $\mu\text{g/l}$ | | |
| G | 81 | 6.7 | $\mu\text{g/l}$ | 97% | -0.51 |
| H | 85.10 | 8.68 | $\mu\text{g/l}$ | 102% | 0.24 |
| I | 83.9 | 15.1 | $\mu\text{g/l}$ | 100% | 0.02 |
| J | 83.3 | 0.36 | $\mu\text{g/l}$ | 99% | -0.09 |
| K | 81.0 | 10 | $\mu\text{g/l}$ | 97% | -0.51 |
| L | 73.1 | 14.6 | $\mu\text{g/l}$ | 87% | -1.93 |
| M | 83.03 | 7.47 | $\mu\text{g/l}$ | 99% | -0.14 |
| N | 76.4 | 0.608 | $\mu\text{g/l}$ | 91% | -1.34 |
| O | 81.8 | 12 | $\mu\text{g/l}$ | 98% | -0.36 |
| P | 83.7 | | $\mu\text{g/l}$ | 100% | -0.02 |
| Q | 87.0 | 26.1 | $\mu\text{g/l}$ | 104% | 0.58 |
| R | 80.1 | 8.0 | $\mu\text{g/l}$ | 96% | -0.67 |
| S | 83.4 | 8.3 | $\mu\text{g/l}$ | 100% | -0.07 |
| T | 84.55 | 10.15 | $\mu\text{g/l}$ | 101% | 0.14 |
| U | 81 | 13 | $\mu\text{g/l}$ | 97% | -0.51 |
| V | 79.5 | 5.40 | $\mu\text{g/l}$ | 95% | -0.78 |
| W | 80.0 | 11.196 | $\mu\text{g/l}$ | 95% | -0.69 |
| X | 81.2 | 8.12 | $\mu\text{g/l}$ | 97% | -0.47 |
| Y | 80.1 | 16.0 | $\mu\text{g/l}$ | 96% | -0.67 |
| Z | 83.9 | 12.6 | $\mu\text{g/l}$ | 100% | 0.02 |
| AA | 86.38 | | $\mu\text{g/l}$ | 103% | 0.47 |
| AB | 86 | 17.3 | $\mu\text{g/l}$ | 103% | 0.40 |
| AC | 89 | 14.2 | $\mu\text{g/l}$ | 106% | 0.94 |
| AD | 92 * | 30 | $\mu\text{g/l}$ | 110% | 1.48 |
| AE | 79 | 10.2 | $\mu\text{g/l}$ | 94% | -0.87 |
| AF | 85 | 7 | $\mu\text{g/l}$ | 101% | 0.22 |
| AG | 79.6 | 19.9 | $\mu\text{g/l}$ | 95% | -0.76 |
| AH | | | $\mu\text{g/l}$ | | |
| AI | 81.913 | 9.936 | $\mu\text{g/l}$ | 98% | -0.34 |
| AJ | 77.05 | 11.56 | $\mu\text{g/l}$ | 92% | -1.22 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 71.3 * | 2.07 | $\mu\text{g/l}$ | 85% | -2.26 |
| AM | 71.1 * | 7.11 | $\mu\text{g/l}$ | 85% | -2.30 |
| AN | 93 * | 13.9 | $\mu\text{g/l}$ | 111% | 1.66 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|----------------|----------------|-----------------|
| Mean \pm CI(99%) | 81,9 \pm 2,2 | 81,9 \pm 1,7 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 97,7 \pm 2,6 | 97,7 \pm 2,1 | % |
| SD between labs | 4,9 | 3,6 | $\mu\text{g/l}$ |
| RSD between labs | 6,0 | 4,4 | % |
| n for calculation | 37 | 33 | |



Sample M174A

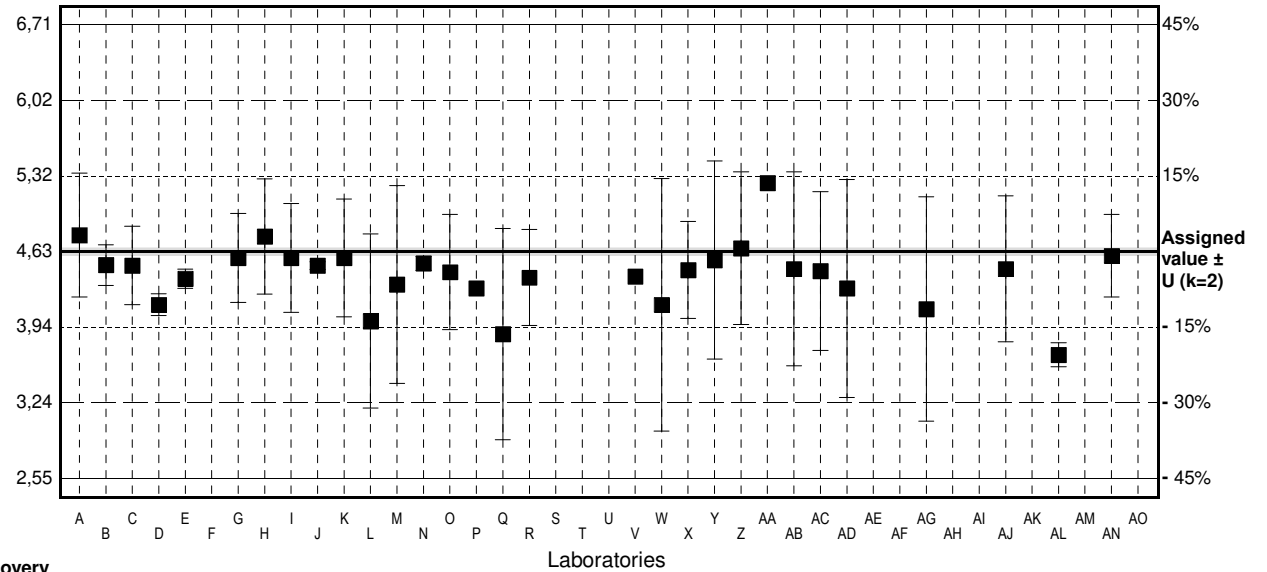
Parameter Copper

Assigned value $\pm U$ (k=2) 4,63 $\mu\text{g/l}$ \pm 0,04 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 4,64 $\mu\text{g/l}$ \pm 0,33 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 4,77 $\mu\text{g/l}$ \pm 0,34 $\mu\text{g/l}$

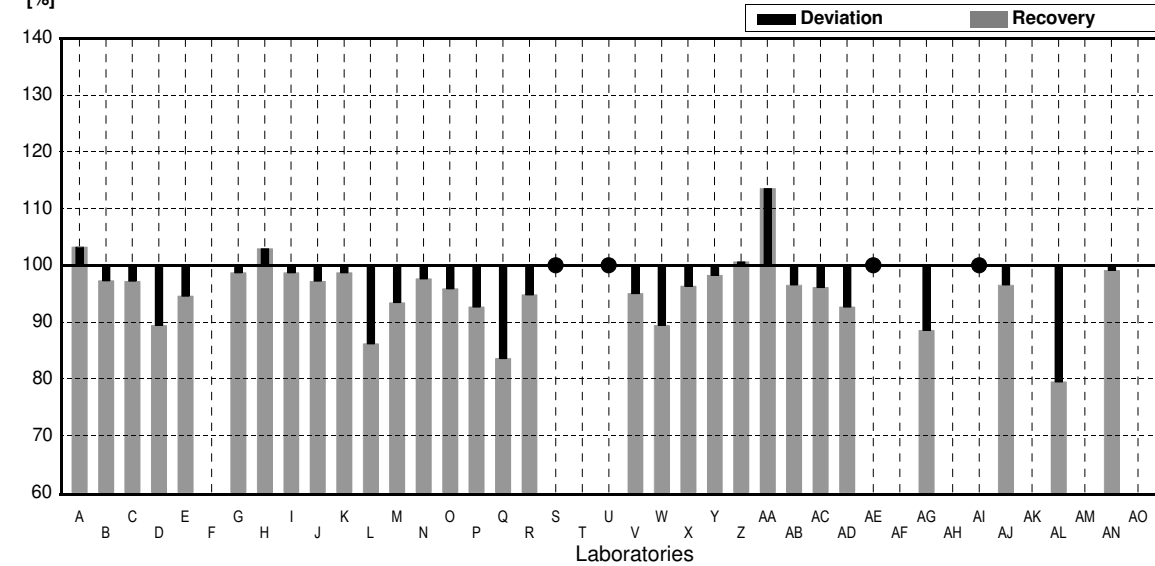
| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|---------|--------|-----------------|----------|---------|
| A | 4,78 | 0,57 | $\mu\text{g/l}$ | 103% | 0,43 |
| B | 4,505 | 0,187 | $\mu\text{g/l}$ | 97% | -0,36 |
| C | 4,50 | 0,360 | $\mu\text{g/l}$ | 97% | -0,37 |
| D | 4,14 | 0,10 | $\mu\text{g/l}$ | 89% | -1,41 |
| E | 4,38 | 0,088 | $\mu\text{g/l}$ | 95% | -0,72 |
| F | | | $\mu\text{g/l}$ | | |
| G | 4,57 | 0,41 | $\mu\text{g/l}$ | 99% | -0,17 |
| H | 4,767 | 0,53 | $\mu\text{g/l}$ | 103% | 0,39 |
| I | 4,57 | 0,50 | $\mu\text{g/l}$ | 99% | -0,17 |
| J | 4,50 | 0,035 | $\mu\text{g/l}$ | 97% | -0,37 |
| K | 4,57 | 0,54 | $\mu\text{g/l}$ | 99% | -0,17 |
| L | 3,99 | 0,80 | $\mu\text{g/l}$ | 86% | -1,84 |
| M | 4,326 | 0,908 | $\mu\text{g/l}$ | 93% | -0,88 |
| N | 4,52 | 0,0655 | $\mu\text{g/l}$ | 98% | -0,32 |
| O | 4,44 | 0,53 | $\mu\text{g/l}$ | 96% | -0,55 |
| P | 4,29 | | $\mu\text{g/l}$ | 93% | -0,98 |
| Q | 3,87 | 0,97 | $\mu\text{g/l}$ | 84% | -2,19 |
| R | 4,39 | 0,44 | $\mu\text{g/l}$ | 95% | -0,69 |
| S | < 5,0 | | $\mu\text{g/l}$ | * | |
| T | | | $\mu\text{g/l}$ | | |
| U | <150 | | $\mu\text{g/l}$ | * | |
| V | 4,40 | | $\mu\text{g/l}$ | 95% | -0,66 |
| W | 4,14 | 1,160 | $\mu\text{g/l}$ | 89% | -1,41 |
| X | 4,46 | 0,446 | $\mu\text{g/l}$ | 96% | -0,49 |
| Y | 4,55 | 0,91 | $\mu\text{g/l}$ | 98% | -0,23 |
| Z | 4,66 | 0,70 | $\mu\text{g/l}$ | 101% | 0,09 |
| AA | 5,258 | * | $\mu\text{g/l}$ | 114% | 1,81 |
| AB | 4,47 | 0,89 | $\mu\text{g/l}$ | 97% | -0,46 |
| AC | 4,45 | 0,73 | $\mu\text{g/l}$ | 96% | -0,52 |
| AD | 4,29 | 1 | $\mu\text{g/l}$ | 93% | -0,98 |
| AE | <10 | 1,5 | $\mu\text{g/l}$ | * | |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 4,10 | 1,03 | $\mu\text{g/l}$ | 89% | -1,53 |
| AH | | | $\mu\text{g/l}$ | | |
| AI | <50,000 | | $\mu\text{g/l}$ | * | |
| AJ | 4,47 | 0,67 | $\mu\text{g/l}$ | 97% | -0,46 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 3,68 | 0,11 | $\mu\text{g/l}$ | 79% | -2,74 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 4,59 | 0,38 | $\mu\text{g/l}$ | 99% | -0,12 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-----------------|-----------------|-----------------|
| Mean \pm CI(99%) | 4,42 \pm 0,15 | 4,44 \pm 0,10 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 95,5 \pm 3,2 | 95,8 \pm 2,2 | % |
| SD between labs | 0,29 | 0,19 | $\mu\text{g/l}$ |
| RSD between labs | 6,6 | 4,3 | % |
| n for calculation | 30 | 27 | |

Result
[$\mu\text{g/l}$]



Recovery
[%]



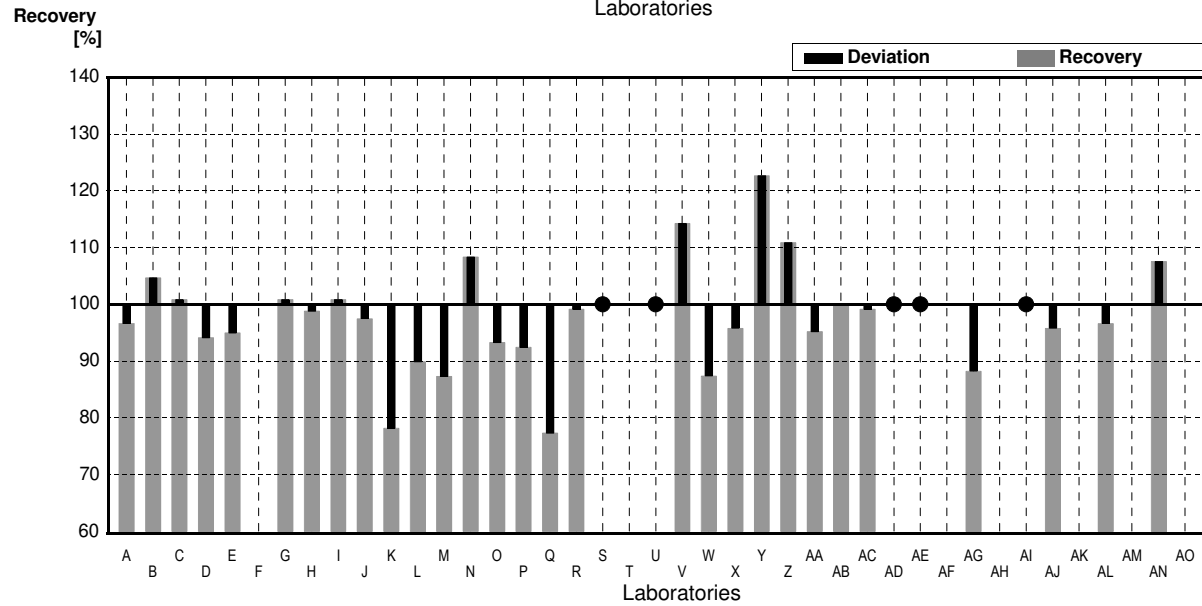
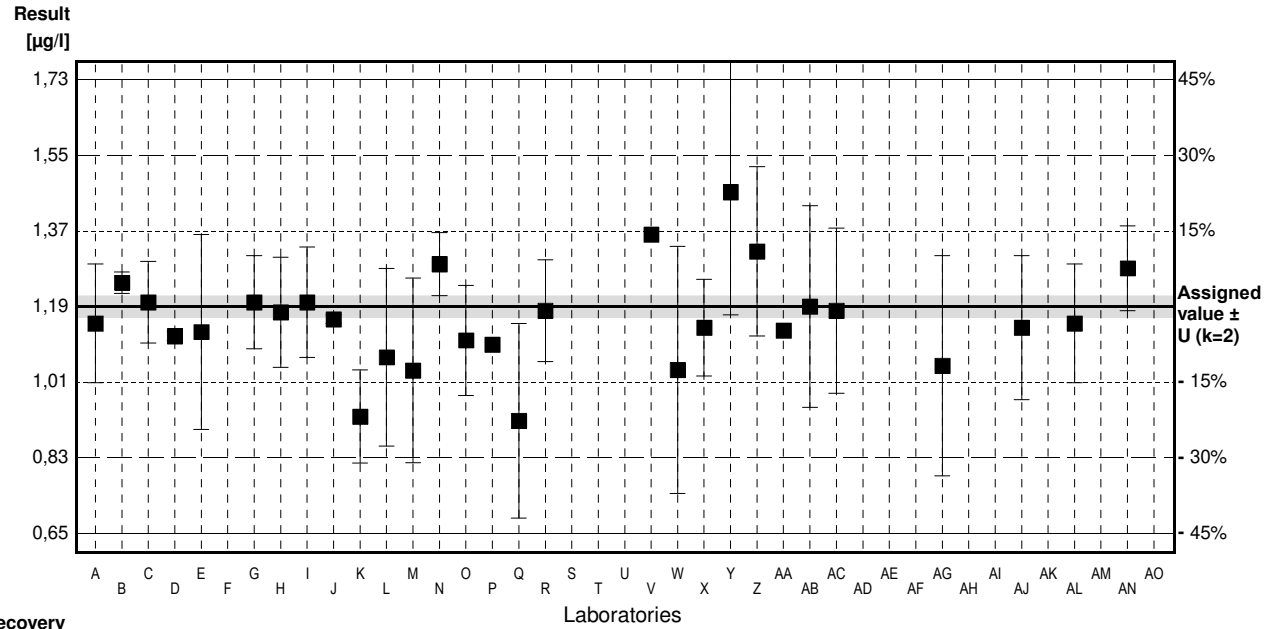
Sample M174B

Parameter Copper

Assigned value ± U (k=2) 1,19 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 1,19 µg/l ± 0,08 µg/l
 Stability test ± U (k=2) 1,16 µg/l ± 0,08 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A | 1,15 | 0,14 | µg/l | 97% | -0,45 |
| B | 1,246 | 0,025 | µg/l | 105% | 0,63 |
| C | 1,20 | 0,096 | µg/l | 101% | 0,11 |
| D | 1,12 | 0,01 | µg/l | 94% | -0,78 |
| E | 1,13 | 0,23 | µg/l | 95% | -0,67 |
| F | | | µg/l | | |
| G | 1,20 | 0,11 | µg/l | 101% | 0,11 |
| H | 1,176 | 0,13 | µg/l | 99% | -0,16 |
| I | 1,20 | 0,13 | µg/l | 101% | 0,11 |
| J | 1,16 | 0,010 | µg/l | 97% | -0,34 |
| K | 0,93 | 0,11 | µg/l | 78% | -2,91 |
| L | 1,07 | 0,21 | µg/l | 90% | -1,34 |
| M | 1,039 | 0,218 | µg/l | 87% | -1,69 |
| N | 1,29 | 0,0747 | µg/l | 108% | 1,12 |
| O | 1,11 | 0,13 | µg/l | 93% | -0,90 |
| P | 1,10 | | µg/l | 92% | -1,01 |
| Q | 0,92 | 0,23 | µg/l | 77% | -3,03 |
| R | 1,18 | 0,12 | µg/l | 99% | -0,11 |
| S | < 5,0 | | µg/l | • | |
| T | | | µg/l | | |
| U | <150 | | µg/l | • | |
| V | 1,36 | | µg/l | 114% | 1,90 |
| W | 1,04 | 0,292 | µg/l | 87% | -1,68 |
| X | 1,14 | 0,114 | µg/l | 96% | -0,56 |
| Y | 1,46 | 0,29 | µg/l | 123% | 3,03 |
| Z | 1,32 | 0,20 | µg/l | 111% | 1,46 |
| AA | 1,133 | | µg/l | 95% | -0,64 |
| AB | 1,19 | 0,238 | µg/l | 100% | 0,00 |
| AC | 1,18 | 0,195 | µg/l | 99% | -0,11 |
| AD | <2 | | µg/l | • | |
| AE | <10 | 1,5 | µg/l | • | |
| AF | | | µg/l | | |
| AG | 1,05 | 0,26 | µg/l | 88% | -1,57 |
| AH | | | µg/l | | |
| AI | <50,000 | | µg/l | • | |
| AJ | 1,14 | 0,17 | µg/l | 96% | -0,56 |
| AK | | | µg/l | | |
| AL | 1,15 | 0,14 | µg/l | 97% | -0,45 |
| AM | | | µg/l | | |
| AN | 1,28 | 0,10 | µg/l | 108% | 1,01 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 1,16 ± 0,06 | 1,15 ± 0,05 | µg/l |
| Recov. ± CI(99%) | 97,5 ± 5,0 | 96,7 ± 4,5 | % |
| SD between labs | 0,12 | 0,10 | µg/l |
| RSD between labs | 9,9 | 8,8 | % |
| n for calculation | 29 | 28 | |



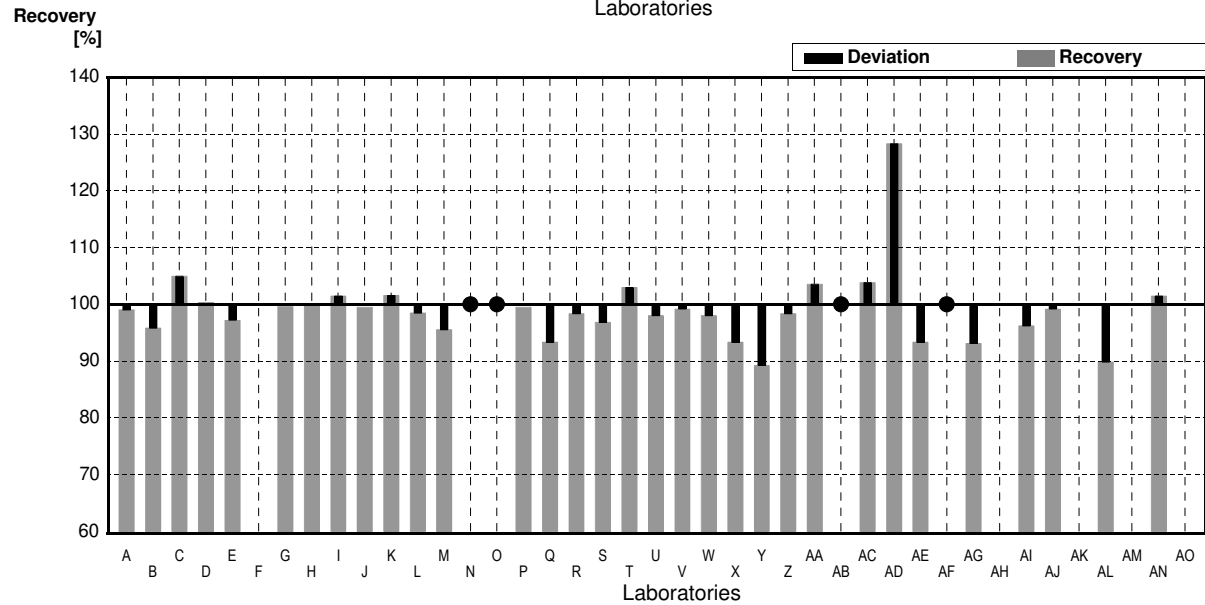
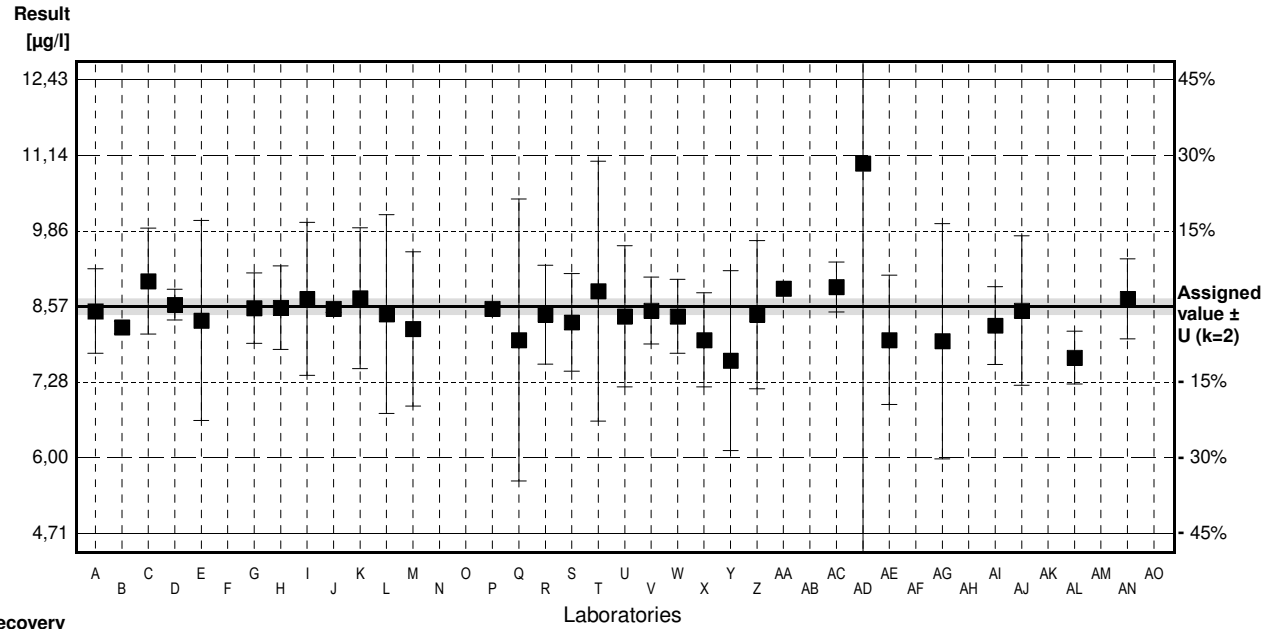
Sample M174A

Parameter Manganese

Assigned value ± U (k=2) 8,57 µg/l ± 0,14 µg/l
 IFA result ± U (k=2) 8,5 µg/l ± 0,5 µg/l
 Stability test ± U (k=2) 8,6 µg/l ± 0,6 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A | 8.49 | 0.72 | µg/l | 99% | -0.18 |
| B | 8.213 | 0.106 | µg/l | 96% | -0.80 |
| C | 9.00 | 0.900 | µg/l | 105% | 0.96 |
| D | 8.6 | 0.26 | µg/l | 100% | 0.07 |
| E | 8.33 | 1.7 | µg/l | 97% | -0.54 |
| F | | | µg/l | | |
| G | 8.54 | 0.60 | µg/l | 100% | -0.07 |
| H | 8.549 | 0.71 | µg/l | 100% | -0.05 |
| I | 8.7 | 1.3 | µg/l | 102% | 0.29 |
| J | 8.53 | 0.059 | µg/l | 100% | -0.09 |
| K | 8.71 | 1.2 | µg/l | 102% | 0.31 |
| L | 8.44 | 1.69 | µg/l | 98% | -0.29 |
| M | 8.188 | 1.310 | µg/l | 96% | -0.86 |
| N | <10 | | µg/l | • | |
| O | <10.0 | | µg/l | • | |
| P | 8.53 | | µg/l | 100% | -0.09 |
| Q | 8.0 | 2.4 | µg/l | 93% | -1.28 |
| R | 8.43 | 0.84 | µg/l | 98% | -0.31 |
| S | 8.3 | 0.83 | µg/l | 97% | -0.61 |
| T | 8.83 | 2.21 | µg/l | 103% | 0.58 |
| U | 8.4 | 1.2 | µg/l | 98% | -0.38 |
| V | 8.5 | 0.57 | µg/l | 99% | -0.16 |
| W | 8.40 | 0.63 | µg/l | 98% | -0.38 |
| X | 8.0 | 0.8 | µg/l | 93% | -1.28 |
| Y | 7.65 | 1.53 | µg/l | 89% | -2.06 |
| Z | 8.43 | 1.26 | µg/l | 98% | -0.31 |
| AA | 8.875 | | µg/l | 104% | 0.68 |
| AB | <10 | | µg/l | • | |
| AC | 8.9 | 0.427 | µg/l | 104% | 0.74 |
| AD | 11.0 * | 10 | µg/l | 128% | 5.45 |
| AE | 8.0 | 1.1 | µg/l | 93% | -1.28 |
| AF | <10 | | µg/l | • | |
| AG | 7.98 | 2.00 | µg/l | 93% | -1.32 |
| AH | | | µg/l | | |
| AI | 8.246 | 0.661 | µg/l | 96% | -0.73 |
| AJ | 8.50 | 1.27 | µg/l | 99% | -0.16 |
| AK | | | µg/l | | |
| AL | 7.70 | 0.45 | µg/l | 90% | -1.95 |
| AM | | | µg/l | | |
| AN | 8.7 | 0.68 | µg/l | 102% | 0.29 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 8,49 ± 0,27 | 8,41 ± 0,16 | µg/l |
| Recov. ± CI(99%) | 99,1 ± 3,2 | 98,1 ± 1,9 | % |
| SD between labs | 0,56 | 0,33 | µg/l |
| RSD between labs | 6,6 | 3,9 | % |
| n for calculation | 32 | 31 | |



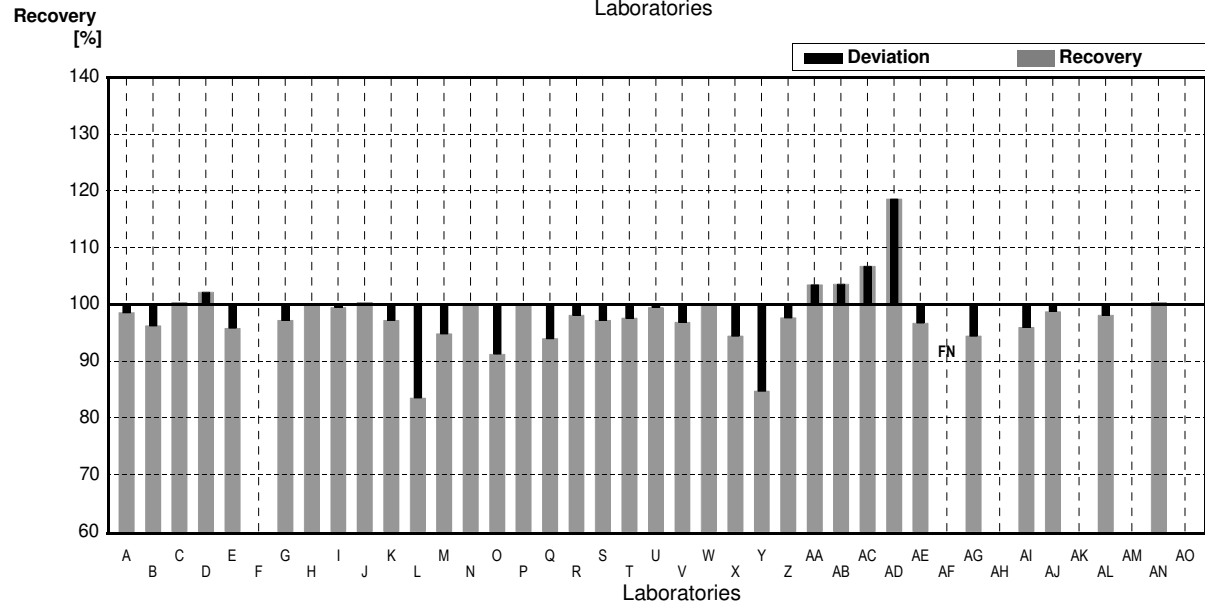
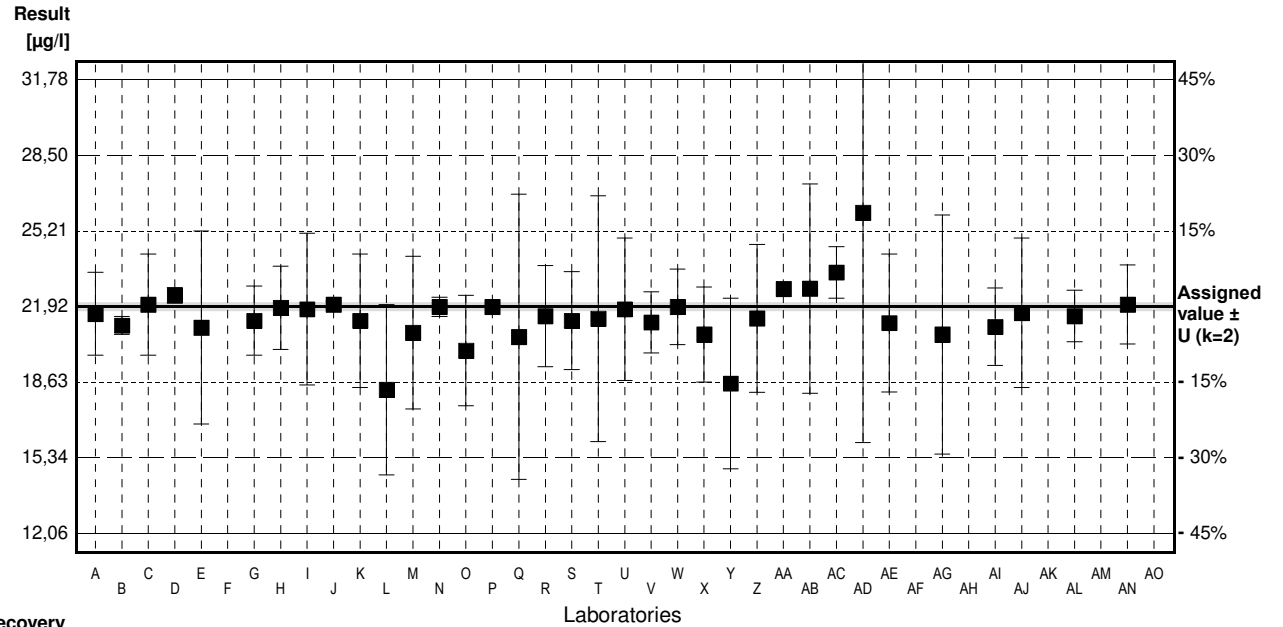
Sample M174B

Parameter Manganese

Assigned value ± U (k=2) 21,92 µg/l ± 0,18 µg/l
 IFA result ± U (k=2) 20,9 µg/l ± 1,4 µg/l
 Stability test ± U (k=2) 21,3 µg/l ± 1,4 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 21.6 | 1.8 | µg/l | 99% | -0.28 |
| B | 21.09 | 0.39 | µg/l | 96% | -0.73 |
| C | 22.0 | 2.20 | µg/l | 100% | 0.07 |
| D | 22.4 | 0.33 | µg/l | 102% | 0.42 |
| E | 21.0 | 4.2 | µg/l | 96% | -0.81 |
| F | | | µg/l | | |
| G | 21.3 | 1.5 | µg/l | 97% | -0.54 |
| H | 21.86 | 1.81 | µg/l | 100% | -0.05 |
| I | 21.8 | 3.3 | µg/l | 99% | -0.11 |
| J | 22.0 | 0.153 | µg/l | 100% | 0.07 |
| K | 21.3 | 2.9 | µg/l | 97% | -0.54 |
| L | 18.3 * | 3.7 | µg/l | 83% | -3.18 |
| M | 20.78 | 3.32 | µg/l | 95% | -1.00 |
| N | 21.9 | 0.421 | µg/l | 100% | -0.02 |
| O | 20.0 | 2.4 | µg/l | 91% | -1.68 |
| P | 21.9 | | µg/l | 100% | -0.02 |
| Q | 20.6 | 6.2 | µg/l | 94% | -1.16 |
| R | 21.5 | 2.2 | µg/l | 98% | -0.37 |
| S | 21.3 | 2.13 | µg/l | 97% | -0.54 |
| T | 21.39 | 5.35 | µg/l | 98% | -0.46 |
| U | 21.8 | 3.1 | µg/l | 99% | -0.11 |
| V | 21.23 | 1.33 | µg/l | 97% | -0.61 |
| W | 21.9 | 1.639 | µg/l | 100% | -0.02 |
| X | 20.7 | 2.07 | µg/l | 94% | -1.07 |
| Y | 18.57 * | 3.71 | µg/l | 85% | -2.94 |
| Z | 21.4 | 3.21 | µg/l | 98% | -0.46 |
| AA | 22.68 | | µg/l | 103% | 0.67 |
| AB | 22.7 | 4.55 | µg/l | 104% | 0.68 |
| AC | 23.4 * | 1.12 | µg/l | 107% | 1.30 |
| AD | 26.0 * | 10 | µg/l | 119% | 3.58 |
| AE | 21.2 | 3.0 | µg/l | 97% | -0.63 |
| AF | <10 | | µg/l | FN | |
| AG | 20.7 | 5.2 | µg/l | 94% | -1.07 |
| AH | | | µg/l | | |
| AI | 21.035 | 1.687 | µg/l | 96% | -0.78 |
| AJ | 21.64 | 3.25 | µg/l | 99% | -0.25 |
| AK | | | µg/l | | |
| AL | 21.5 | 1.12 | µg/l | 98% | -0.37 |
| AM | | | µg/l | | |
| AN | 22.0 | 1.72 | µg/l | 100% | 0.07 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|--------------|----------------|------|
| Mean ± CI(99%) | 21,50 ± 0,58 | 21,49 ± 0,30 | µg/l |
| Recov. ± CI(99%) | 98,1 ± 2,6 | 98,0 ± 1,4 | % |
| SD between labs | 1,26 | 0,61 | µg/l |
| RSD between labs | 5,8 | 2,8 | % |
| n for calculation | 35 | 31 | |



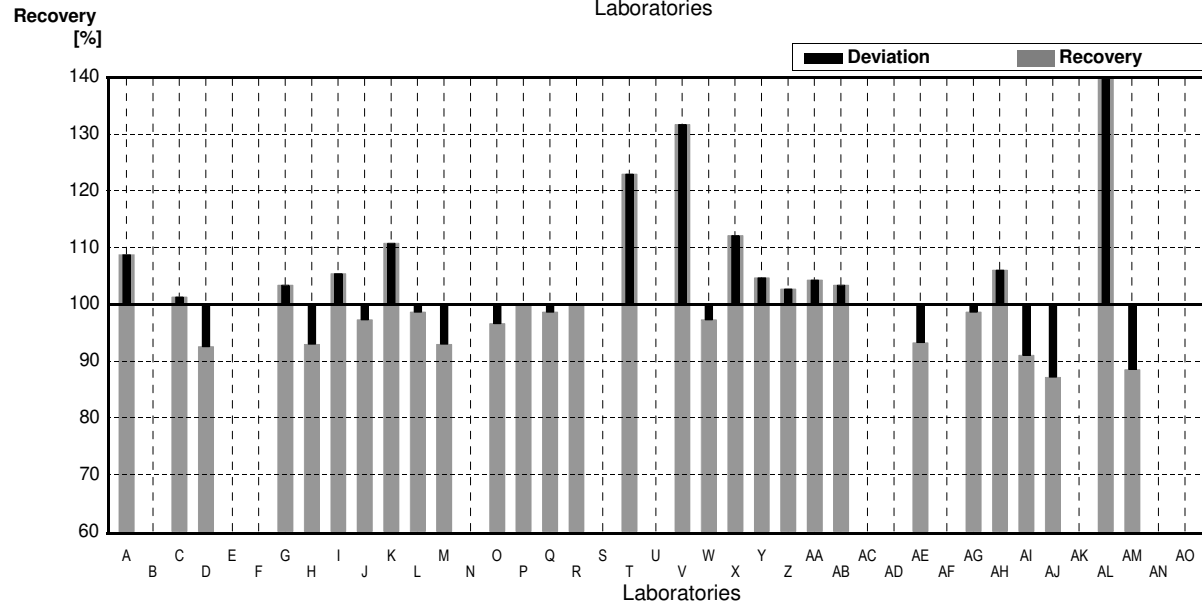
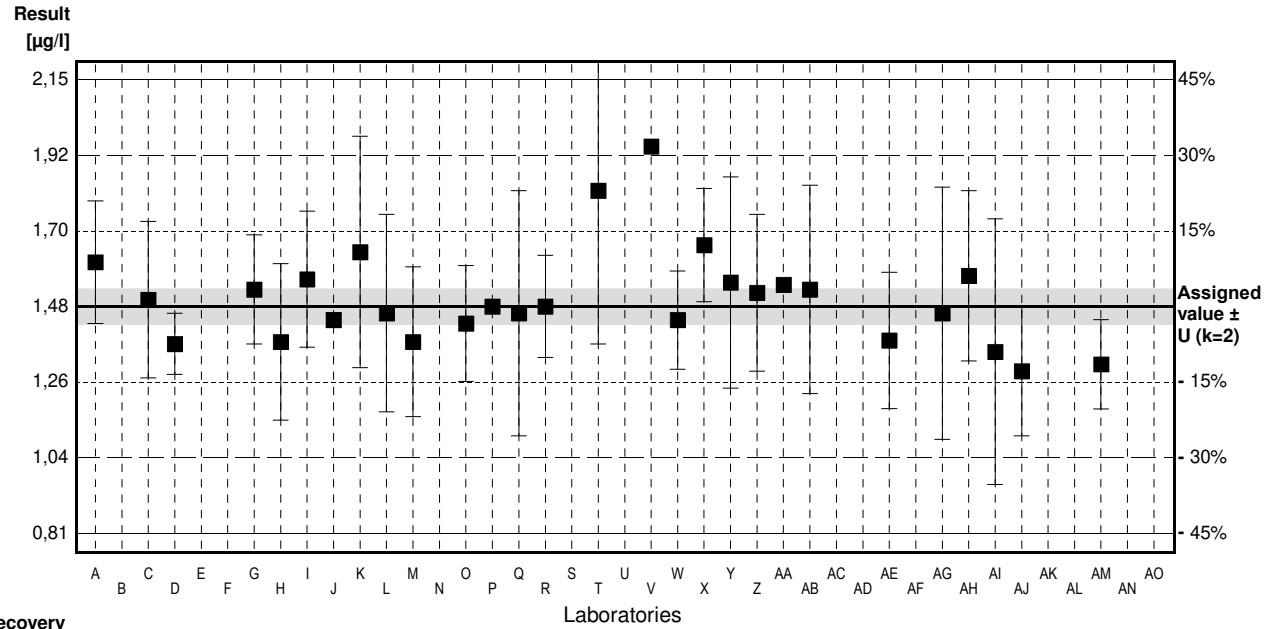
Sample M174A

Parameter Molybdenum

Assigned value ± U (k=2) 1,48 µg/l ± 0,05 µg/l
 IFA result ± U (k=2) 1,45 µg/l ± 0,13 µg/l
 Stability test ± U (k=2) 1,42 µg/l ± 0,12 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A | 1.61 | 0.18 | µg/l | 109% | 1.44 |
| B | | | µg/l | | |
| C | 1.50 | 0.230 | µg/l | 101% | 0.22 |
| D | 1.37 | 0.09 | µg/l | 93% | -1.22 |
| E | | | µg/l | | |
| F | | | µg/l | | |
| G | 1.53 | 0.16 | µg/l | 103% | 0.55 |
| H | 1.376 | 0.23 | µg/l | 93% | -1.15 |
| I | 1.56 | 0.20 | µg/l | 105% | 0.89 |
| J | 1.44 | 0.021 | µg/l | 97% | -0.44 |
| K | 1.64 | 0.34 | µg/l | 111% | 1.77 |
| L | 1.46 | 0.29 | µg/l | 99% | -0.22 |
| M | 1.376 | 0.220 | µg/l | 93% | -1.15 |
| N | | | µg/l | | |
| O | 1.43 | 0.17 | µg/l | 97% | -0.55 |
| P | 1.48 | | µg/l | 100% | 0.00 |
| Q | 1.46 | 0.36 | µg/l | 99% | -0.22 |
| R | 1.48 | 0.15 | µg/l | 100% | 0.00 |
| S | | | µg/l | | |
| T | 1.82 | 0.45 | µg/l | 123% | 3.77 |
| U | | | µg/l | | |
| V | 1.95 * | | µg/l | 132% | 5.21 |
| W | 1.44 | 0.144 | µg/l | 97% | -0.44 |
| X | 1.66 | 0.166 | µg/l | 112% | 1.99 |
| Y | 1.55 | 0.31 | µg/l | 105% | 0.78 |
| Z | 1.52 | 0.23 | µg/l | 103% | 0.44 |
| AA | 1.544 | | µg/l | 104% | 0.71 |
| AB | 1.53 | 0.306 | µg/l | 103% | 0.55 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | 1.38 | 0.2 | µg/l | 93% | -1.11 |
| AF | | | µg/l | | |
| AG | 1.46 | 0.37 | µg/l | 99% | -0.22 |
| AH | 1.57 | 0.25 | µg/l | 106% | 1.00 |
| AI | 1.347 | 0.390 | µg/l | 91% | -1.47 |
| AJ | 1.29 | 0.19 | µg/l | 87% | -2.10 |
| AK | | | µg/l | | |
| AL | 5.90 * | 0.93 | µg/l | 399% | 48.96 |
| AM | 1.31 | 0.131 | µg/l | 89% | -1.88 |
| AN | | | µg/l | | |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|--------------|----------------|------|
| Mean ± CI(99%) | 1,65 ± 0,42 | 1,49 ± 0,06 | µg/l |
| Recov. ± CI(99%) | 111,8 ± 28,7 | 100,4 ± 4,2 | % |
| SD between labs | 0,83 | 0,12 | µg/l |
| RSD between labs | 50,1 | 7,8 | % |
| n for calculation | 29 | 27 | |



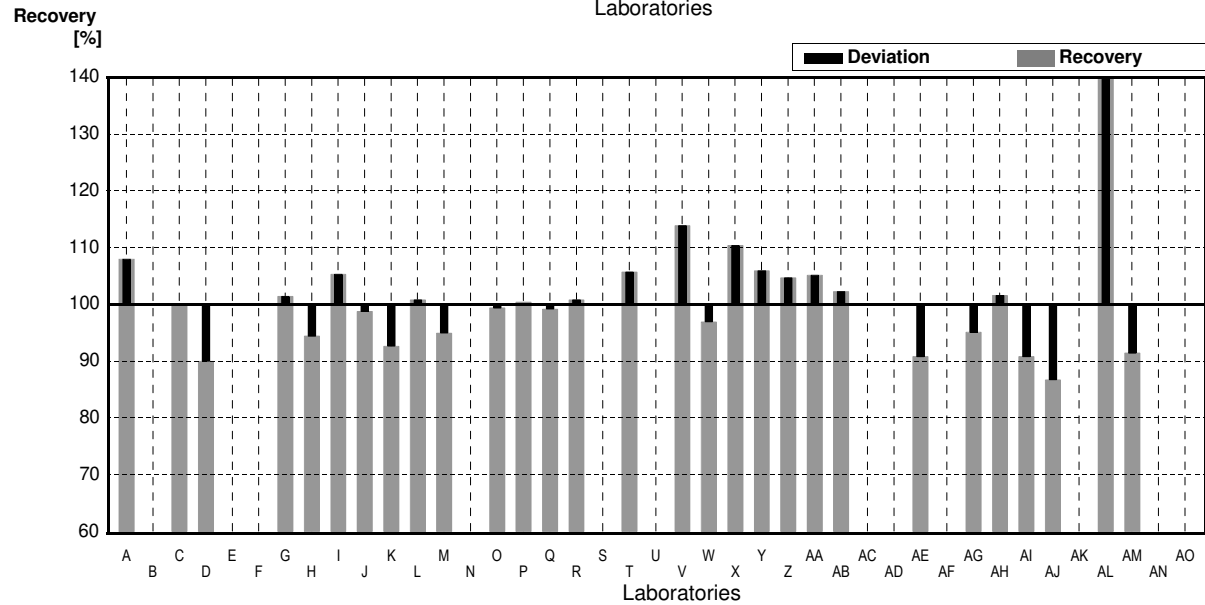
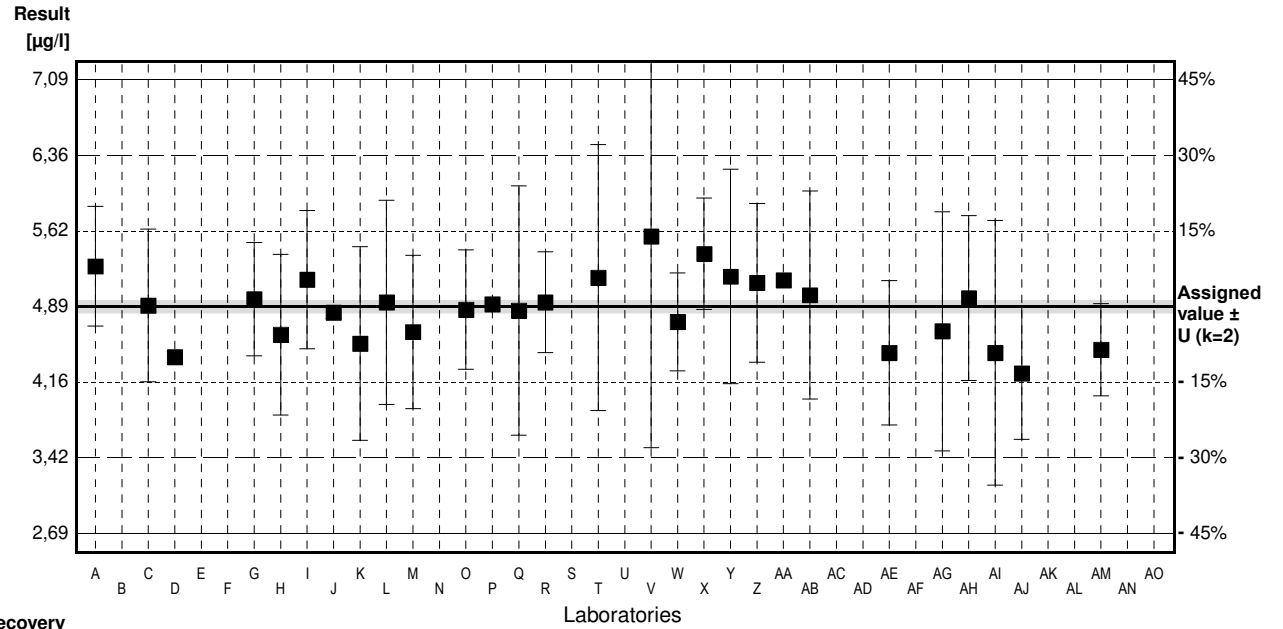
Sample M174B

Parameter Molybdenum

Assigned value ± U (k=2) 4,89 µg/l ± 0,06 µg/l
 IFA result ± U (k=2) 4,84 µg/l ± 0,42 µg/l
 Stability test ± U (k=2) 4,76 µg/l ± 0,41 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A | 5,28 | 0,58 | µg/l | 108% | 1,31 |
| B | | | µg/l | | |
| C | 4,90 | 0,740 | µg/l | 100% | 0,03 |
| D | 4,40 | 0,05 | µg/l | 90% | -1,64 |
| E | | | µg/l | | |
| F | | | µg/l | | |
| G | 4,96 | 0,55 | µg/l | 101% | 0,23 |
| H | 4,616 | 0,78 | µg/l | 94% | -0,92 |
| I | 5,15 | 0,67 | µg/l | 105% | 0,87 |
| J | 4,83 | 0,055 | µg/l | 99% | -0,20 |
| K | 4,53 | 0,94 | µg/l | 93% | -1,21 |
| L | 4,93 | 0,99 | µg/l | 101% | 0,13 |
| M | 4,643 | 0,743 | µg/l | 95% | -0,83 |
| N | | | µg/l | | |
| O | 4,86 | 0,58 | µg/l | 99% | -0,10 |
| P | 4,91 | | µg/l | 100% | 0,07 |
| Q | 4,85 | 1,21 | µg/l | 99% | -0,13 |
| R | 4,93 | 0,49 | µg/l | 101% | 0,13 |
| S | | | µg/l | | |
| T | 5,17 | 1,29 | µg/l | 106% | 0,94 |
| U | | | µg/l | | |
| V | 5,57 | 2,05 | µg/l | 114% | 2,28 |
| W | 4,74 | 0,474 | µg/l | 97% | -0,50 |
| X | 5,4 | 0,54 | µg/l | 110% | 1,71 |
| Y | 5,18 | 1,04 | µg/l | 106% | 0,97 |
| Z | 5,12 | 0,77 | µg/l | 105% | 0,77 |
| AA | 5,143 | | µg/l | 105% | 0,85 |
| AB | 5,0 | 1,01 | µg/l | 102% | 0,37 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | 4,44 | 0,7 | µg/l | 91% | -1,51 |
| AF | | | µg/l | | |
| AG | 4,65 | 1,16 | µg/l | 95% | -0,80 |
| AH | 4,97 | 0,80 | µg/l | 102% | 0,27 |
| AI | 4,440 | 1,284 | µg/l | 91% | -1,51 |
| AJ | 4,24 | 0,64 | µg/l | 87% | -2,18 |
| AK | | | µg/l | | |
| AL | 7,99 | 0,22 | µg/l | 163% | 10,39 |
| AM | 4,47 | 0,447 | µg/l | 91% | -1,41 |
| AN | | | µg/l | | |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 4,98 ± 0,34 | 4,87 ± 0,17 | µg/l |
| Recov. ± CI(99%) | 101,8 ± 6,9 | 99,6 ± 3,5 | % |
| SD between labs | 0,66 | 0,32 | µg/l |
| RSD between labs | 13,3 | 6,7 | % |
| n for calculation | 29 | 28 | |



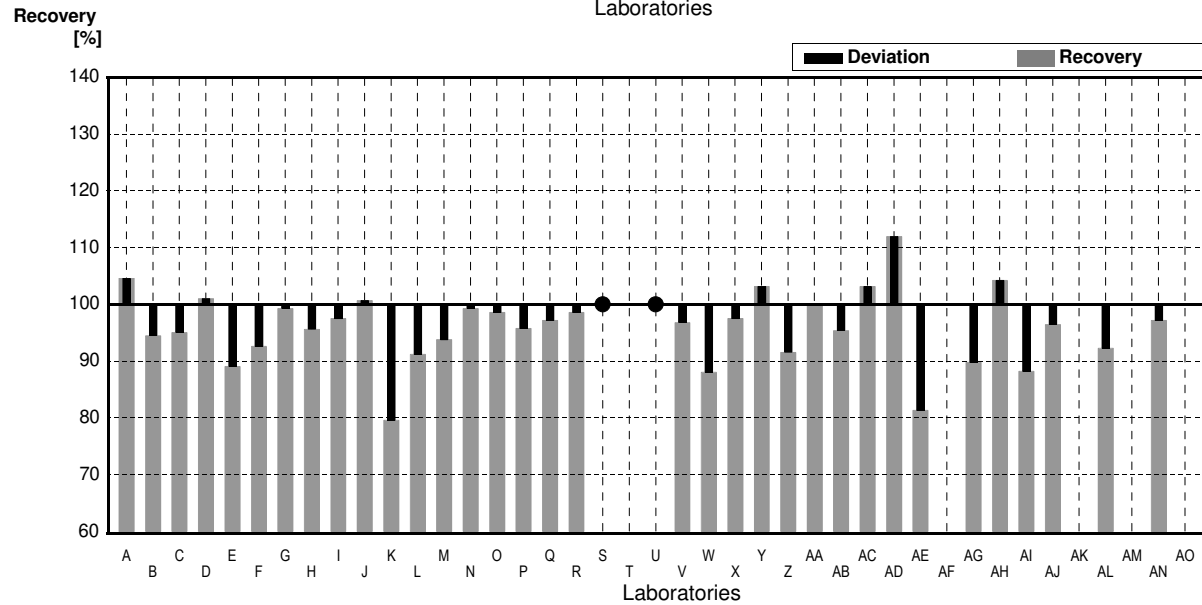
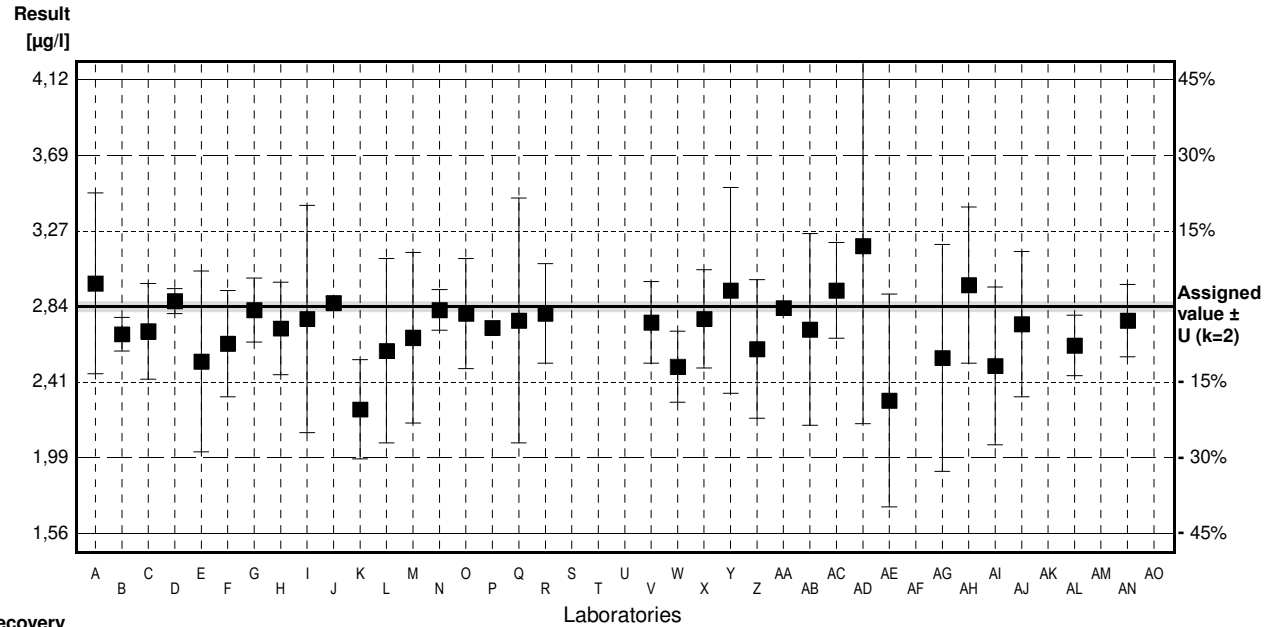
Sample M174A

Parameter Nickel

Assigned value $\pm U$ (k=2) 2,84 $\mu\text{g/l}$ \pm 0,03 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 2,83 $\mu\text{g/l}$ \pm 0,14 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 2,85 $\mu\text{g/l}$ \pm 0,14 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|-------|-----------------|----------|---------|
| A | 2,97 | 0,51 | $\mu\text{g/l}$ | 105% | 0,66 |
| B | 2,684 | 0,095 | $\mu\text{g/l}$ | 95% | -0,80 |
| C | 2,70 | 0,270 | $\mu\text{g/l}$ | 95% | -0,71 |
| D | 2,87 | 0,07 | $\mu\text{g/l}$ | 101% | 0,15 |
| E | 2,53 | 0,51 | $\mu\text{g/l}$ | 89% | -1,58 |
| F | 2,63 | 0,30 | $\mu\text{g/l}$ | 93% | -1,07 |
| G | 2,82 | 0,18 | $\mu\text{g/l}$ | 99% | -0,10 |
| H | 2,716 | 0,26 | $\mu\text{g/l}$ | 96% | -0,63 |
| I | 2,77 | 0,64 | $\mu\text{g/l}$ | 98% | -0,36 |
| J | 2,86 | 0,035 | $\mu\text{g/l}$ | 101% | 0,10 |
| K | 2,26 | 0,28 | $\mu\text{g/l}$ | 80% | -2,96 |
| L | 2,59 | 0,52 | $\mu\text{g/l}$ | 91% | -1,28 |
| M | 2,664 | 0,480 | $\mu\text{g/l}$ | 94% | -0,90 |
| N | 2,82 | 0,115 | $\mu\text{g/l}$ | 99% | -0,10 |
| O | 2,80 | 0,31 | $\mu\text{g/l}$ | 99% | -0,20 |
| P | 2,72 | | $\mu\text{g/l}$ | 96% | -0,61 |
| Q | 2,76 | 0,69 | $\mu\text{g/l}$ | 97% | -0,41 |
| R | 2,80 | 0,28 | $\mu\text{g/l}$ | 99% | -0,20 |
| S | <5 | | $\mu\text{g/l}$ | * | |
| T | | | $\mu\text{g/l}$ | | |
| U | <5 | | $\mu\text{g/l}$ | * | |
| V | 2,75 | 0,23 | $\mu\text{g/l}$ | 97% | -0,46 |
| W | 2,50 | 0,200 | $\mu\text{g/l}$ | 88% | -1,74 |
| X | 2,77 | 0,277 | $\mu\text{g/l}$ | 98% | -0,36 |
| Y | 2,93 | 0,58 | $\mu\text{g/l}$ | 103% | 0,46 |
| Z | 2,60 | 0,39 | $\mu\text{g/l}$ | 92% | -1,22 |
| AA | 2,832 | | $\mu\text{g/l}$ | 100% | -0,04 |
| AB | 2,71 | 0,54 | $\mu\text{g/l}$ | 95% | -0,66 |
| AC | 2,93 | 0,270 | $\mu\text{g/l}$ | 103% | 0,46 |
| AD | 3,18 | 1 | $\mu\text{g/l}$ | 112% | 1,74 |
| AE | 2,31 | 0,6 | $\mu\text{g/l}$ | 81% | -2,70 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 2,55 | 0,64 | $\mu\text{g/l}$ | 90% | -1,48 |
| AH | 2,96 | 0,44 | $\mu\text{g/l}$ | 104% | 0,61 |
| AI | 2,505 | 0,445 | $\mu\text{g/l}$ | 88% | -1,71 |
| AJ | 2,74 | 0,41 | $\mu\text{g/l}$ | 96% | -0,51 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 2,62 | 0,17 | $\mu\text{g/l}$ | 92% | -1,12 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 2,76 | 0,204 | $\mu\text{g/l}$ | 97% | -0,41 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-----------------|-----------------|-----------------|
| Mean \pm CI(99%) | 2,72 \pm 0,09 | 2,74 \pm 0,08 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 95,9 \pm 3,0 | 96,4 \pm 2,8 | % |
| SD between labs | 0,18 | 0,17 | $\mu\text{g/l}$ |
| RSD between labs | 6,7 | 6,1 | % |
| n for calculation | 34 | 33 | |



Sample M174B

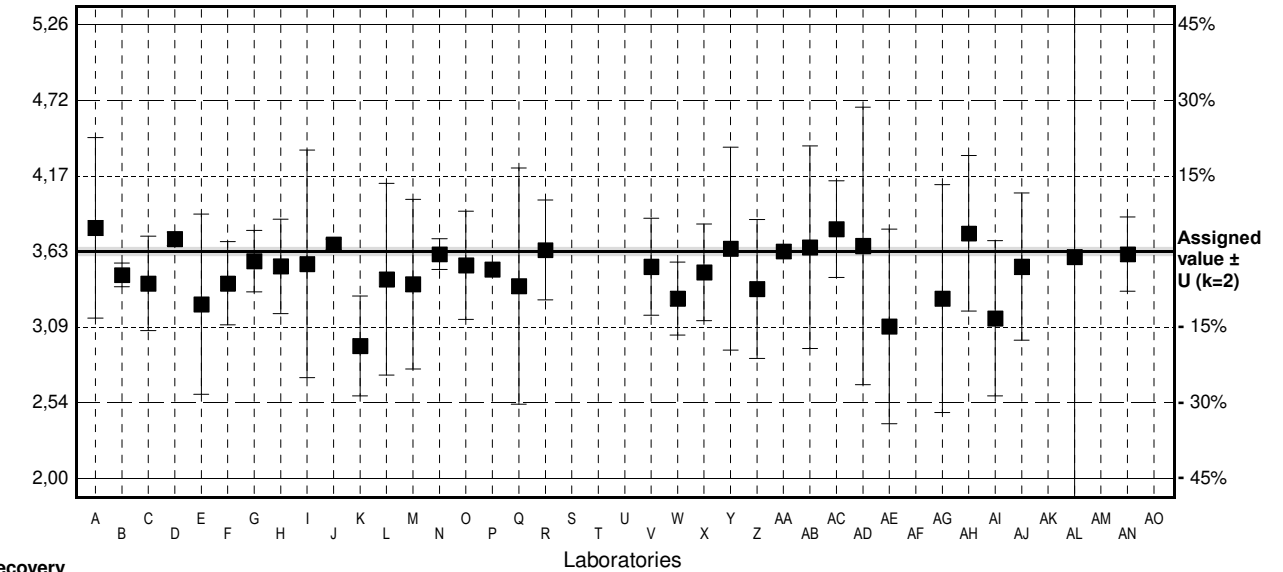
Parameter Nickel

Assigned value $\pm U$ (k=2) 3,63 $\mu\text{g/l}$ \pm 0,03 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 3,57 $\mu\text{g/l}$ \pm 0,17 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 3,59 $\mu\text{g/l}$ \pm 0,17 $\mu\text{g/l}$

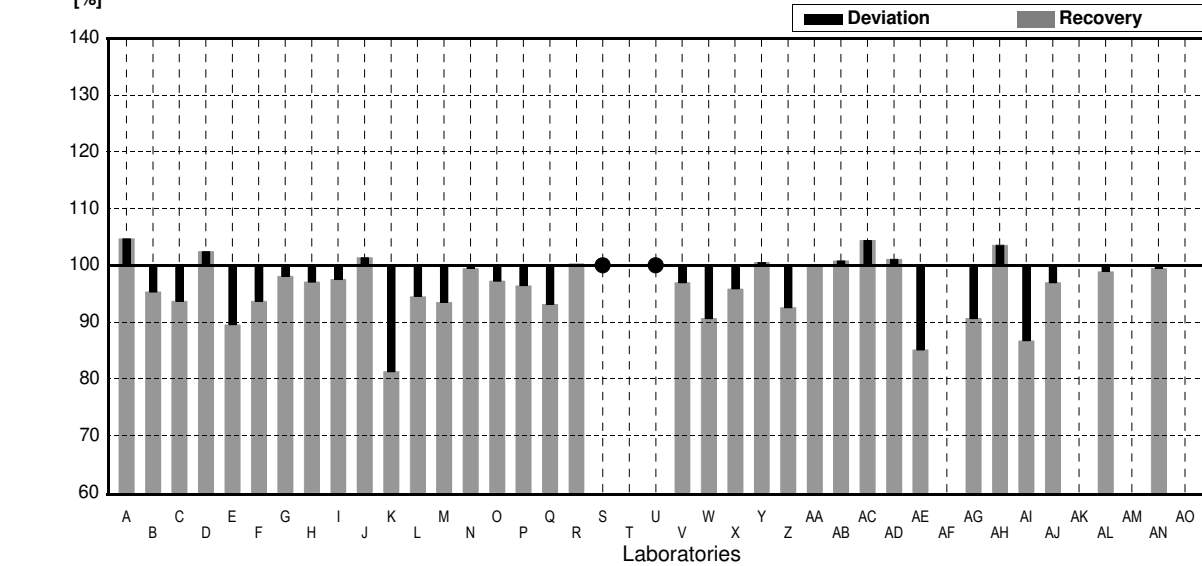
| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|-------|-----------------|----------|---------|
| A | 3.80 | 0.65 | $\mu\text{g/l}$ | 105% | 0.68 |
| B | 3.460 | 0.085 | $\mu\text{g/l}$ | 95% | -0.68 |
| C | 3.40 | 0.340 | $\mu\text{g/l}$ | 94% | -0.92 |
| D | 3.72 | 0.05 | $\mu\text{g/l}$ | 102% | 0.36 |
| E | 3.25 | 0.65 | $\mu\text{g/l}$ | 90% | -1.52 |
| F | 3.40 | 0.30 | $\mu\text{g/l}$ | 94% | -0.92 |
| G | 3.56 | 0.22 | $\mu\text{g/l}$ | 98% | -0.28 |
| H | 3.523 | 0.34 | $\mu\text{g/l}$ | 97% | -0.43 |
| I | 3.54 | 0.82 | $\mu\text{g/l}$ | 98% | -0.36 |
| J | 3.68 | 0.040 | $\mu\text{g/l}$ | 101% | 0.20 |
| K | 2.95 | 0.36 | $\mu\text{g/l}$ | 81% | -2.71 |
| L | 3.43 | 0.69 | $\mu\text{g/l}$ | 94% | -0.80 |
| M | 3.394 | 0.611 | $\mu\text{g/l}$ | 93% | -0.94 |
| N | 3.61 | 0.111 | $\mu\text{g/l}$ | 99% | -0.08 |
| O | 3.53 | 0.39 | $\mu\text{g/l}$ | 97% | -0.40 |
| P | 3.50 | | $\mu\text{g/l}$ | 96% | -0.52 |
| Q | 3.38 | 0.85 | $\mu\text{g/l}$ | 93% | -1.00 |
| R | 3.64 | 0.36 | $\mu\text{g/l}$ | 100% | 0.04 |
| S | <5 | | $\mu\text{g/l}$ | . | |
| T | | | $\mu\text{g/l}$ | | |
| U | <5 | | $\mu\text{g/l}$ | . | |
| V | 3.52 | 0.35 | $\mu\text{g/l}$ | 97% | -0.44 |
| W | 3.29 | 0.263 | $\mu\text{g/l}$ | 91% | -1.36 |
| X | 3.48 | 0.348 | $\mu\text{g/l}$ | 96% | -0.60 |
| Y | 3.65 | 0.73 | $\mu\text{g/l}$ | 101% | 0.08 |
| Z | 3.36 | 0.50 | $\mu\text{g/l}$ | 93% | -1.08 |
| AA | 3.631 | | $\mu\text{g/l}$ | 100% | 0.00 |
| AB | 3.66 | 0.73 | $\mu\text{g/l}$ | 101% | 0.12 |
| AC | 3.79 | 0.349 | $\mu\text{g/l}$ | 104% | 0.64 |
| AD | 3.67 | 1 | $\mu\text{g/l}$ | 101% | 0.16 |
| AE | 3.09 | 0.7 | $\mu\text{g/l}$ | 85% | -2.16 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 3.29 | 0.82 | $\mu\text{g/l}$ | 91% | -1.36 |
| AH | 3.76 | 0.56 | $\mu\text{g/l}$ | 104% | 0.52 |
| AI | 3.148 | 0.559 | $\mu\text{g/l}$ | 87% | -1.92 |
| AJ | 3.52 | 0.53 | $\mu\text{g/l}$ | 97% | -0.44 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 3.59 | 3.63 | $\mu\text{g/l}$ | 99% | -0.16 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 3.61 | 0.267 | $\mu\text{g/l}$ | 99% | -0.08 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-----------------|-----------------|-----------------|
| Mean \pm CI(99%) | 3,49 \pm 0,09 | 3,51 \pm 0,08 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 96,3 \pm 2,6 | 96,7 \pm 2,3 | % |
| SD between labs | 0,20 | 0,18 | $\mu\text{g/l}$ |
| RSD between labs | 5,7 | 5,0 | % |
| n for calculation | 34 | 33 | |

Result
[$\mu\text{g/l}$]



Recovery
[%]



Sample M174A

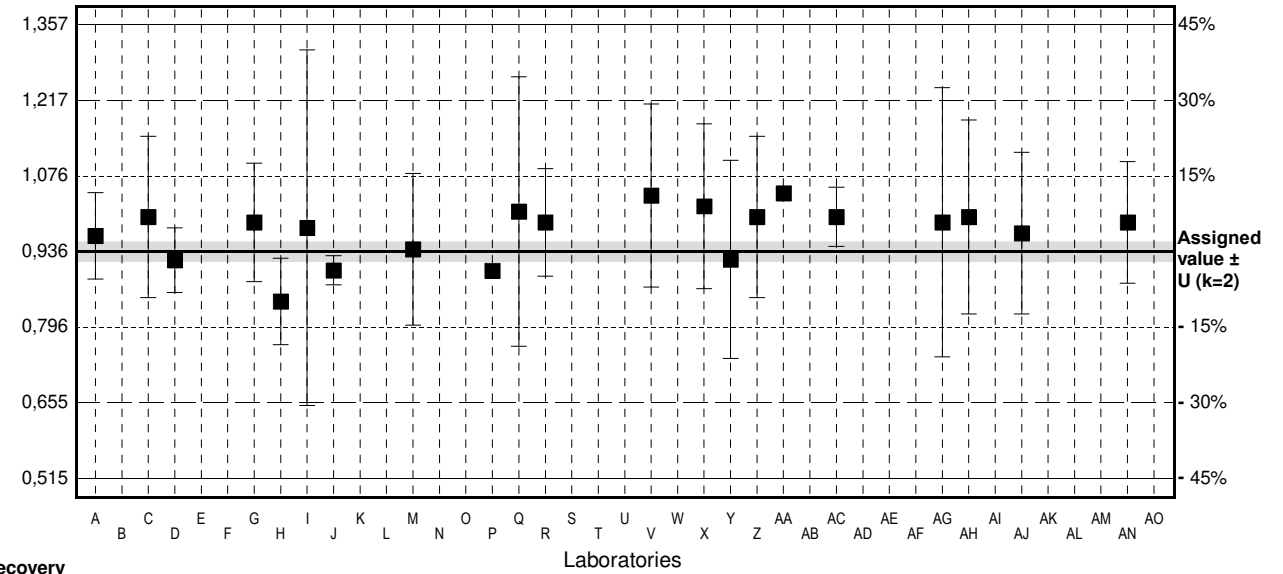
Parameter Selenium

Assigned value ± U (k=2) 0,936 µg/l ± 0,018 µg/l
 IFA result ± U (k=2) 0,88 µg/l ± 0,12 µg/l
 Stability test ± U (k=2) 1,12 µg/l ± 0,15 µg/l

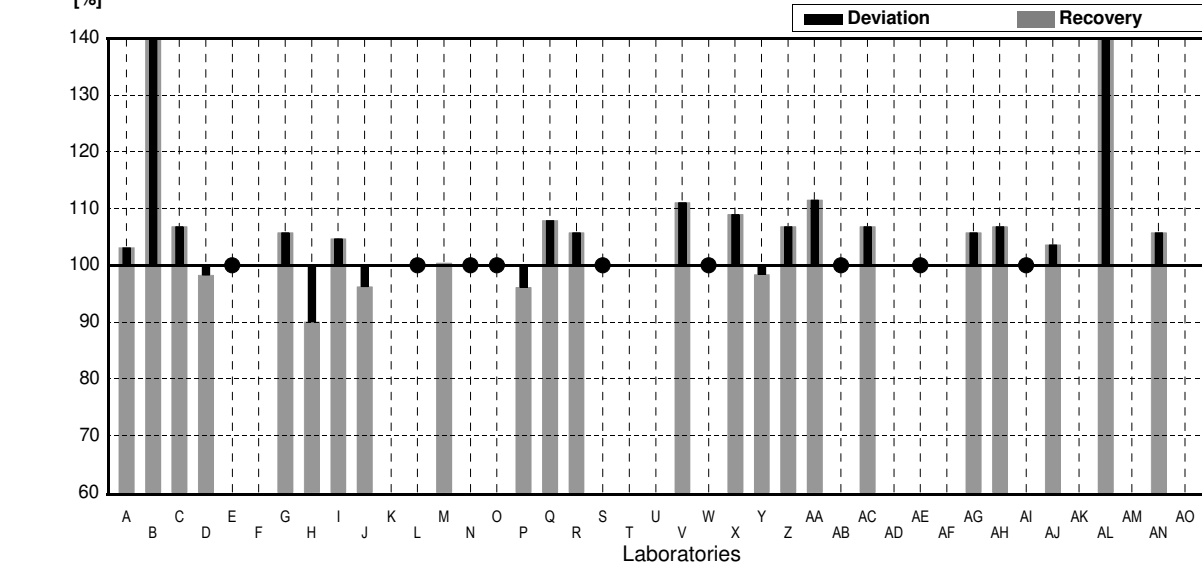
| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 0.965 | 0.08 | µg/l | 103% | 0.35 |
| B | 3.020 * | 0.894 | µg/l | 323% | 25.30 |
| C | 1.00 | 0.150 | µg/l | 107% | 0.78 |
| D | 0.92 | 0.06 | µg/l | 98% | -0.19 |
| E | <1 | | µg/l | • | |
| F | | | µg/l | | |
| G | 0.99 | 0.11 | µg/l | 106% | 0.66 |
| H | 0.843 * | 0.08 | µg/l | 90% | -1.13 |
| I | 0.98 | 0.33 | µg/l | 105% | 0.53 |
| J | 0.901 | 0.027 | µg/l | 96% | -0.42 |
| K | | | µg/l | | |
| L | <1.0 | | µg/l | • | |
| M | 0.940 | 0.141 | µg/l | 100% | 0.05 |
| N | <1 | | µg/l | • | |
| O | <1.0 | | µg/l | • | |
| P | 0.90 | | µg/l | 96% | -0.44 |
| Q | 1.01 | 0.25 | µg/l | 108% | 0.90 |
| R | 0.99 | 0.10 | µg/l | 106% | 0.66 |
| S | <10 | | µg/l | • | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 1.04 | 0.17 | µg/l | 111% | 1.26 |
| W | <1 | | µg/l | • | |
| X | 1.02 | 0.153 | µg/l | 109% | 1.02 |
| Y | 0.921 | 0.184 | µg/l | 98% | -0.18 |
| Z | 1.00 | 0.15 | µg/l | 107% | 0.78 |
| AA | 1.044 | | µg/l | 112% | 1.31 |
| AB | <1 | | µg/l | • | |
| AC | 1.00 | 0.055 | µg/l | 107% | 0.78 |
| AD | | | µg/l | | |
| AE | <1.00 | 0.2 | µg/l | • | |
| AF | | | µg/l | | |
| AG | 0.99 | 0.25 | µg/l | 106% | 0.66 |
| AH | 1.00 | 0.18 | µg/l | 107% | 0.78 |
| AI | <1.000 | | µg/l | • | |
| AJ | 0.97 | 0.15 | µg/l | 104% | 0.41 |
| AK | | | µg/l | | |
| AL | 8.54 * | 0.70 | µg/l | 912% | 92.32 |
| AM | | | µg/l | | |
| AN | 0.99 | 0.113 | µg/l | 106% | 0.66 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|---------------|----------------|------|
| Mean ± CI(99%) | 1,390 ± 0,951 | 0,979 ± 0,027 | µg/l |
| Recov. ± CI(99%) | 148,5 ± 101,6 | 104,5 ± 2,9 | % |
| SD between labs | 1,617 | 0,042 | µg/l |
| RSD between labs | 116,3 | 4,3 | % |
| n for calculation | 23 | 20 | |

Result
[µg/l]



Recovery
[%]



Sample M174B

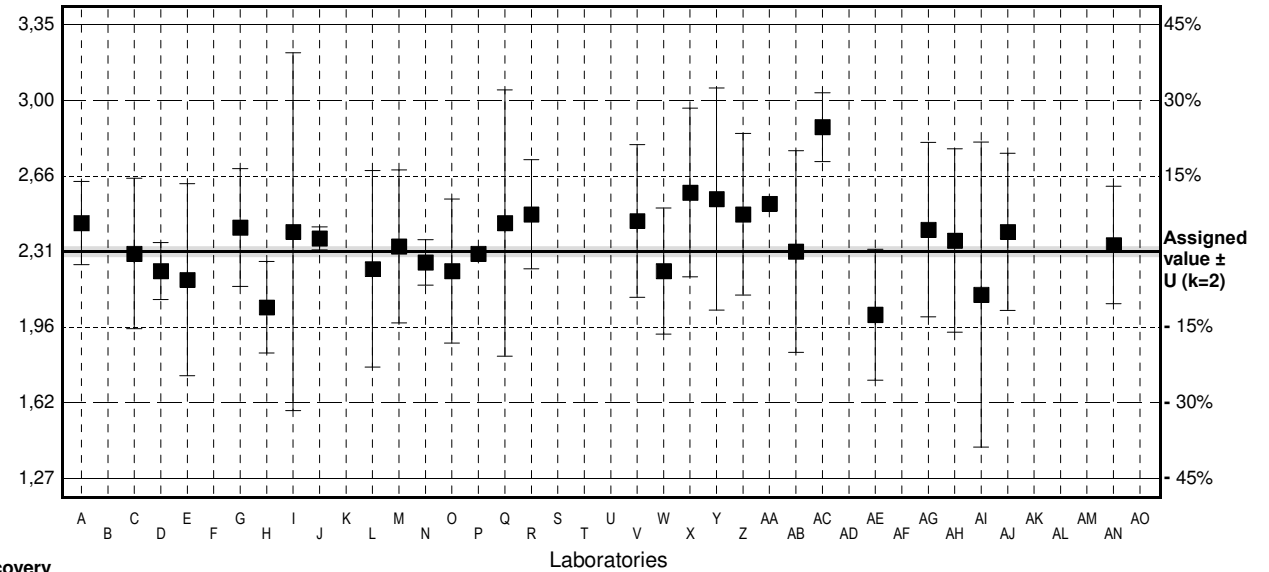
Parameter Selenium

Assigned value ± U (k=2) 2,31 µg/l ± 0,02 µg/l
 IFA result ± U (k=2) 2,30 µg/l ± 0,30 µg/l
 Stability test ± U (k=2) 2,37 µg/l ± 0,31 µg/l

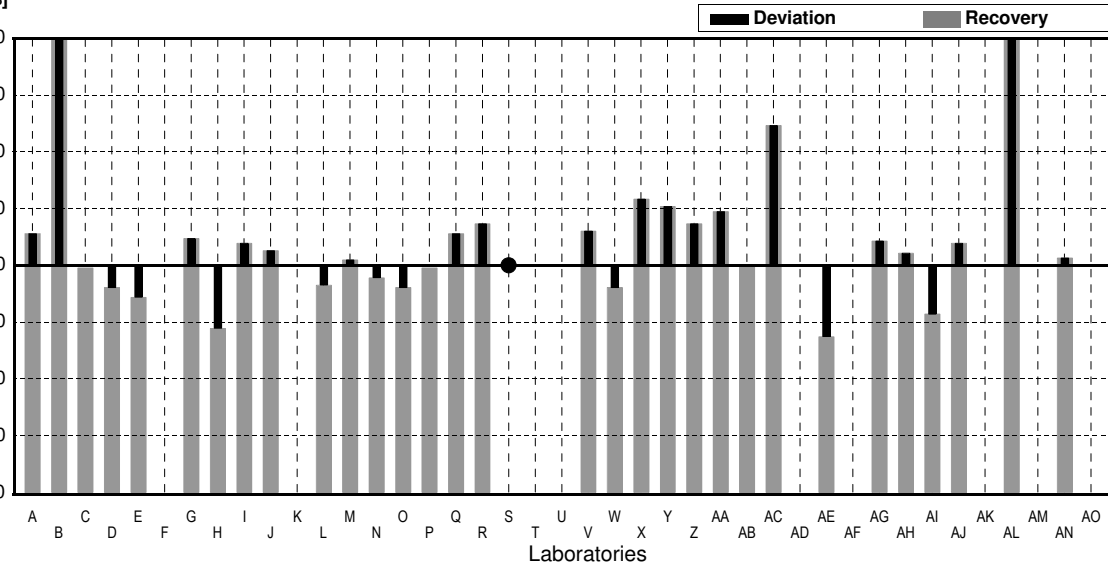
| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 2.44 | 0.19 | µg/l | 106% | 0.64 |
| B | 4.330 * | 2.464 | µg/l | 187% | 9.94 |
| C | 2.30 | 0.345 | µg/l | 100% | -0.05 |
| D | 2.22 | 0.13 | µg/l | 96% | -0.44 |
| E | 2.18 | 0.44 | µg/l | 94% | -0.64 |
| F | | | µg/l | | |
| G | 2.42 | 0.27 | µg/l | 105% | 0.54 |
| H | 2.054 | 0.21 | µg/l | 89% | -1.26 |
| I | 2.40 | 0.82 | µg/l | 104% | 0.44 |
| J | 2.37 | 0.053 | µg/l | 103% | 0.30 |
| K | | | µg/l | | |
| L | 2.23 | 0.45 | µg/l | 97% | -0.39 |
| M | 2.333 | 0.350 | µg/l | 101% | 0.11 |
| N | 2.26 | 0.104 | µg/l | 98% | -0.25 |
| O | 2.22 | 0.33 | µg/l | 96% | -0.44 |
| P | 2.30 | | µg/l | 100% | -0.05 |
| Q | 2.44 | 0.61 | µg/l | 106% | 0.64 |
| R | 2.48 | 0.25 | µg/l | 107% | 0.84 |
| S | <10 | | µg/l | * | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 2.45 | 0.35 | µg/l | 106% | 0.69 |
| W | 2.22 | 0.289 | µg/l | 96% | -0.44 |
| X | 2.58 | 0.387 | µg/l | 112% | 1.33 |
| Y | 2.55 | 0.509 | µg/l | 110% | 1.18 |
| Z | 2.48 | 0.37 | µg/l | 107% | 0.84 |
| AA | 2.529 | | µg/l | 109% | 1.08 |
| AB | 2.31 | 0.462 | µg/l | 100% | 0.00 |
| AC | 2.88 * | 0.158 | µg/l | 125% | 2.80 |
| AD | | | µg/l | | |
| AE | 2.02 | 0.3 | µg/l | 87% | -1.43 |
| AF | | | µg/l | | |
| AG | 2.41 | 0.40 | µg/l | 104% | 0.49 |
| AH | 2.36 | 0.42 | µg/l | 102% | 0.25 |
| AI | 2.112 | 0.699 | µg/l | 91% | -0.97 |
| AJ | 2.40 | 0.36 | µg/l | 104% | 0.44 |
| AK | | | µg/l | | |
| AL | 9.41 * | 1.55 | µg/l | 407% | 34.93 |
| AM | | | µg/l | | |
| AN | 2.34 | 0.269 | µg/l | 101% | 0.15 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|--------------|----------------|------|
| Mean ± CI(99%) | 2,65 ± 0,65 | 2,34 ± 0,08 | µg/l |
| Recov. ± CI(99%) | 114,5 ± 28,1 | 101,1 ± 3,3 | % |
| SD between labs | 1,32 | 0,14 | µg/l |
| RSD between labs | 49,7 | 6,1 | % |
| n for calculation | 31 | 28 | |

Result [µg/l]



Recovery [%]



Sample M174A

Parameter Strontium *

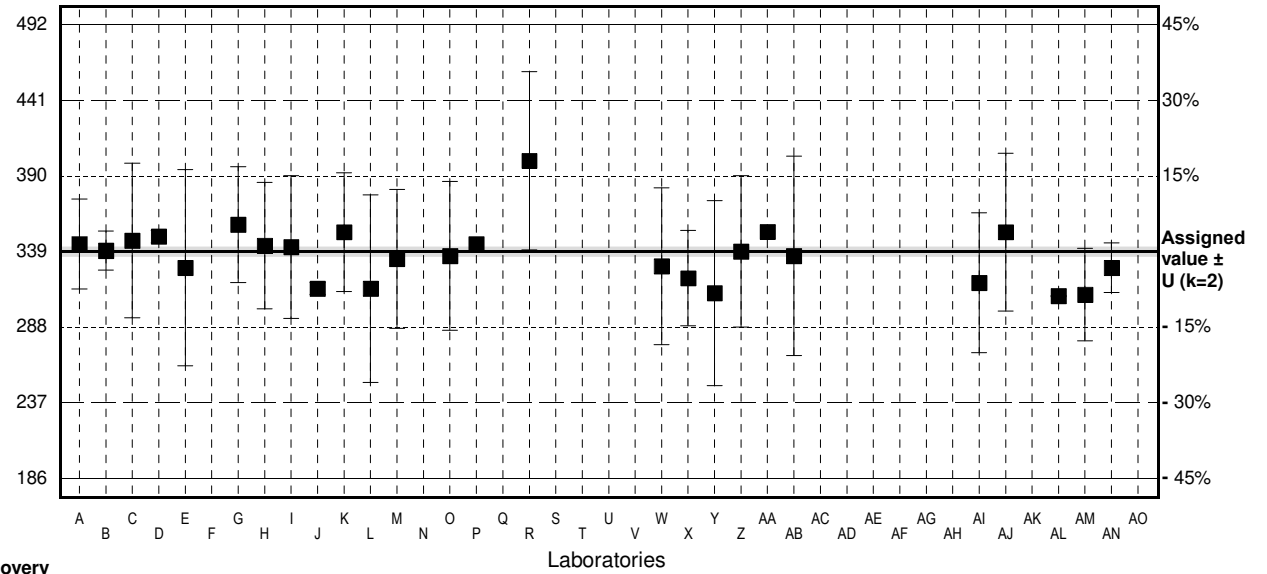
Assigned value ± U (k=2) 339 µg/l ± 3 µg/l
 IFA result ± U (k=2) 330 µg/l ± 32 µg/l
 Stability test ± U (k=2) 318 µg/l ± 31 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A | 344 | 30.3 | µg/l | 101% | 0.33 |
| B | 339.5 | 13.1 | µg/l | 100% | 0.03 |
| C | 346.3 | 51.95 | µg/l | 102% | 0.48 |
| D | 349 | 4.20 | µg/l | 103% | 0.66 |
| E | 328 | 66 | µg/l | 97% | -0.72 |
| F | | | µg/l | | |
| G | 357 | 39 | µg/l | 105% | 1.18 |
| H | 342.8 | 42.5 | µg/l | 101% | 0.25 |
| I | 342 | 48 | µg/l | 101% | 0.20 |
| J | 314 | 4.04 | µg/l | 93% | -1.64 |
| K | 352 | 40 | µg/l | 104% | 0.85 |
| L | 314 | 63 | µg/l | 93% | -1.64 |
| M | 333.9 | 46.7 | µg/l | 98% | -0.33 |
| N | | | µg/l | | |
| O | 336 | 50 | µg/l | 99% | -0.20 |
| P | 344 | | µg/l | 101% | 0.33 |
| Q | | | µg/l | | |
| R | 400 * | 60 | µg/l | 118% | 4.00 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | | | µg/l | | |
| W | 329 | 52.66 | µg/l | 97% | -0.66 |
| X | 321 | 32.1 | µg/l | 95% | -1.18 |
| Y | 311 | 62.2 | µg/l | 92% | -1.84 |
| Z | 339 | 50.9 | µg/l | 100% | 0.00 |
| AA | 352.2 | | µg/l | 104% | 0.87 |
| AB | 336 | 67 | µg/l | 99% | -0.20 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | | | µg/l | | |
| AF | | | µg/l | | |
| AG | | | µg/l | | |
| AH | | | µg/l | | |
| AI | 317.853 | 47.042 | µg/l | 94% | -1.39 |
| AJ | 352 | 53 | µg/l | 104% | 0.85 |
| AK | | | µg/l | | |
| AL | 309 | 0.31 | µg/l | 91% | -1.97 |
| AM | 310 | 31.0 | µg/l | 91% | -1.90 |
| AN | 328 | 16.7 | µg/l | 97% | -0.72 |
| AO | | | µg/l | | |

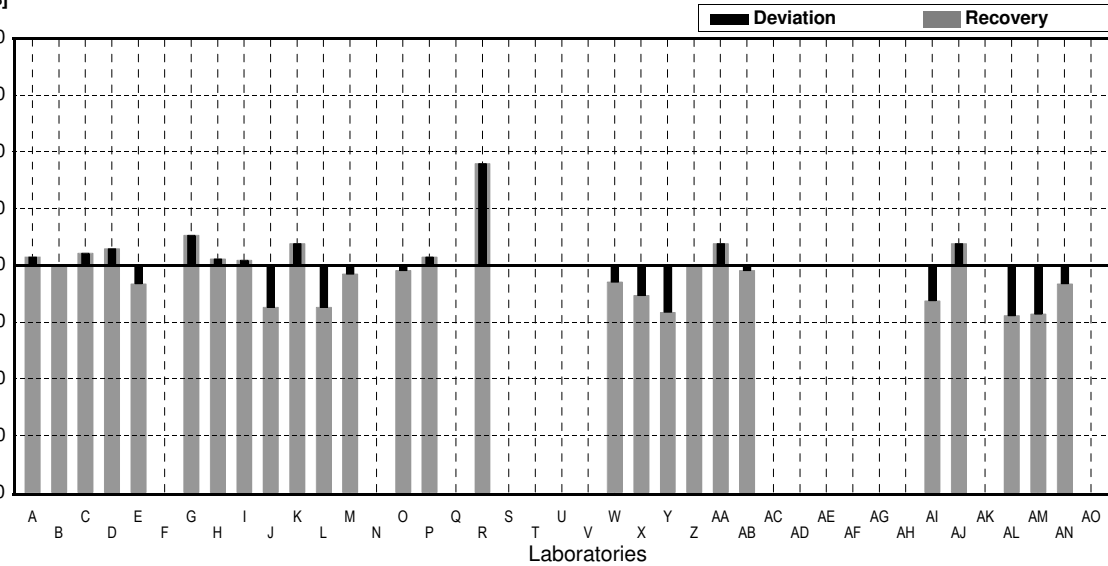
* not accredited

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 336 ± 11 | 334 ± 8 | µg/l |
| Recov. ± CI(99%) | 99,2 ± 3,2 | 98,5 ± 2,5 | % |
| SD between labs | 20 | 15 | µg/l |
| RSD between labs | 5,8 | 4,5 | % |
| n for calculation | 26 | 25 | |

Result [µg/l]



Recovery [%]



Sample M174B

Parameter Strontium*

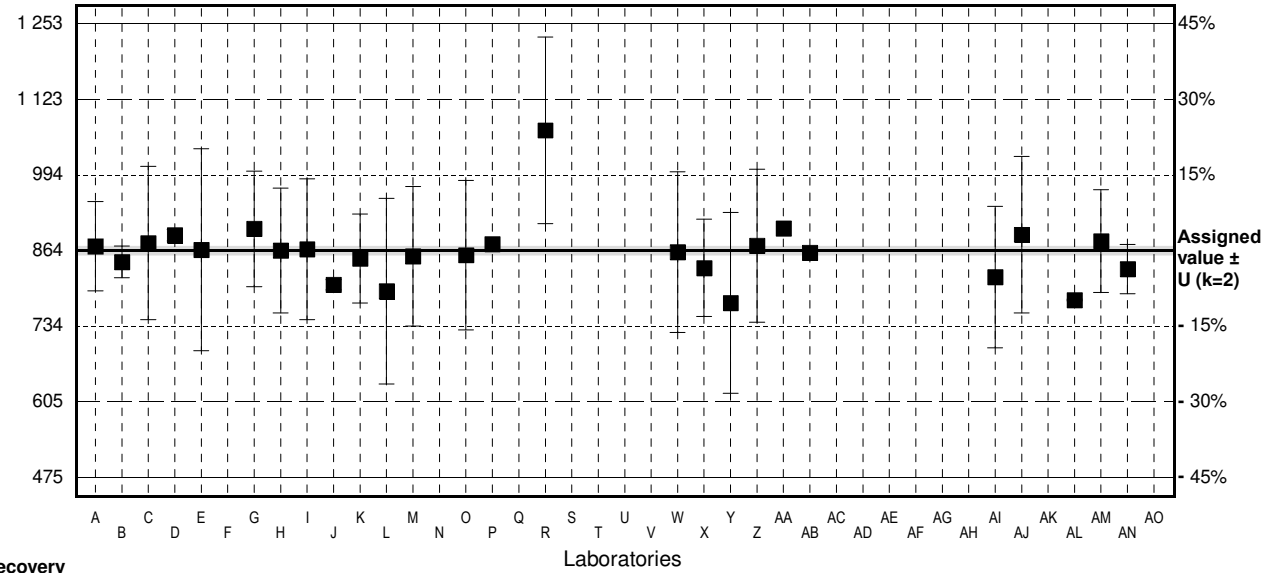
Assigned value ± U (k=2) 864 µg/l ± 8 µg/l
 IFA result ± U (k=2) 862 µg/l ± 67 µg/l
 Stability test ± U (k=2) 826 µg/l ± 64 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|---------|------|----------|---------|
| A | 871 | 76.6 | µg/l | 101% | 0.18 |
| B | 844.3 | 27.3 | µg/l | 98% | -0.51 |
| C | 876.5 | 131.5 | µg/l | 101% | 0.32 |
| D | 890 | 9.7 | µg/l | 103% | 0.67 |
| E | 865 | 173 | µg/l | 100% | 0.03 |
| F | | | µg/l | | |
| G | 901 | 99 | µg/l | 104% | 0.95 |
| H | 863.9 | 107.1 | µg/l | 100% | 0.00 |
| I | 866 | 121 | µg/l | 100% | 0.05 |
| J | 805 | 8.74 | µg/l | 93% | -1.52 |
| K | 850 | 76 | µg/l | 98% | -0.36 |
| L | 794 | 159 | µg/l | 92% | -1.80 |
| M | 853.9 | 119.5 | µg/l | 99% | -0.26 |
| N | | | µg/l | | |
| O | 856 | 128 | µg/l | 99% | -0.21 |
| P | 875 | | µg/l | 101% | 0.28 |
| Q | | | µg/l | | |
| R | 1070 * | 160 | µg/l | 124% | 5.30 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | | | µg/l | | |
| W | 861 | 137.772 | µg/l | 100% | -0.08 |
| X | 834 | 83.4 | µg/l | 97% | -0.77 |
| Y | 774 * | 155 | µg/l | 90% | -2.31 |
| Z | 872 | 131 | µg/l | 101% | 0.21 |
| AA | 901.8 | | µg/l | 104% | 0.97 |
| AB | 860 | | µg/l | 100% | -0.10 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | | | µg/l | | |
| AF | | | µg/l | | |
| AG | | | µg/l | | |
| AH | | | µg/l | | |
| AI | 818.264 | 121.103 | µg/l | 95% | -1.18 |
| AJ | 891 | 134 | µg/l | 103% | 0.69 |
| AK | | | µg/l | | |
| AL | 779 * | 1.56 | µg/l | 90% | -2.19 |
| AM | 880 | 88.0 | µg/l | 102% | 0.41 |
| AN | 832 | 42.4 | µg/l | 96% | -0.82 |
| AO | | | µg/l | | |

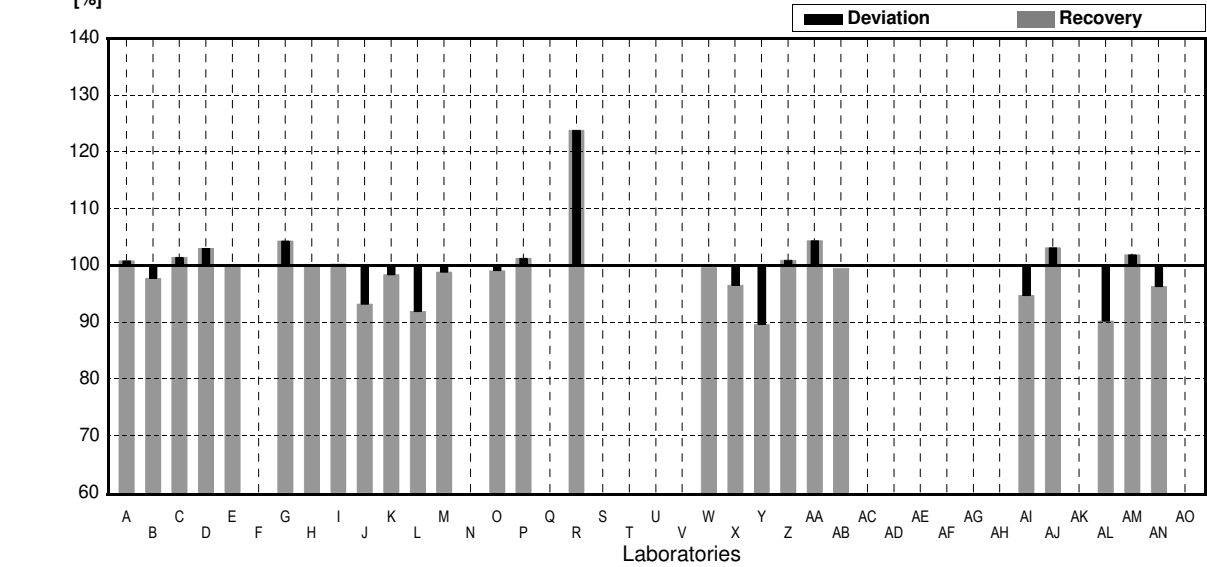
* not accredited

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 861 ± 30 | 859 ± 17 | µg/l |
| Recov. ± CI(99%) | 99,6 ± 3,5 | 99,4 ± 1,9 | % |
| SD between labs | 55 | 28 | µg/l |
| RSD between labs | 6,4 | 3,3 | % |
| n for calculation | 26 | 23 | |

Result [µg/l]



Recovery [%]



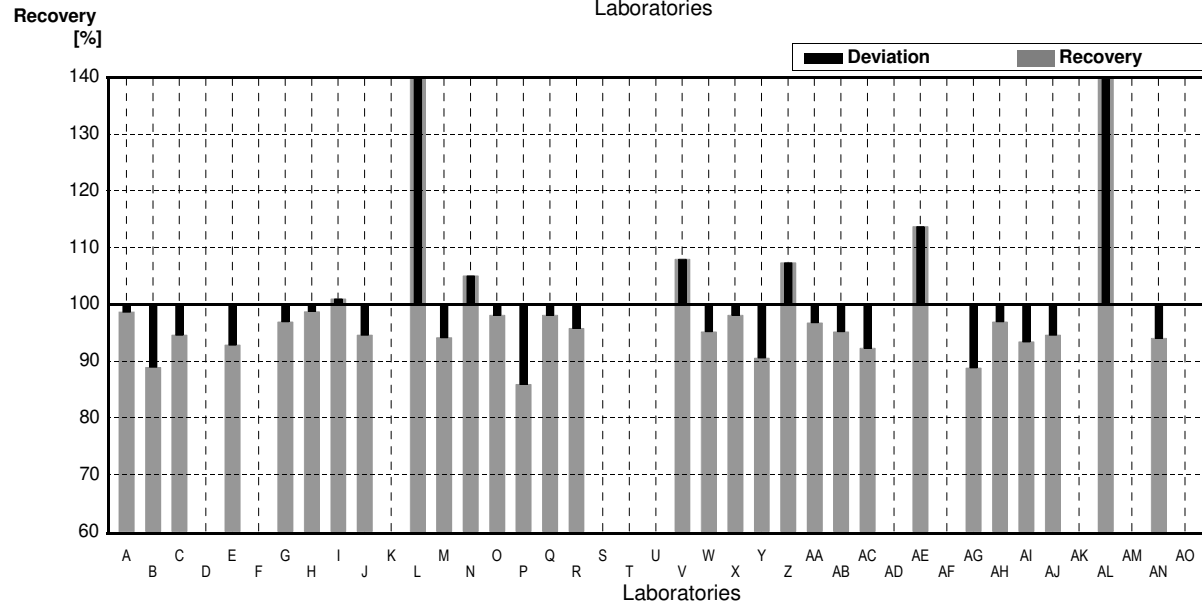
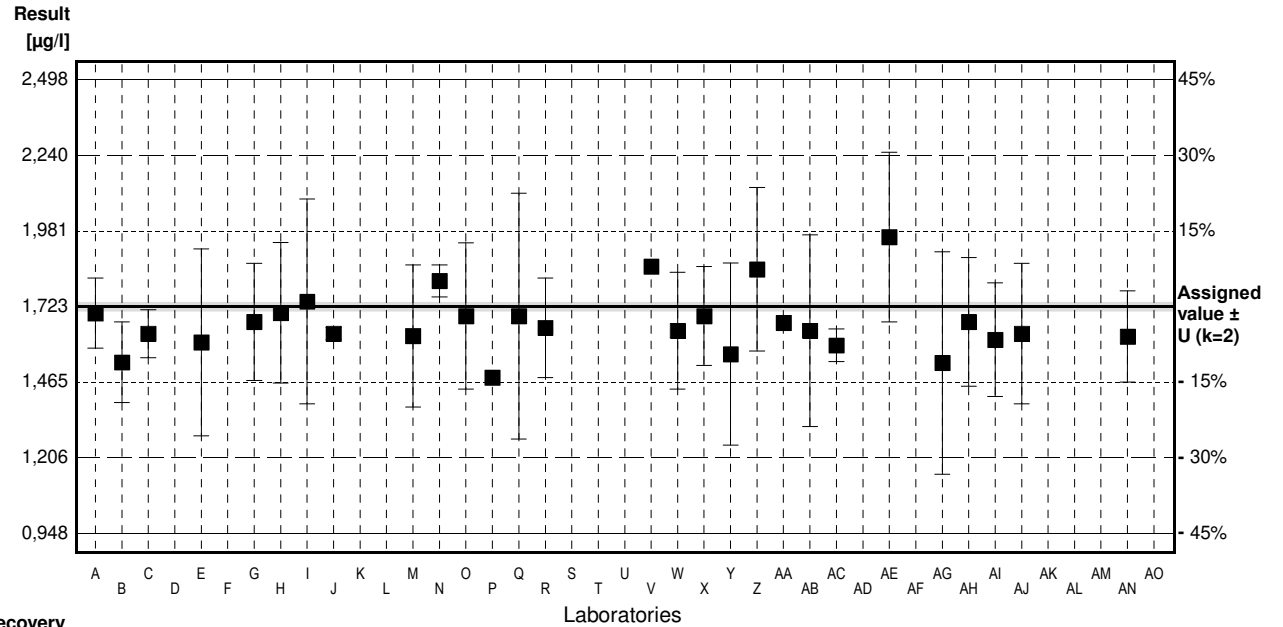
Sample M174A

Parameter Uranium

Assigned value $\pm U$ (k=2) 1,723 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 1,52 $\mu\text{g/l}$ \pm 0,15 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 1,61 $\mu\text{g/l}$ \pm 0,16 $\mu\text{g/l}$

| Lab Code | Result | \pm | Unit | Recovery | z-Score |
|----------|--------|--------|-----------------|----------|---------|
| A | 1.70 | 0.12 | $\mu\text{g/l}$ | 99% | -0.24 |
| B | 1.532 | 0.138 | $\mu\text{g/l}$ | 89% | -1.98 |
| C | 1.63 | 0.082 | $\mu\text{g/l}$ | 95% | -0.96 |
| D | | | $\mu\text{g/l}$ | | |
| E | 1.60 | 0.32 | $\mu\text{g/l}$ | 93% | -1.27 |
| F | | | $\mu\text{g/l}$ | | |
| G | 1.67 | 0.20 | $\mu\text{g/l}$ | 97% | -0.55 |
| H | 1.701 | 0.24 | $\mu\text{g/l}$ | 99% | -0.23 |
| I | 1.74 | 0.35 | $\mu\text{g/l}$ | 101% | 0.18 |
| J | 1.63 | 0.021 | $\mu\text{g/l}$ | 95% | -0.96 |
| K | | | $\mu\text{g/l}$ | | |
| L | 10.8 * | 2.2 | $\mu\text{g/l}$ | 627% | 94.07 |
| M | 1.622 | 0.243 | $\mu\text{g/l}$ | 94% | -1.05 |
| N | 1.81 | 0.0548 | $\mu\text{g/l}$ | 105% | 0.90 |
| O | 1.69 | 0.25 | $\mu\text{g/l}$ | 98% | -0.34 |
| P | 1.48 | | $\mu\text{g/l}$ | 86% | -2.52 |
| Q | 1.69 | 0.42 | $\mu\text{g/l}$ | 98% | -0.34 |
| R | 1.65 | 0.17 | $\mu\text{g/l}$ | 96% | -0.76 |
| S | | | $\mu\text{g/l}$ | | |
| T | | | $\mu\text{g/l}$ | | |
| U | | | $\mu\text{g/l}$ | | |
| V | 1.86 * | | $\mu\text{g/l}$ | 108% | 1.42 |
| W | 1.64 | 0.20 | $\mu\text{g/l}$ | 95% | -0.86 |
| X | 1.69 | 0.169 | $\mu\text{g/l}$ | 98% | -0.34 |
| Y | 1.56 | 0.311 | $\mu\text{g/l}$ | 91% | -1.69 |
| Z | 1.85 | 0.28 | $\mu\text{g/l}$ | 107% | 1.32 |
| AA | 1.667 | | $\mu\text{g/l}$ | 97% | -0.58 |
| AB | 1.64 | 0.328 | $\mu\text{g/l}$ | 95% | -0.86 |
| AC | 1.59 | 0.056 | $\mu\text{g/l}$ | 92% | -1.38 |
| AD | | | $\mu\text{g/l}$ | | |
| AE | 1.96 * | 0.29 | $\mu\text{g/l}$ | 114% | 2.46 |
| AF | | | $\mu\text{g/l}$ | | |
| AG | 1.53 | 0.38 | $\mu\text{g/l}$ | 89% | -2.00 |
| AH | 1.67 | 0.22 | $\mu\text{g/l}$ | 97% | -0.55 |
| AI | 1.609 | 0.194 | $\mu\text{g/l}$ | 93% | -1.18 |
| AJ | 1.63 | 0.24 | $\mu\text{g/l}$ | 95% | -0.96 |
| AK | | | $\mu\text{g/l}$ | | |
| AL | 8.01 * | 0.77 | $\mu\text{g/l}$ | 465% | 65.16 |
| AM | | | $\mu\text{g/l}$ | | |
| AN | 1.62 | 0.156 | $\mu\text{g/l}$ | 94% | -1.07 |
| AO | | | $\mu\text{g/l}$ | | |

| | All results | Outliers excl. | Unit |
|----------------------|-------------------|-------------------|-----------------|
| Mean \pm CI(99%) | 2,182 \pm 1,008 | 1,648 \pm 0,044 | $\mu\text{g/l}$ |
| Recov. \pm CI(99%) | 126,7 \pm 58,5 | 95,6 \pm 2,5 | % |
| SD between labs | 2,000 | 0,080 | $\mu\text{g/l}$ |
| RSD between labs | 91,6 | 4,9 | % |
| n for calculation | 30 | 26 | |



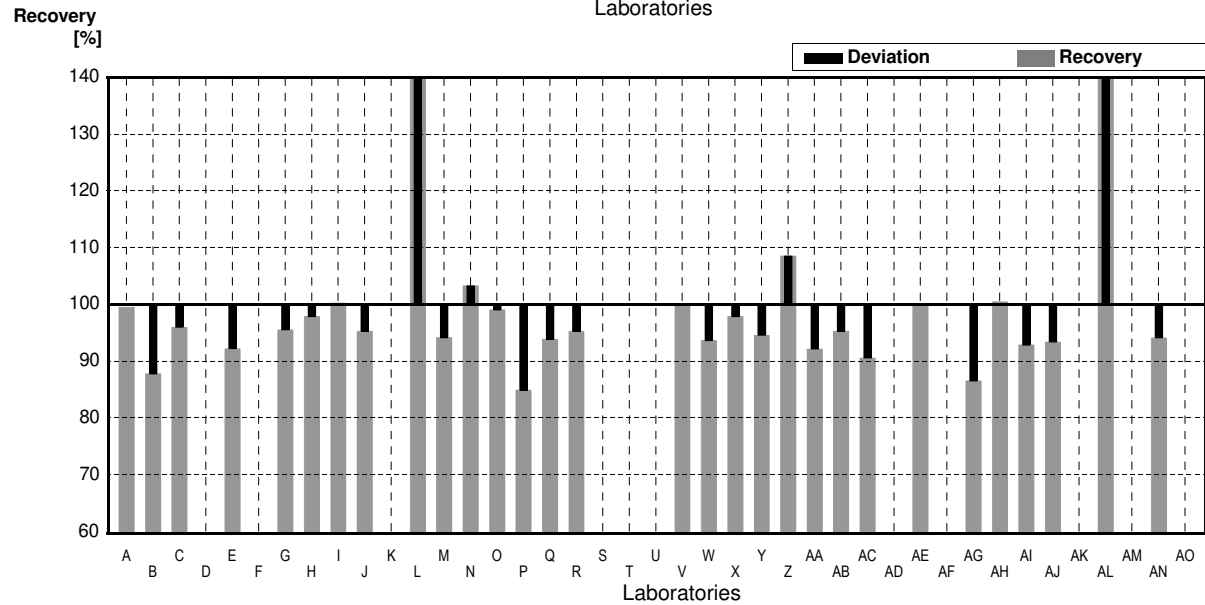
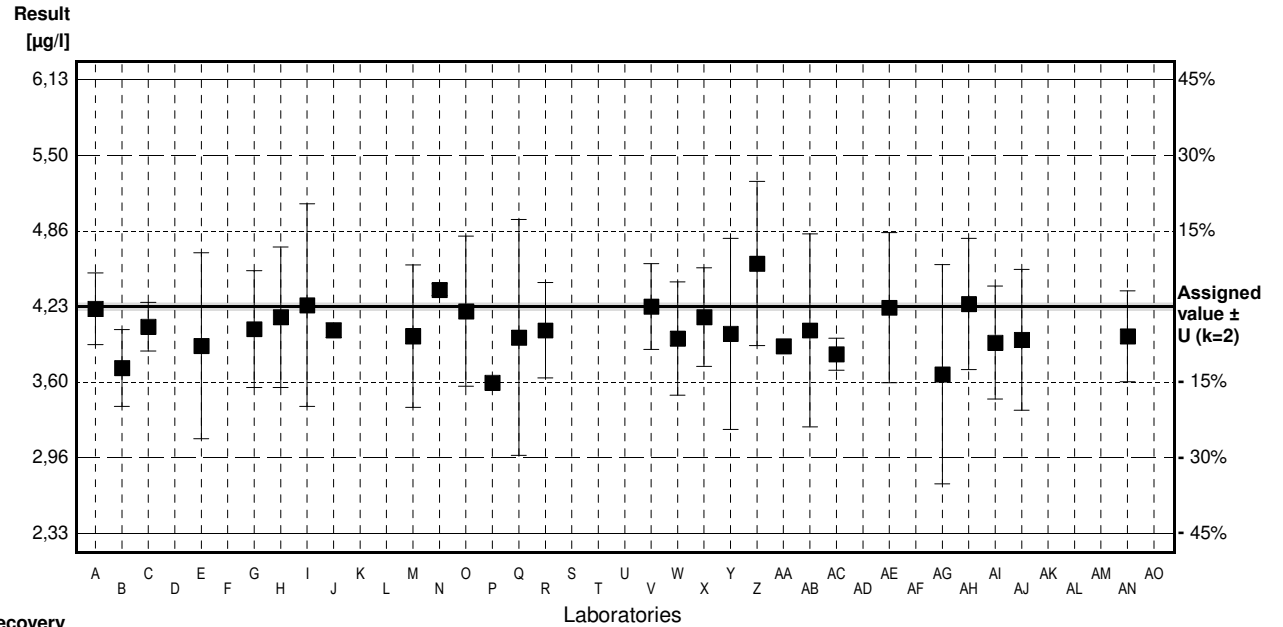
Sample M174B

Parameter Uranium

Assigned value ± U (k=2) 4,23 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 3,53 µg/l ± 0,35 µg/l
 Stability test ± U (k=2) 3,71 µg/l ± 0,37 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A | 4,21 | 0,30 | µg/l | 100% | -0,08 |
| B | 3,713 | 0,323 | µg/l | 88% | -2,18 |
| C | 4,06 | 0,203 | µg/l | 96% | -0,72 |
| D | | | µg/l | | |
| E | 3,90 | 0,78 | µg/l | 92% | -1,39 |
| F | | | µg/l | | |
| G | 4,04 | 0,49 | µg/l | 96% | -0,80 |
| H | 4,140 | 0,59 | µg/l | 98% | -0,38 |
| I | 4,24 | 0,85 | µg/l | 100% | 0,04 |
| J | 4,03 | 0,062 | µg/l | 95% | -0,84 |
| K | | | µg/l | | |
| L | 27,6 * | 5,5 | µg/l | 652% | 98,66 |
| M | 3,981 | 0,597 | µg/l | 94% | -1,05 |
| N | 4,37 | 0,0494 | µg/l | 103% | 0,59 |
| O | 4,19 | 0,63 | µg/l | 99% | -0,17 |
| P | 3,59 | | µg/l | 85% | -2,70 |
| Q | 3,97 | 0,99 | µg/l | 94% | -1,10 |
| R | 4,03 | 0,40 | µg/l | 95% | -0,84 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | | | µg/l | | |
| V | 4,23 | 0,36 | µg/l | 100% | 0,00 |
| W | 3,96 | 0,475 | µg/l | 94% | -1,14 |
| X | 4,14 | 0,414 | µg/l | 98% | -0,38 |
| Y | 4,00 | 0,801 | µg/l | 95% | -0,97 |
| Z | 4,59 | 0,69 | µg/l | 109% | 1,52 |
| AA | 3,897 | | µg/l | 92% | -1,41 |
| AB | 4,03 | 0,81 | µg/l | 95% | -0,84 |
| AC | 3,83 | 0,134 | µg/l | 91% | -1,69 |
| AD | | | µg/l | | |
| AE | 4,22 | 0,63 | µg/l | 100% | -0,04 |
| AF | | | µg/l | | |
| AG | 3,66 | 0,92 | µg/l | 87% | -2,41 |
| AH | 4,25 | 0,55 | µg/l | 100% | 0,08 |
| AI | 3,927 | 0,474 | µg/l | 93% | -1,28 |
| AJ | 3,95 | 0,59 | µg/l | 93% | -1,18 |
| AK | | | µg/l | | |
| AL | 29,4 * | 3,12 | µg/l | 695% | 106,26 |
| AM | | | µg/l | | |
| AN | 3,98 | 0,382 | µg/l | 94% | -1,06 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|--------------|----------------|------|
| Mean ± CI(99%) | 5,67 ± 3,13 | 4,04 ± 0,11 | µg/l |
| Recov. ± CI(99%) | 134,1 ± 74,0 | 95,5 ± 2,6 | % |
| SD between labs | 6,21 | 0,21 | µg/l |
| RSD between labs | 109,6 | 5,3 | % |
| n for calculation | 30 | 28 | |



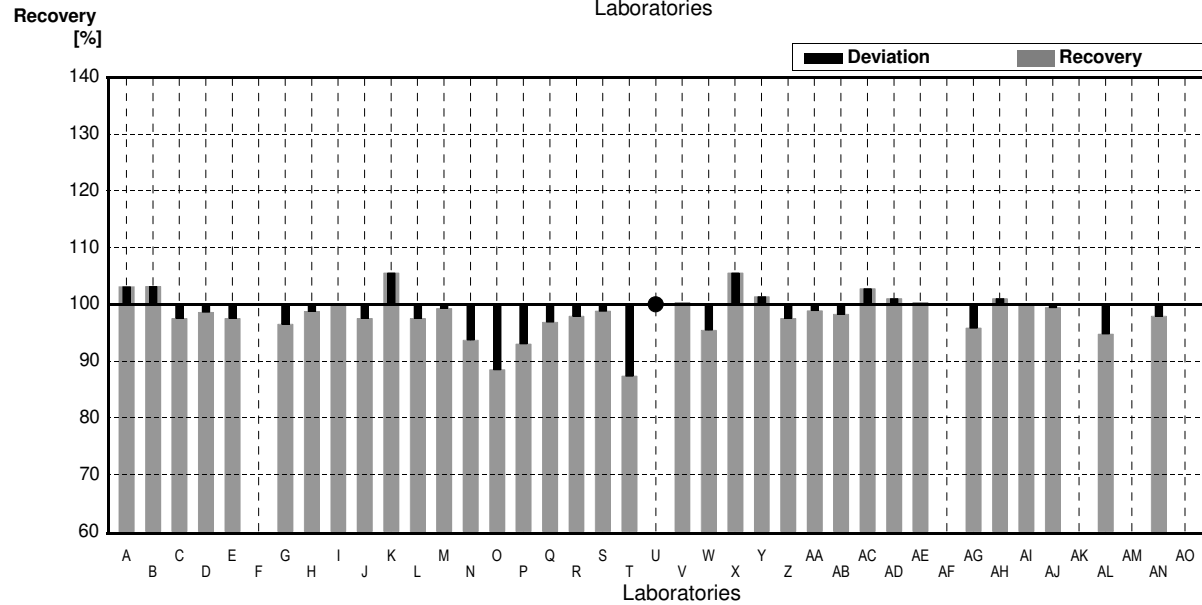
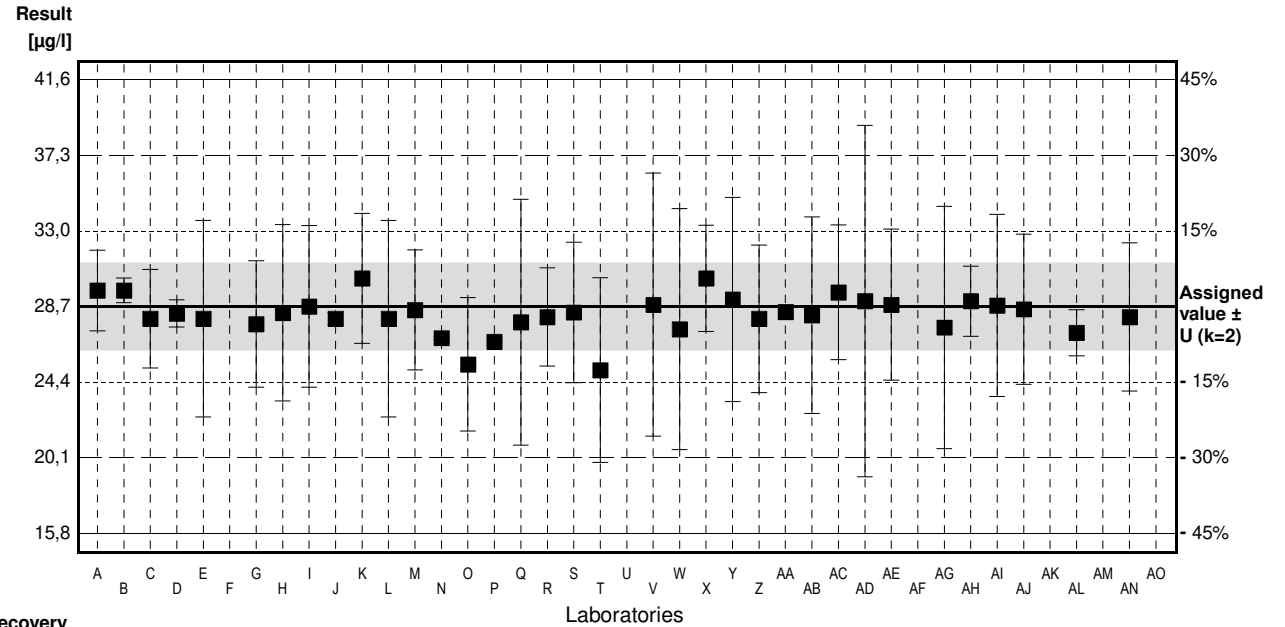
Sample M174A

Parameter Zinc

Assigned value ± U (k=2) 28,7 µg/l ± 2,5 µg/l
 IFA result ± U (k=2) 39,1 µg/l ± 5,1 µg/l
 Stability test ± U (k=2) 39,5 µg/l ± 5,1 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A | 29.6 | 2.3 | µg/l | 103% | 0.45 |
| B | 29.61 | 0.70 | µg/l | 103% | 0.46 |
| C | 28.0 | 2.80 | µg/l | 98% | -0.35 |
| D | 28.3 | 0.77 | µg/l | 99% | -0.20 |
| E | 28.0 | 5.6 | µg/l | 98% | -0.35 |
| F | | | µg/l | | |
| G | 27.7 | 3.60 | µg/l | 97% | -0.50 |
| H | 28.34 | 5.02 | µg/l | 99% | -0.18 |
| I | 28.7 | 4.6 | µg/l | 100% | 0.00 |
| J | 28.0 | 0.35 | µg/l | 98% | -0.35 |
| K | 30.3 | 3.7 | µg/l | 106% | 0.81 |
| L | 28.0 | 5.6 | µg/l | 98% | -0.35 |
| M | 28.50 | 3.42 | µg/l | 99% | -0.10 |
| N | 26.9 | 0.088 | µg/l | 94% | -0.91 |
| O | 25.4 * | 3.8 | µg/l | 89% | -1.67 |
| P | 26.7 | | µg/l | 93% | -1.01 |
| Q | 27.8 | 7.0 | µg/l | 97% | -0.45 |
| R | 28.1 | 2.8 | µg/l | 98% | -0.30 |
| S | 28.36 | 4.0 | µg/l | 99% | -0.17 |
| T | 25.07 * | 5.26 | µg/l | 87% | -1.83 |
| U | <500 | | µg/l | . | |
| V | 28.8 | 7.49 | µg/l | 100% | 0.05 |
| W | 27.4 | 6.86 | µg/l | 95% | -0.66 |
| X | 30.3 | 3.03 | µg/l | 106% | 0.81 |
| Y | 29.1 | 5.82 | µg/l | 101% | 0.20 |
| Z | 28.0 | 4.20 | µg/l | 98% | -0.35 |
| AA | 28.38 | | µg/l | 99% | -0.16 |
| AB | 28.2 | 5.6 | µg/l | 98% | -0.25 |
| AC | 29.5 | 3.84 | µg/l | 103% | 0.40 |
| AD | 29.0 | 10 | µg/l | 101% | 0.15 |
| AE | 28.8 | 4.3 | µg/l | 100% | 0.05 |
| AF | | | µg/l | | |
| AG | 27.5 | 6.9 | µg/l | 96% | -0.61 |
| AH | 29.0 | 2.0 | µg/l | 101% | 0.15 |
| AI | 28.759 | 5.177 | µg/l | 100% | 0.03 |
| AJ | 28.54 | 4.28 | µg/l | 99% | -0.08 |
| AK | | | µg/l | | |
| AL | 27.2 | 1.31 | µg/l | 95% | -0.76 |
| AM | | | µg/l | | |
| AN | 28.1 | 4.22 | µg/l | 98% | -0.30 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 28,2 ± 0,5 | 28,4 ± 0,4 | µg/l |
| Recov. ± CI(99%) | 98,4 ± 1,8 | 99,0 ± 1,4 | % |
| SD between labs | 1,1 | 0,9 | µg/l |
| RSD between labs | 4,0 | 3,0 | % |
| n for calculation | 35 | 33 | |



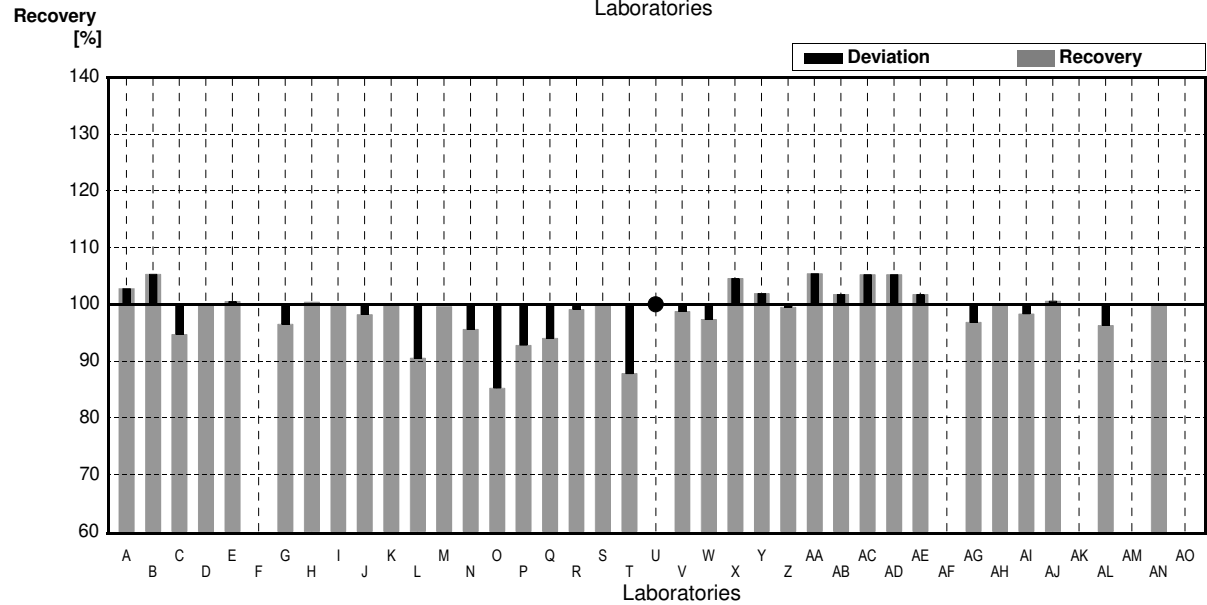
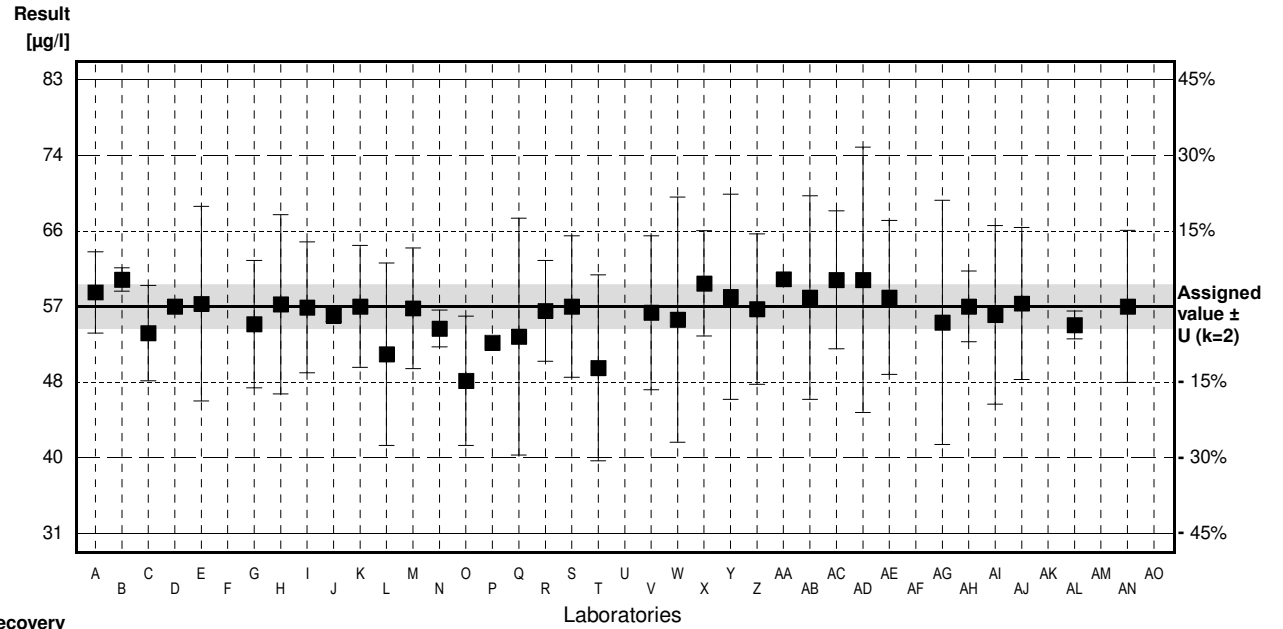
Sample M174B

Parameter Zinc

Assigned value ± U (k=2) 57 µg/l ± 2 µg/l
 IFA result ± U (k=2) 71 µg/l ± 8 µg/l
 Stability test ± U (k=2) 61 µg/l ± 7 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A | 58.6 | 4.6 | µg/l | 103% | 0.41 |
| B | 60.03 | 1.32 | µg/l | 105% | 0.77 |
| C | 54.0 | 5.40 | µg/l | 95% | -0.76 |
| D | 57 | 0.49 | µg/l | 100% | 0.00 |
| E | 57.3 | 11 | µg/l | 101% | 0.08 |
| F | | | µg/l | | |
| G | 55 | 7.2 | µg/l | 96% | -0.51 |
| H | 57.24 | 10.13 | µg/l | 100% | 0.06 |
| I | 56.9 | 7.4 | µg/l | 100% | -0.03 |
| J | 56.0 | 0.71 | µg/l | 98% | -0.25 |
| K | 57.0 | 6.9 | µg/l | 100% | 0.00 |
| L | 51.6 | 10.3 | µg/l | 91% | -1.37 |
| M | 56.79 | 6.81 | µg/l | 100% | -0.05 |
| N | 54.5 | 2.07 | µg/l | 96% | -0.64 |
| O | 48.6 * | 7.3 | µg/l | 85% | -2.14 |
| P | 52.9 | | µg/l | 93% | -1.04 |
| Q | 53.6 | 13.4 | µg/l | 94% | -0.86 |
| R | 56.5 | 5.7 | µg/l | 99% | -0.13 |
| S | 56.98 | 8.0 | µg/l | 100% | -0.01 |
| T | 50.06 * | 10.51 | µg/l | 88% | -1.76 |
| U | <500 | | µg/l | . | . |
| V | 56.3 | 8.71 | µg/l | 99% | -0.18 |
| W | 55.5 | 13.879 | µg/l | 97% | -0.38 |
| X | 59.6 | 5.96 | µg/l | 105% | 0.66 |
| Y | 58.1 | 11.6 | µg/l | 102% | 0.28 |
| Z | 56.7 | 8.50 | µg/l | 99% | -0.08 |
| AA | 60.09 | | µg/l | 105% | 0.79 |
| AB | 58 | 11.5 | µg/l | 102% | 0.25 |
| AC | 60 | 7.8 | µg/l | 105% | 0.76 |
| AD | 60 | 15 | µg/l | 105% | 0.76 |
| AE | 58 | 8.7 | µg/l | 102% | 0.25 |
| AF | | | µg/l | | |
| AG | 55.2 | 13.8 | µg/l | 97% | -0.46 |
| AH | 57 | 4 | µg/l | 100% | 0.00 |
| AI | 56.047 | 10.088 | µg/l | 98% | -0.24 |
| AJ | 57.33 | 8.60 | µg/l | 101% | 0.08 |
| AK | | | µg/l | | |
| AL | 54.9 | 1.59 | µg/l | 96% | -0.53 |
| AM | | | µg/l | | |
| AN | 57 | 8.6 | µg/l | 100% | 0.00 |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 56 ± 1 | 57 ± 1 | µg/l |
| Recov. ± CI(99%) | 98,8 ± 2,2 | 99,5 ± 1,7 | % |
| SD between labs | 3 | 2 | µg/l |
| RSD between labs | 4,7 | 3,6 | % |
| n for calculation | 35 | 33 | |



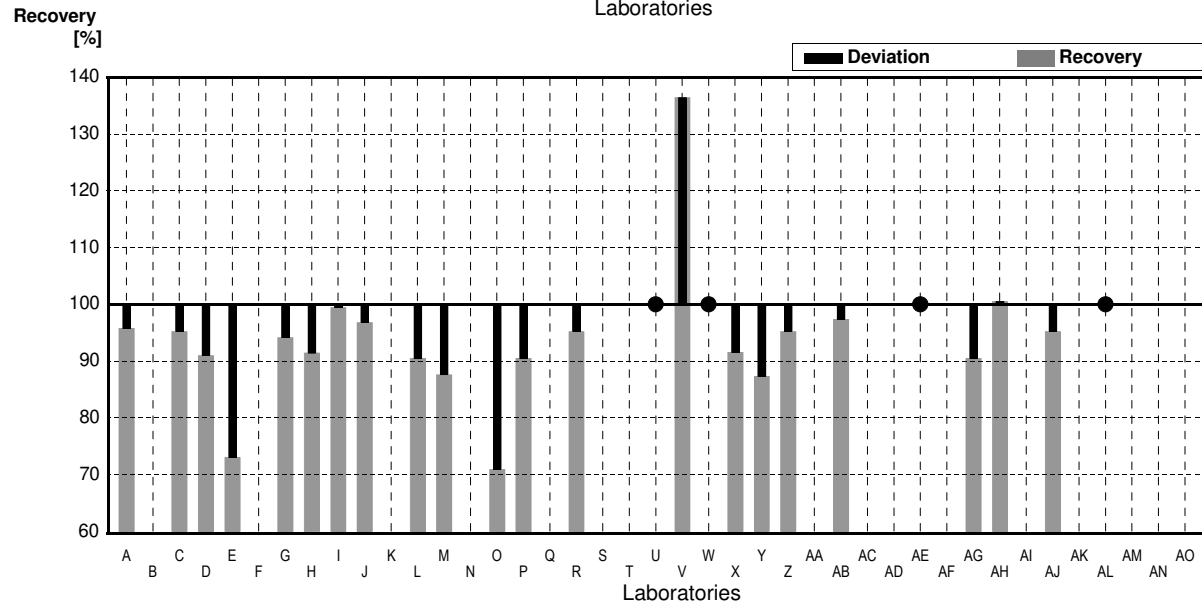
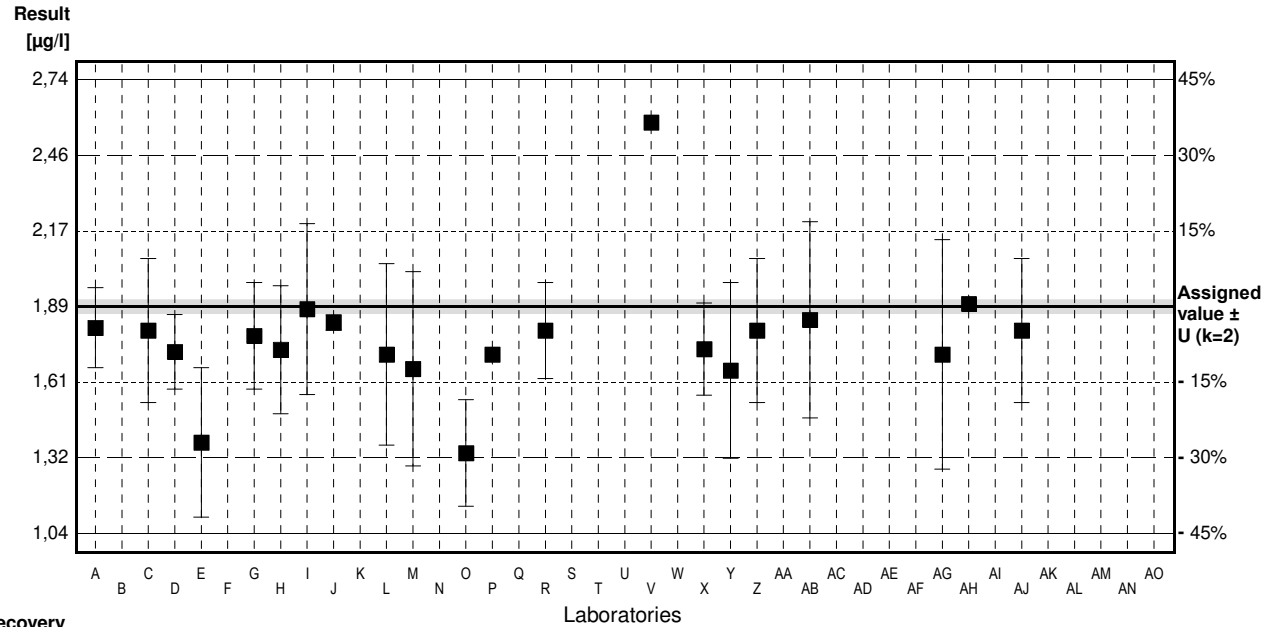
Sample M174A

Parameter Tin

Assigned value ± U (k=2) 1,89 µg/l ± 0,03 µg/l
 IFA result ± U (k=2) 1,80 µg/l ± 0,12 µg/l
 Stability test ± U (k=2) 1,80 µg/l ± 0,12 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A | 1.81 | 0.15 | µg/l | 96% | -0.50 |
| B | | | µg/l | | |
| C | 1.80 | 0.270 | µg/l | 95% | -0.57 |
| D | 1.72 | 0.14 | µg/l | 91% | -1.07 |
| E | 1.38 * | 0.28 | µg/l | 73% | -3.21 |
| F | | | µg/l | | |
| G | 1.78 | 0.20 | µg/l | 94% | -0.69 |
| H | 1.728 | 0.24 | µg/l | 91% | -1.02 |
| I | 1.88 | 0.32 | µg/l | 99% | -0.06 |
| J | 1.83 | 0.029 | µg/l | 97% | -0.38 |
| K | | | µg/l | | |
| L | 1.71 | 0.34 | µg/l | 90% | -1.13 |
| M | 1.656 | 0.364 | µg/l | 88% | -1.47 |
| N | | | µg/l | | |
| O | 1.34 * | 0.20 | µg/l | 71% | -3.46 |
| P | 1.71 | | µg/l | 90% | -1.13 |
| Q | | | µg/l | | |
| R | 1.80 | 0.18 | µg/l | 95% | -0.57 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | <10 | | µg/l | . | |
| V | 2.58 * | | µg/l | 137% | 4.35 |
| W | <10 | | µg/l | . | |
| X | 1.73 | 0.173 | µg/l | 92% | -1.01 |
| Y | 1.65 | 0.33 | µg/l | 87% | -1.51 |
| Z | 1.80 | 0.27 | µg/l | 95% | -0.57 |
| AA | | | µg/l | | |
| AB | 1.84 | 0.368 | µg/l | 97% | -0.31 |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | <10 | 1.7 | µg/l | . | |
| AF | | | µg/l | | |
| AG | 1.71 | 0.43 | µg/l | 90% | -1.13 |
| AH | 1.90 | | µg/l | 101% | 0.06 |
| AI | | | µg/l | | |
| AJ | 1.80 | 0.27 | µg/l | 95% | -0.57 |
| AK | | | µg/l | | |
| AL | <5 | | µg/l | . | |
| AM | | | µg/l | | |
| AN | | | µg/l | | |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 1,77 ± 0,14 | 1,77 ± 0,05 | µg/l |
| Recov. ± CI(99%) | 93,6 ± 7,6 | 93,6 ± 2,6 | % |
| SD between labs | 0,23 | 0,07 | µg/l |
| RSD between labs | 13,1 | 4,0 | % |
| n for calculation | 21 | 18 | |



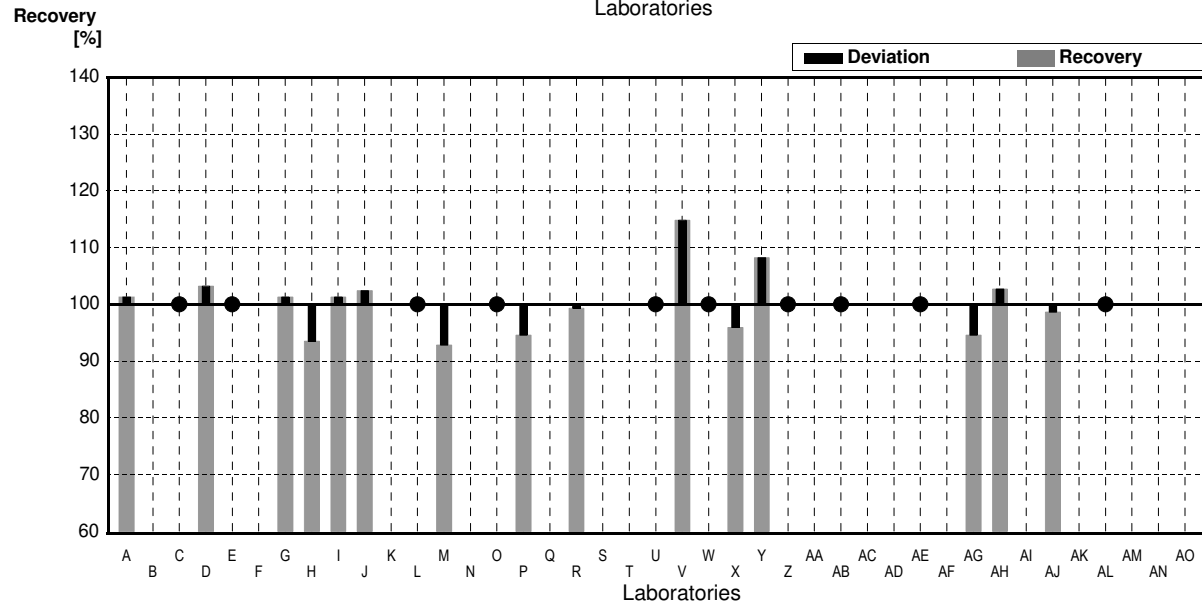
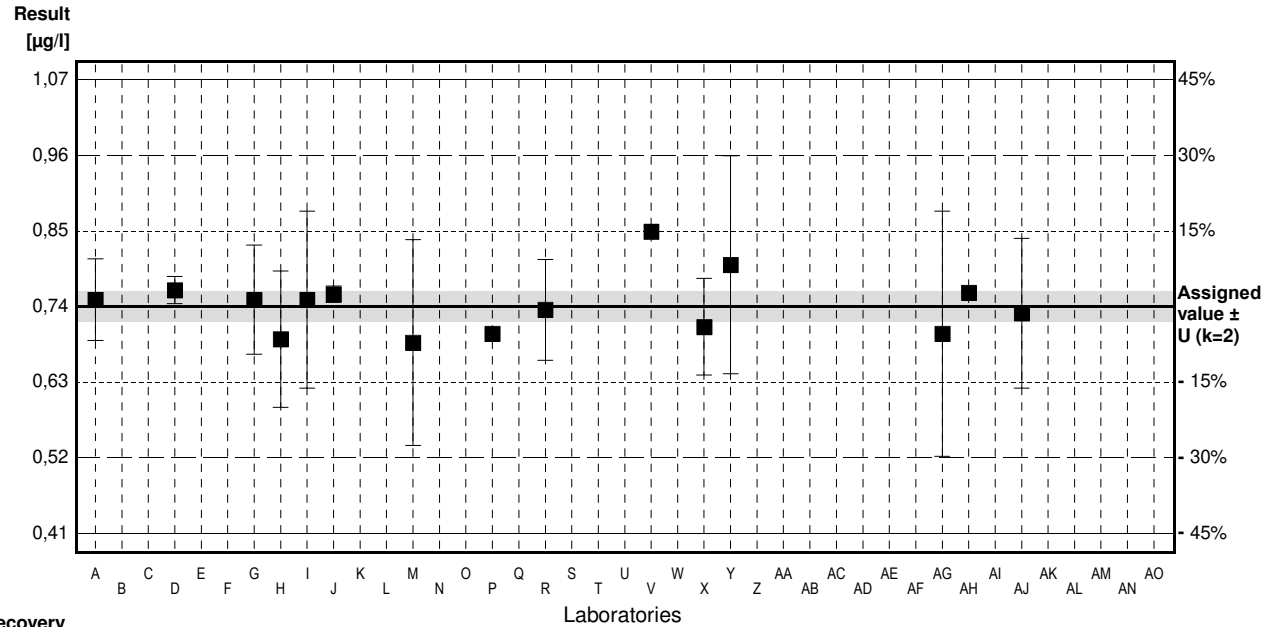
Sample M174B

Parameter Tin

Assigned value ± U (k=2) 0,74 µg/l ± 0,02 µg/l
 IFA result ± U (k=2) 0,72 µg/l ± 0,08 µg/l
 Stability test ± U (k=2) 0,69 µg/l ± 0,07 µg/l

| Lab Code | Result | ± | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A | 0,75 | 0,06 | µg/l | 101% | 0,16 |
| B | | | µg/l | | |
| C | <1,0 | | µg/l | • | |
| D | 0,764 | 0,02 | µg/l | 103% | 0,39 |
| E | <1 | | µg/l | • | |
| F | | | µg/l | | |
| G | 0,75 | 0,08 | µg/l | 101% | 0,16 |
| H | 0,692 | 0,10 | µg/l | 94% | -0,77 |
| I | 0,75 | 0,13 | µg/l | 101% | 0,16 |
| J | 0,758 | 0,012 | µg/l | 102% | 0,29 |
| K | | | µg/l | | |
| L | <1,0 | | µg/l | • | |
| M | 0,687 | 0,151 | µg/l | 93% | -0,85 |
| N | | | µg/l | | |
| O | <1,0 | | µg/l | • | |
| P | 0,70 | | µg/l | 95% | -0,64 |
| Q | | | µg/l | | |
| R | 0,735 | 0,074 | µg/l | 99% | -0,08 |
| S | | | µg/l | | |
| T | | | µg/l | | |
| U | <10 | | µg/l | • | |
| V | 0,85 | * | µg/l | 115% | 1,77 |
| W | <10 | | µg/l | • | |
| X | 0,71 | 0,071 | µg/l | 96% | -0,48 |
| Y | 0,801 | 0,160 | µg/l | 108% | 0,98 |
| Z | <1 | | µg/l | • | |
| AA | | | µg/l | | |
| AB | <1 | | µg/l | • | |
| AC | | | µg/l | | |
| AD | | | µg/l | | |
| AE | <10 | 1,7 | µg/l | • | |
| AF | | | µg/l | | |
| AG | 0,70 | 0,18 | µg/l | 95% | -0,64 |
| AH | 0,76 | | µg/l | 103% | 0,32 |
| AI | | | µg/l | | |
| AJ | 0,73 | 0,11 | µg/l | 99% | -0,16 |
| AK | | | µg/l | | |
| AL | <5 | | µg/l | • | |
| AM | | | µg/l | | |
| AN | | | µg/l | | |
| AO | | | µg/l | | |

| | All results | Outliers excl. | Unit |
|-------------------|-------------|----------------|------|
| Mean ± CI(99%) | 0,74 ± 0,03 | 0,73 ± 0,03 | µg/l |
| Recov. ± CI(99%) | 100,3 ± 4,5 | 99,3 ± 3,6 | % |
| SD between labs | 0,04 | 0,03 | µg/l |
| RSD between labs | 5,9 | 4,5 | % |
| n for calculation | 15 | 14 | |



Labororientierte Auswertung

Laboratory Oriented Part

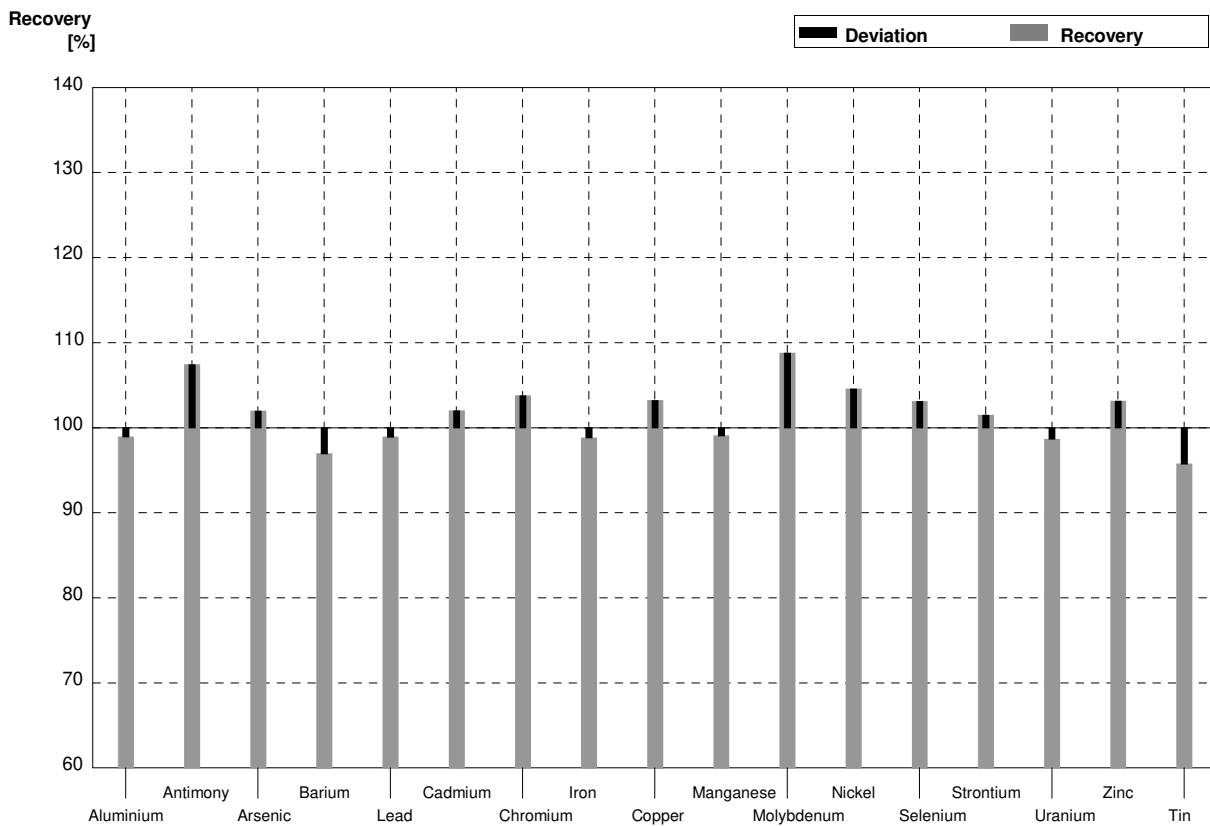
Eignungsprüfungsrunde / Proficiency testing round
M174

Metalle / Metals

Versand / Dispatch: 11.11.2024

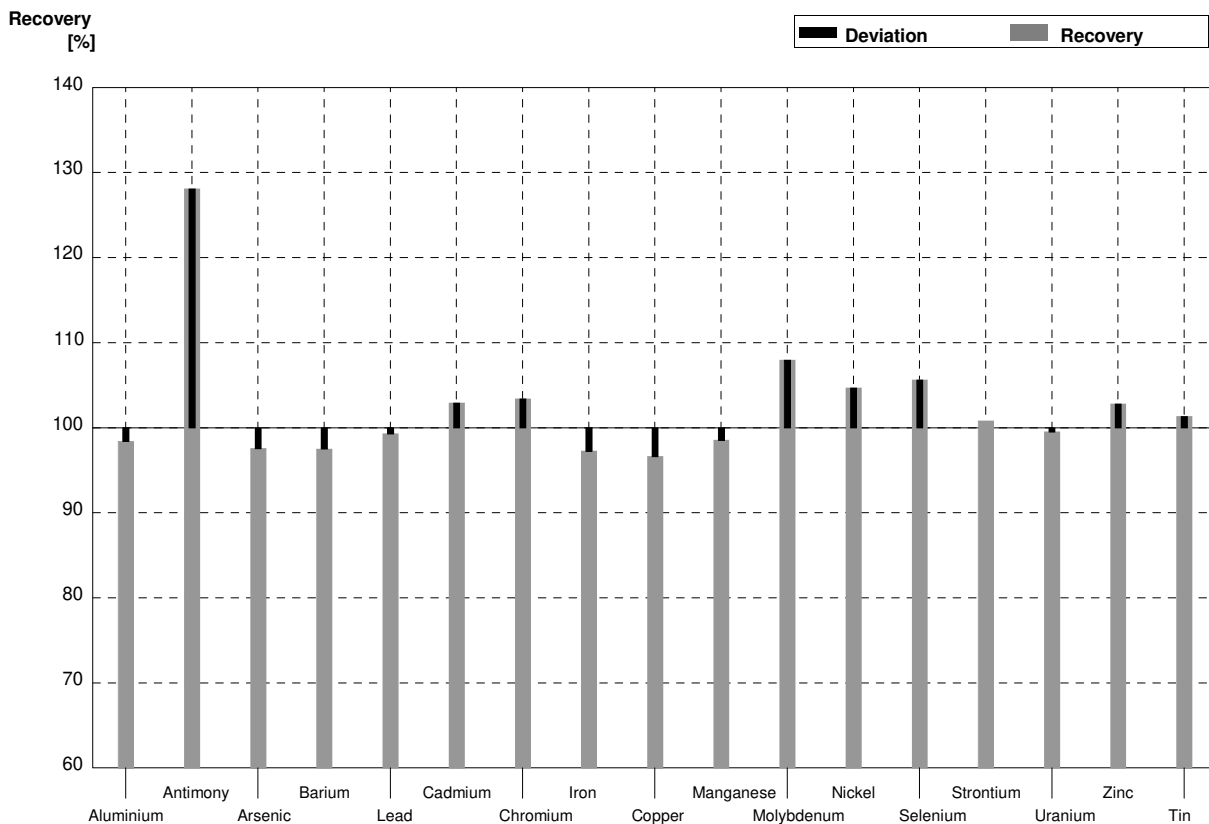
Sample M174A
Laboratory A

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,6 | 2,4 | $\mu\text{g/l}$ | 99% |
| Antimony | 1,210 | 0,018 | 1,30 | 0,14 | $\mu\text{g/l}$ | 107% |
| Arsenic | 5,02 | 0,03 | 5,12 | 0,6 | $\mu\text{g/l}$ | 102% |
| Barium | 25,06 | 0,13 | 24,3 | 1,8 | $\mu\text{g/l}$ | 97% |
| Lead | 2,79 | 0,03 | 2,76 | 0,17 | $\mu\text{g/l}$ | 99% |
| Cadmium | 0,398 | 0,006 | 0,406 | 0,033 | $\mu\text{g/l}$ | 102% |
| Chromium | 0,795 | 0,010 | 0,825 | 0,099 | $\mu\text{g/l}$ | 104% |
| Iron | 33,9 | 0,4 | 33,5 | 3,25 | $\mu\text{g/l}$ | 99% |
| Copper | 4,63 | 0,04 | 4,78 | 0,57 | $\mu\text{g/l}$ | 103% |
| Manganese | 8,57 | 0,14 | 8,49 | 0,72 | $\mu\text{g/l}$ | 99% |
| Molybdenum | 1,48 | 0,05 | 1,61 | 0,18 | $\mu\text{g/l}$ | 109% |
| Nickel | 2,84 | 0,03 | 2,97 | 0,51 | $\mu\text{g/l}$ | 105% |
| Selenium | 0,936 | 0,018 | 0,965 | 0,08 | $\mu\text{g/l}$ | 103% |
| Strontium | 339 | 3 | 344 | 30,3 | $\mu\text{g/l}$ | 101% |
| Uranium | 1,723 | 0,015 | 1,70 | 0,12 | $\mu\text{g/l}$ | 99% |
| Zinc | 28,7 | 2,5 | 29,6 | 2,3 | $\mu\text{g/l}$ | 103% |
| Tin | 1,89 | 0,03 | 1,81 | 0,15 | $\mu\text{g/l}$ | 96% |



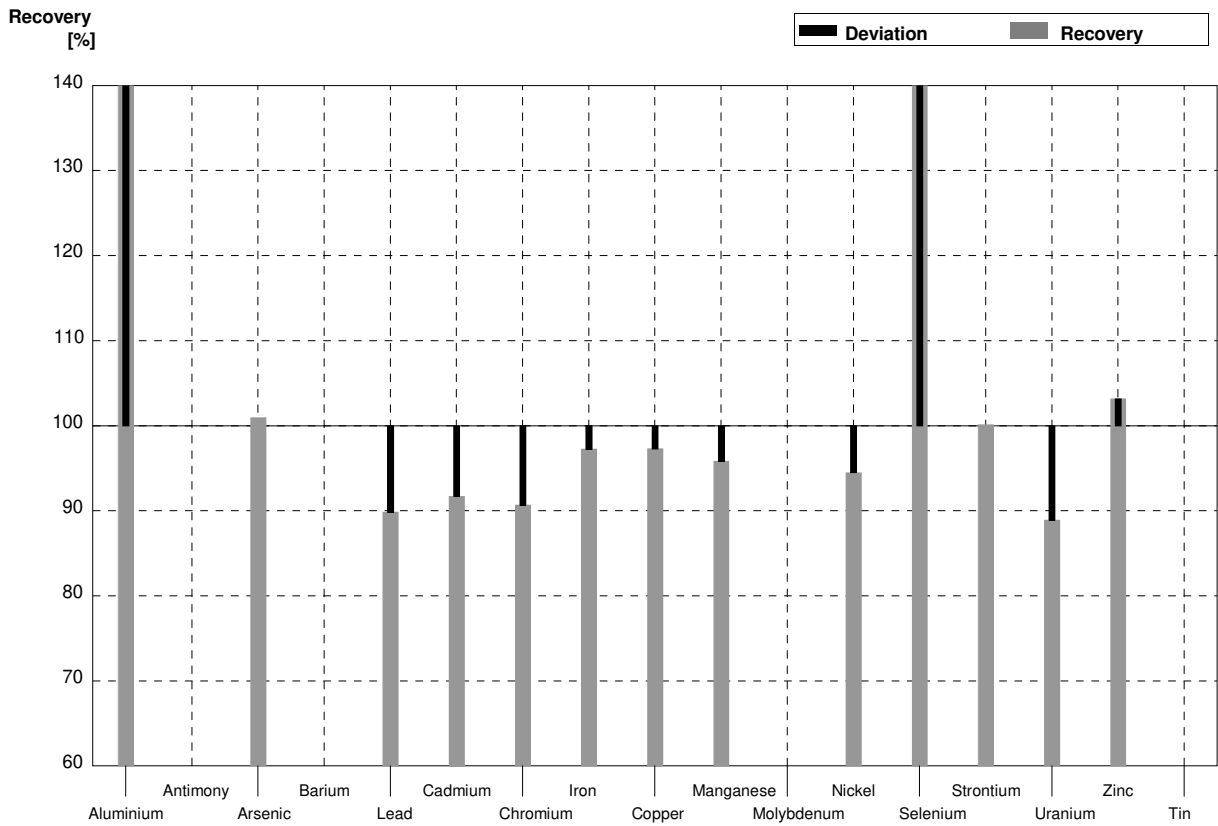
Sample M174B
Laboratory A

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 37,4 | 4,8 | $\mu\text{g/l}$ | 98% |
| Antimony | 0,445 | 0,015 | 0,57 | 0,06 | $\mu\text{g/l}$ | 128% |
| Arsenic | 1,804 | 0,015 | 1,76 | 0,20 | $\mu\text{g/l}$ | 98% |
| Barium | 60,3 | 0,2 | 58,8 | 4,4 | $\mu\text{g/l}$ | 98% |
| Lead | 7,08 | 0,04 | 7,03 | 0,44 | $\mu\text{g/l}$ | 99% |
| Cadmium | 1,030 | 0,011 | 1,06 | 0,09 | $\mu\text{g/l}$ | 103% |
| Chromium | 5,26 | 0,03 | 5,44 | 0,65 | $\mu\text{g/l}$ | 103% |
| Iron | 83,8 | 0,5 | 81,5 | 7,9 | $\mu\text{g/l}$ | 97% |
| Copper | 1,19 | 0,03 | 1,15 | 0,14 | $\mu\text{g/l}$ | 97% |
| Manganese | 21,92 | 0,18 | 21,6 | 1,8 | $\mu\text{g/l}$ | 99% |
| Molybdenum | 4,89 | 0,06 | 5,28 | 0,58 | $\mu\text{g/l}$ | 108% |
| Nickel | 3,63 | 0,03 | 3,80 | 0,65 | $\mu\text{g/l}$ | 105% |
| Selenium | 2,31 | 0,02 | 2,44 | 0,19 | $\mu\text{g/l}$ | 106% |
| Strontium | 864 | 8 | 871 | 76,6 | $\mu\text{g/l}$ | 101% |
| Uranium | 4,23 | 0,03 | 4,21 | 0,30 | $\mu\text{g/l}$ | 100% |
| Zinc | 57 | 2 | 58,6 | 4,6 | $\mu\text{g/l}$ | 103% |
| Tin | 0,74 | 0,02 | 0,75 | 0,06 | $\mu\text{g/l}$ | 101% |



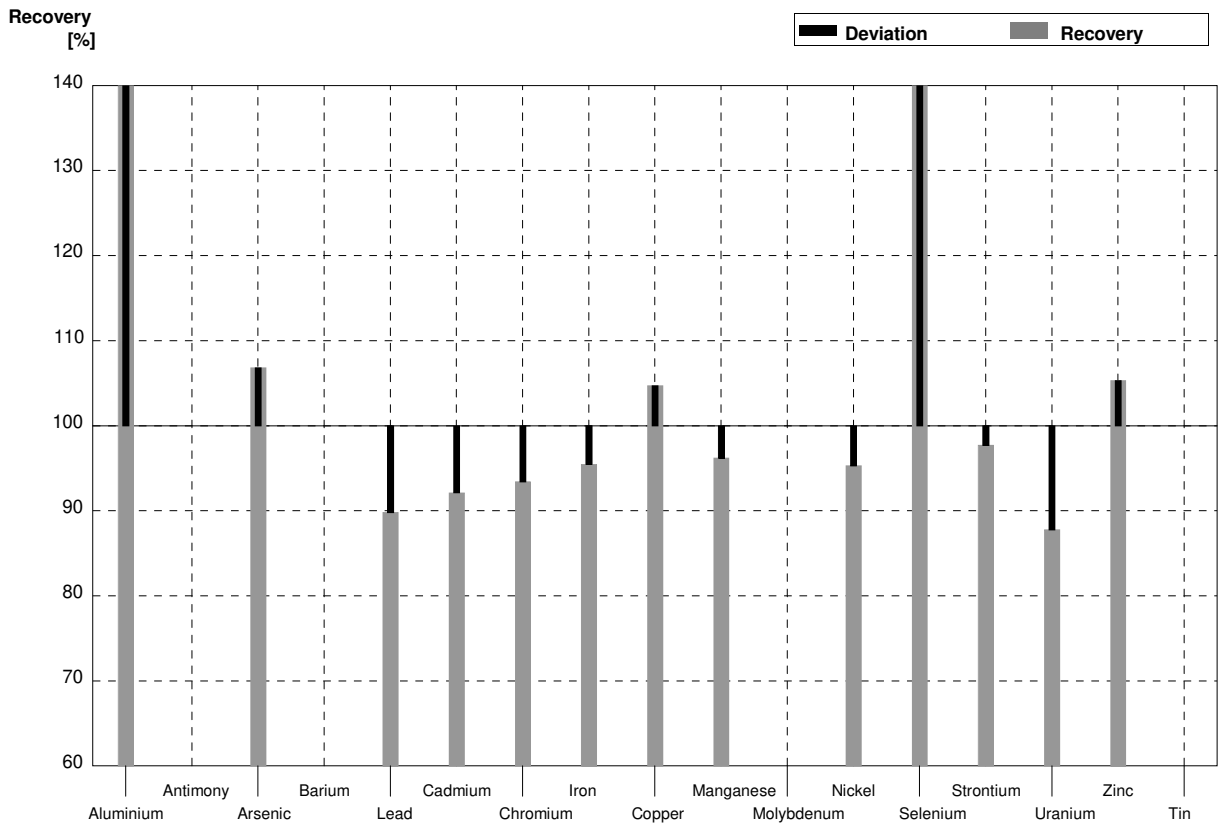
Sample M174A
Laboratory B

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 33,94 | 0,75 | $\mu\text{g/l}$ | 181% |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | 5,069 | 0,259 | $\mu\text{g/l}$ | 101% |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | 2,507 | 0,103 | $\mu\text{g/l}$ | 90% |
| Cadmium | 0,398 | 0,006 | 0,365 | 0,004 | $\mu\text{g/l}$ | 92% |
| Chromium | 0,795 | 0,010 | 0,721 | 0,068 | $\mu\text{g/l}$ | 91% |
| Iron | 33,9 | 0,4 | 32,97 | 0,59 | $\mu\text{g/l}$ | 97% |
| Copper | 4,63 | 0,04 | 4,505 | 0,187 | $\mu\text{g/l}$ | 97% |
| Manganese | 8,57 | 0,14 | 8,213 | 0,106 | $\mu\text{g/l}$ | 96% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | 2,684 | 0,095 | $\mu\text{g/l}$ | 95% |
| Selenium | 0,936 | 0,018 | 3,020 | 0,894 | $\mu\text{g/l}$ | 323% |
| Strontium | 339 | 3 | 339,5 | 13,1 | $\mu\text{g/l}$ | 100% |
| Uranium | 1,723 | 0,015 | 1,532 | 0,138 | $\mu\text{g/l}$ | 89% |
| Zinc | 28,7 | 2,5 | 29,61 | 0,70 | $\mu\text{g/l}$ | 103% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



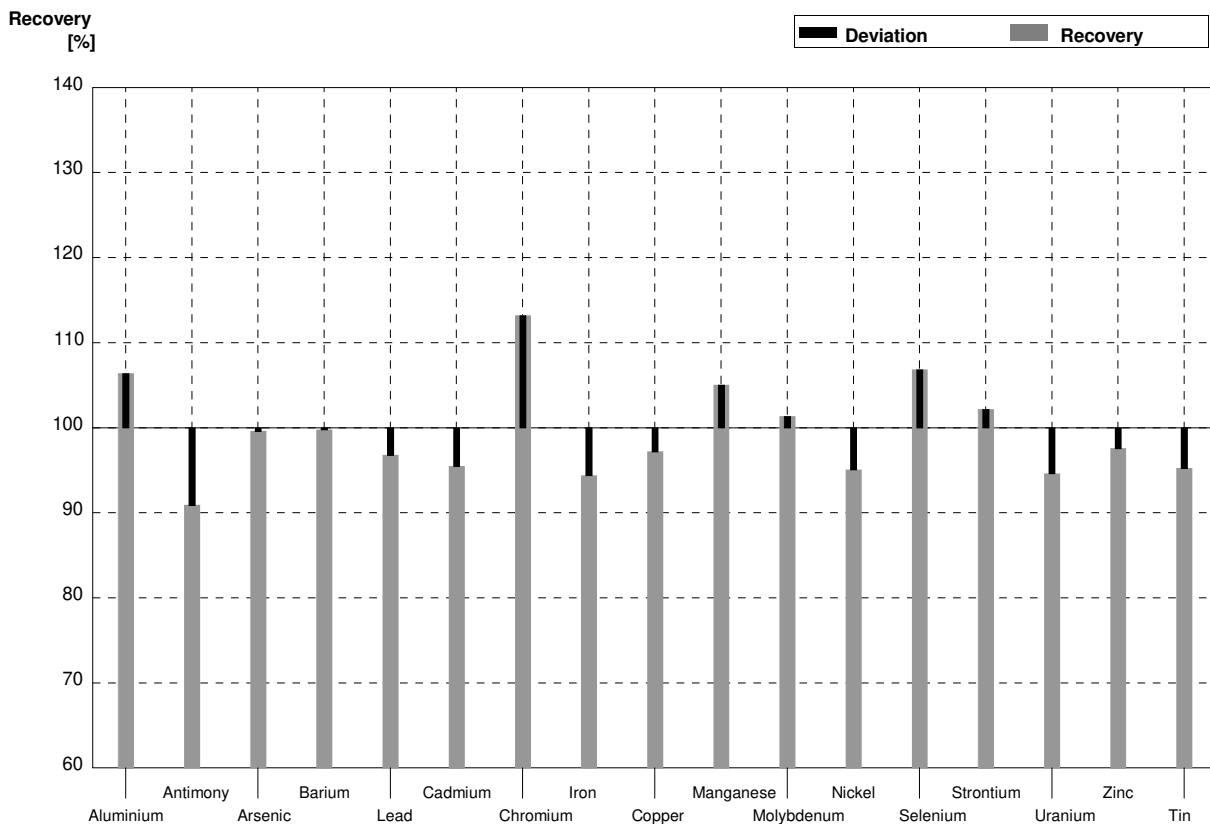
Sample M174B
Laboratory B

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 64,59 | 3,85 | µg/l | 170% |
| Antimony | 0,445 | 0,015 | | | µg/l | |
| Arsenic | 1,804 | 0,015 | 1,927 | 0,081 | µg/l | 107% |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | 6,359 | 0,253 | µg/l | 90% |
| Cadmium | 1,030 | 0,011 | 0,949 | 0,016 | µg/l | 92% |
| Chromium | 5,26 | 0,03 | 4,915 | 0,162 | µg/l | 93% |
| Iron | 83,8 | 0,5 | 80,01 | 1,39 | µg/l | 95% |
| Copper | 1,19 | 0,03 | 1,246 | 0,025 | µg/l | 105% |
| Manganese | 21,92 | 0,18 | 21,09 | 0,39 | µg/l | 96% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | 3,460 | 0,085 | µg/l | 95% |
| Selenium | 2,31 | 0,02 | 4,330 | 2,464 | µg/l | 187% |
| Strontium | 864 | 8 | 844,3 | 27,3 | µg/l | 98% |
| Uranium | 4,23 | 0,03 | 3,713 | 0,323 | µg/l | 88% |
| Zinc | 57 | 2 | 60,03 | 1,32 | µg/l | 105% |
| Tin | 0,74 | 0,02 | | | µg/l | |



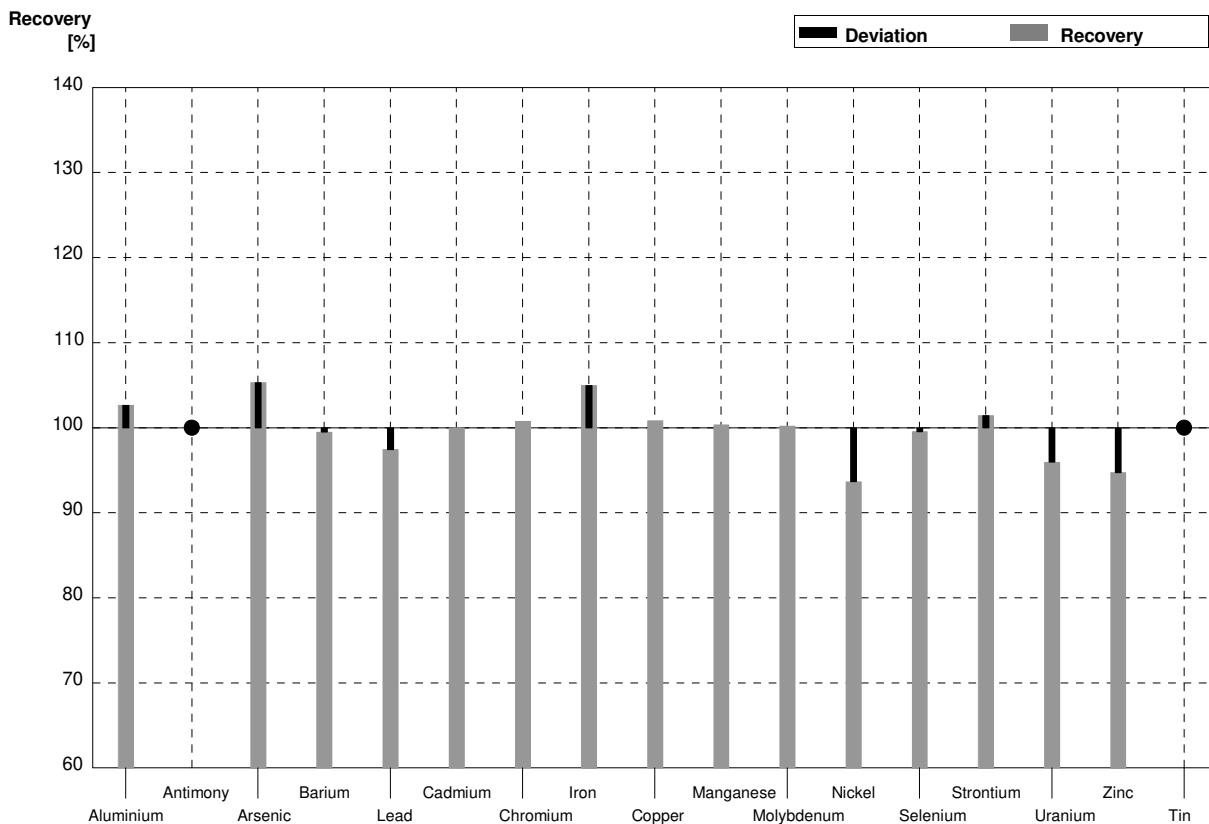
Sample M174A
Laboratory C

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 20,0 | 2,00 | $\mu\text{g/l}$ | 106% |
| Antimony | 1,210 | 0,018 | 1,10 | 0,17 | $\mu\text{g/l}$ | 91% |
| Arsenic | 5,02 | 0,03 | 5,00 | 0,60 | $\mu\text{g/l}$ | 100% |
| Barium | 25,06 | 0,13 | 25,0 | 3,80 | $\mu\text{g/l}$ | 100% |
| Lead | 2,79 | 0,03 | 2,70 | 0,216 | $\mu\text{g/l}$ | 97% |
| Cadmium | 0,398 | 0,006 | 0,380 | 0,0304 | $\mu\text{g/l}$ | 95% |
| Chromium | 0,795 | 0,010 | 0,90 | 0,108 | $\mu\text{g/l}$ | 113% |
| Iron | 33,9 | 0,4 | 32,0 | 8,32 | $\mu\text{g/l}$ | 94% |
| Copper | 4,63 | 0,04 | 4,50 | 0,360 | $\mu\text{g/l}$ | 97% |
| Manganese | 8,57 | 0,14 | 9,00 | 0,900 | $\mu\text{g/l}$ | 105% |
| Molybdenum | 1,48 | 0,05 | 1,50 | 0,230 | $\mu\text{g/l}$ | 101% |
| Nickel | 2,84 | 0,03 | 2,70 | 0,270 | $\mu\text{g/l}$ | 95% |
| Selenium | 0,936 | 0,018 | 1,00 | 0,150 | $\mu\text{g/l}$ | 107% |
| Strontium | 339 | 3 | 346,3 | 51,95 | $\mu\text{g/l}$ | 102% |
| Uranium | 1,723 | 0,015 | 1,63 | 0,082 | $\mu\text{g/l}$ | 95% |
| Zinc | 28,7 | 2,5 | 28,0 | 2,80 | $\mu\text{g/l}$ | 98% |
| Tin | 1,89 | 0,03 | 1,80 | 0,270 | $\mu\text{g/l}$ | 95% |



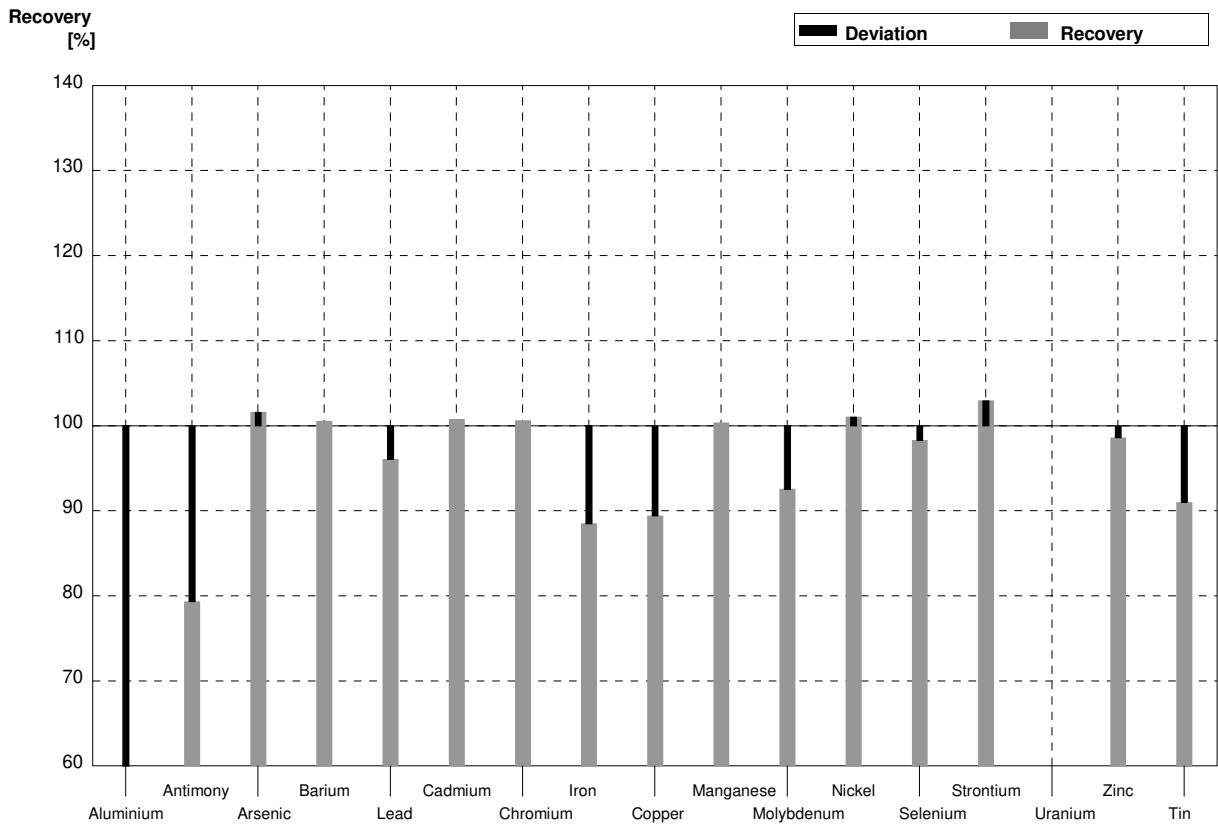
Sample M174B
Laboratory C

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 39,0 | 3,90 | $\mu\text{g/l}$ | 103% |
| Antimony | 0,445 | 0,015 | <0,5 | | $\mu\text{g/l}$ | • |
| Arsenic | 1,804 | 0,015 | 1,90 | 0,228 | $\mu\text{g/l}$ | 105% |
| Barium | 60,3 | 0,2 | 60,0 | 9,00 | $\mu\text{g/l}$ | 100% |
| Lead | 7,08 | 0,04 | 6,90 | 0,552 | $\mu\text{g/l}$ | 97% |
| Cadmium | 1,030 | 0,011 | 1,03 | 0,0824 | $\mu\text{g/l}$ | 100% |
| Chromium | 5,26 | 0,03 | 5,30 | 0,636 | $\mu\text{g/l}$ | 101% |
| Iron | 83,8 | 0,5 | 88,0 | 22,88 | $\mu\text{g/l}$ | 105% |
| Copper | 1,19 | 0,03 | 1,20 | 0,096 | $\mu\text{g/l}$ | 101% |
| Manganese | 21,92 | 0,18 | 22,0 | 2,20 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 4,89 | 0,06 | 4,90 | 0,740 | $\mu\text{g/l}$ | 100% |
| Nickel | 3,63 | 0,03 | 3,40 | 0,340 | $\mu\text{g/l}$ | 94% |
| Selenium | 2,31 | 0,02 | 2,30 | 0,345 | $\mu\text{g/l}$ | 100% |
| Strontium | 864 | 8 | 876,5 | 131,5 | $\mu\text{g/l}$ | 101% |
| Uranium | 4,23 | 0,03 | 4,06 | 0,203 | $\mu\text{g/l}$ | 96% |
| Zinc | 57 | 2 | 54,0 | 5,40 | $\mu\text{g/l}$ | 95% |
| Tin | 0,74 | 0,02 | <1,0 | | $\mu\text{g/l}$ | • |



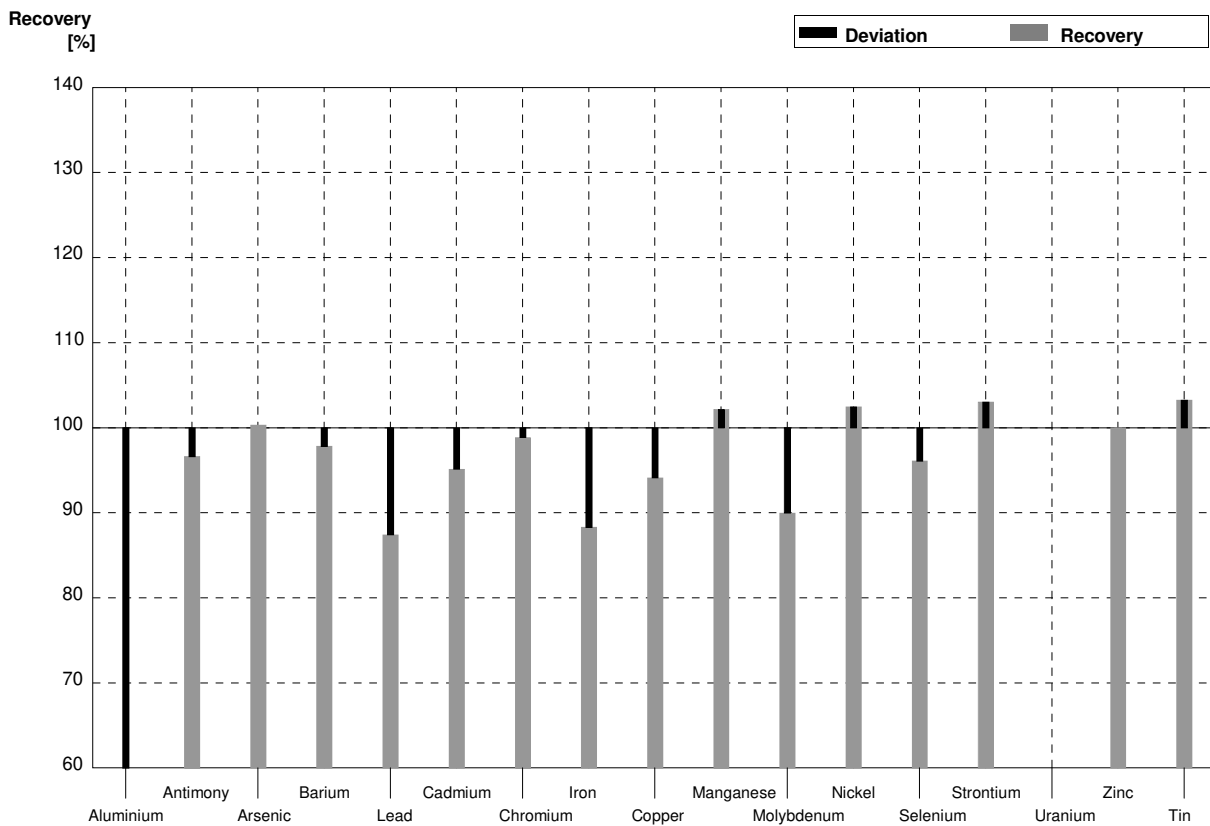
Sample M174A
Laboratory D

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 0,100 | 0,01 | $\mu\text{g/l}$ | 1% |
| Antimony | 1,210 | 0,018 | 0,960 | 0,06 | $\mu\text{g/l}$ | 79% |
| Arsenic | 5,02 | 0,03 | 5,1 | 0,33 | $\mu\text{g/l}$ | 102% |
| Barium | 25,06 | 0,13 | 25,2 | 1,64 | $\mu\text{g/l}$ | 101% |
| Lead | 2,79 | 0,03 | 2,68 | 0,18 | $\mu\text{g/l}$ | 96% |
| Cadmium | 0,398 | 0,006 | 0,401 | 0,03 | $\mu\text{g/l}$ | 101% |
| Chromium | 0,795 | 0,010 | 0,80 | 0,04 | $\mu\text{g/l}$ | 101% |
| Iron | 33,9 | 0,4 | 30,0 | 1,01 | $\mu\text{g/l}$ | 88% |
| Copper | 4,63 | 0,04 | 4,14 | 0,10 | $\mu\text{g/l}$ | 89% |
| Manganese | 8,57 | 0,14 | 8,6 | 0,26 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 1,48 | 0,05 | 1,37 | 0,09 | $\mu\text{g/l}$ | 93% |
| Nickel | 2,84 | 0,03 | 2,87 | 0,07 | $\mu\text{g/l}$ | 101% |
| Selenium | 0,936 | 0,018 | 0,92 | 0,06 | $\mu\text{g/l}$ | 98% |
| Strontium | 339 | 3 | 349 | 4,20 | $\mu\text{g/l}$ | 103% |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | 28,3 | 0,77 | $\mu\text{g/l}$ | 99% |
| Tin | 1,89 | 0,03 | 1,72 | 0,14 | $\mu\text{g/l}$ | 91% |



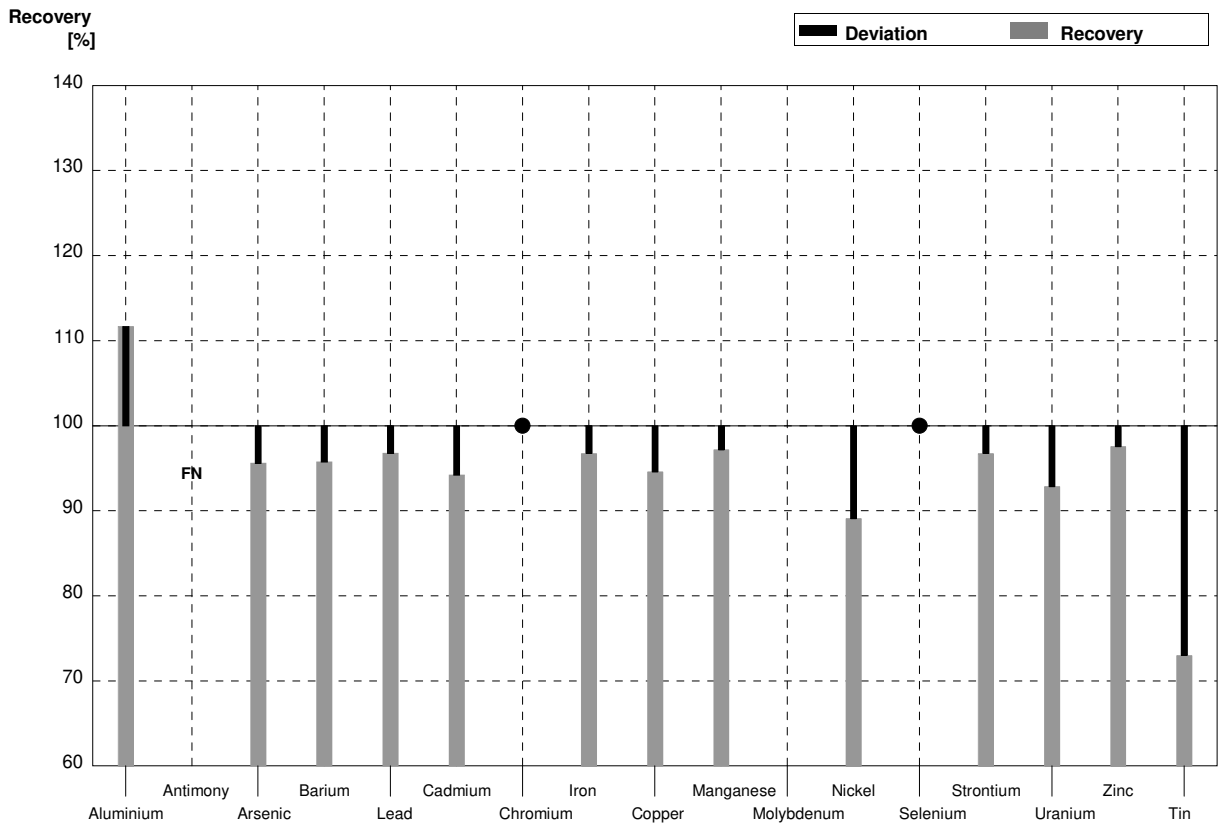
Sample M174B
Laboratory D

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 4,00 | 2,18 | µg/l | 11% |
| Antimony | 0,445 | 0,015 | 0,430 | 0,01 | µg/l | 97% |
| Arsenic | 1,804 | 0,015 | 1,81 | 0,04 | µg/l | 100% |
| Barium | 60,3 | 0,2 | 59 | 0,79 | µg/l | 98% |
| Lead | 7,08 | 0,04 | 6,19 | 0,09 | µg/l | 87% |
| Cadmium | 1,030 | 0,011 | 0,98 | 0,01 | µg/l | 95% |
| Chromium | 5,26 | 0,03 | 5,2 | 0,08 | µg/l | 99% |
| Iron | 83,8 | 0,5 | 74 | 0,84 | µg/l | 88% |
| Copper | 1,19 | 0,03 | 1,12 | 0,01 | µg/l | 94% |
| Manganese | 21,92 | 0,18 | 22,4 | 0,33 | µg/l | 102% |
| Molybdenum | 4,89 | 0,06 | 4,40 | 0,05 | µg/l | 90% |
| Nickel | 3,63 | 0,03 | 3,72 | 0,05 | µg/l | 102% |
| Selenium | 2,31 | 0,02 | 2,22 | 0,13 | µg/l | 96% |
| Strontium | 864 | 8 | 890 | 9,7 | µg/l | 103% |
| Uranium | 4,23 | 0,03 | | | µg/l | |
| Zinc | 57 | 2 | 57 | 0,49 | µg/l | 100% |
| Tin | 0,74 | 0,02 | 0,764 | 0,02 | µg/l | 103% |



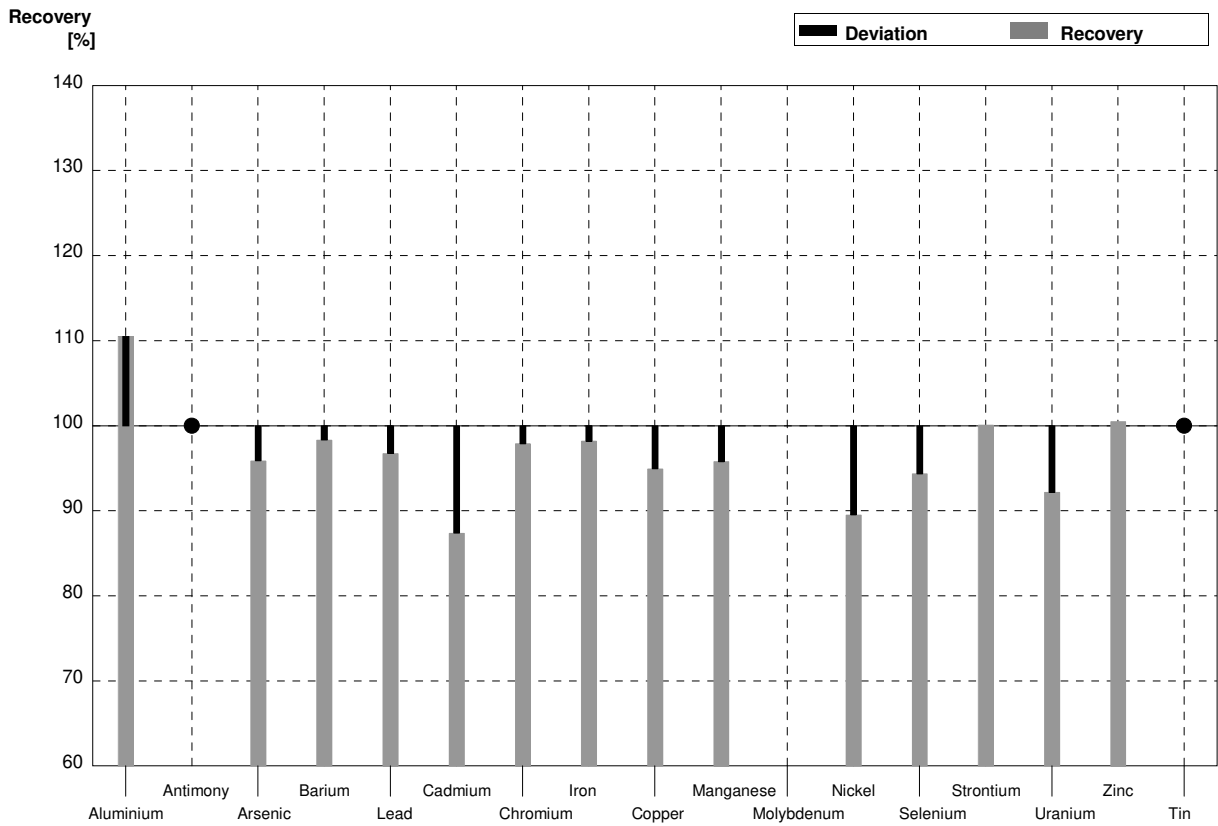
Sample M174A
Laboratory E

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 21,0 | 4,2 | $\mu\text{g/l}$ | 112% |
| Antimony | 1,210 | 0,018 | <1 | | $\mu\text{g/l}$ | FN |
| Arsenic | 5,02 | 0,03 | 4,80 | 0,96 | $\mu\text{g/l}$ | 96% |
| Barium | 25,06 | 0,13 | 24,0 | 4,8 | $\mu\text{g/l}$ | 96% |
| Lead | 2,79 | 0,03 | 2,70 | 0,54 | $\mu\text{g/l}$ | 97% |
| Cadmium | 0,398 | 0,006 | 0,375 | 0,075 | $\mu\text{g/l}$ | 94% |
| Chromium | 0,795 | 0,010 | <1 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 32,8 | 6,6 | $\mu\text{g/l}$ | 97% |
| Copper | 4,63 | 0,04 | 4,38 | 0,088 | $\mu\text{g/l}$ | 95% |
| Manganese | 8,57 | 0,14 | 8,33 | 1,7 | $\mu\text{g/l}$ | 97% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | 2,53 | 0,51 | $\mu\text{g/l}$ | 89% |
| Selenium | 0,936 | 0,018 | <1 | | $\mu\text{g/l}$ | • |
| Strontium | 339 | 3 | 328 | 66 | $\mu\text{g/l}$ | 97% |
| Uranium | 1,723 | 0,015 | 1,60 | 0,32 | $\mu\text{g/l}$ | 93% |
| Zinc | 28,7 | 2,5 | 28,0 | 5,6 | $\mu\text{g/l}$ | 98% |
| Tin | 1,89 | 0,03 | 1,38 | 0,28 | $\mu\text{g/l}$ | 73% |



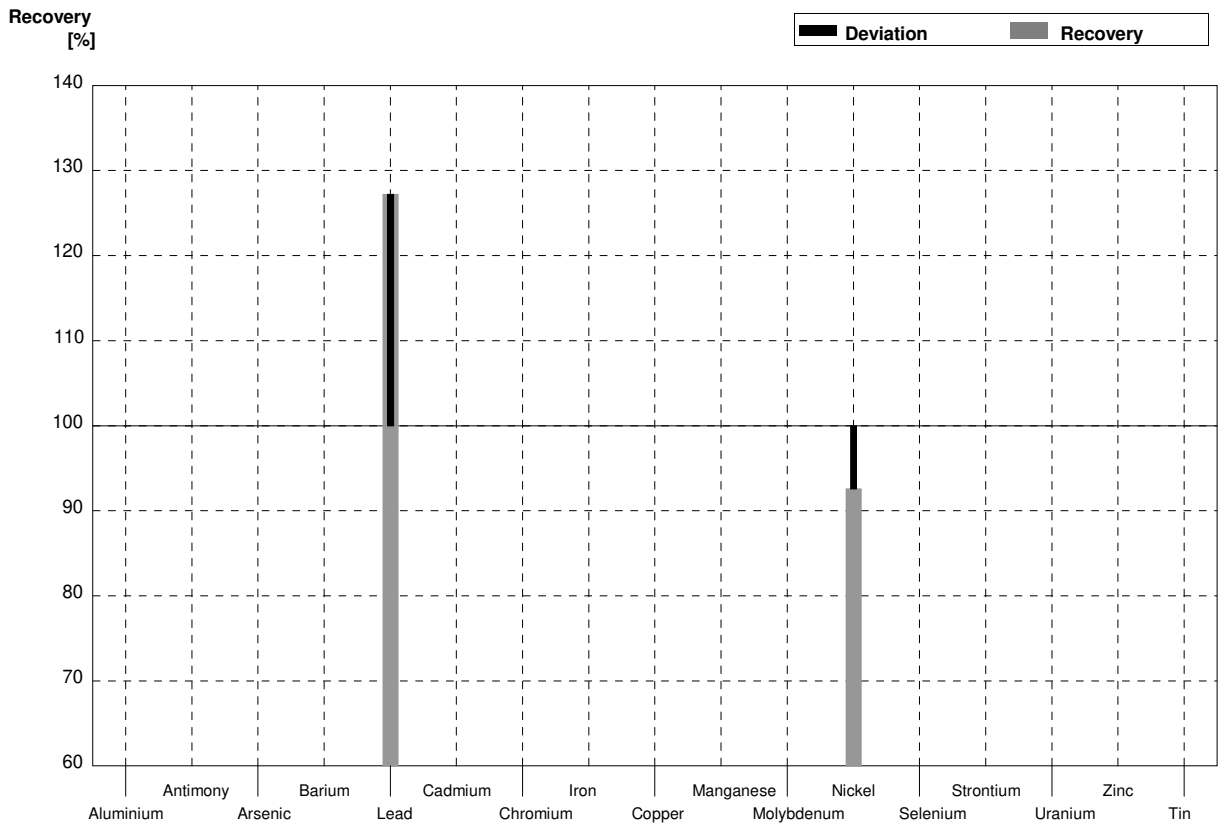
Sample M174B
Laboratory E

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 42,0 | 8,4 | µg/l | 111% |
| Antimony | 0,445 | 0,015 | <1 | | µg/l | • |
| Arsenic | 1,804 | 0,015 | 1,73 | 0,35 | µg/l | 96% |
| Barium | 60,3 | 0,2 | 59,3 | 12 | µg/l | 98% |
| Lead | 7,08 | 0,04 | 6,85 | 1,4 | µg/l | 97% |
| Cadmium | 1,030 | 0,011 | 0,900 | 0,18 | µg/l | 87% |
| Chromium | 5,26 | 0,03 | 5,15 | 1,0 | µg/l | 98% |
| Iron | 83,8 | 0,5 | 82,3 | 16 | µg/l | 98% |
| Copper | 1,19 | 0,03 | 1,13 | 0,23 | µg/l | 95% |
| Manganese | 21,92 | 0,18 | 21,0 | 4,2 | µg/l | 96% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | 3,25 | 0,65 | µg/l | 90% |
| Selenium | 2,31 | 0,02 | 2,18 | 0,44 | µg/l | 94% |
| Strontium | 864 | 8 | 865 | 173 | µg/l | 100% |
| Uranium | 4,23 | 0,03 | 3,90 | 0,78 | µg/l | 92% |
| Zinc | 57 | 2 | 57,3 | 11 | µg/l | 101% |
| Tin | 0,74 | 0,02 | <1 | | µg/l | • |



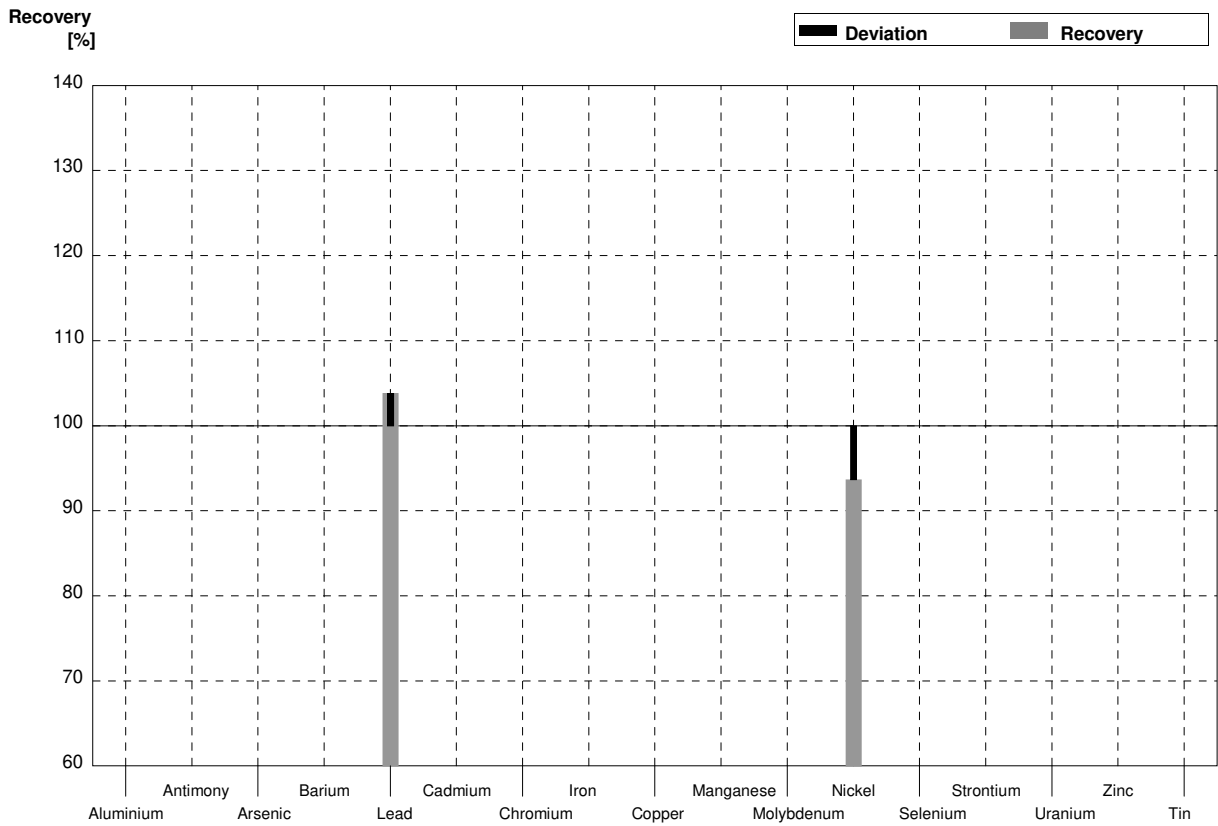
Sample M174A
Laboratory F

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | | | $\mu\text{g/l}$ | |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | 3,55 | 0,40 | $\mu\text{g/l}$ | 127% |
| Cadmium | 0,398 | 0,006 | | | $\mu\text{g/l}$ | |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | | | $\mu\text{g/l}$ | |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | | | $\mu\text{g/l}$ | |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | 2,63 | 0,30 | $\mu\text{g/l}$ | 93% |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | | | $\mu\text{g/l}$ | |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



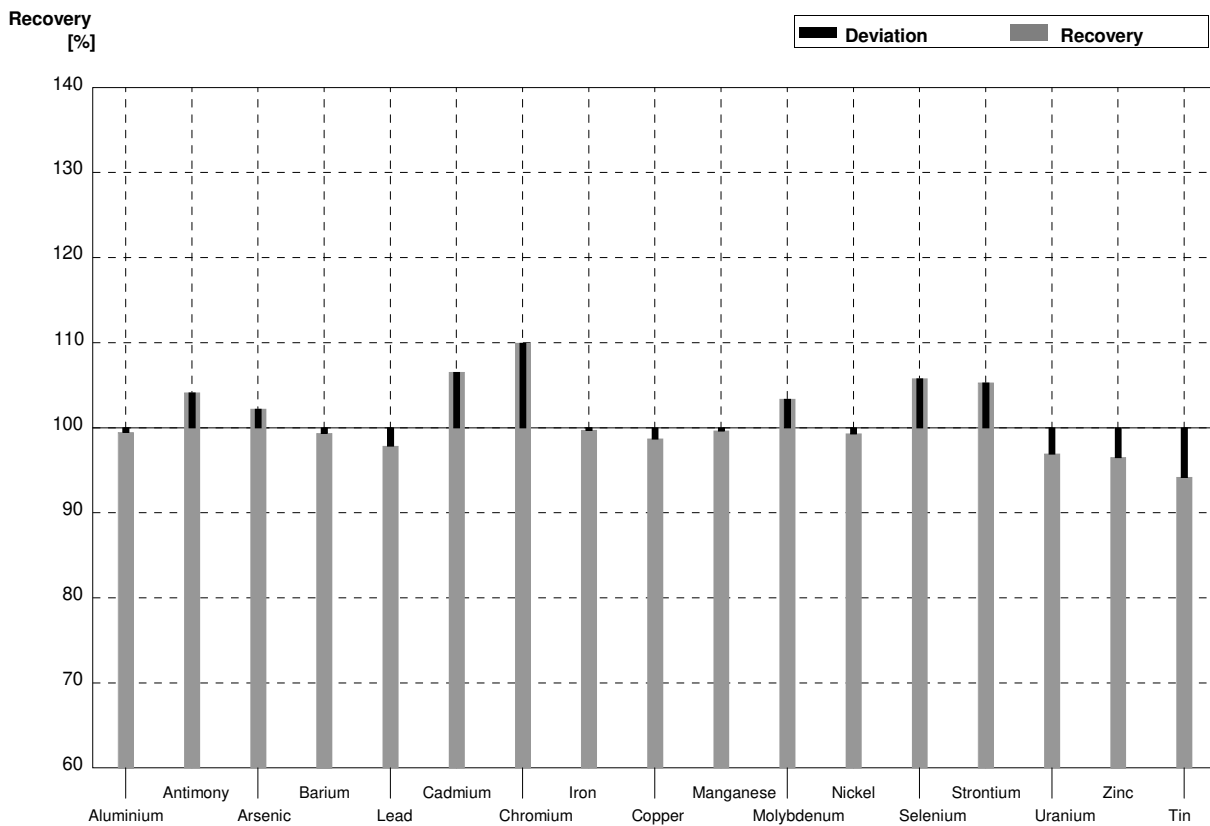
Sample M174B
Laboratory F

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | | | $\mu\text{g/l}$ | |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | | | $\mu\text{g/l}$ | |
| Lead | 7,08 | 0,04 | 7,35 | 0,70 | $\mu\text{g/l}$ | 104% |
| Cadmium | 1,030 | 0,011 | | | $\mu\text{g/l}$ | |
| Chromium | 5,26 | 0,03 | | | $\mu\text{g/l}$ | |
| Iron | 83,8 | 0,5 | | | $\mu\text{g/l}$ | |
| Copper | 1,19 | 0,03 | | | $\mu\text{g/l}$ | |
| Manganese | 21,92 | 0,18 | | | $\mu\text{g/l}$ | |
| Molybdenum | 4,89 | 0,06 | | | $\mu\text{g/l}$ | |
| Nickel | 3,63 | 0,03 | 3,40 | 0,30 | $\mu\text{g/l}$ | 94% |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | | | $\mu\text{g/l}$ | |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | | | $\mu\text{g/l}$ | |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



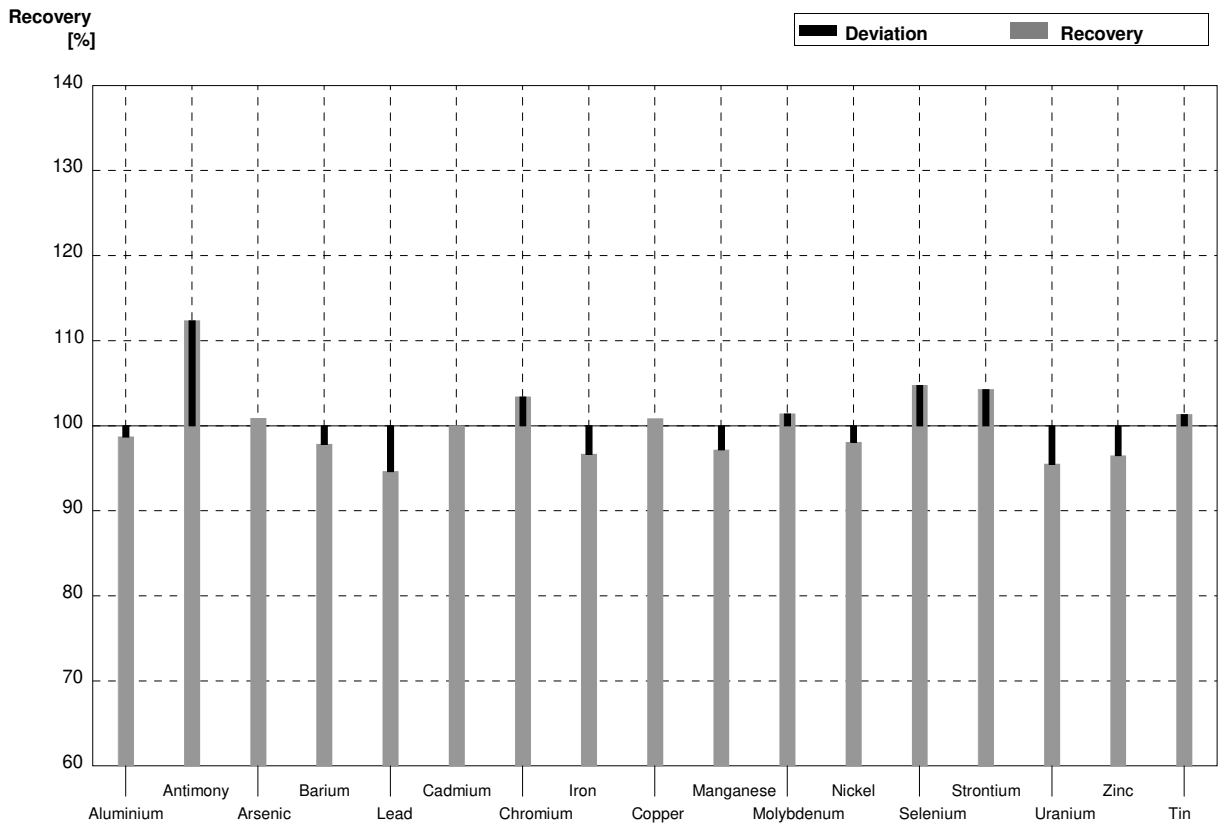
Sample M174A
Laboratory G

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,7 | 1,3 | $\mu\text{g/l}$ | 99% |
| Antimony | 1,210 | 0,018 | 1,26 | 0,08 | $\mu\text{g/l}$ | 104% |
| Arsenic | 5,02 | 0,03 | 5,13 | 0,61 | $\mu\text{g/l}$ | 102% |
| Barium | 25,06 | 0,13 | 24,9 | 2,7 | $\mu\text{g/l}$ | 99% |
| Lead | 2,79 | 0,03 | 2,73 | 0,16 | $\mu\text{g/l}$ | 98% |
| Cadmium | 0,398 | 0,006 | 0,424 | 0,025 | $\mu\text{g/l}$ | 107% |
| Chromium | 0,795 | 0,010 | 0,874 | 0,057 | $\mu\text{g/l}$ | 110% |
| Iron | 33,9 | 0,4 | 33,8 | 2,8 | $\mu\text{g/l}$ | 100% |
| Copper | 4,63 | 0,04 | 4,57 | 0,41 | $\mu\text{g/l}$ | 99% |
| Manganese | 8,57 | 0,14 | 8,54 | 0,60 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 1,48 | 0,05 | 1,53 | 0,16 | $\mu\text{g/l}$ | 103% |
| Nickel | 2,84 | 0,03 | 2,82 | 0,18 | $\mu\text{g/l}$ | 99% |
| Selenium | 0,936 | 0,018 | 0,99 | 0,11 | $\mu\text{g/l}$ | 106% |
| Strontium | 339 | 3 | 357 | 39 | $\mu\text{g/l}$ | 105% |
| Uranium | 1,723 | 0,015 | 1,67 | 0,20 | $\mu\text{g/l}$ | 97% |
| Zinc | 28,7 | 2,5 | 27,7 | 3,60 | $\mu\text{g/l}$ | 97% |
| Tin | 1,89 | 0,03 | 1,78 | 0,20 | $\mu\text{g/l}$ | 94% |



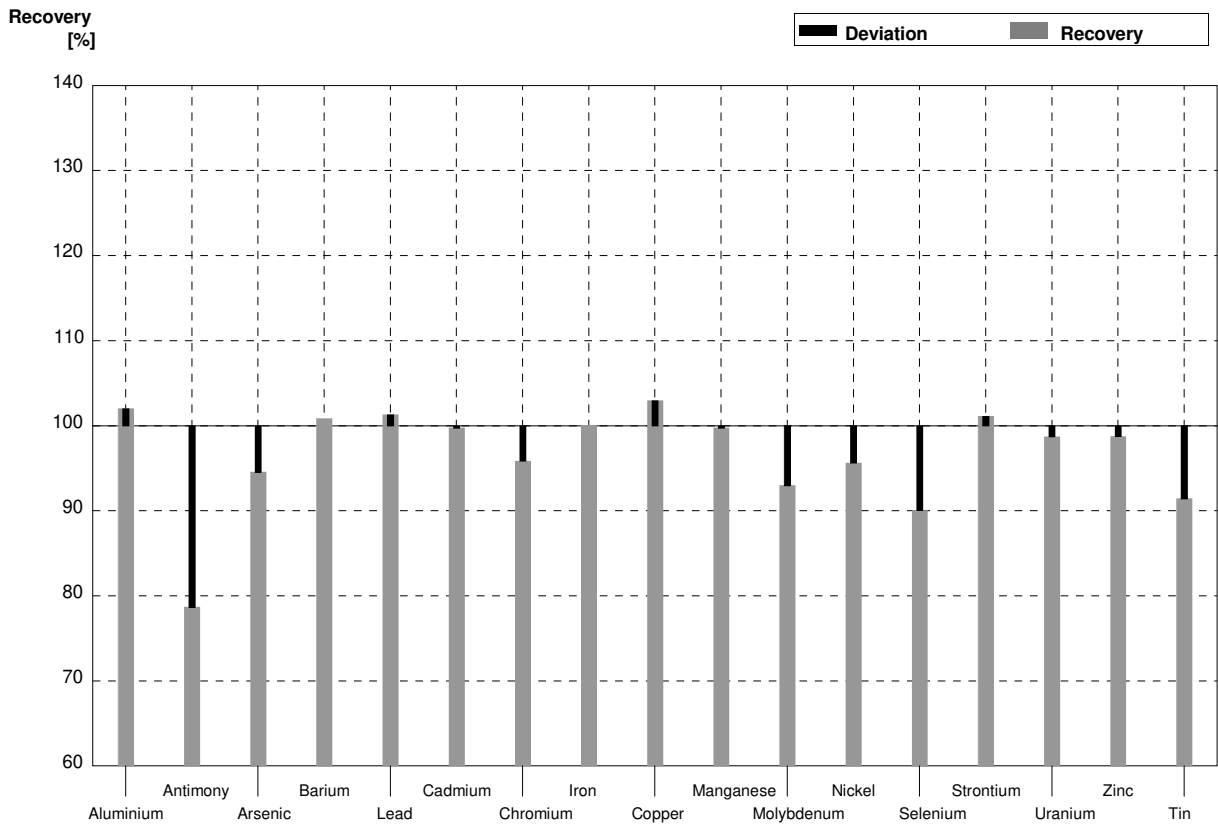
Sample M174B
Laboratory G

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 37,5 | 2,7 | $\mu\text{g/l}$ | 99% |
| Antimony | 0,445 | 0,015 | 0,50 | 0,03 | $\mu\text{g/l}$ | 112% |
| Arsenic | 1,804 | 0,015 | 1,82 | 0,22 | $\mu\text{g/l}$ | 101% |
| Barium | 60,3 | 0,2 | 59 | 6,5 | $\mu\text{g/l}$ | 98% |
| Lead | 7,08 | 0,04 | 6,70 | 0,40 | $\mu\text{g/l}$ | 95% |
| Cadmium | 1,030 | 0,011 | 1,03 | 0,06 | $\mu\text{g/l}$ | 100% |
| Chromium | 5,26 | 0,03 | 5,44 | 0,35 | $\mu\text{g/l}$ | 103% |
| Iron | 83,8 | 0,5 | 81 | 6,7 | $\mu\text{g/l}$ | 97% |
| Copper | 1,19 | 0,03 | 1,20 | 0,11 | $\mu\text{g/l}$ | 101% |
| Manganese | 21,92 | 0,18 | 21,3 | 1,5 | $\mu\text{g/l}$ | 97% |
| Molybdenum | 4,89 | 0,06 | 4,96 | 0,55 | $\mu\text{g/l}$ | 101% |
| Nickel | 3,63 | 0,03 | 3,56 | 0,22 | $\mu\text{g/l}$ | 98% |
| Selenium | 2,31 | 0,02 | 2,42 | 0,27 | $\mu\text{g/l}$ | 105% |
| Strontium | 864 | 8 | 901 | 99 | $\mu\text{g/l}$ | 104% |
| Uranium | 4,23 | 0,03 | 4,04 | 0,49 | $\mu\text{g/l}$ | 96% |
| Zinc | 57 | 2 | 55 | 7,2 | $\mu\text{g/l}$ | 96% |
| Tin | 0,74 | 0,02 | 0,75 | 0,08 | $\mu\text{g/l}$ | 101% |



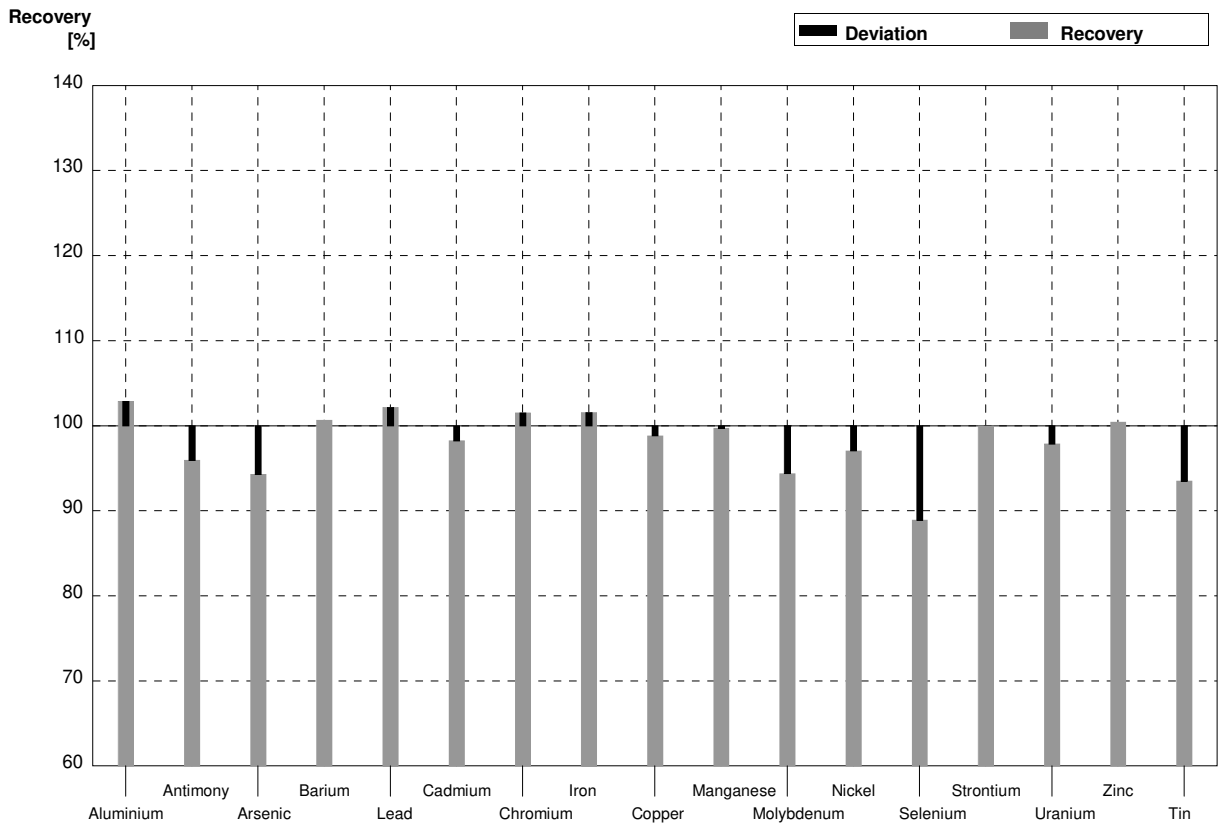
Sample M174A
Laboratory H

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 19,18 | 3,11 | $\mu\text{g/l}$ | 102% |
| Antimony | 1,210 | 0,018 | 0,952 | 0,09 | $\mu\text{g/l}$ | 79% |
| Arsenic | 5,02 | 0,03 | 4,746 | 0,47 | $\mu\text{g/l}$ | 95% |
| Barium | 25,06 | 0,13 | 25,27 | 2,07 | $\mu\text{g/l}$ | 101% |
| Lead | 2,79 | 0,03 | 2,826 | 0,34 | $\mu\text{g/l}$ | 101% |
| Cadmium | 0,398 | 0,006 | 0,397 | 0,03 | $\mu\text{g/l}$ | 100% |
| Chromium | 0,795 | 0,010 | 0,762 | 0,06 | $\mu\text{g/l}$ | 96% |
| Iron | 33,9 | 0,4 | 33,92 | 3,46 | $\mu\text{g/l}$ | 100% |
| Copper | 4,63 | 0,04 | 4,767 | 0,53 | $\mu\text{g/l}$ | 103% |
| Manganese | 8,57 | 0,14 | 8,549 | 0,71 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 1,48 | 0,05 | 1,376 | 0,23 | $\mu\text{g/l}$ | 93% |
| Nickel | 2,84 | 0,03 | 2,716 | 0,26 | $\mu\text{g/l}$ | 96% |
| Selenium | 0,936 | 0,018 | 0,843 | 0,08 | $\mu\text{g/l}$ | 90% |
| Strontium | 339 | 3 | 342,8 | 42,5 | $\mu\text{g/l}$ | 101% |
| Uranium | 1,723 | 0,015 | 1,701 | 0,24 | $\mu\text{g/l}$ | 99% |
| Zinc | 28,7 | 2,5 | 28,34 | 5,02 | $\mu\text{g/l}$ | 99% |
| Tin | 1,89 | 0,03 | 1,728 | 0,24 | $\mu\text{g/l}$ | 91% |



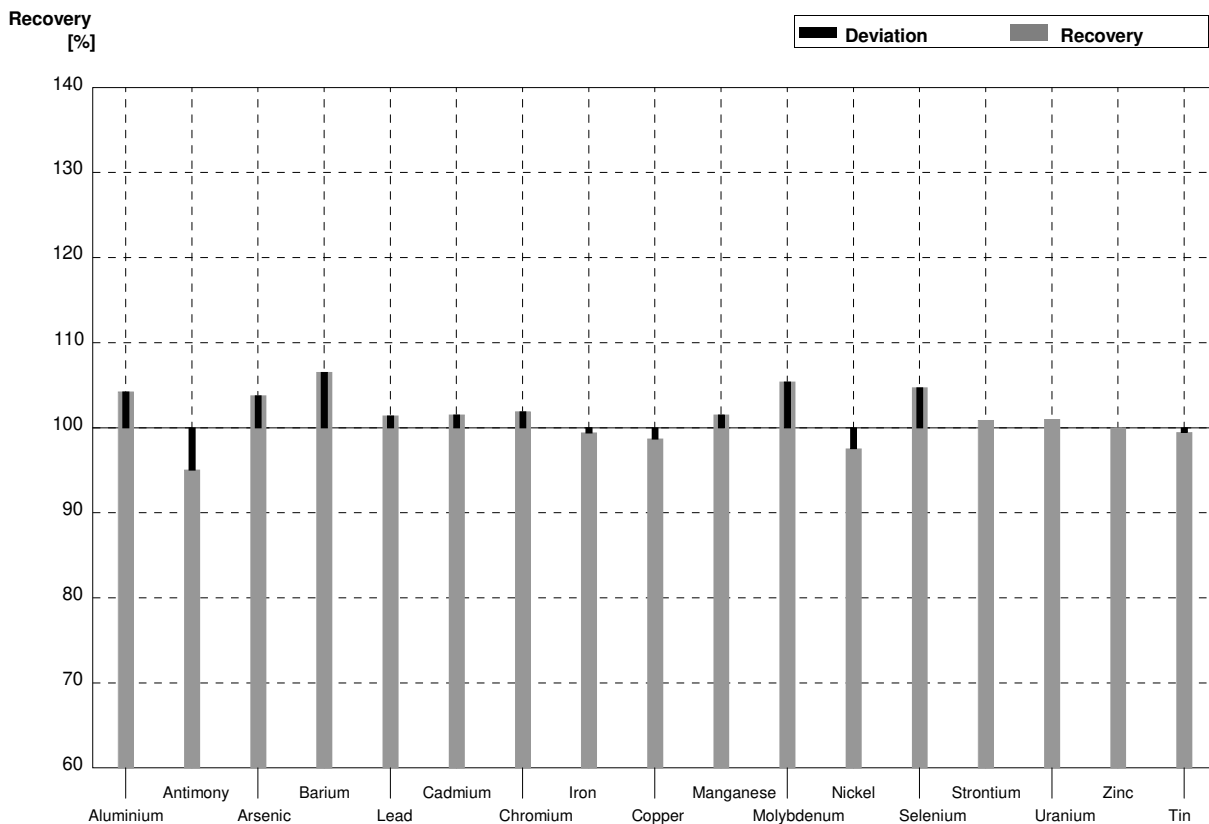
Sample M174B
Laboratory H

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 39,09 | 6,33 | $\mu\text{g/l}$ | 103% |
| Antimony | 0,445 | 0,015 | 0,427 | 0,04 | $\mu\text{g/l}$ | 96% |
| Arsenic | 1,804 | 0,015 | 1,701 | 0,17 | $\mu\text{g/l}$ | 94% |
| Barium | 60,3 | 0,2 | 60,70 | 4,98 | $\mu\text{g/l}$ | 101% |
| Lead | 7,08 | 0,04 | 7,232 | 0,88 | $\mu\text{g/l}$ | 102% |
| Cadmium | 1,030 | 0,011 | 1,012 | 0,09 | $\mu\text{g/l}$ | 98% |
| Chromium | 5,26 | 0,03 | 5,341 | 0,39 | $\mu\text{g/l}$ | 102% |
| Iron | 83,8 | 0,5 | 85,10 | 8,68 | $\mu\text{g/l}$ | 102% |
| Copper | 1,19 | 0,03 | 1,176 | 0,13 | $\mu\text{g/l}$ | 99% |
| Manganese | 21,92 | 0,18 | 21,86 | 1,81 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 4,89 | 0,06 | 4,616 | 0,78 | $\mu\text{g/l}$ | 94% |
| Nickel | 3,63 | 0,03 | 3,523 | 0,34 | $\mu\text{g/l}$ | 97% |
| Selenium | 2,31 | 0,02 | 2,054 | 0,21 | $\mu\text{g/l}$ | 89% |
| Strontium | 864 | 8 | 863,9 | 107,1 | $\mu\text{g/l}$ | 100% |
| Uranium | 4,23 | 0,03 | 4,140 | 0,59 | $\mu\text{g/l}$ | 98% |
| Zinc | 57 | 2 | 57,24 | 10,13 | $\mu\text{g/l}$ | 100% |
| Tin | 0,74 | 0,02 | 0,692 | 0,10 | $\mu\text{g/l}$ | 94% |



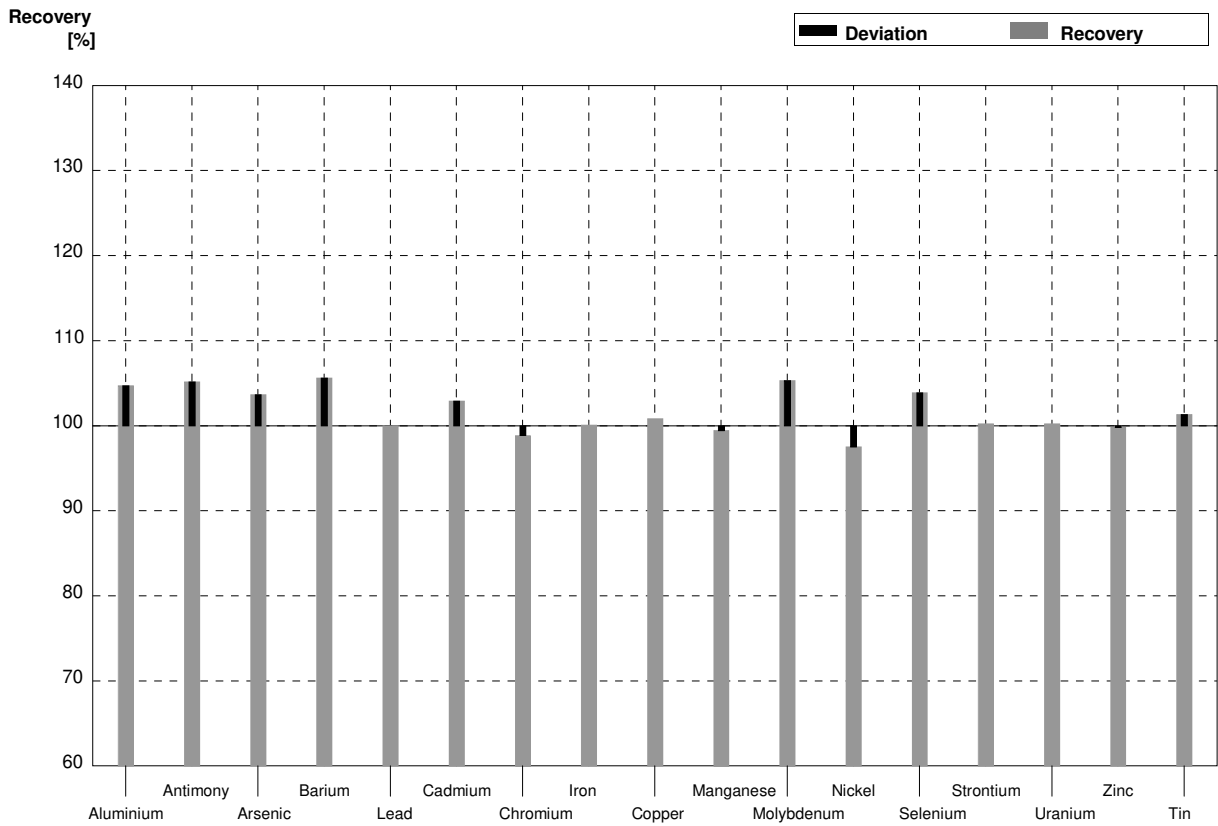
Sample M174A
Laboratory I

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 19,6 | 3,3 | $\mu\text{g/l}$ | 104% |
| Antimony | 1,210 | 0,018 | 1,15 | 0,16 | $\mu\text{g/l}$ | 95% |
| Arsenic | 5,02 | 0,03 | 5,21 | 0,89 | $\mu\text{g/l}$ | 104% |
| Barium | 25,06 | 0,13 | 26,7 | 2,7 | $\mu\text{g/l}$ | 107% |
| Lead | 2,79 | 0,03 | 2,83 | 0,34 | $\mu\text{g/l}$ | 101% |
| Cadmium | 0,398 | 0,006 | 0,404 | 0,048 | $\mu\text{g/l}$ | 102% |
| Chromium | 0,795 | 0,010 | 0,81 | 0,15 | $\mu\text{g/l}$ | 102% |
| Iron | 33,9 | 0,4 | 33,7 | 6,1 | $\mu\text{g/l}$ | 99% |
| Copper | 4,63 | 0,04 | 4,57 | 0,50 | $\mu\text{g/l}$ | 99% |
| Manganese | 8,57 | 0,14 | 8,7 | 1,3 | $\mu\text{g/l}$ | 102% |
| Molybdenum | 1,48 | 0,05 | 1,56 | 0,20 | $\mu\text{g/l}$ | 105% |
| Nickel | 2,84 | 0,03 | 2,77 | 0,64 | $\mu\text{g/l}$ | 98% |
| Selenium | 0,936 | 0,018 | 0,98 | 0,33 | $\mu\text{g/l}$ | 105% |
| Strontium | 339 | 3 | 342 | 48 | $\mu\text{g/l}$ | 101% |
| Uranium | 1,723 | 0,015 | 1,74 | 0,35 | $\mu\text{g/l}$ | 101% |
| Zinc | 28,7 | 2,5 | 28,7 | 4,6 | $\mu\text{g/l}$ | 100% |
| Tin | 1,89 | 0,03 | 1,88 | 0,32 | $\mu\text{g/l}$ | 99% |



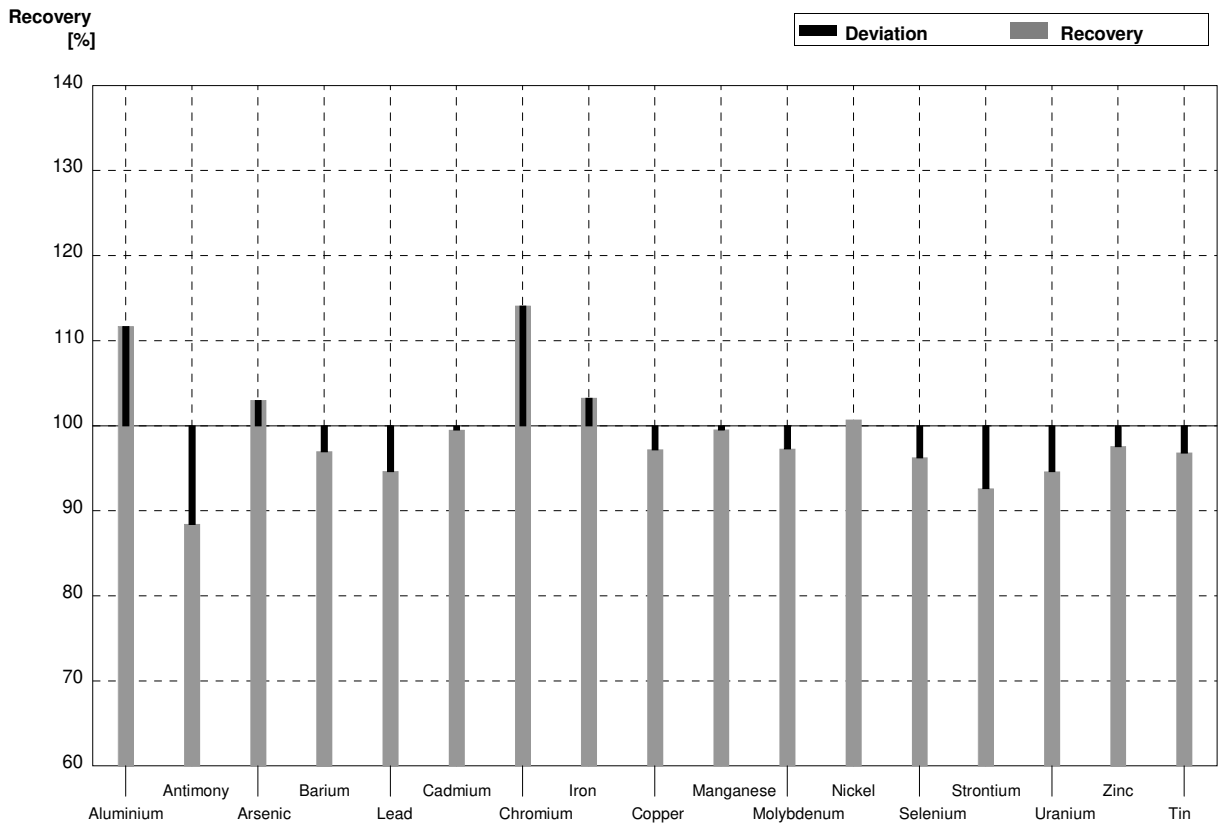
Sample M174B
Laboratory I

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 39,8 | 4,8 | µg/l | 105% |
| Antimony | 0,445 | 0,015 | 0,468 | 0,065 | µg/l | 105% |
| Arsenic | 1,804 | 0,015 | 1,87 | 0,32 | µg/l | 104% |
| Barium | 60,3 | 0,2 | 63,7 | 6,4 | µg/l | 106% |
| Lead | 7,08 | 0,04 | 7,08 | 0,85 | µg/l | 100% |
| Cadmium | 1,030 | 0,011 | 1,06 | 0,13 | µg/l | 103% |
| Chromium | 5,26 | 0,03 | 5,20 | 0,99 | µg/l | 99% |
| Iron | 83,8 | 0,5 | 83,9 | 15,1 | µg/l | 100% |
| Copper | 1,19 | 0,03 | 1,20 | 0,13 | µg/l | 101% |
| Manganese | 21,92 | 0,18 | 21,8 | 3,3 | µg/l | 99% |
| Molybdenum | 4,89 | 0,06 | 5,15 | 0,67 | µg/l | 105% |
| Nickel | 3,63 | 0,03 | 3,54 | 0,82 | µg/l | 98% |
| Selenium | 2,31 | 0,02 | 2,40 | 0,82 | µg/l | 104% |
| Strontium | 864 | 8 | 866 | 121 | µg/l | 100% |
| Uranium | 4,23 | 0,03 | 4,24 | 0,85 | µg/l | 100% |
| Zinc | 57 | 2 | 56,9 | 7,4 | µg/l | 100% |
| Tin | 0,74 | 0,02 | 0,75 | 0,13 | µg/l | 101% |



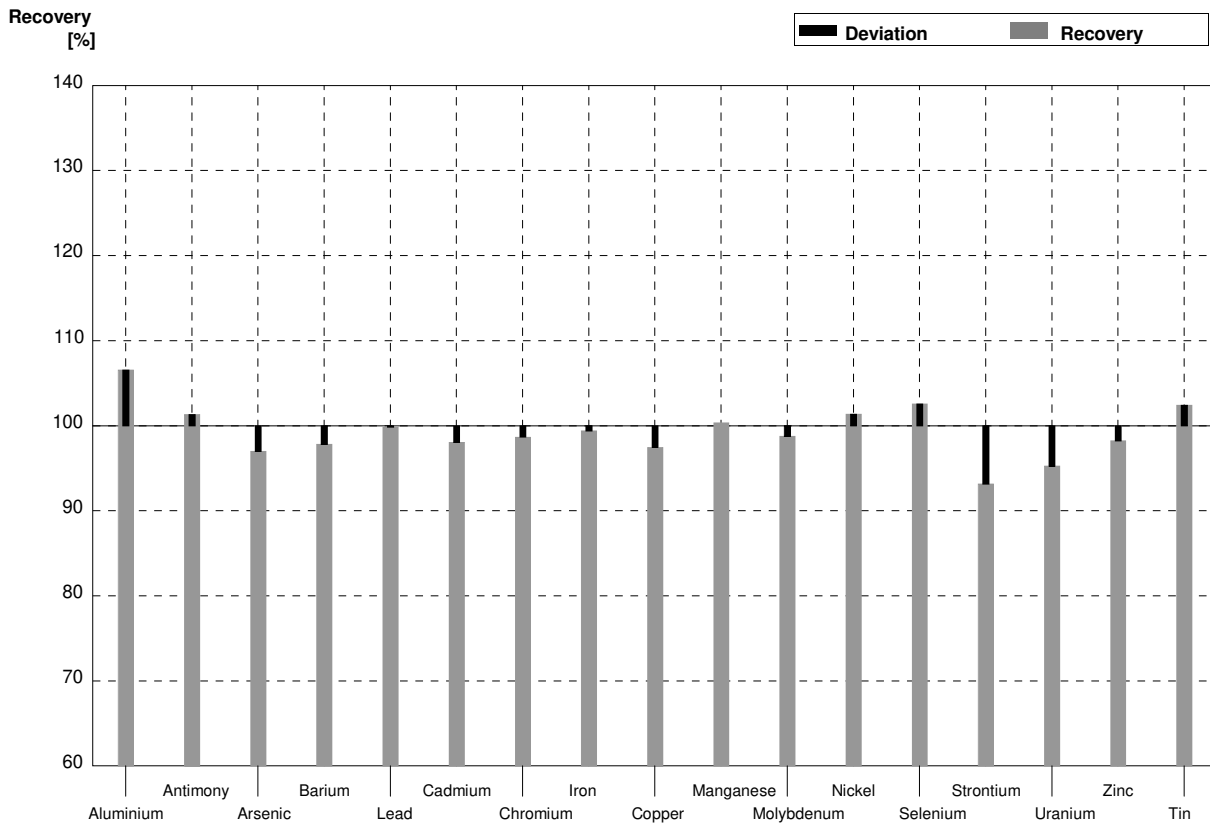
Sample M174A
Laboratory J

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 21,0 | 0,45 | µg/l | 112% |
| Antimony | 1,210 | 0,018 | 1,07 | 0,031 | µg/l | 88% |
| Arsenic | 5,02 | 0,03 | 5,17 | 0,19 | µg/l | 103% |
| Barium | 25,06 | 0,13 | 24,3 | 0,40 | µg/l | 97% |
| Lead | 2,79 | 0,03 | 2,64 | 0,020 | µg/l | 95% |
| Cadmium | 0,398 | 0,006 | 0,396 | 0,023 | µg/l | 99% |
| Chromium | 0,795 | 0,010 | 0,907 | 0,006 | µg/l | 114% |
| Iron | 33,9 | 0,4 | 35,0 | 0,21 | µg/l | 103% |
| Copper | 4,63 | 0,04 | 4,50 | 0,035 | µg/l | 97% |
| Manganese | 8,57 | 0,14 | 8,53 | 0,059 | µg/l | 100% |
| Molybdenum | 1,48 | 0,05 | 1,44 | 0,021 | µg/l | 97% |
| Nickel | 2,84 | 0,03 | 2,86 | 0,035 | µg/l | 101% |
| Selenium | 0,936 | 0,018 | 0,901 | 0,027 | µg/l | 96% |
| Strontium | 339 | 3 | 314 | 4,04 | µg/l | 93% |
| Uranium | 1,723 | 0,015 | 1,63 | 0,021 | µg/l | 95% |
| Zinc | 28,7 | 2,5 | 28,0 | 0,35 | µg/l | 98% |
| Tin | 1,89 | 0,03 | 1,83 | 0,029 | µg/l | 97% |



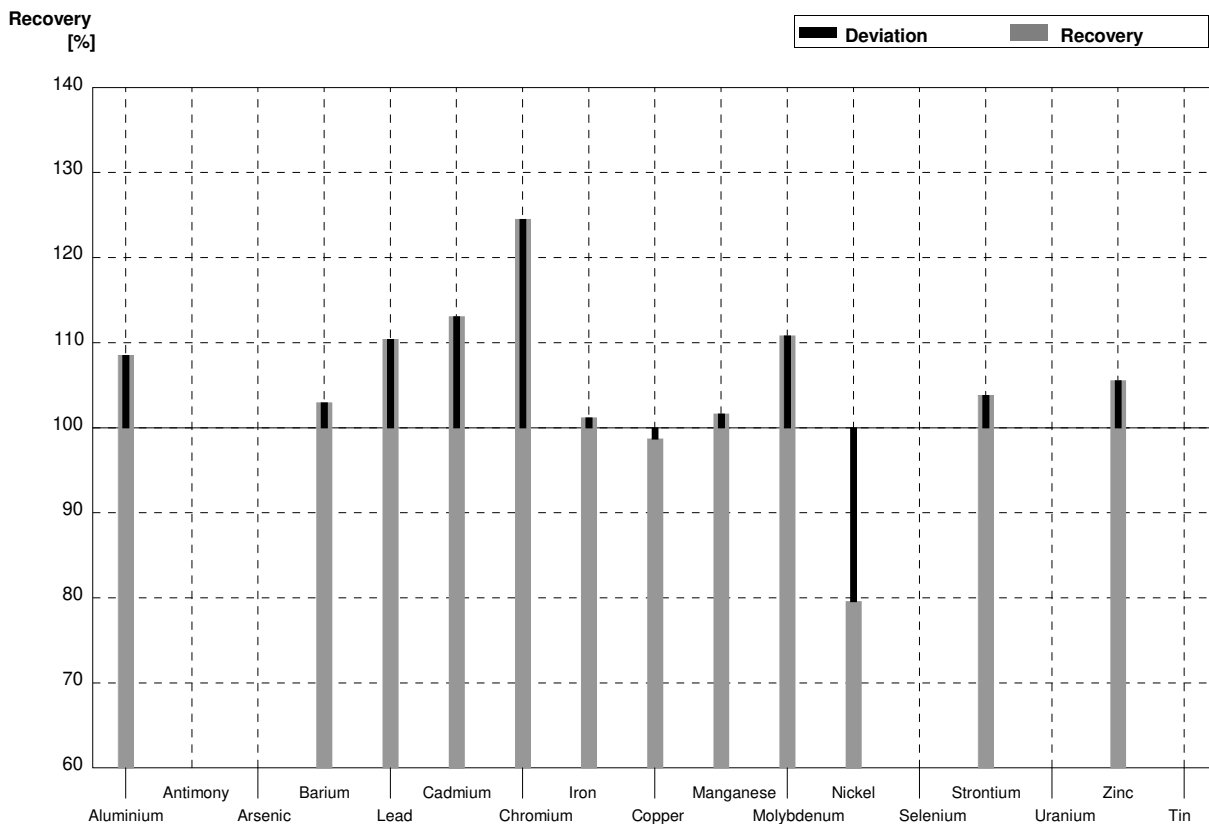
Sample M174B
Laboratory J

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 40,5 | 0,87 | µg/l | 107% |
| Antimony | 0,445 | 0,015 | 0,451 | 0,017 | µg/l | 101% |
| Arsenic | 1,804 | 0,015 | 1,75 | 0,087 | µg/l | 97% |
| Barium | 60,3 | 0,2 | 59,0 | 0,99 | µg/l | 98% |
| Lead | 7,08 | 0,04 | 7,07 | 0,040 | µg/l | 100% |
| Cadmium | 1,030 | 0,011 | 1,01 | 0,074 | µg/l | 98% |
| Chromium | 5,26 | 0,03 | 5,19 | 0,031 | µg/l | 99% |
| Iron | 83,8 | 0,5 | 83,3 | 0,36 | µg/l | 99% |
| Copper | 1,19 | 0,03 | 1,16 | 0,010 | µg/l | 97% |
| Manganese | 21,92 | 0,18 | 22,0 | 0,153 | µg/l | 100% |
| Molybdenum | 4,89 | 0,06 | 4,83 | 0,055 | µg/l | 99% |
| Nickel | 3,63 | 0,03 | 3,68 | 0,040 | µg/l | 101% |
| Selenium | 2,31 | 0,02 | 2,37 | 0,053 | µg/l | 103% |
| Strontium | 864 | 8 | 805 | 8,74 | µg/l | 93% |
| Uranium | 4,23 | 0,03 | 4,03 | 0,062 | µg/l | 95% |
| Zinc | 57 | 2 | 56,0 | 0,71 | µg/l | 98% |
| Tin | 0,74 | 0,02 | 0,758 | 0,012 | µg/l | 102% |



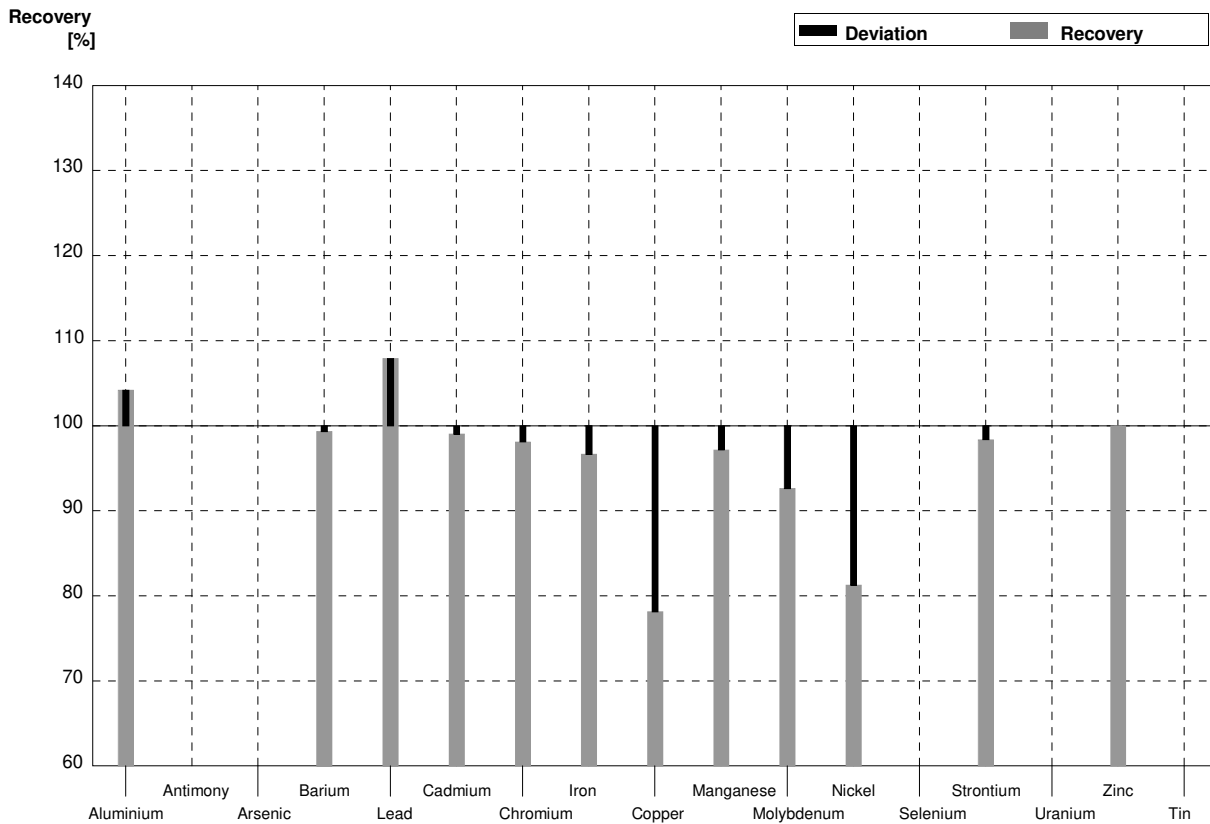
Sample M174A
Laboratory K

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 20,4 | 3,0 | $\mu\text{g/l}$ | 109% |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | 25,8 | 3,0 | $\mu\text{g/l}$ | 103% |
| Lead | 2,79 | 0,03 | 3,08 | 0,42 | $\mu\text{g/l}$ | 110% |
| Cadmium | 0,398 | 0,006 | 0,450 | 0,057 | $\mu\text{g/l}$ | 113% |
| Chromium | 0,795 | 0,010 | 0,990 | 0,13 | $\mu\text{g/l}$ | 125% |
| Iron | 33,9 | 0,4 | 34,3 | 4,3 | $\mu\text{g/l}$ | 101% |
| Copper | 4,63 | 0,04 | 4,57 | 0,54 | $\mu\text{g/l}$ | 99% |
| Manganese | 8,57 | 0,14 | 8,71 | 1,2 | $\mu\text{g/l}$ | 102% |
| Molybdenum | 1,48 | 0,05 | 1,64 | 0,34 | $\mu\text{g/l}$ | 111% |
| Nickel | 2,84 | 0,03 | 2,26 | 0,28 | $\mu\text{g/l}$ | 80% |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | 352 | 40 | $\mu\text{g/l}$ | 104% |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | 30,3 | 3,7 | $\mu\text{g/l}$ | 106% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



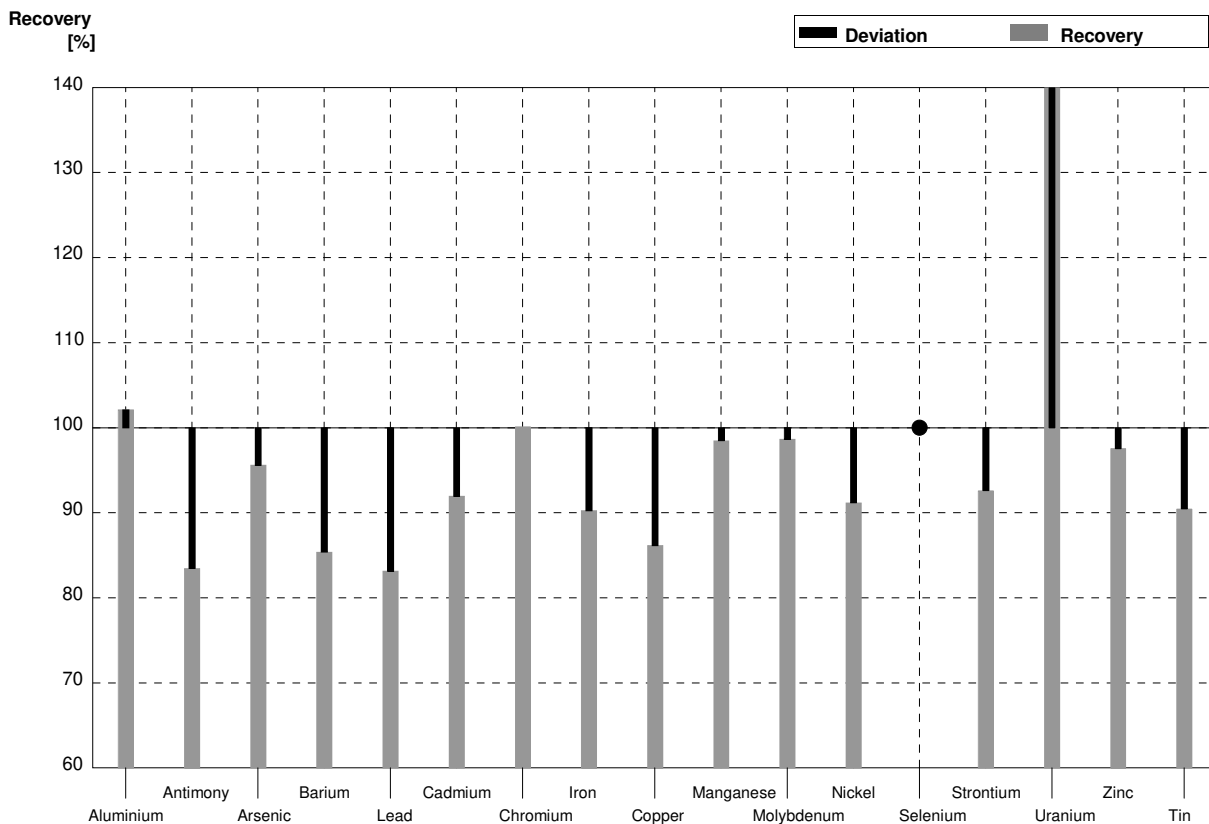
Sample M174B
Laboratory K

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 39,6 | 5,8 | $\mu\text{g/l}$ | 104% |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | 59,9 | 7,0 | $\mu\text{g/l}$ | 99% |
| Lead | 7,08 | 0,04 | 7,64 | 1,0 | $\mu\text{g/l}$ | 108% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,13 | $\mu\text{g/l}$ | 99% |
| Chromium | 5,26 | 0,03 | 5,16 | 0,69 | $\mu\text{g/l}$ | 98% |
| Iron | 83,8 | 0,5 | 81,0 | 10 | $\mu\text{g/l}$ | 97% |
| Copper | 1,19 | 0,03 | 0,93 | 0,11 | $\mu\text{g/l}$ | 78% |
| Manganese | 21,92 | 0,18 | 21,3 | 2,9 | $\mu\text{g/l}$ | 97% |
| Molybdenum | 4,89 | 0,06 | 4,53 | 0,94 | $\mu\text{g/l}$ | 93% |
| Nickel | 3,63 | 0,03 | 2,95 | 0,36 | $\mu\text{g/l}$ | 81% |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | 850 | 76 | $\mu\text{g/l}$ | 98% |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | 57,0 | 6,9 | $\mu\text{g/l}$ | 100% |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



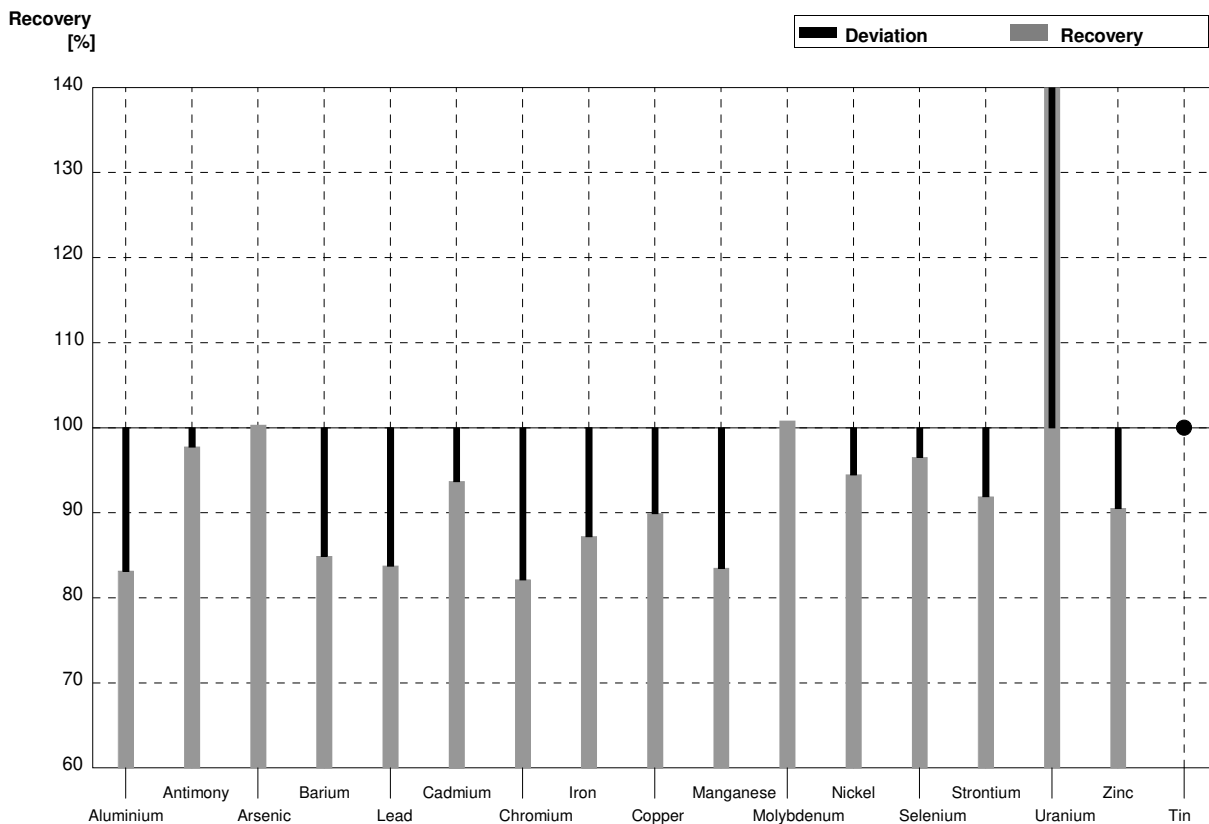
Sample M174A
Laboratory L

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 19,2 | 3,8 | µg/l | 102% |
| Antimony | 1,210 | 0,018 | 1,01 | 0,20 | µg/l | 83% |
| Arsenic | 5,02 | 0,03 | 4,80 | 0,96 | µg/l | 96% |
| Barium | 25,06 | 0,13 | 21,4 | 4,3 | µg/l | 85% |
| Lead | 2,79 | 0,03 | 2,32 | 0,46 | µg/l | 83% |
| Cadmium | 0,398 | 0,006 | 0,366 | 0,073 | µg/l | 92% |
| Chromium | 0,795 | 0,010 | 0,796 | 0,159 | µg/l | 100% |
| Iron | 33,9 | 0,4 | 30,6 | 6,1 | µg/l | 90% |
| Copper | 4,63 | 0,04 | 3,99 | 0,80 | µg/l | 86% |
| Manganese | 8,57 | 0,14 | 8,44 | 1,69 | µg/l | 98% |
| Molybdenum | 1,48 | 0,05 | 1,46 | 0,29 | µg/l | 99% |
| Nickel | 2,84 | 0,03 | 2,59 | 0,52 | µg/l | 91% |
| Selenium | 0,936 | 0,018 | <1,0 | | µg/l | • |
| Strontium | 339 | 3 | 314 | 63 | µg/l | 93% |
| Uranium | 1,723 | 0,015 | 10,8 | 2,2 | µg/l | 627% |
| Zinc | 28,7 | 2,5 | 28,0 | 5,6 | µg/l | 98% |
| Tin | 1,89 | 0,03 | 1,71 | 0,34 | µg/l | 90% |



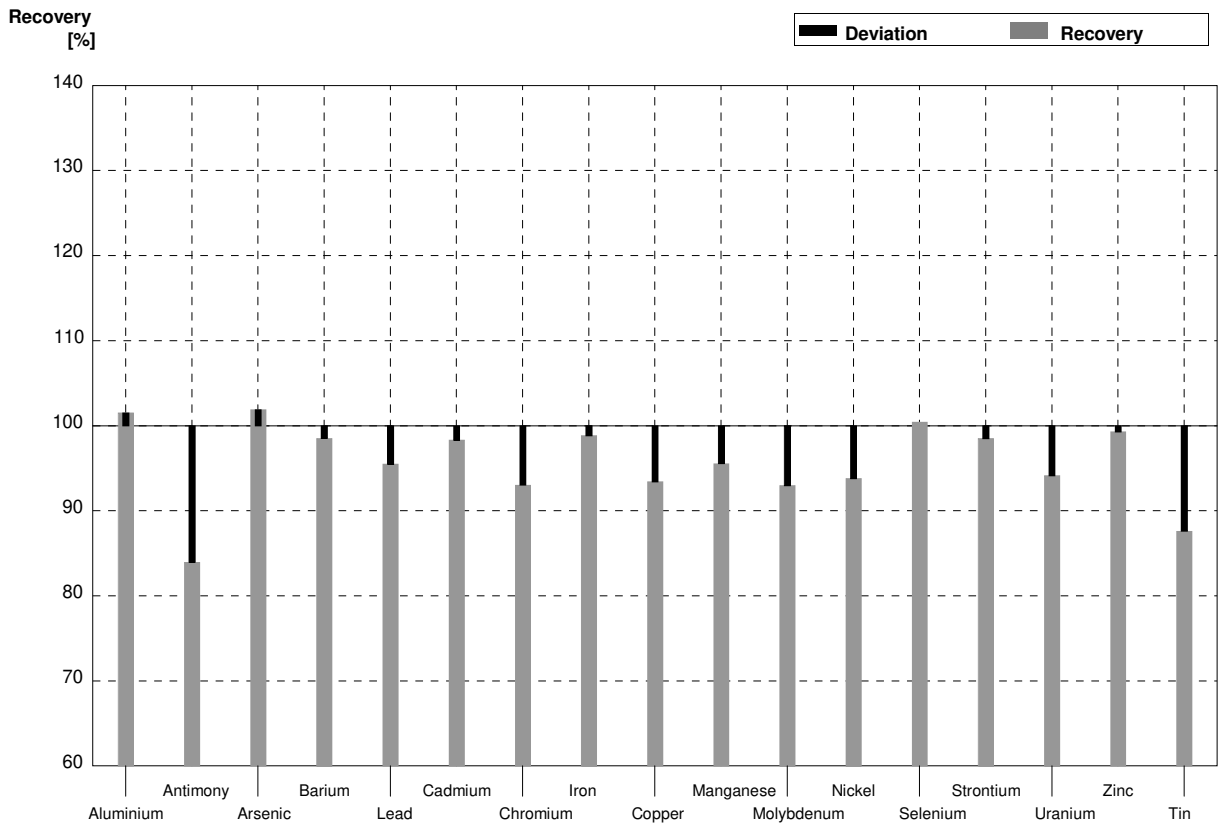
Sample M174B
Laboratory L

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 31,6 | 6,3 | $\mu\text{g/l}$ | 83% |
| Antimony | 0,445 | 0,015 | 0,435 | 0,087 | $\mu\text{g/l}$ | 98% |
| Arsenic | 1,804 | 0,015 | 1,81 | 0,36 | $\mu\text{g/l}$ | 100% |
| Barium | 60,3 | 0,2 | 51,2 | 10,2 | $\mu\text{g/l}$ | 85% |
| Lead | 7,08 | 0,04 | 5,93 | 1,19 | $\mu\text{g/l}$ | 84% |
| Cadmium | 1,030 | 0,011 | 0,965 | 0,193 | $\mu\text{g/l}$ | 94% |
| Chromium | 5,26 | 0,03 | 4,32 | 0,86 | $\mu\text{g/l}$ | 82% |
| Iron | 83,8 | 0,5 | 73,1 | 14,6 | $\mu\text{g/l}$ | 87% |
| Copper | 1,19 | 0,03 | 1,07 | 0,21 | $\mu\text{g/l}$ | 90% |
| Manganese | 21,92 | 0,18 | 18,3 | 3,7 | $\mu\text{g/l}$ | 83% |
| Molybdenum | 4,89 | 0,06 | 4,93 | 0,99 | $\mu\text{g/l}$ | 101% |
| Nickel | 3,63 | 0,03 | 3,43 | 0,69 | $\mu\text{g/l}$ | 94% |
| Selenium | 2,31 | 0,02 | 2,23 | 0,45 | $\mu\text{g/l}$ | 97% |
| Strontium | 864 | 8 | 794 | 159 | $\mu\text{g/l}$ | 92% |
| Uranium | 4,23 | 0,03 | 27,6 | 5,5 | $\mu\text{g/l}$ | 652% |
| Zinc | 57 | 2 | 51,6 | 10,3 | $\mu\text{g/l}$ | 91% |
| Tin | 0,74 | 0,02 | <1,0 | | $\mu\text{g/l}$ | • |



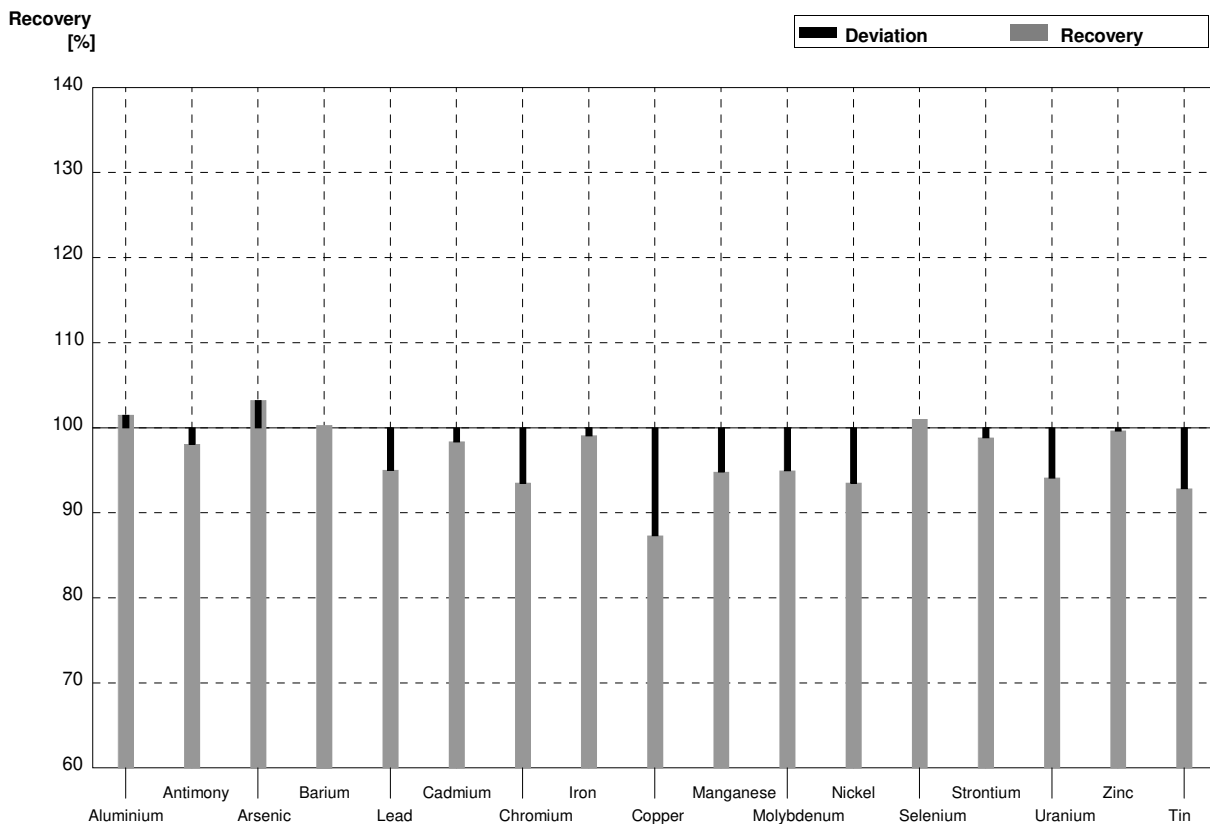
Sample M174A
Laboratory M

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|--------|------|----------|
| Aluminium | 18,8 | 0,3 | 19,09 | 3,06 | µg/l | 102% |
| Antimony | 1,210 | 0,018 | 1,016 | 0,122 | µg/l | 84% |
| Arsenic | 5,02 | 0,03 | 5,115 | 0,665 | µg/l | 102% |
| Barium | 25,06 | 0,13 | 24,69 | 2,22 | µg/l | 99% |
| Lead | 2,79 | 0,03 | 2,664 | 0,612 | µg/l | 95% |
| Cadmium | 0,398 | 0,006 | 0,3913 | 0,0352 | µg/l | 98% |
| Chromium | 0,795 | 0,010 | 0,7396 | 0,1036 | µg/l | 93% |
| Iron | 33,9 | 0,4 | 33,51 | 3,02 | µg/l | 99% |
| Copper | 4,63 | 0,04 | 4,326 | 0,908 | µg/l | 93% |
| Manganese | 8,57 | 0,14 | 8,188 | 1,310 | µg/l | 96% |
| Molybdenum | 1,48 | 0,05 | 1,376 | 0,220 | µg/l | 93% |
| Nickel | 2,84 | 0,03 | 2,664 | 0,480 | µg/l | 94% |
| Selenium | 0,936 | 0,018 | 0,940 | 0,141 | µg/l | 100% |
| Strontium | 339 | 3 | 333,9 | 46,7 | µg/l | 98% |
| Uranium | 1,723 | 0,015 | 1,622 | 0,243 | µg/l | 94% |
| Zinc | 28,7 | 2,5 | 28,50 | 3,42 | µg/l | 99% |
| Tin | 1,89 | 0,03 | 1,656 | 0,364 | µg/l | 88% |



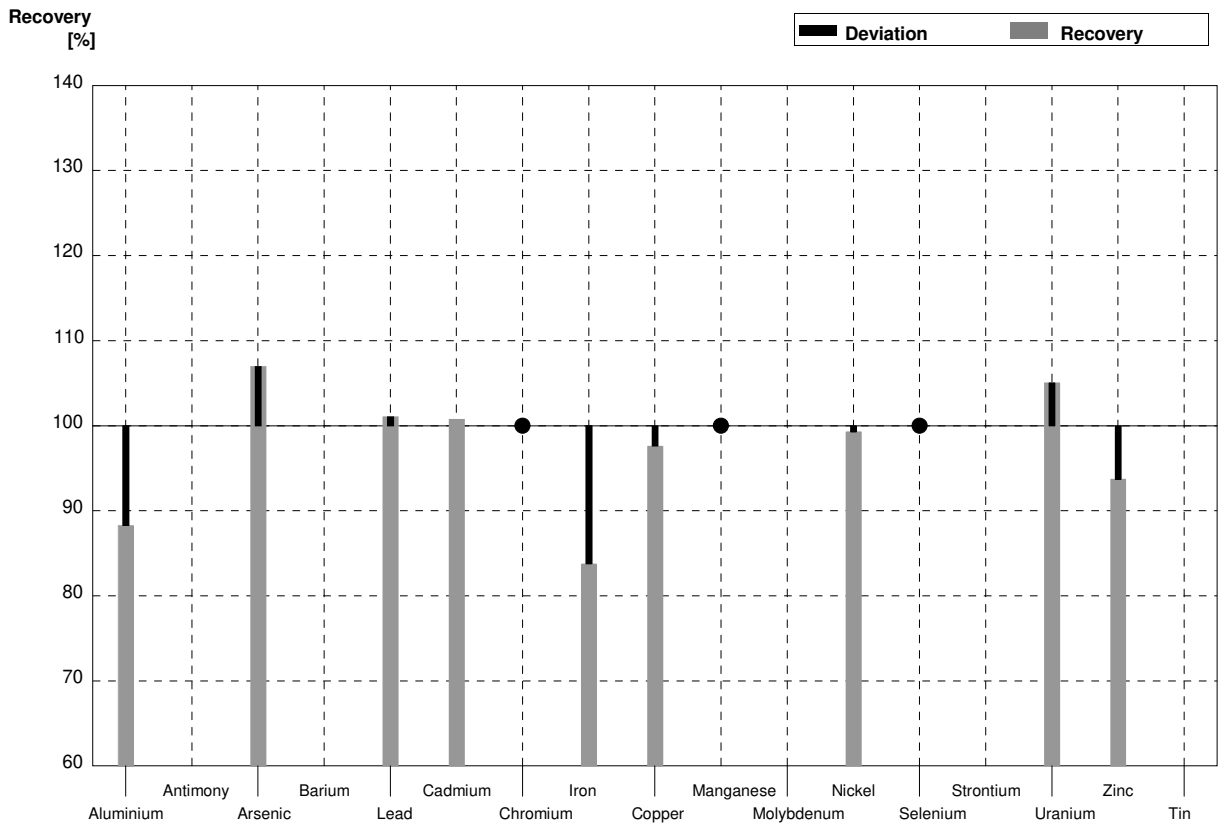
Sample M174B
Laboratory M

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 38,57 | 6,17 | $\mu\text{g/l}$ | 102% |
| Antimony | 0,445 | 0,015 | 0,4364 | 0,0524 | $\mu\text{g/l}$ | 98% |
| Arsenic | 1,804 | 0,015 | 1,862 | 0,242 | $\mu\text{g/l}$ | 103% |
| Barium | 60,3 | 0,2 | 60,46 | 5,44 | $\mu\text{g/l}$ | 100% |
| Lead | 7,08 | 0,04 | 6,726 | 1,547 | $\mu\text{g/l}$ | 95% |
| Cadmium | 1,030 | 0,011 | 1,013 | 0,091 | $\mu\text{g/l}$ | 98% |
| Chromium | 5,26 | 0,03 | 4,919 | 0,689 | $\mu\text{g/l}$ | 94% |
| Iron | 83,8 | 0,5 | 83,03 | 7,47 | $\mu\text{g/l}$ | 99% |
| Copper | 1,19 | 0,03 | 1,039 | 0,218 | $\mu\text{g/l}$ | 87% |
| Manganese | 21,92 | 0,18 | 20,78 | 3,32 | $\mu\text{g/l}$ | 95% |
| Molybdenum | 4,89 | 0,06 | 4,643 | 0,743 | $\mu\text{g/l}$ | 95% |
| Nickel | 3,63 | 0,03 | 3,394 | 0,611 | $\mu\text{g/l}$ | 93% |
| Selenium | 2,31 | 0,02 | 2,333 | 0,350 | $\mu\text{g/l}$ | 101% |
| Strontium | 864 | 8 | 853,9 | 119,5 | $\mu\text{g/l}$ | 99% |
| Uranium | 4,23 | 0,03 | 3,981 | 0,597 | $\mu\text{g/l}$ | 94% |
| Zinc | 57 | 2 | 56,79 | 6,81 | $\mu\text{g/l}$ | 100% |
| Tin | 0,74 | 0,02 | 0,687 | 0,151 | $\mu\text{g/l}$ | 93% |



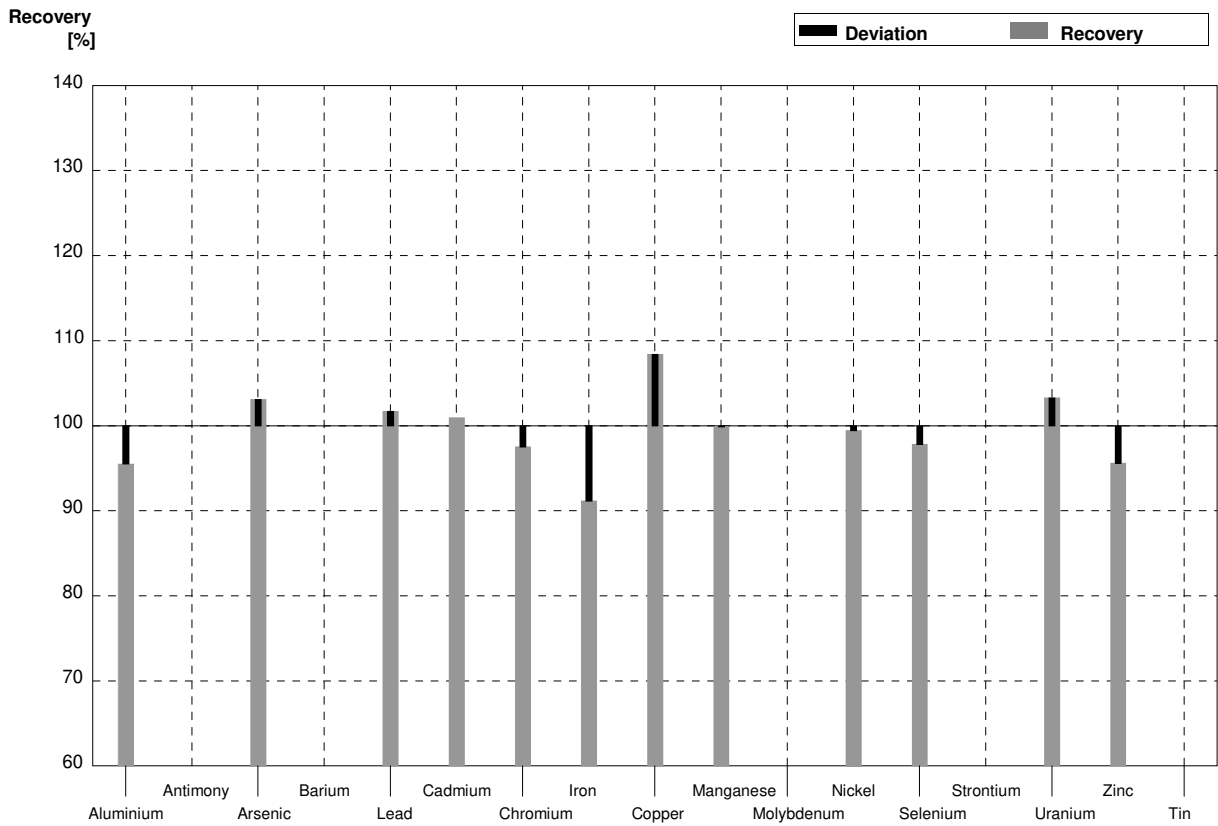
Sample M174A
Laboratory N

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|---------|------|----------|
| Aluminium | 18,8 | 0,3 | 16,6 | 1,69 | µg/l | 88% |
| Antimony | 1,210 | 0,018 | | | µg/l | |
| Arsenic | 5,02 | 0,03 | 5,37 | 0,0626 | µg/l | 107% |
| Barium | 25,06 | 0,13 | | | µg/l | |
| Lead | 2,79 | 0,03 | 2,82 | 0,0505 | µg/l | 101% |
| Cadmium | 0,398 | 0,006 | 0,401 | 0,00281 | µg/l | 101% |
| Chromium | 0,795 | 0,010 | <1 | | µg/l | • |
| Iron | 33,9 | 0,4 | 28,4 | 0,578 | µg/l | 84% |
| Copper | 4,63 | 0,04 | 4,52 | 0,0655 | µg/l | 98% |
| Manganese | 8,57 | 0,14 | <10 | | µg/l | • |
| Molybdenum | 1,48 | 0,05 | | | µg/l | |
| Nickel | 2,84 | 0,03 | 2,82 | 0,115 | µg/l | 99% |
| Selenium | 0,936 | 0,018 | <1 | | µg/l | • |
| Strontium | 339 | 3 | | | µg/l | |
| Uranium | 1,723 | 0,015 | 1,81 | 0,0548 | µg/l | 105% |
| Zinc | 28,7 | 2,5 | 26,9 | 0,088 | µg/l | 94% |
| Tin | 1,89 | 0,03 | | | µg/l | |



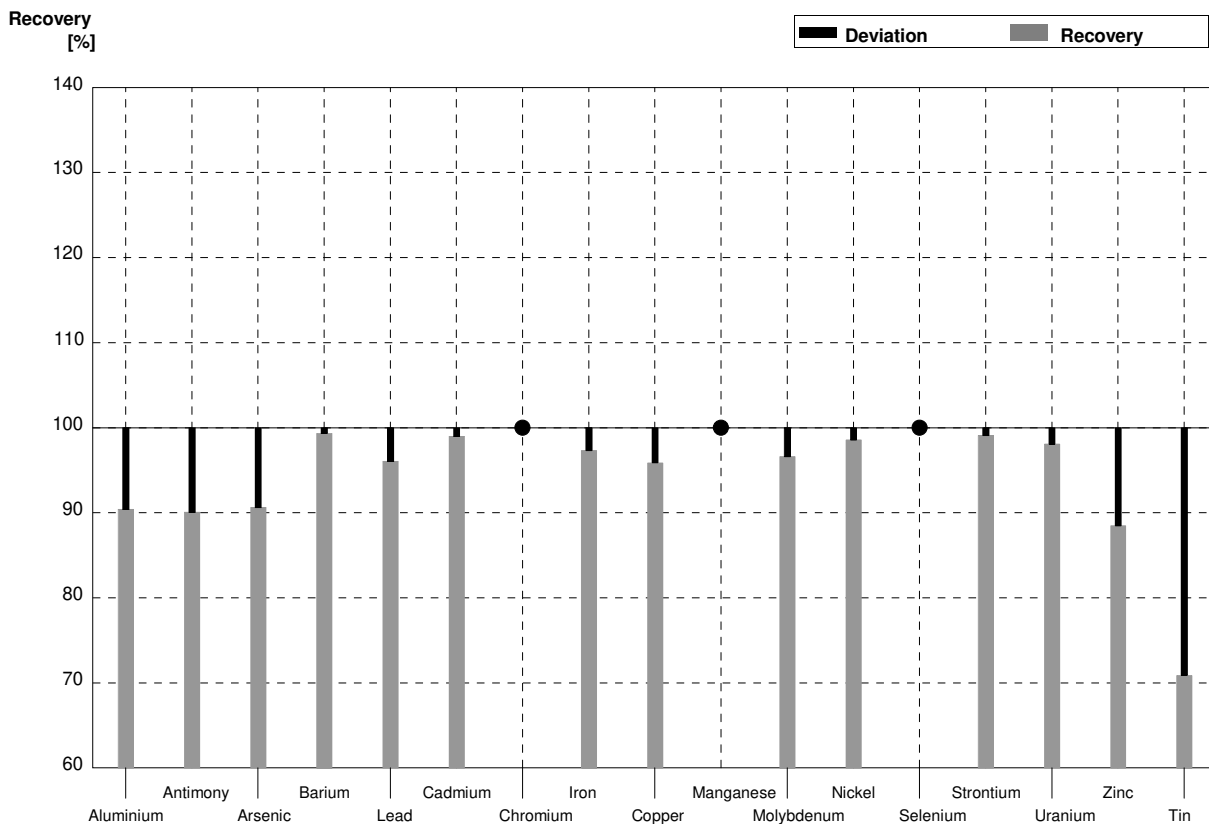
Sample M174B
Laboratory N

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 36,3 | 1,60 | $\mu\text{g/l}$ | 96% |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | 1,86 | 0,0704 | $\mu\text{g/l}$ | 103% |
| Barium | 60,3 | 0,2 | | | $\mu\text{g/l}$ | |
| Lead | 7,08 | 0,04 | 7,20 | 0,0479 | $\mu\text{g/l}$ | 102% |
| Cadmium | 1,030 | 0,011 | 1,04 | 0,0409 | $\mu\text{g/l}$ | 101% |
| Chromium | 5,26 | 0,03 | 5,13 | 0,0630 | $\mu\text{g/l}$ | 98% |
| Iron | 83,8 | 0,5 | 76,4 | 0,608 | $\mu\text{g/l}$ | 91% |
| Copper | 1,19 | 0,03 | 1,29 | 0,0747 | $\mu\text{g/l}$ | 108% |
| Manganese | 21,92 | 0,18 | 21,9 | 0,421 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 4,89 | 0,06 | | | $\mu\text{g/l}$ | |
| Nickel | 3,63 | 0,03 | 3,61 | 0,111 | $\mu\text{g/l}$ | 99% |
| Selenium | 2,31 | 0,02 | 2,26 | 0,104 | $\mu\text{g/l}$ | 98% |
| Strontium | 864 | 8 | | | $\mu\text{g/l}$ | |
| Uranium | 4,23 | 0,03 | 4,37 | 0,0494 | $\mu\text{g/l}$ | 103% |
| Zinc | 57 | 2 | 54,5 | 2,07 | $\mu\text{g/l}$ | 96% |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



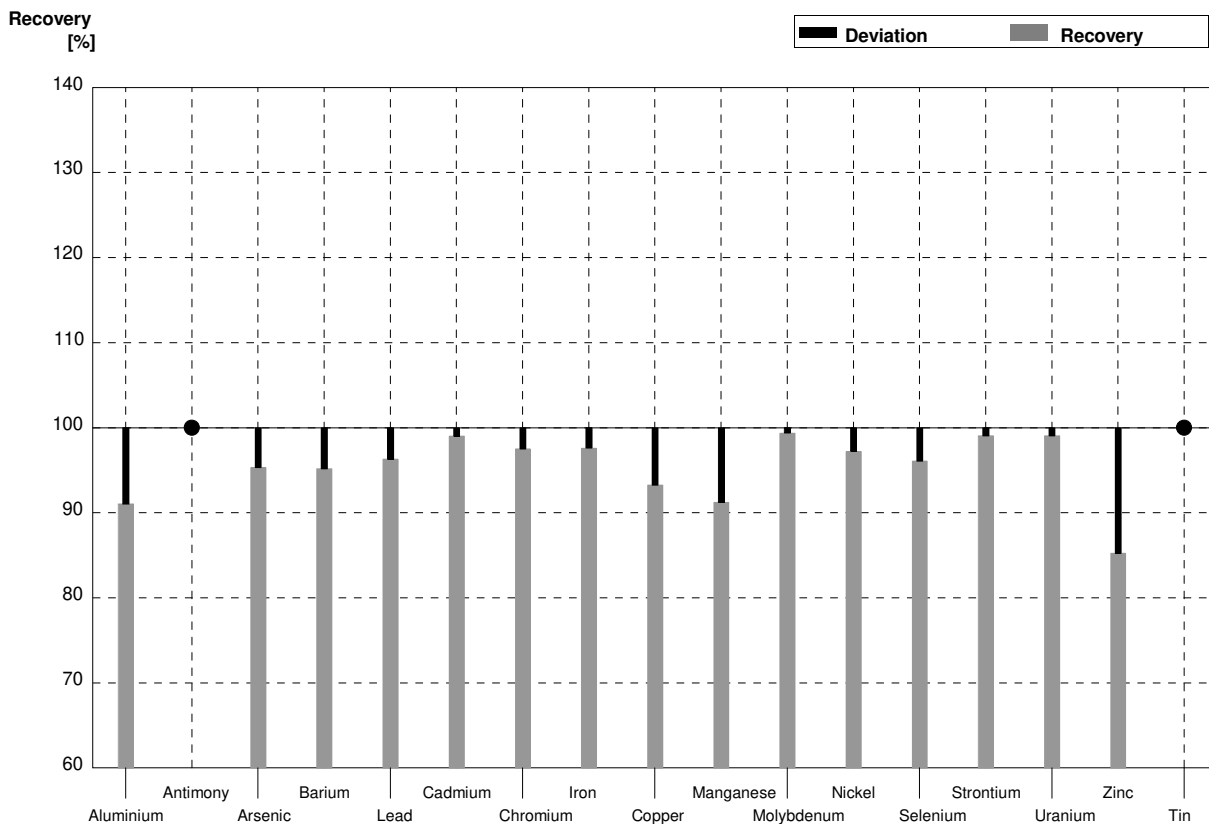
Sample M174A
Laboratory O

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 17,0 | 3,4 | $\mu\text{g/l}$ | 90% |
| Antimony | 1,210 | 0,018 | 1,09 | 0,16 | $\mu\text{g/l}$ | 90% |
| Arsenic | 5,02 | 0,03 | 4,55 | 0,68 | $\mu\text{g/l}$ | 91% |
| Barium | 25,06 | 0,13 | 24,9 | 3,0 | $\mu\text{g/l}$ | 99% |
| Lead | 2,79 | 0,03 | 2,68 | 0,32 | $\mu\text{g/l}$ | 96% |
| Cadmium | 0,398 | 0,006 | 0,394 | 0,047 | $\mu\text{g/l}$ | 99% |
| Chromium | 0,795 | 0,010 | <1,0 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 33,0 | 5,0 | $\mu\text{g/l}$ | 97% |
| Copper | 4,63 | 0,04 | 4,44 | 0,53 | $\mu\text{g/l}$ | 96% |
| Manganese | 8,57 | 0,14 | <10,0 | | $\mu\text{g/l}$ | • |
| Molybdenum | 1,48 | 0,05 | 1,43 | 0,17 | $\mu\text{g/l}$ | 97% |
| Nickel | 2,84 | 0,03 | 2,80 | 0,31 | $\mu\text{g/l}$ | 99% |
| Selenium | 0,936 | 0,018 | <1,0 | | $\mu\text{g/l}$ | • |
| Strontium | 339 | 3 | 336 | 50 | $\mu\text{g/l}$ | 99% |
| Uranium | 1,723 | 0,015 | 1,69 | 0,25 | $\mu\text{g/l}$ | 98% |
| Zinc | 28,7 | 2,5 | 25,4 | 3,8 | $\mu\text{g/l}$ | 89% |
| Tin | 1,89 | 0,03 | 1,34 | 0,20 | $\mu\text{g/l}$ | 71% |



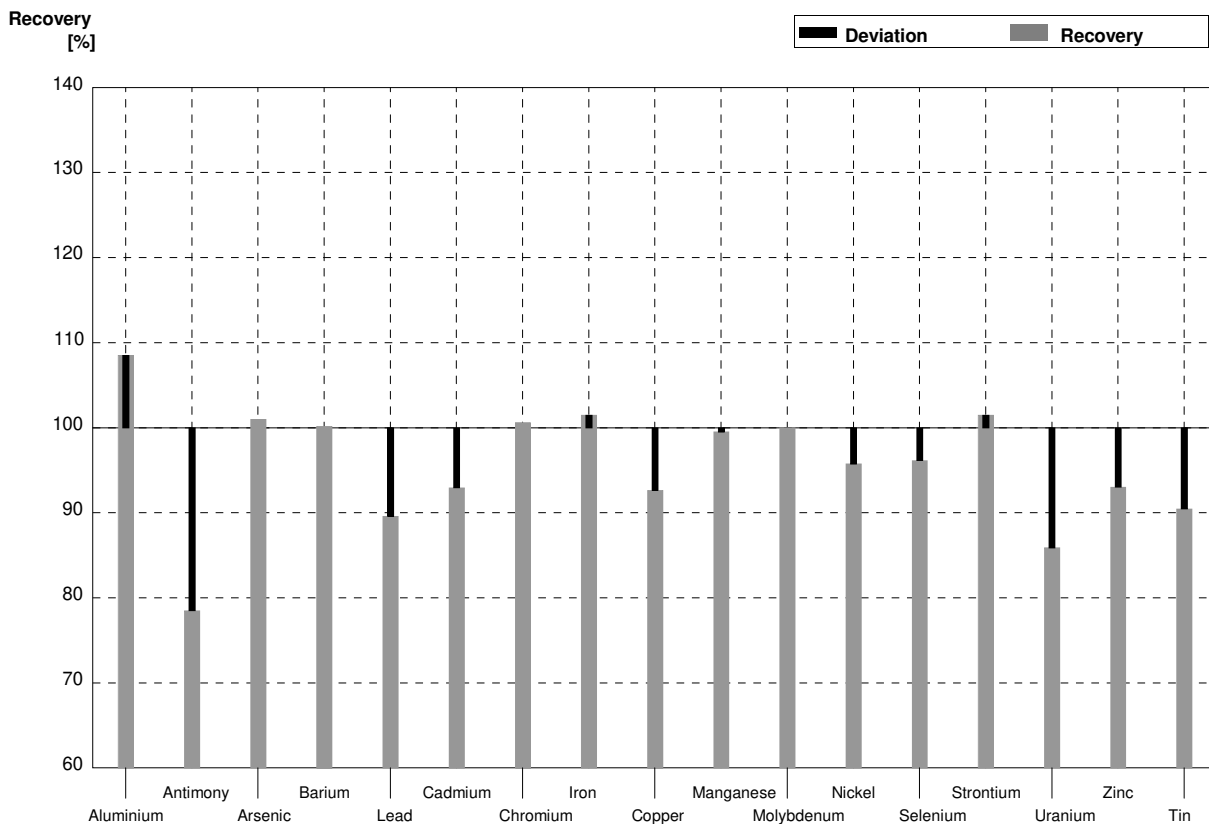
Sample M174B
Laboratory O

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 34,6 | 6,9 | µg/l | 91% |
| Antimony | 0,445 | 0,015 | <1,0 | | µg/l | • |
| Arsenic | 1,804 | 0,015 | 1,72 | 0,26 | µg/l | 95% |
| Barium | 60,3 | 0,2 | 57,4 | 6,9 | µg/l | 95% |
| Lead | 7,08 | 0,04 | 6,82 | 0,82 | µg/l | 96% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,12 | µg/l | 99% |
| Chromium | 5,26 | 0,03 | 5,13 | 0,77 | µg/l | 98% |
| Iron | 83,8 | 0,5 | 81,8 | 12 | µg/l | 98% |
| Copper | 1,19 | 0,03 | 1,11 | 0,13 | µg/l | 93% |
| Manganese | 21,92 | 0,18 | 20,0 | 2,4 | µg/l | 91% |
| Molybdenum | 4,89 | 0,06 | 4,86 | 0,58 | µg/l | 99% |
| Nickel | 3,63 | 0,03 | 3,53 | 0,39 | µg/l | 97% |
| Selenium | 2,31 | 0,02 | 2,22 | 0,33 | µg/l | 96% |
| Strontium | 864 | 8 | 856 | 128 | µg/l | 99% |
| Uranium | 4,23 | 0,03 | 4,19 | 0,63 | µg/l | 99% |
| Zinc | 57 | 2 | 48,6 | 7,3 | µg/l | 85% |
| Tin | 0,74 | 0,02 | <1,0 | | µg/l | • |



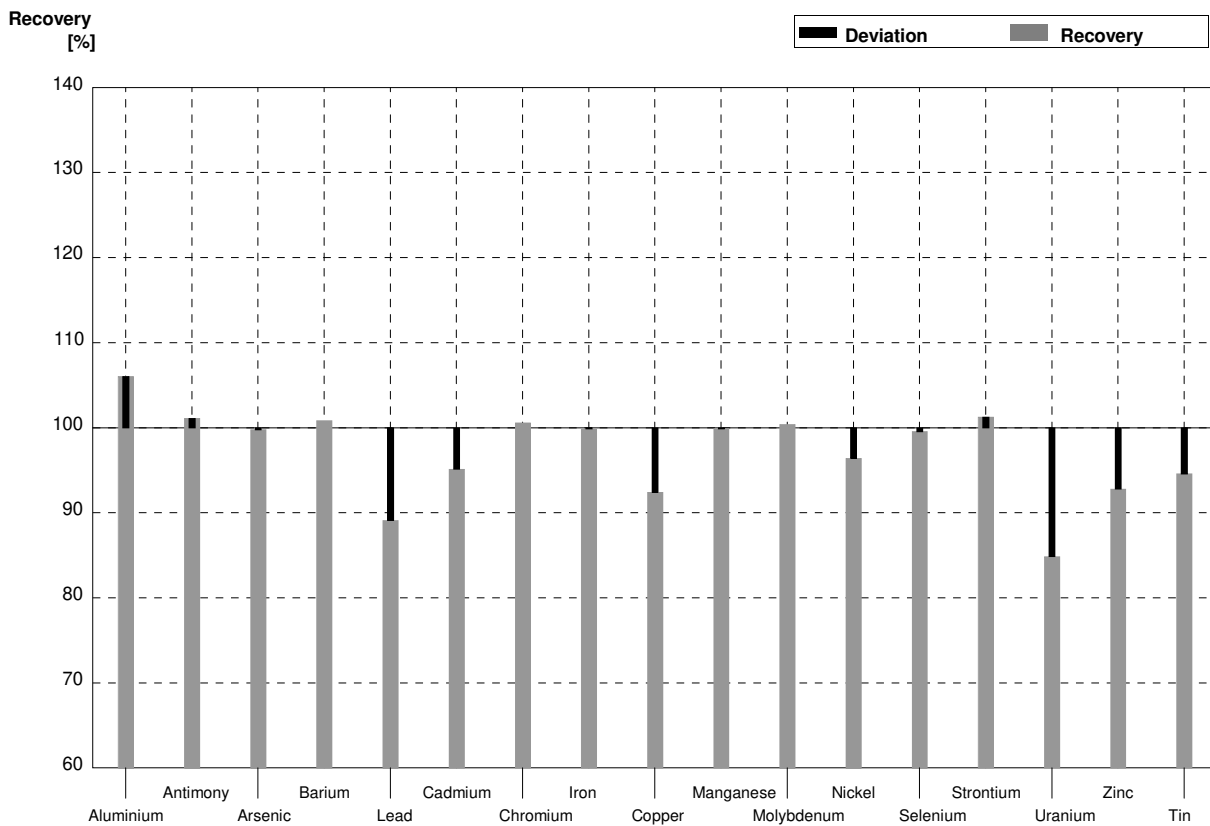
Sample M174A
Laboratory P

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 20,4 | | $\mu\text{g/l}$ | 109% |
| Antimony | 1,210 | 0,018 | 0,95 | | $\mu\text{g/l}$ | 79% |
| Arsenic | 5,02 | 0,03 | 5,07 | | $\mu\text{g/l}$ | 101% |
| Barium | 25,06 | 0,13 | 25,1 | | $\mu\text{g/l}$ | 100% |
| Lead | 2,79 | 0,03 | 2,50 | | $\mu\text{g/l}$ | 90% |
| Cadmium | 0,398 | 0,006 | 0,370 | | $\mu\text{g/l}$ | 93% |
| Chromium | 0,795 | 0,010 | 0,80 | | $\mu\text{g/l}$ | 101% |
| Iron | 33,9 | 0,4 | 34,4 | | $\mu\text{g/l}$ | 101% |
| Copper | 4,63 | 0,04 | 4,29 | | $\mu\text{g/l}$ | 93% |
| Manganese | 8,57 | 0,14 | 8,53 | | $\mu\text{g/l}$ | 100% |
| Molybdenum | 1,48 | 0,05 | 1,48 | | $\mu\text{g/l}$ | 100% |
| Nickel | 2,84 | 0,03 | 2,72 | | $\mu\text{g/l}$ | 96% |
| Selenium | 0,936 | 0,018 | 0,90 | | $\mu\text{g/l}$ | 96% |
| Strontium | 339 | 3 | 344 | | $\mu\text{g/l}$ | 101% |
| Uranium | 1,723 | 0,015 | 1,48 | | $\mu\text{g/l}$ | 86% |
| Zinc | 28,7 | 2,5 | 26,7 | | $\mu\text{g/l}$ | 93% |
| Tin | 1,89 | 0,03 | 1,71 | | $\mu\text{g/l}$ | 90% |



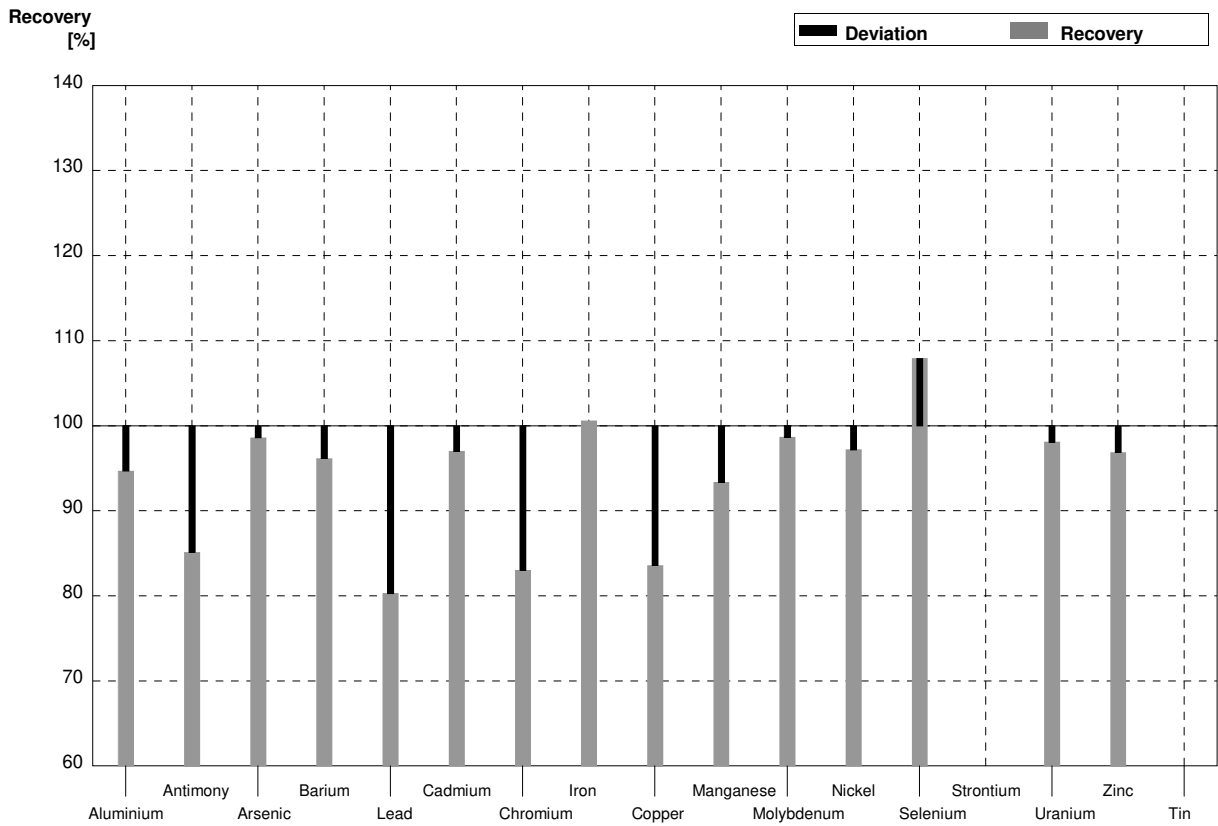
Sample M174B
Laboratory P

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 40,3 | | $\mu\text{g/l}$ | 106% |
| Antimony | 0,445 | 0,015 | 0,450 | | $\mu\text{g/l}$ | 101% |
| Arsenic | 1,804 | 0,015 | 1,80 | | $\mu\text{g/l}$ | 100% |
| Barium | 60,3 | 0,2 | 60,8 | | $\mu\text{g/l}$ | 101% |
| Lead | 7,08 | 0,04 | 6,31 | | $\mu\text{g/l}$ | 89% |
| Cadmium | 1,030 | 0,011 | 0,98 | | $\mu\text{g/l}$ | 95% |
| Chromium | 5,26 | 0,03 | 5,29 | | $\mu\text{g/l}$ | 101% |
| Iron | 83,8 | 0,5 | 83,7 | | $\mu\text{g/l}$ | 100% |
| Copper | 1,19 | 0,03 | 1,10 | | $\mu\text{g/l}$ | 92% |
| Manganese | 21,92 | 0,18 | 21,9 | | $\mu\text{g/l}$ | 100% |
| Molybdenum | 4,89 | 0,06 | 4,91 | | $\mu\text{g/l}$ | 100% |
| Nickel | 3,63 | 0,03 | 3,50 | | $\mu\text{g/l}$ | 96% |
| Selenium | 2,31 | 0,02 | 2,30 | | $\mu\text{g/l}$ | 100% |
| Strontium | 864 | 8 | 875 | | $\mu\text{g/l}$ | 101% |
| Uranium | 4,23 | 0,03 | 3,59 | | $\mu\text{g/l}$ | 85% |
| Zinc | 57 | 2 | 52,9 | | $\mu\text{g/l}$ | 93% |
| Tin | 0,74 | 0,02 | 0,70 | | $\mu\text{g/l}$ | 95% |



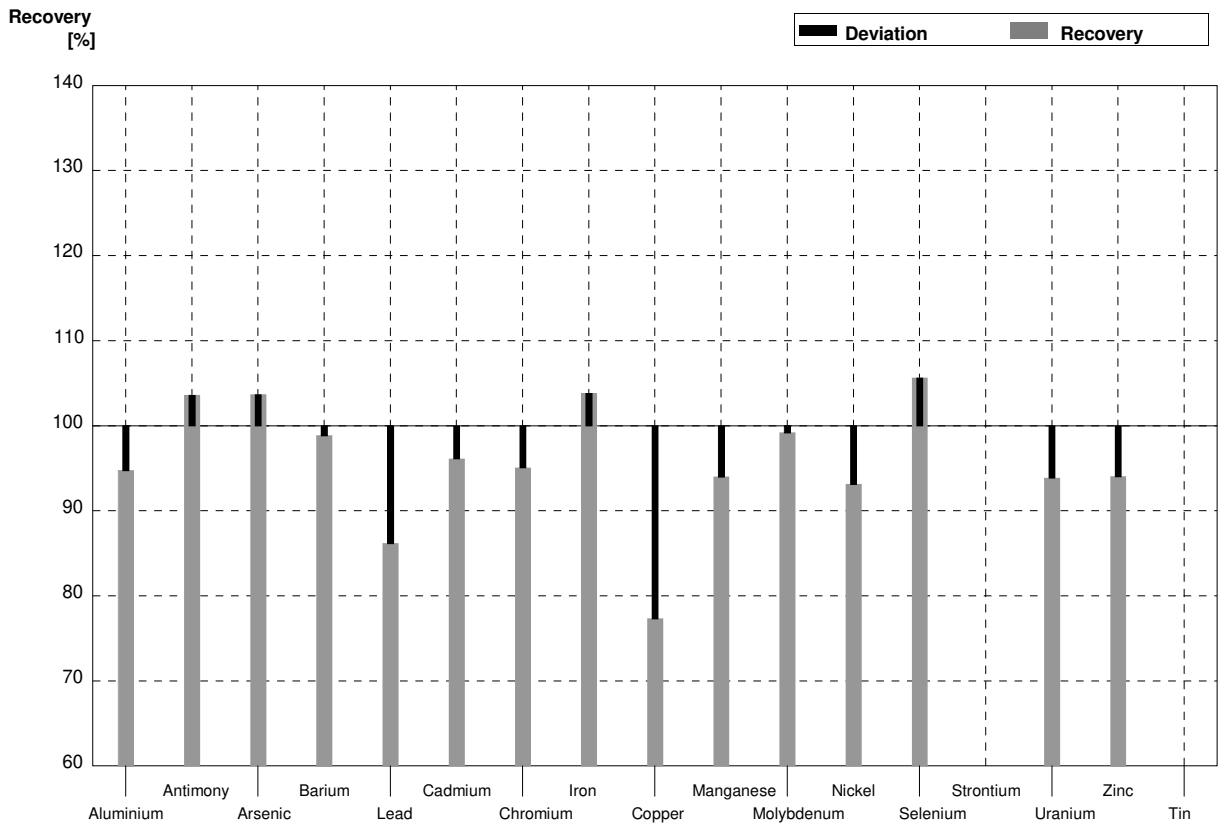
Sample M174A
Laboratory Q

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 17,8 | 4,5 | µg/l | 95% |
| Antimony | 1,210 | 0,018 | 1,03 | 0,26 | µg/l | 85% |
| Arsenic | 5,02 | 0,03 | 4,95 | 1,48 | µg/l | 99% |
| Barium | 25,06 | 0,13 | 24,1 | 6,0 | µg/l | 96% |
| Lead | 2,79 | 0,03 | 2,24 | 0,56 | µg/l | 80% |
| Cadmium | 0,398 | 0,006 | 0,386 | 0,096 | µg/l | 97% |
| Chromium | 0,795 | 0,010 | 0,66 | 0,20 | µg/l | 83% |
| Iron | 33,9 | 0,4 | 34,1 | 10,2 | µg/l | 101% |
| Copper | 4,63 | 0,04 | 3,87 | 0,97 | µg/l | 84% |
| Manganese | 8,57 | 0,14 | 8,0 | 2,4 | µg/l | 93% |
| Molybdenum | 1,48 | 0,05 | 1,46 | 0,36 | µg/l | 99% |
| Nickel | 2,84 | 0,03 | 2,76 | 0,69 | µg/l | 97% |
| Selenium | 0,936 | 0,018 | 1,01 | 0,25 | µg/l | 108% |
| Strontium | 339 | 3 | | | µg/l | |
| Uranium | 1,723 | 0,015 | 1,69 | 0,42 | µg/l | 98% |
| Zinc | 28,7 | 2,5 | 27,8 | 7,0 | µg/l | 97% |
| Tin | 1,89 | 0,03 | | | µg/l | |



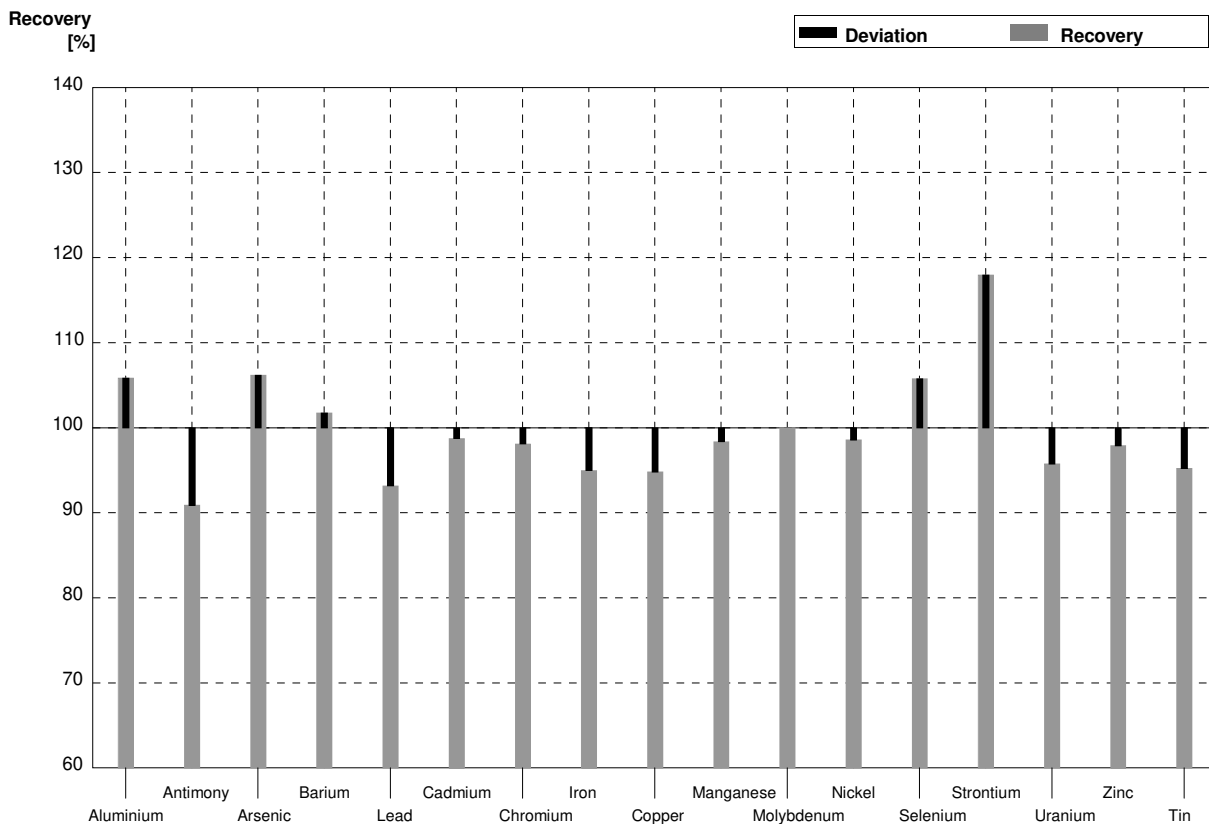
Sample M174B
Laboratory Q

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 36,0 | 9,0 | µg/l | 95% |
| Antimony | 0,445 | 0,015 | 0,461 | 0,115 | µg/l | 104% |
| Arsenic | 1,804 | 0,015 | 1,87 | 0,56 | µg/l | 104% |
| Barium | 60,3 | 0,2 | 59,6 | 14,9 | µg/l | 99% |
| Lead | 7,08 | 0,04 | 6,1 | 1,5 | µg/l | 86% |
| Cadmium | 1,030 | 0,011 | 0,99 | 0,25 | µg/l | 96% |
| Chromium | 5,26 | 0,03 | 5,0 | 1,5 | µg/l | 95% |
| Iron | 83,8 | 0,5 | 87,0 | 26,1 | µg/l | 104% |
| Copper | 1,19 | 0,03 | 0,92 | 0,23 | µg/l | 77% |
| Manganese | 21,92 | 0,18 | 20,6 | 6,2 | µg/l | 94% |
| Molybdenum | 4,89 | 0,06 | 4,85 | 1,21 | µg/l | 99% |
| Nickel | 3,63 | 0,03 | 3,38 | 0,85 | µg/l | 93% |
| Selenium | 2,31 | 0,02 | 2,44 | 0,61 | µg/l | 106% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 3,97 | 0,99 | µg/l | 94% |
| Zinc | 57 | 2 | 53,6 | 13,4 | µg/l | 94% |
| Tin | 0,74 | 0,02 | | | µg/l | |



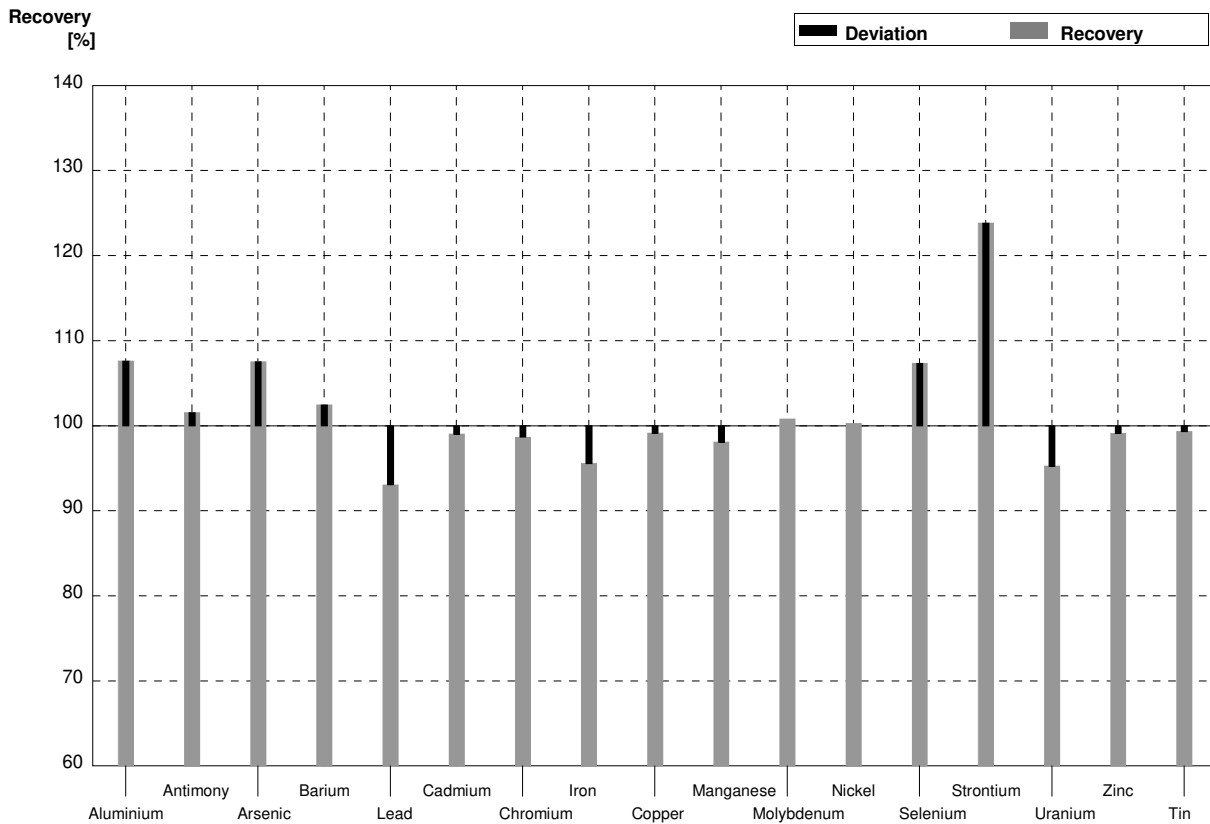
Sample M174A
Laboratory R

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 19,9 | 2,0 | $\mu\text{g/l}$ | 106% |
| Antimony | 1,210 | 0,018 | 1,10 | 0,11 | $\mu\text{g/l}$ | 91% |
| Arsenic | 5,02 | 0,03 | 5,33 | 0,53 | $\mu\text{g/l}$ | 106% |
| Barium | 25,06 | 0,13 | 25,5 | 2,6 | $\mu\text{g/l}$ | 102% |
| Lead | 2,79 | 0,03 | 2,60 | 0,26 | $\mu\text{g/l}$ | 93% |
| Cadmium | 0,398 | 0,006 | 0,393 | 0,039 | $\mu\text{g/l}$ | 99% |
| Chromium | 0,795 | 0,010 | 0,78 | 0,08 | $\mu\text{g/l}$ | 98% |
| Iron | 33,9 | 0,4 | 32,2 | 3,2 | $\mu\text{g/l}$ | 95% |
| Copper | 4,63 | 0,04 | 4,39 | 0,44 | $\mu\text{g/l}$ | 95% |
| Manganese | 8,57 | 0,14 | 8,43 | 0,84 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 1,48 | 0,05 | 1,48 | 0,15 | $\mu\text{g/l}$ | 100% |
| Nickel | 2,84 | 0,03 | 2,80 | 0,28 | $\mu\text{g/l}$ | 99% |
| Selenium | 0,936 | 0,018 | 0,99 | 0,10 | $\mu\text{g/l}$ | 106% |
| Strontium | 339 | 3 | 400 | 60 | $\mu\text{g/l}$ | 118% |
| Uranium | 1,723 | 0,015 | 1,65 | 0,17 | $\mu\text{g/l}$ | 96% |
| Zinc | 28,7 | 2,5 | 28,1 | 2,8 | $\mu\text{g/l}$ | 98% |
| Tin | 1,89 | 0,03 | 1,80 | 0,18 | $\mu\text{g/l}$ | 95% |



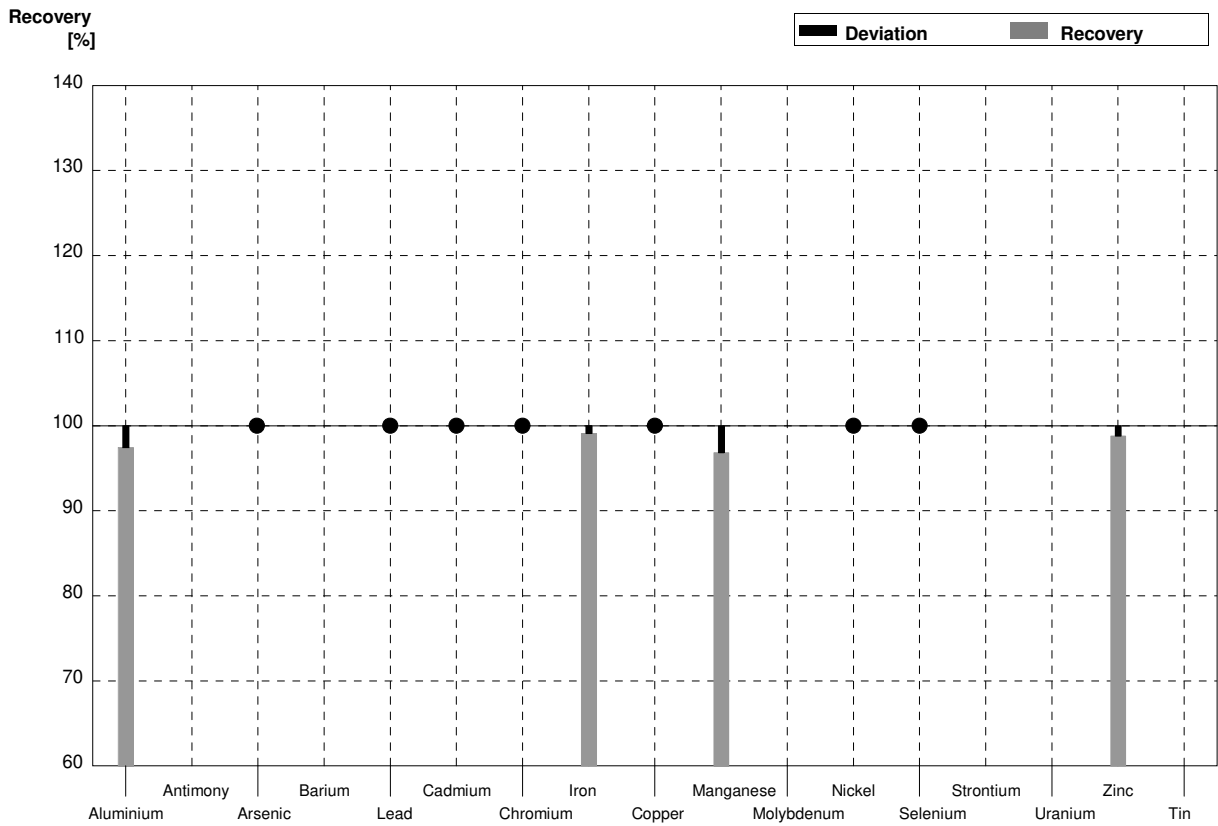
Sample M174B
Laboratory R

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 40,9 | 4,1 | $\mu\text{g/l}$ | 108% |
| Antimony | 0,445 | 0,015 | 0,452 | 0,045 | $\mu\text{g/l}$ | 102% |
| Arsenic | 1,804 | 0,015 | 1,94 | 0,20 | $\mu\text{g/l}$ | 108% |
| Barium | 60,3 | 0,2 | 61,8 | 6,2 | $\mu\text{g/l}$ | 102% |
| Lead | 7,08 | 0,04 | 6,59 | 0,66 | $\mu\text{g/l}$ | 93% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,10 | $\mu\text{g/l}$ | 99% |
| Chromium | 5,26 | 0,03 | 5,19 | 0,52 | $\mu\text{g/l}$ | 99% |
| Iron | 83,8 | 0,5 | 80,1 | 8,0 | $\mu\text{g/l}$ | 96% |
| Copper | 1,19 | 0,03 | 1,18 | 0,12 | $\mu\text{g/l}$ | 99% |
| Manganese | 21,92 | 0,18 | 21,5 | 2,2 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 4,89 | 0,06 | 4,93 | 0,49 | $\mu\text{g/l}$ | 101% |
| Nickel | 3,63 | 0,03 | 3,64 | 0,36 | $\mu\text{g/l}$ | 100% |
| Selenium | 2,31 | 0,02 | 2,48 | 0,25 | $\mu\text{g/l}$ | 107% |
| Strontium | 864 | 8 | 1070 | 160 | $\mu\text{g/l}$ | 124% |
| Uranium | 4,23 | 0,03 | 4,03 | 0,40 | $\mu\text{g/l}$ | 95% |
| Zinc | 57 | 2 | 56,5 | 5,7 | $\mu\text{g/l}$ | 99% |
| Tin | 0,74 | 0,02 | 0,735 | 0,074 | $\mu\text{g/l}$ | 99% |



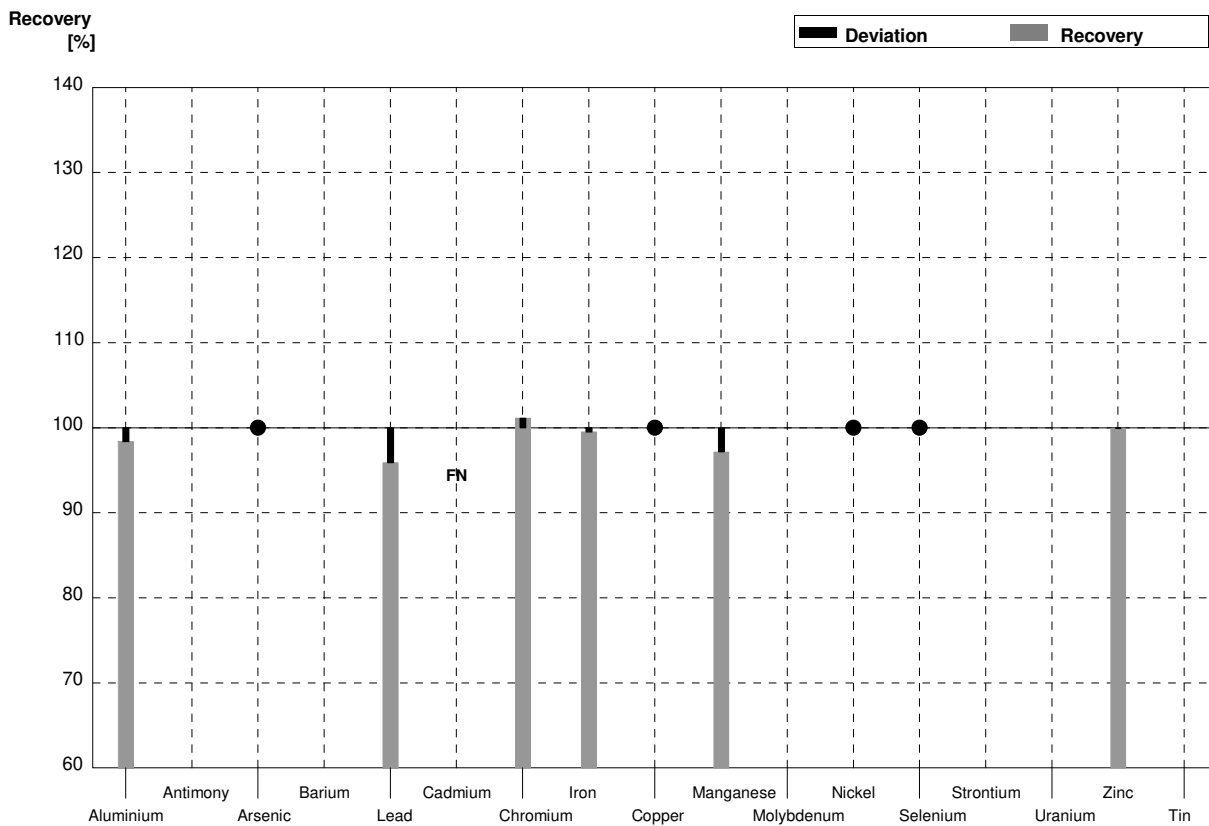
Sample M174A
Laboratory S

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,32 | 3,0 | $\mu\text{g/l}$ | 97% |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | < 5,0 | | $\mu\text{g/l}$ | • |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | <3 | | $\mu\text{g/l}$ | • |
| Cadmium | 0,398 | 0,006 | < 1,0 | | $\mu\text{g/l}$ | • |
| Chromium | 0,795 | 0,010 | < 2,0 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 33,6 | 3,3 | $\mu\text{g/l}$ | 99% |
| Copper | 4,63 | 0,04 | < 5,0 | | $\mu\text{g/l}$ | • |
| Manganese | 8,57 | 0,14 | 8,3 | 0,83 | $\mu\text{g/l}$ | 97% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | <5 | | $\mu\text{g/l}$ | • |
| Selenium | 0,936 | 0,018 | <10 | | $\mu\text{g/l}$ | • |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | 28,36 | 4,0 | $\mu\text{g/l}$ | 99% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



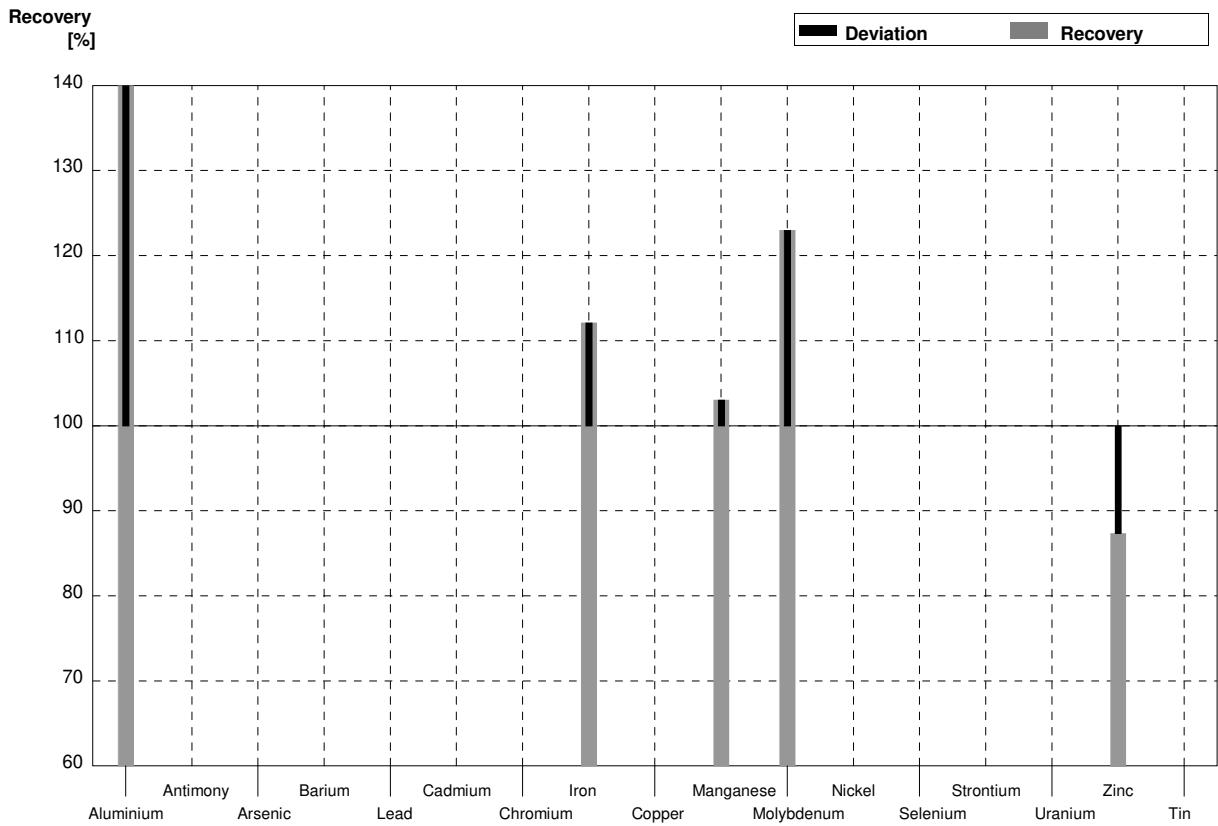
Sample M174B
Laboratory S

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 37,39 | 6,0 | µg/l | 98% |
| Antimony | 0,445 | 0,015 | | | µg/l | |
| Arsenic | 1,804 | 0,015 | < 5,0 | | µg/l | • |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | 6,79 | 1,20 | µg/l | 96% |
| Cadmium | 1,030 | 0,011 | < 1,0 | | µg/l | FN |
| Chromium | 5,26 | 0,03 | 5,32 | 0,40 | µg/l | 101% |
| Iron | 83,8 | 0,5 | 83,4 | 8,3 | µg/l | 100% |
| Copper | 1,19 | 0,03 | < 5,0 | | µg/l | • |
| Manganese | 21,92 | 0,18 | 21,3 | 2, 13 | µg/l | 97% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | <5 | | µg/l | • |
| Selenium | 2,31 | 0,02 | <10 | | µg/l | • |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | | | µg/l | |
| Zinc | 57 | 2 | 56,98 | 8,0 | µg/l | 100% |
| Tin | 0,74 | 0,02 | | | µg/l | |



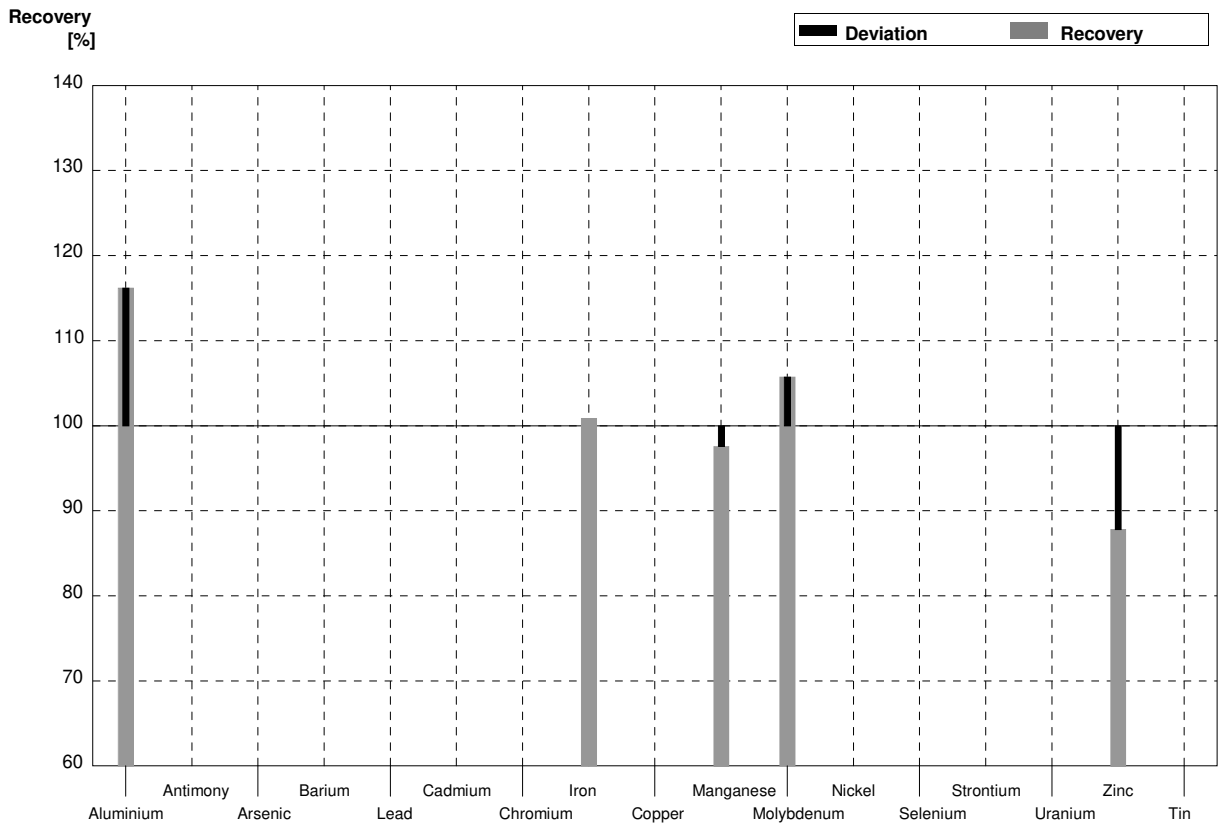
Sample M174A
Laboratory T

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 28,03 | 5,61 | $\mu\text{g/l}$ | 149% |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | | | $\mu\text{g/l}$ | |
| Cadmium | 0,398 | 0,006 | | | $\mu\text{g/l}$ | |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | 38,00 | 4,56 | $\mu\text{g/l}$ | 112% |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | 8,83 | 2,21 | $\mu\text{g/l}$ | 103% |
| Molybdenum | 1,48 | 0,05 | 1,82 | 0,45 | $\mu\text{g/l}$ | 123% |
| Nickel | 2,84 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | 25,07 | 5,26 | $\mu\text{g/l}$ | 87% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



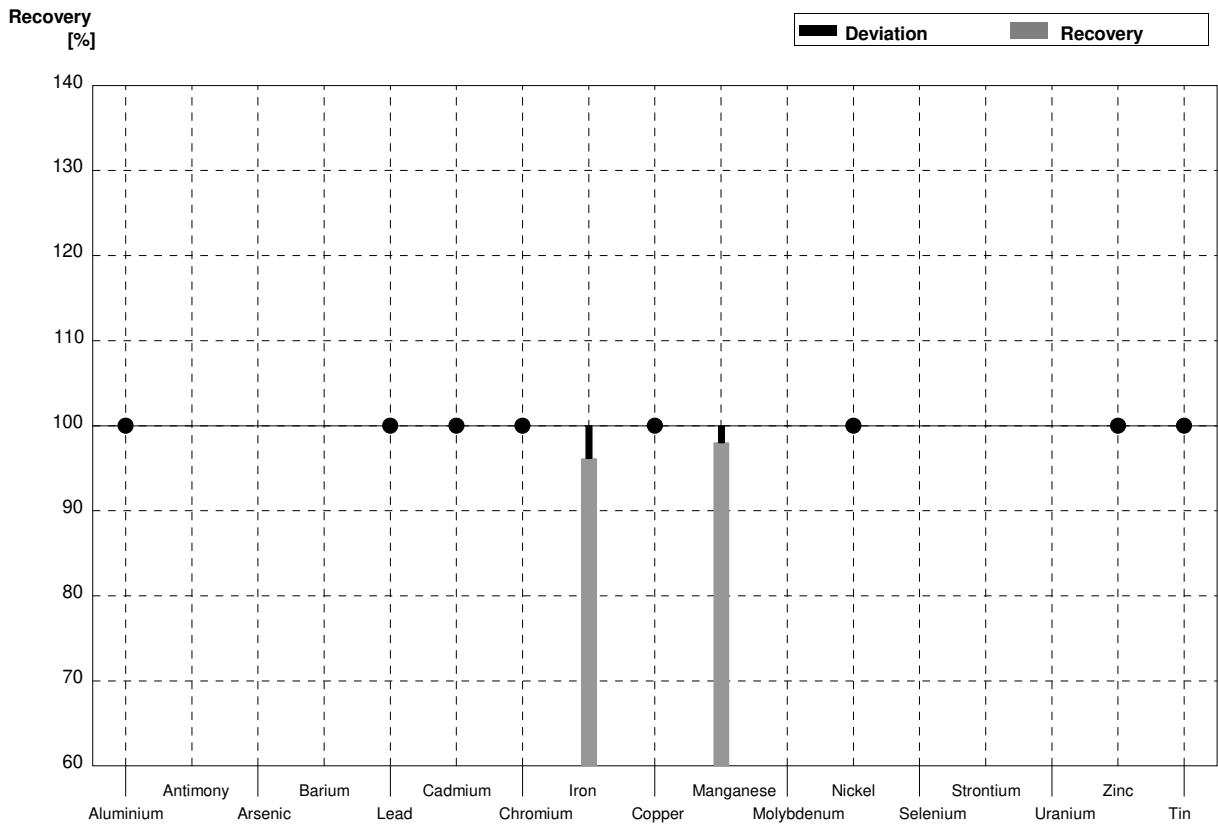
Sample M174B
Laboratory T

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 44,15 | 8,83 | $\mu\text{g/l}$ | 116% |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | | | $\mu\text{g/l}$ | |
| Lead | 7,08 | 0,04 | | | $\mu\text{g/l}$ | |
| Cadmium | 1,030 | 0,011 | | | $\mu\text{g/l}$ | |
| Chromium | 5,26 | 0,03 | | | $\mu\text{g/l}$ | |
| Iron | 83,8 | 0,5 | 84,55 | 10,15 | $\mu\text{g/l}$ | 101% |
| Copper | 1,19 | 0,03 | | | $\mu\text{g/l}$ | |
| Manganese | 21,92 | 0,18 | 21,39 | 5,35 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 4,89 | 0,06 | 5,17 | 1,29 | $\mu\text{g/l}$ | 106% |
| Nickel | 3,63 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | | | $\mu\text{g/l}$ | |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | 50,06 | 10,51 | $\mu\text{g/l}$ | 88% |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



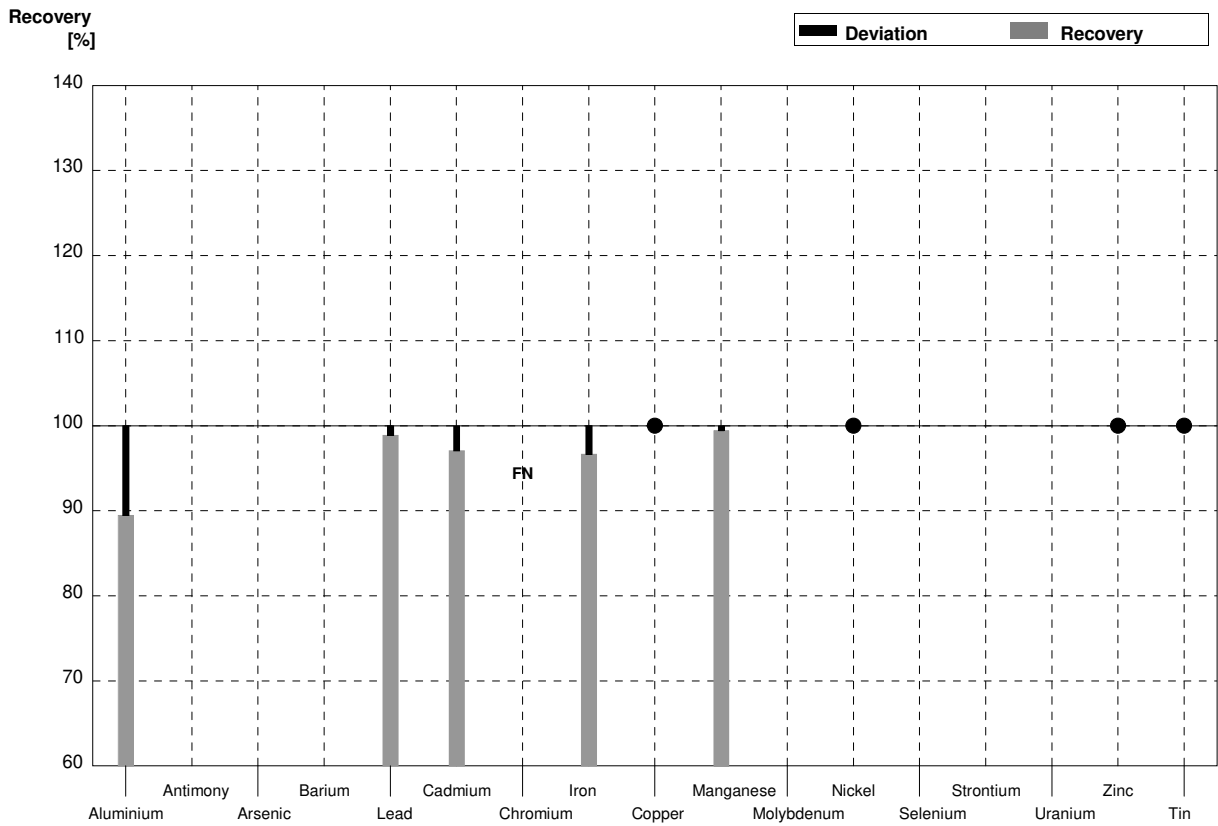
Sample M174A
Laboratory U

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | <20 | | $\mu\text{g/l}$ | • |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | <6 | | $\mu\text{g/l}$ | • |
| Cadmium | 0,398 | 0,006 | <0,5 | | $\mu\text{g/l}$ | • |
| Chromium | 0,795 | 0,010 | <5 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 32,6 | 5,2 | $\mu\text{g/l}$ | 96% |
| Copper | 4,63 | 0,04 | <150 | | $\mu\text{g/l}$ | • |
| Manganese | 8,57 | 0,14 | 8,4 | 1,2 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | <5 | | $\mu\text{g/l}$ | • |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | <500 | | $\mu\text{g/l}$ | • |
| Tin | 1,89 | 0,03 | <10 | | $\mu\text{g/l}$ | • |



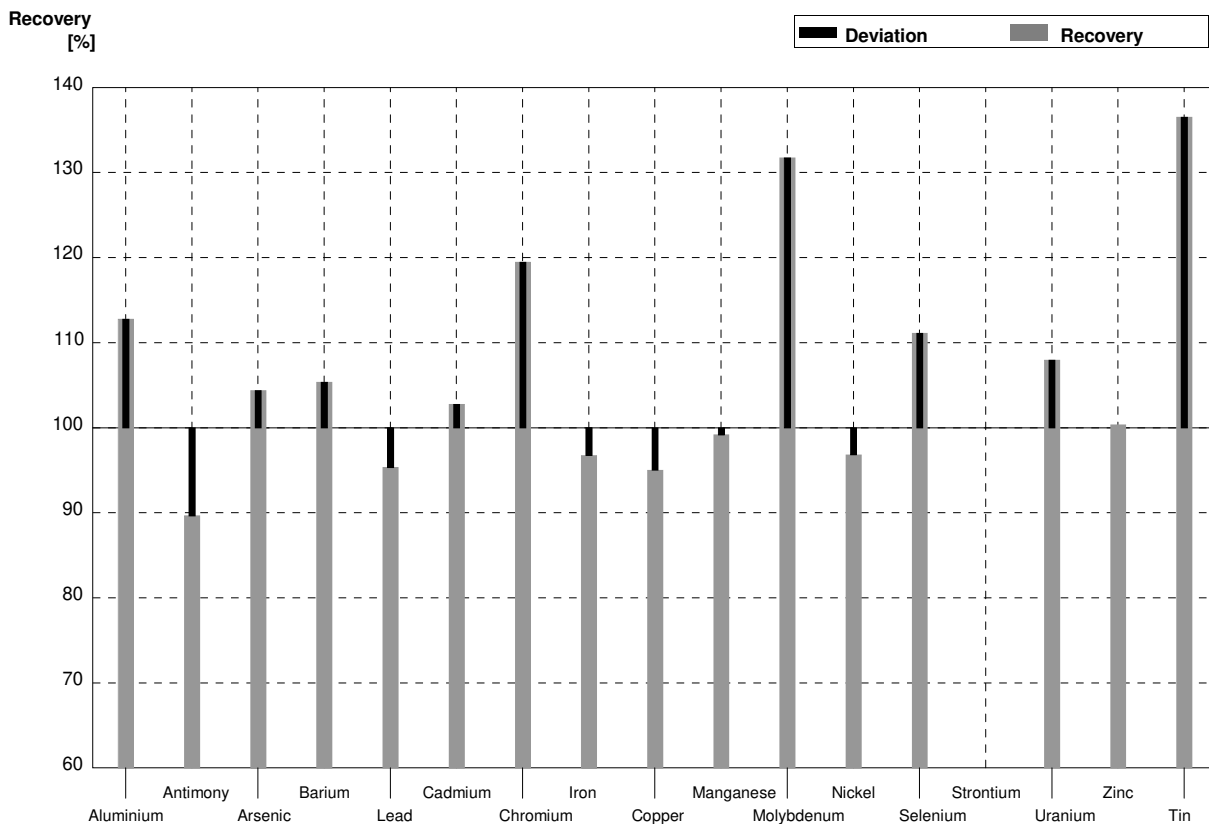
Sample M174B
Laboratory U

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 34,0 | 3,4 | µg/l | 89% |
| Antimony | 0,445 | 0,015 | | | µg/l | |
| Arsenic | 1,804 | 0,015 | | | µg/l | |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | 7,0 | 1,8 | µg/l | 99% |
| Cadmium | 1,030 | 0,011 | 1,00 | 0,11 | µg/l | 97% |
| Chromium | 5,26 | 0,03 | <5 | | µg/l | FN |
| Iron | 83,8 | 0,5 | 81 | 13 | µg/l | 97% |
| Copper | 1,19 | 0,03 | <150 | | µg/l | • |
| Manganese | 21,92 | 0,18 | 21,8 | 3,1 | µg/l | 99% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | <5 | | µg/l | • |
| Selenium | 2,31 | 0,02 | | | µg/l | |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | | | µg/l | |
| Zinc | 57 | 2 | <500 | | µg/l | • |
| Tin | 0,74 | 0,02 | <10 | | µg/l | • |



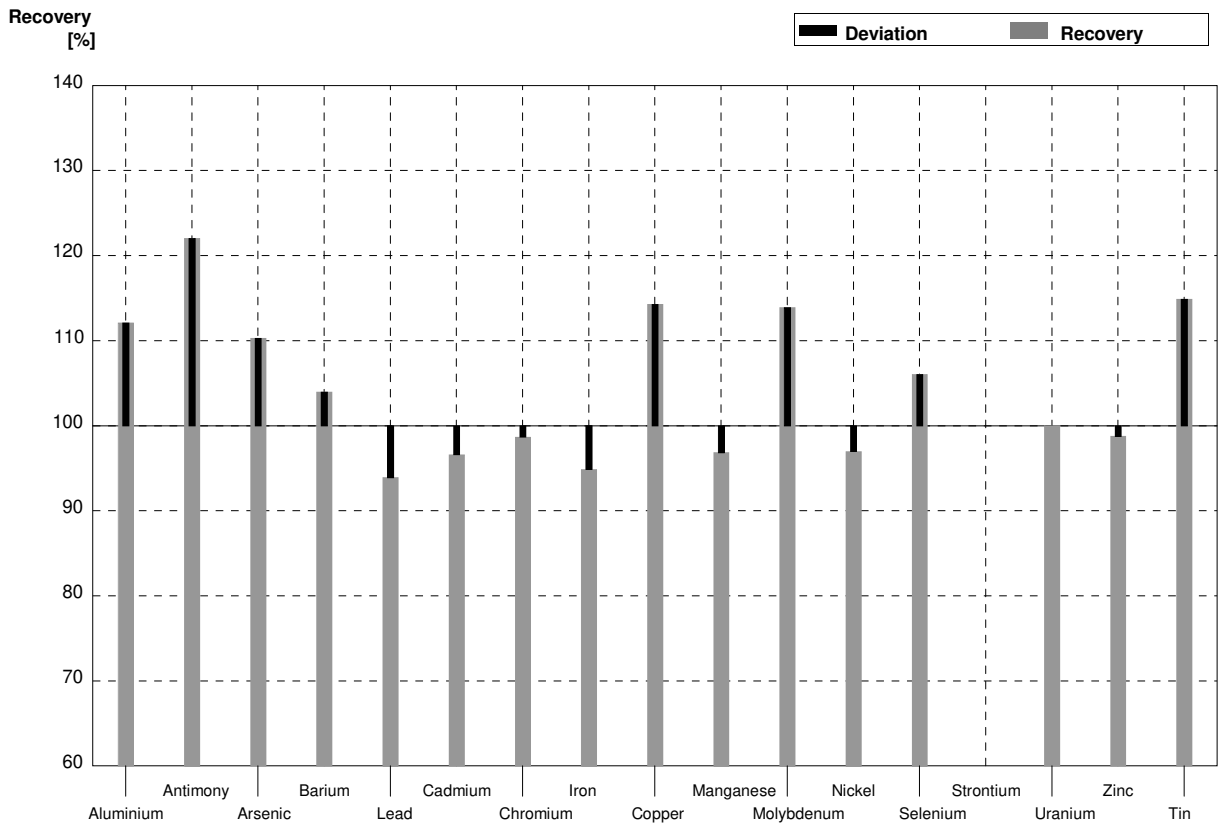
Sample M174A
Laboratory V

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 21,2 | 2,45 | $\mu\text{g/l}$ | 113% |
| Antimony | 1,210 | 0,018 | 1,085 | 0,09 | $\mu\text{g/l}$ | 90% |
| Arsenic | 5,02 | 0,03 | 5,24 | 0,51 | $\mu\text{g/l}$ | 104% |
| Barium | 25,06 | 0,13 | 26,4 | | $\mu\text{g/l}$ | 105% |
| Lead | 2,79 | 0,03 | 2,66 | 0,28 | $\mu\text{g/l}$ | 95% |
| Cadmium | 0,398 | 0,006 | 0,409 | 0,05 | $\mu\text{g/l}$ | 103% |
| Chromium | 0,795 | 0,010 | 0,95 | | $\mu\text{g/l}$ | 119% |
| Iron | 33,9 | 0,4 | 32,8 | 2,28 | $\mu\text{g/l}$ | 97% |
| Copper | 4,63 | 0,04 | 4,40 | | $\mu\text{g/l}$ | 95% |
| Manganese | 8,57 | 0,14 | 8,5 | 0,57 | $\mu\text{g/l}$ | 99% |
| Molybdenum | 1,48 | 0,05 | 1,95 | | $\mu\text{g/l}$ | 132% |
| Nickel | 2,84 | 0,03 | 2,75 | 0,23 | $\mu\text{g/l}$ | 97% |
| Selenium | 0,936 | 0,018 | 1,04 | 0,17 | $\mu\text{g/l}$ | 111% |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | 1,86 | | $\mu\text{g/l}$ | 108% |
| Zinc | 28,7 | 2,5 | 28,8 | 7,49 | $\mu\text{g/l}$ | 100% |
| Tin | 1,89 | 0,03 | 2,58 | | $\mu\text{g/l}$ | 137% |



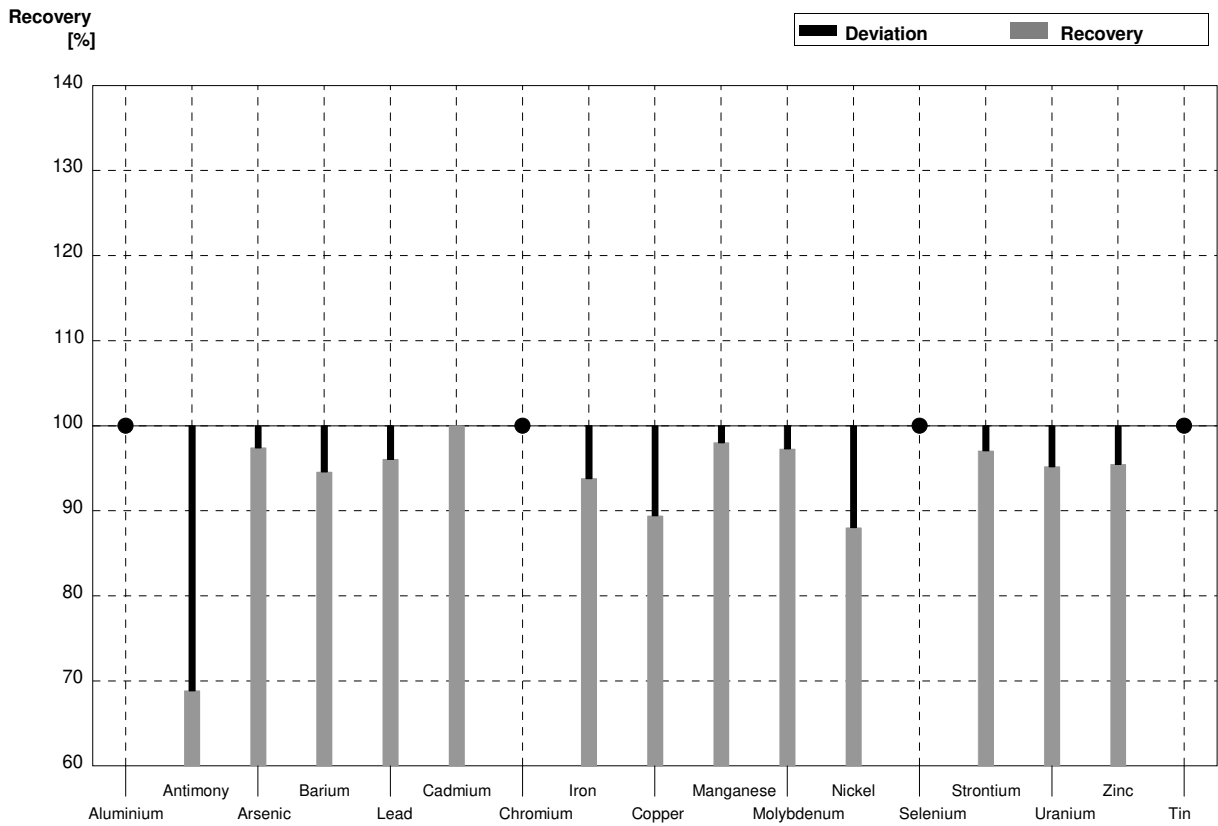
Sample M174B
Laboratory V

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 42,6 | 6,7 | µg/l | 112% |
| Antimony | 0,445 | 0,015 | 0,543 | | µg/l | 122% |
| Arsenic | 1,804 | 0,015 | 1,99 | 0,10 | µg/l | 110% |
| Barium | 60,3 | 0,2 | 62,7 | 4,61 | µg/l | 104% |
| Lead | 7,08 | 0,04 | 6,65 | 0,84 | µg/l | 94% |
| Cadmium | 1,030 | 0,011 | 0,995 | 0,01 | µg/l | 97% |
| Chromium | 5,26 | 0,03 | 5,19 | 0,84 | µg/l | 99% |
| Iron | 83,8 | 0,5 | 79,5 | 5,40 | µg/l | 95% |
| Copper | 1,19 | 0,03 | 1,36 | | µg/l | 114% |
| Manganese | 21,92 | 0,18 | 21,23 | 1,33 | µg/l | 97% |
| Molybdenum | 4,89 | 0,06 | 5,57 | 2,05 | µg/l | 114% |
| Nickel | 3,63 | 0,03 | 3,52 | 0,35 | µg/l | 97% |
| Selenium | 2,31 | 0,02 | 2,45 | 0,35 | µg/l | 106% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 4,23 | 0,36 | µg/l | 100% |
| Zinc | 57 | 2 | 56,3 | 8,71 | µg/l | 99% |
| Tin | 0,74 | 0,02 | 0,85 | | µg/l | 115% |



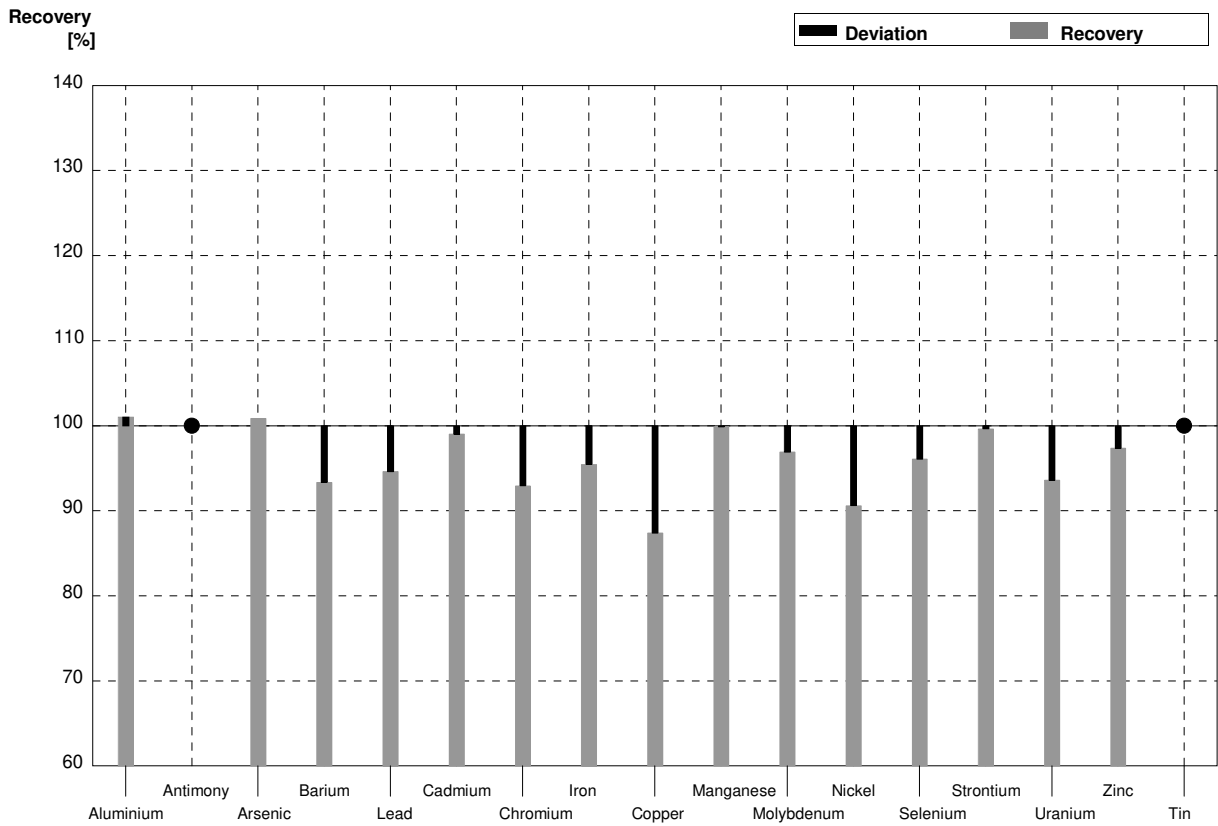
Sample M174A
Laboratory W

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | <20 | | µg/l | • |
| Antimony | 1,210 | 0,018 | 0,833 | 0,100 | µg/l | 69% |
| Arsenic | 5,02 | 0,03 | 4,89 | 0,244 | µg/l | 97% |
| Barium | 25,06 | 0,13 | 23,7 | 4,75 | µg/l | 95% |
| Lead | 2,79 | 0,03 | 2,68 | 0,617 | µg/l | 96% |
| Cadmium | 0,398 | 0,006 | 0,398 | 0,034 | µg/l | 100% |
| Chromium | 0,795 | 0,010 | <1 | | µg/l | • |
| Iron | 33,9 | 0,4 | 31,8 | 4,45 | µg/l | 94% |
| Copper | 4,63 | 0,04 | 4,14 | 1,160 | µg/l | 89% |
| Manganese | 8,57 | 0,14 | 8,40 | 0,63 | µg/l | 98% |
| Molybdenum | 1,48 | 0,05 | 1,44 | 0,144 | µg/l | 97% |
| Nickel | 2,84 | 0,03 | 2,50 | 0,200 | µg/l | 88% |
| Selenium | 0,936 | 0,018 | <1 | | µg/l | • |
| Strontium | 339 | 3 | 329 | 52,66 | µg/l | 97% |
| Uranium | 1,723 | 0,015 | 1,64 | 0,20 | µg/l | 95% |
| Zinc | 28,7 | 2,5 | 27,4 | 6,86 | µg/l | 95% |
| Tin | 1,89 | 0,03 | <10 | | µg/l | • |



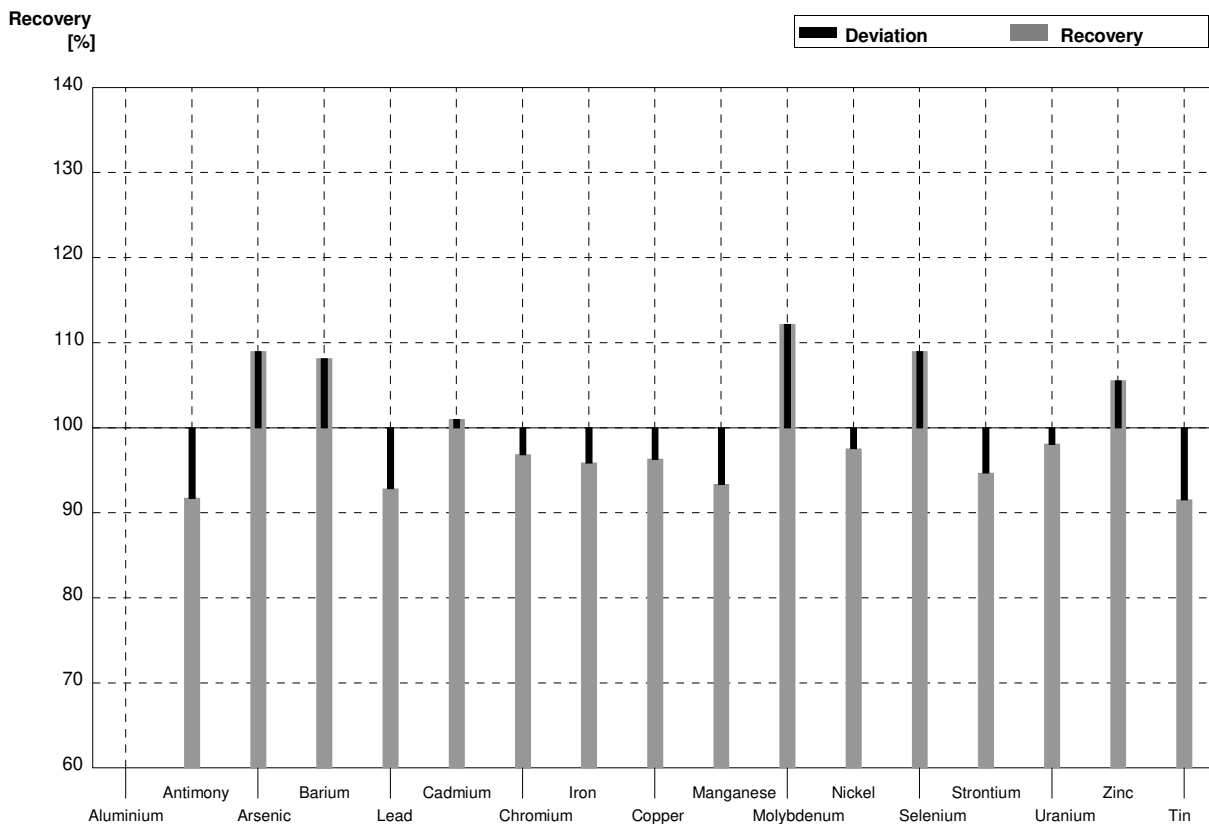
Sample M174B
Laboratory W

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|---------|------|----------|
| Aluminium | 38,0 | 0,4 | 38,4 | 3,458 | µg/l | 101% |
| Antimony | 0,445 | 0,015 | <0,5 | | µg/l | • |
| Arsenic | 1,804 | 0,015 | 1,82 | 0,091 | µg/l | 101% |
| Barium | 60,3 | 0,2 | 56,3 | 11,26 | µg/l | 93% |
| Lead | 7,08 | 0,04 | 6,70 | 1,541 | µg/l | 95% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,086 | µg/l | 99% |
| Chromium | 5,26 | 0,03 | 4,89 | 0,489 | µg/l | 93% |
| Iron | 83,8 | 0,5 | 80,0 | 11,196 | µg/l | 95% |
| Copper | 1,19 | 0,03 | 1,04 | 0,292 | µg/l | 87% |
| Manganese | 21,92 | 0,18 | 21,9 | 1,639 | µg/l | 100% |
| Molybdenum | 4,89 | 0,06 | 4,74 | 0,474 | µg/l | 97% |
| Nickel | 3,63 | 0,03 | 3,29 | 0,263 | µg/l | 91% |
| Selenium | 2,31 | 0,02 | 2,22 | 0,289 | µg/l | 96% |
| Strontium | 864 | 8 | 861 | 137,772 | µg/l | 100% |
| Uranium | 4,23 | 0,03 | 3,96 | 0,475 | µg/l | 94% |
| Zinc | 57 | 2 | 55,5 | 13,879 | µg/l | 97% |
| Tin | 0,74 | 0,02 | <10 | | µg/l | • |



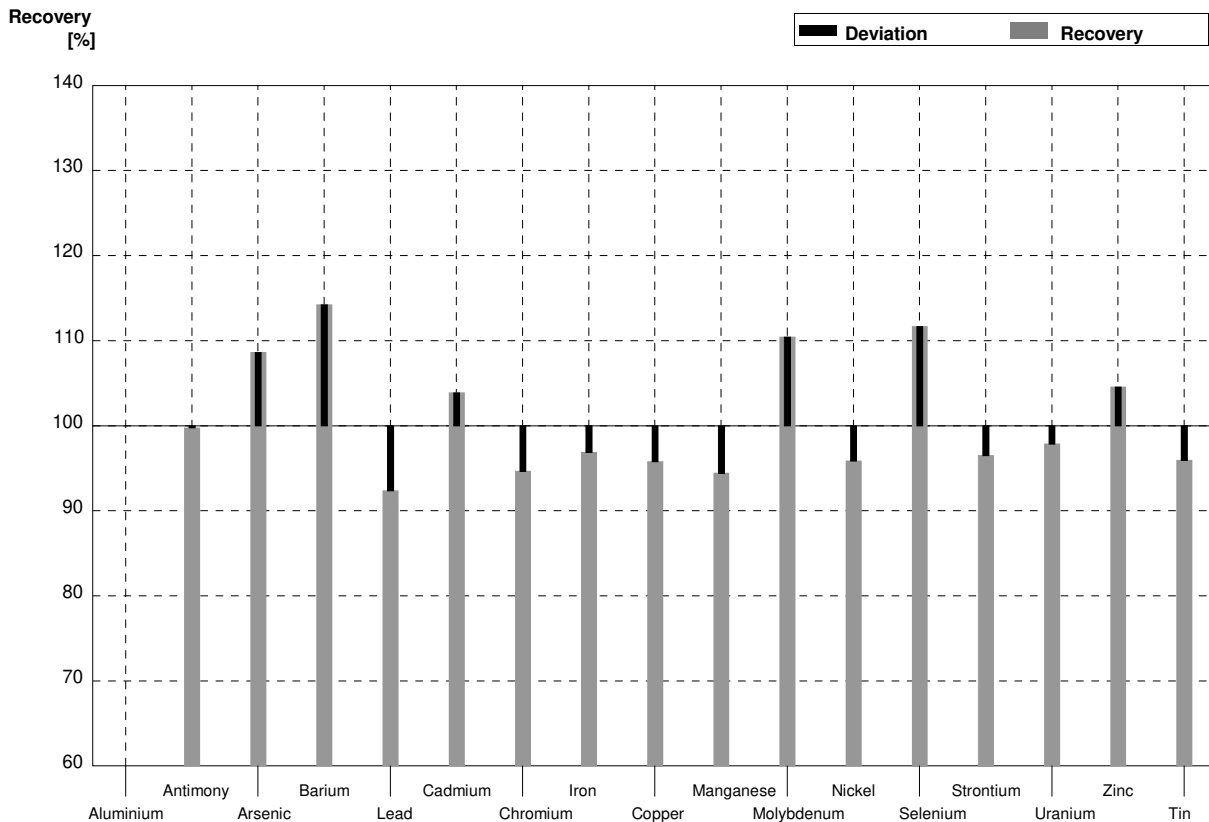
Sample M174A
Laboratory X

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | | | µg/l | |
| Antimony | 1,210 | 0,018 | 1,11 | 0,111 | µg/l | 92% |
| Arsenic | 5,02 | 0,03 | 5,47 | 0,821 | µg/l | 109% |
| Barium | 25,06 | 0,13 | 27,1 | 2,7 | µg/l | 108% |
| Lead | 2,79 | 0,03 | 2,59 | 0,259 | µg/l | 93% |
| Cadmium | 0,398 | 0,006 | 0,402 | 0,040 | µg/l | 101% |
| Chromium | 0,795 | 0,010 | 0,77 | 0,077 | µg/l | 97% |
| Iron | 33,9 | 0,4 | 32,5 | 3,25 | µg/l | 96% |
| Copper | 4,63 | 0,04 | 4,46 | 0,446 | µg/l | 96% |
| Manganese | 8,57 | 0,14 | 8,0 | 0,8 | µg/l | 93% |
| Molybdenum | 1,48 | 0,05 | 1,66 | 0,166 | µg/l | 112% |
| Nickel | 2,84 | 0,03 | 2,77 | 0,277 | µg/l | 98% |
| Selenium | 0,936 | 0,018 | 1,02 | 0,153 | µg/l | 109% |
| Strontium | 339 | 3 | 321 | 32,1 | µg/l | 95% |
| Uranium | 1,723 | 0,015 | 1,69 | 0,169 | µg/l | 98% |
| Zinc | 28,7 | 2,5 | 30,3 | 3,03 | µg/l | 106% |
| Tin | 1,89 | 0,03 | 1,73 | 0,173 | µg/l | 92% |



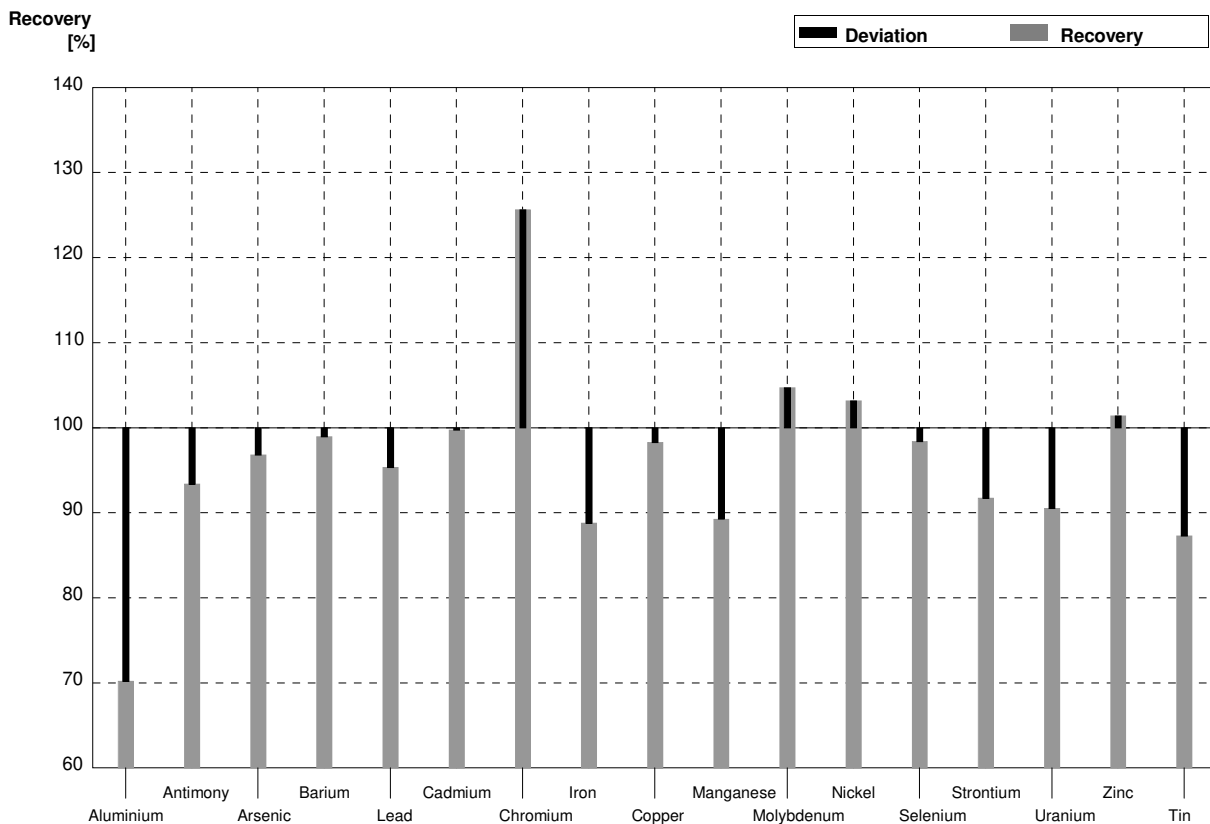
Sample M174B
Laboratory X

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | | | $\mu\text{g/l}$ | |
| Antimony | 0,445 | 0,015 | 0,444 | 0,0444 | $\mu\text{g/l}$ | 100% |
| Arsenic | 1,804 | 0,015 | 1,96 | 0,294 | $\mu\text{g/l}$ | 109% |
| Barium | 60,3 | 0,2 | 68,9 | 6,89 | $\mu\text{g/l}$ | 114% |
| Lead | 7,08 | 0,04 | 6,54 | 0,654 | $\mu\text{g/l}$ | 92% |
| Cadmium | 1,030 | 0,011 | 1,07 | 0,107 | $\mu\text{g/l}$ | 104% |
| Chromium | 5,26 | 0,03 | 4,98 | 0,498 | $\mu\text{g/l}$ | 95% |
| Iron | 83,8 | 0,5 | 81,2 | 8,12 | $\mu\text{g/l}$ | 97% |
| Copper | 1,19 | 0,03 | 1,14 | 0,114 | $\mu\text{g/l}$ | 96% |
| Manganese | 21,92 | 0,18 | 20,7 | 2,07 | $\mu\text{g/l}$ | 94% |
| Molybdenum | 4,89 | 0,06 | 5,4 | 0,54 | $\mu\text{g/l}$ | 110% |
| Nickel | 3,63 | 0,03 | 3,48 | 0,348 | $\mu\text{g/l}$ | 96% |
| Selenium | 2,31 | 0,02 | 2,58 | 0,387 | $\mu\text{g/l}$ | 112% |
| Strontium | 864 | 8 | 834 | 83,4 | $\mu\text{g/l}$ | 97% |
| Uranium | 4,23 | 0,03 | 4,14 | 0,414 | $\mu\text{g/l}$ | 98% |
| Zinc | 57 | 2 | 59,6 | 5,96 | $\mu\text{g/l}$ | 105% |
| Tin | 0,74 | 0,02 | 0,71 | 0,071 | $\mu\text{g/l}$ | 96% |



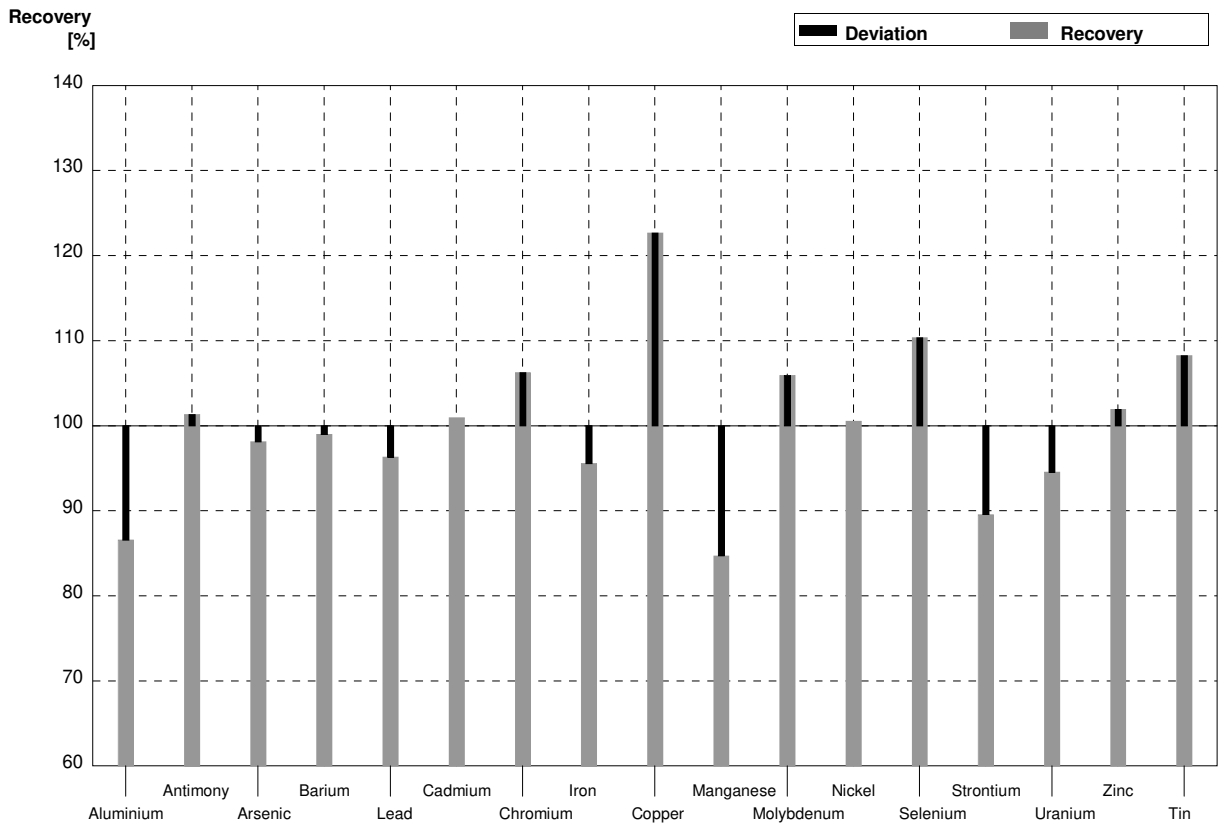
Sample M174A
Laboratory Y

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 13,2 | 2,6 | $\mu\text{g/l}$ | 70% |
| Antimony | 1,210 | 0,018 | 1,13 | 0,225 | $\mu\text{g/l}$ | 93% |
| Arsenic | 5,02 | 0,03 | 4,86 | 0,973 | $\mu\text{g/l}$ | 97% |
| Barium | 25,06 | 0,13 | 24,8 | 4,96 | $\mu\text{g/l}$ | 99% |
| Lead | 2,79 | 0,03 | 2,66 | 0,532 | $\mu\text{g/l}$ | 95% |
| Cadmium | 0,398 | 0,006 | 0,397 | 0,079 | $\mu\text{g/l}$ | 100% |
| Chromium | 0,795 | 0,010 | 0,999 | 0,200 | $\mu\text{g/l}$ | 126% |
| Iron | 33,9 | 0,4 | 30,1 | 6,02 | $\mu\text{g/l}$ | 89% |
| Copper | 4,63 | 0,04 | 4,55 | 0,91 | $\mu\text{g/l}$ | 98% |
| Manganese | 8,57 | 0,14 | 7,65 | 1,53 | $\mu\text{g/l}$ | 89% |
| Molybdenum | 1,48 | 0,05 | 1,55 | 0,31 | $\mu\text{g/l}$ | 105% |
| Nickel | 2,84 | 0,03 | 2,93 | 0,58 | $\mu\text{g/l}$ | 103% |
| Selenium | 0,936 | 0,018 | 0,921 | 0,184 | $\mu\text{g/l}$ | 98% |
| Strontium | 339 | 3 | 311 | 62,2 | $\mu\text{g/l}$ | 92% |
| Uranium | 1,723 | 0,015 | 1,56 | 0,311 | $\mu\text{g/l}$ | 91% |
| Zinc | 28,7 | 2,5 | 29,1 | 5,82 | $\mu\text{g/l}$ | 101% |
| Tin | 1,89 | 0,03 | 1,65 | 0,33 | $\mu\text{g/l}$ | 87% |



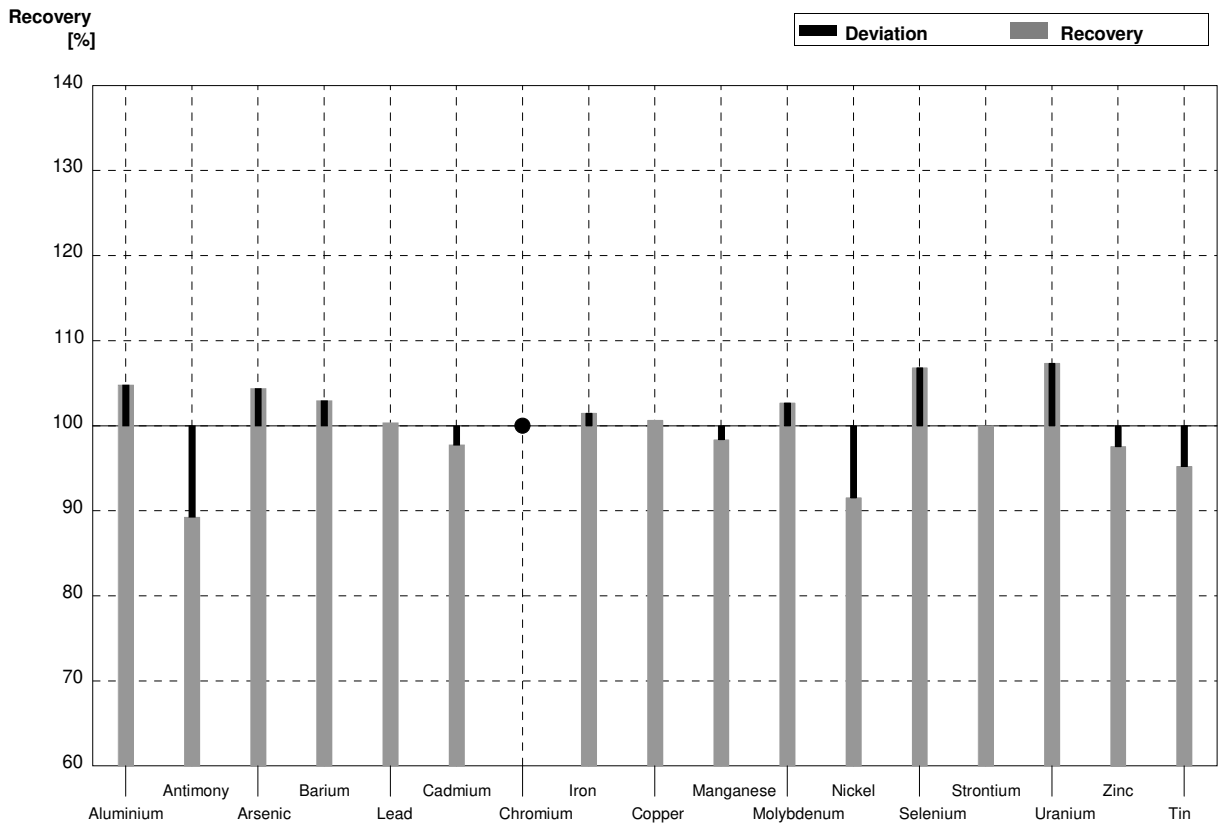
Sample M174B
Laboratory Y

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | 32,9 | 6,6 | µg/l | 87% |
| Antimony | 0,445 | 0,015 | 0,451 | 0,090 | µg/l | 101% |
| Arsenic | 1,804 | 0,015 | 1,77 | 0,354 | µg/l | 98% |
| Barium | 60,3 | 0,2 | 59,7 | 11,9 | µg/l | 99% |
| Lead | 7,08 | 0,04 | 6,82 | 1,36 | µg/l | 96% |
| Cadmium | 1,030 | 0,011 | 1,04 | 0,208 | µg/l | 101% |
| Chromium | 5,26 | 0,03 | 5,59 | 1,12 | µg/l | 106% |
| Iron | 83,8 | 0,5 | 80,1 | 16,0 | µg/l | 96% |
| Copper | 1,19 | 0,03 | 1,46 | 0,29 | µg/l | 123% |
| Manganese | 21,92 | 0,18 | 18,57 | 3,71 | µg/l | 85% |
| Molybdenum | 4,89 | 0,06 | 5,18 | 1,04 | µg/l | 106% |
| Nickel | 3,63 | 0,03 | 3,65 | 0,73 | µg/l | 101% |
| Selenium | 2,31 | 0,02 | 2,55 | 0,509 | µg/l | 110% |
| Strontium | 864 | 8 | 774 | 155 | µg/l | 90% |
| Uranium | 4,23 | 0,03 | 4,00 | 0,801 | µg/l | 95% |
| Zinc | 57 | 2 | 58,1 | 11,6 | µg/l | 102% |
| Tin | 0,74 | 0,02 | 0,801 | 0,160 | µg/l | 108% |



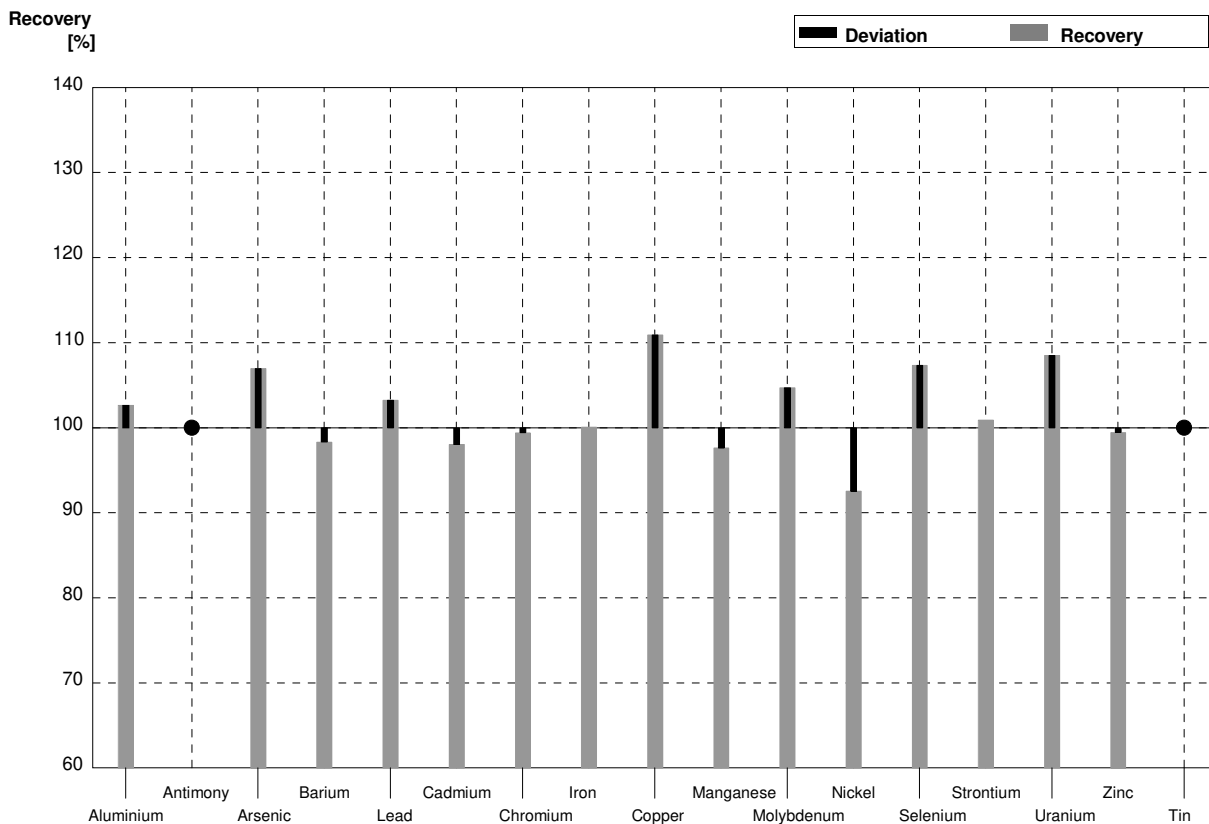
Sample M174A
Laboratory Z

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 19,7 | 2,95 | $\mu\text{g/l}$ | 105% |
| Antimony | 1,210 | 0,018 | 1,08 | 0,16 | $\mu\text{g/l}$ | 89% |
| Arsenic | 5,02 | 0,03 | 5,24 | 0,79 | $\mu\text{g/l}$ | 104% |
| Barium | 25,06 | 0,13 | 25,8 | 3,86 | $\mu\text{g/l}$ | 103% |
| Lead | 2,79 | 0,03 | 2,80 | 0,42 | $\mu\text{g/l}$ | 100% |
| Cadmium | 0,398 | 0,006 | 0,389 | 0,058 | $\mu\text{g/l}$ | 98% |
| Chromium | 0,795 | 0,010 | <1 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 34,4 | 5,16 | $\mu\text{g/l}$ | 101% |
| Copper | 4,63 | 0,04 | 4,66 | 0,70 | $\mu\text{g/l}$ | 101% |
| Manganese | 8,57 | 0,14 | 8,43 | 1,26 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 1,48 | 0,05 | 1,52 | 0,23 | $\mu\text{g/l}$ | 103% |
| Nickel | 2,84 | 0,03 | 2,60 | 0,39 | $\mu\text{g/l}$ | 92% |
| Selenium | 0,936 | 0,018 | 1,00 | 0,15 | $\mu\text{g/l}$ | 107% |
| Strontium | 339 | 3 | 339 | 50,9 | $\mu\text{g/l}$ | 100% |
| Uranium | 1,723 | 0,015 | 1,85 | 0,28 | $\mu\text{g/l}$ | 107% |
| Zinc | 28,7 | 2,5 | 28,0 | 4,20 | $\mu\text{g/l}$ | 98% |
| Tin | 1,89 | 0,03 | 1,80 | 0,27 | $\mu\text{g/l}$ | 95% |



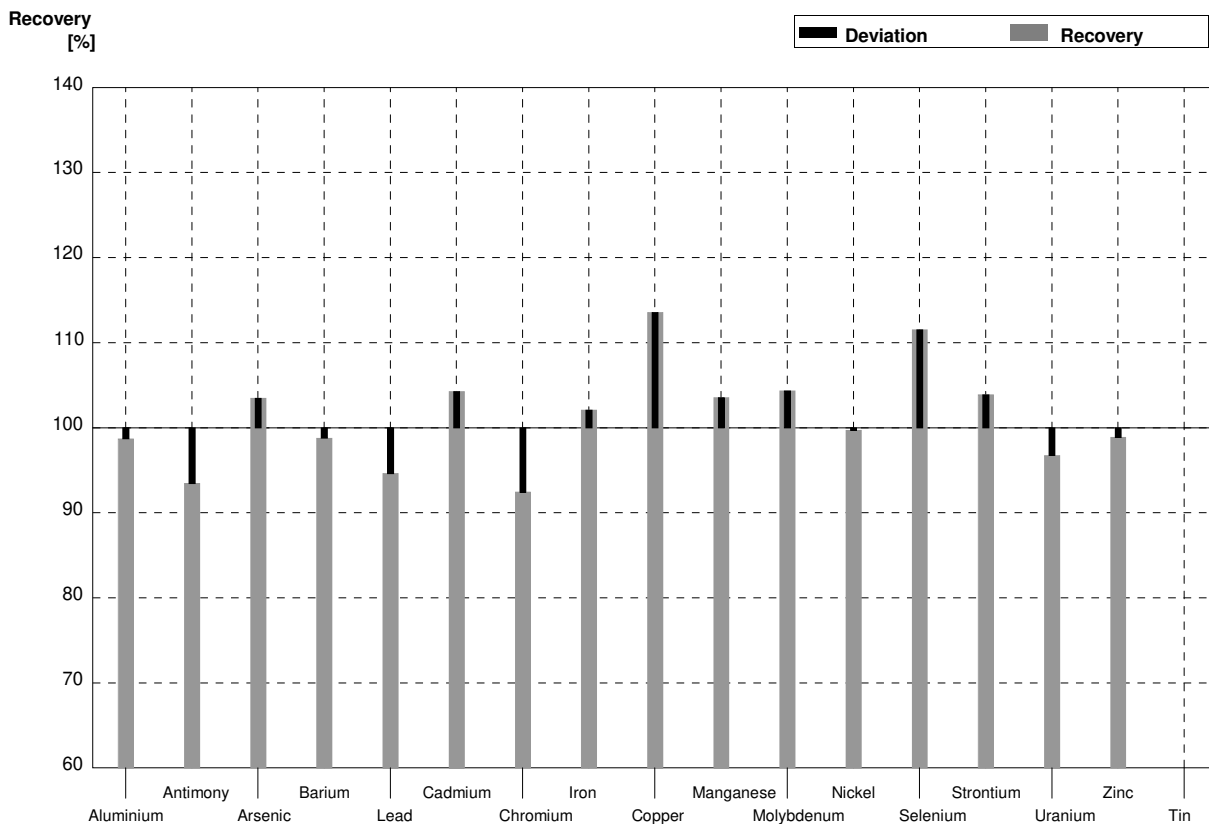
Sample M174B
Laboratory Z

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 39,0 | 5,85 | $\mu\text{g/l}$ | 103% |
| Antimony | 0,445 | 0,015 | <1 | | $\mu\text{g/l}$ | • |
| Arsenic | 1,804 | 0,015 | 1,93 | 0,29 | $\mu\text{g/l}$ | 107% |
| Barium | 60,3 | 0,2 | 59,3 | 8,90 | $\mu\text{g/l}$ | 98% |
| Lead | 7,08 | 0,04 | 7,31 | 1,10 | $\mu\text{g/l}$ | 103% |
| Cadmium | 1,030 | 0,011 | 1,01 | 0,15 | $\mu\text{g/l}$ | 98% |
| Chromium | 5,26 | 0,03 | 5,23 | 0,78 | $\mu\text{g/l}$ | 99% |
| Iron | 83,8 | 0,5 | 83,9 | 12,6 | $\mu\text{g/l}$ | 100% |
| Copper | 1,19 | 0,03 | 1,32 | 0,20 | $\mu\text{g/l}$ | 111% |
| Manganese | 21,92 | 0,18 | 21,4 | 3,21 | $\mu\text{g/l}$ | 98% |
| Molybdenum | 4,89 | 0,06 | 5,12 | 0,77 | $\mu\text{g/l}$ | 105% |
| Nickel | 3,63 | 0,03 | 3,36 | 0,50 | $\mu\text{g/l}$ | 93% |
| Selenium | 2,31 | 0,02 | 2,48 | 0,37 | $\mu\text{g/l}$ | 107% |
| Strontium | 864 | 8 | 872 | 131 | $\mu\text{g/l}$ | 101% |
| Uranium | 4,23 | 0,03 | 4,59 | 0,69 | $\mu\text{g/l}$ | 109% |
| Zinc | 57 | 2 | 56,7 | 8,50 | $\mu\text{g/l}$ | 99% |
| Tin | 0,74 | 0,02 | <1 | | $\mu\text{g/l}$ | • |



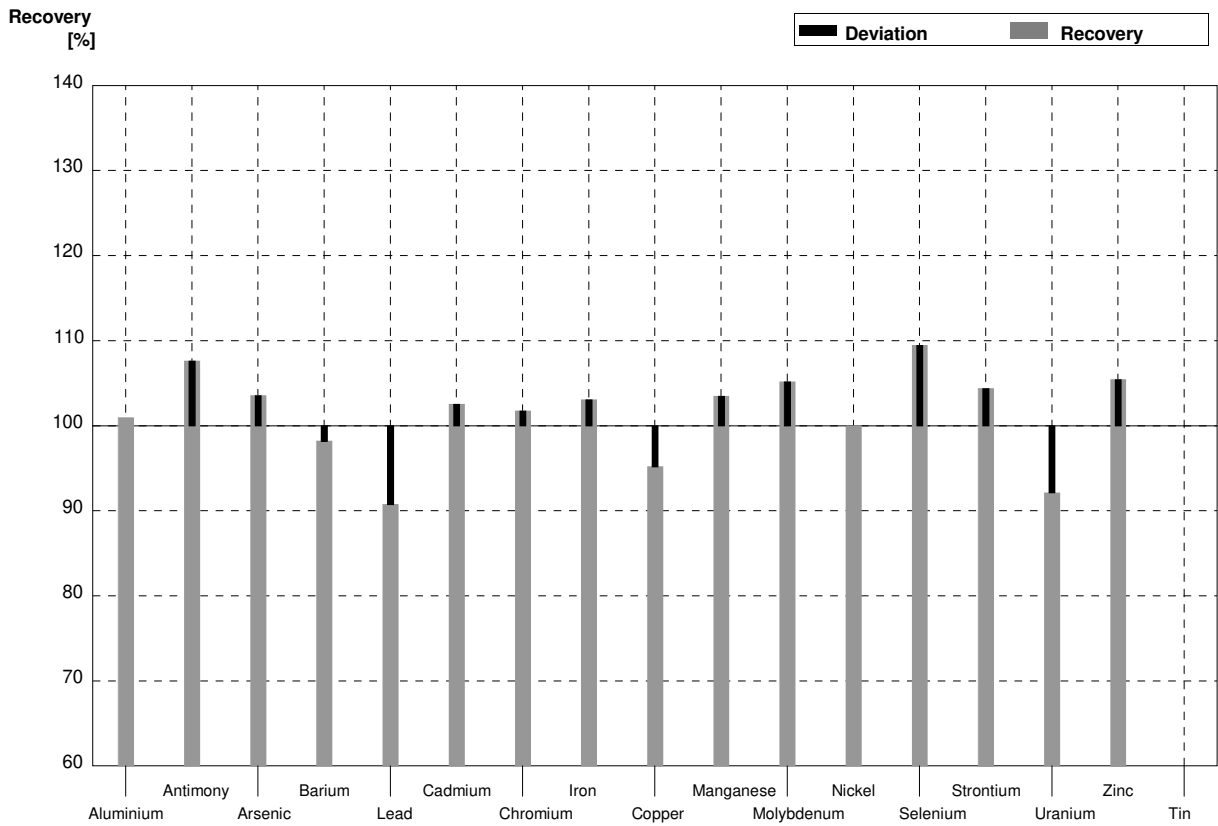
Sample M174A
Laboratory AA

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,56 | | $\mu\text{g/l}$ | 99% |
| Antimony | 1,210 | 0,018 | 1,131 | | $\mu\text{g/l}$ | 93% |
| Arsenic | 5,02 | 0,03 | 5,196 | | $\mu\text{g/l}$ | 104% |
| Barium | 25,06 | 0,13 | 24,76 | | $\mu\text{g/l}$ | 99% |
| Lead | 2,79 | 0,03 | 2,640 | | $\mu\text{g/l}$ | 95% |
| Cadmium | 0,398 | 0,006 | 0,415 | | $\mu\text{g/l}$ | 104% |
| Chromium | 0,795 | 0,010 | 0,735 | | $\mu\text{g/l}$ | 92% |
| Iron | 33,9 | 0,4 | 34,61 | | $\mu\text{g/l}$ | 102% |
| Copper | 4,63 | 0,04 | 5,258 | | $\mu\text{g/l}$ | 114% |
| Manganese | 8,57 | 0,14 | 8,875 | | $\mu\text{g/l}$ | 104% |
| Molybdenum | 1,48 | 0,05 | 1,544 | | $\mu\text{g/l}$ | 104% |
| Nickel | 2,84 | 0,03 | 2,832 | | $\mu\text{g/l}$ | 100% |
| Selenium | 0,936 | 0,018 | 1,044 | | $\mu\text{g/l}$ | 112% |
| Strontium | 339 | 3 | 352,2 | | $\mu\text{g/l}$ | 104% |
| Uranium | 1,723 | 0,015 | 1,667 | | $\mu\text{g/l}$ | 97% |
| Zinc | 28,7 | 2,5 | 28,38 | | $\mu\text{g/l}$ | 99% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



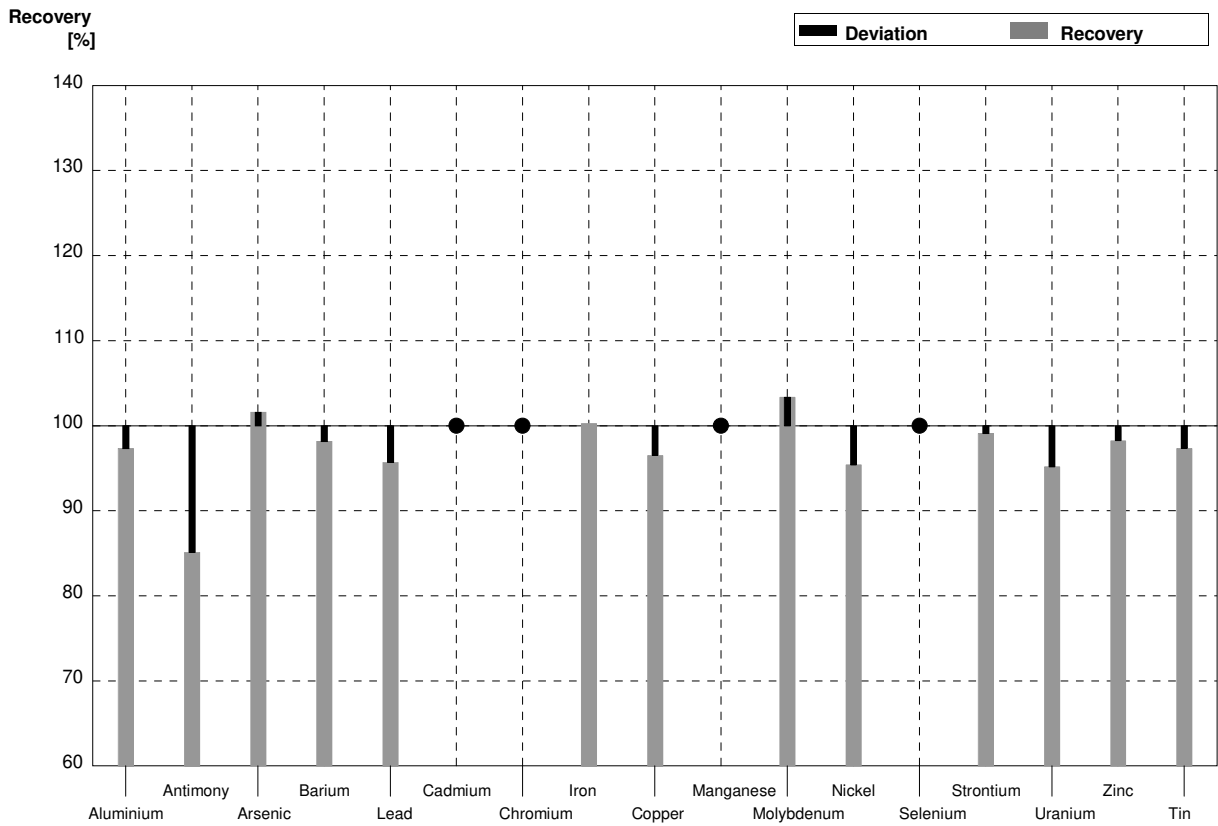
Sample M174B
Laboratory AA

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|---|------|----------|
| Aluminium | 38,0 | 0,4 | 38,36 | | µg/l | 101% |
| Antimony | 0,445 | 0,015 | 0,479 | | µg/l | 108% |
| Arsenic | 1,804 | 0,015 | 1,868 | | µg/l | 104% |
| Barium | 60,3 | 0,2 | 59,22 | | µg/l | 98% |
| Lead | 7,08 | 0,04 | 6,425 | | µg/l | 91% |
| Cadmium | 1,030 | 0,011 | 1,056 | | µg/l | 103% |
| Chromium | 5,26 | 0,03 | 5,352 | | µg/l | 102% |
| Iron | 83,8 | 0,5 | 86,38 | | µg/l | 103% |
| Copper | 1,19 | 0,03 | 1,133 | | µg/l | 95% |
| Manganese | 21,92 | 0,18 | 22,68 | | µg/l | 103% |
| Molybdenum | 4,89 | 0,06 | 5,143 | | µg/l | 105% |
| Nickel | 3,63 | 0,03 | 3,631 | | µg/l | 100% |
| Selenium | 2,31 | 0,02 | 2,529 | | µg/l | 109% |
| Strontium | 864 | 8 | 901,8 | | µg/l | 104% |
| Uranium | 4,23 | 0,03 | 3,897 | | µg/l | 92% |
| Zinc | 57 | 2 | 60,09 | | µg/l | 105% |
| Tin | 0,74 | 0,02 | | | µg/l | |



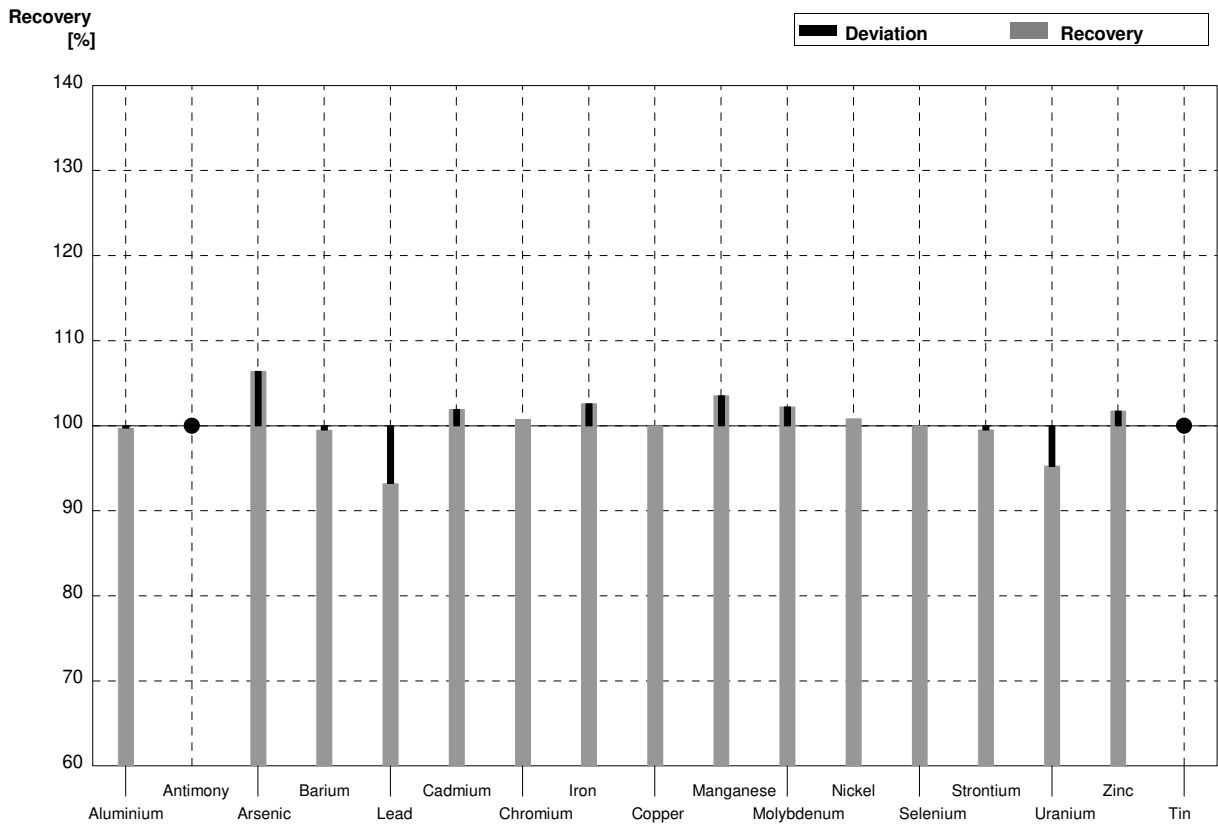
Sample M174A
Laboratory AB

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 18,3 | 3,66 | µg/l | 97% |
| Antimony | 1,210 | 0,018 | 1,03 | 0,206 | µg/l | 85% |
| Arsenic | 5,02 | 0,03 | 5,1 | 1,02 | µg/l | 102% |
| Barium | 25,06 | 0,13 | 24,6 | 3,69 | µg/l | 98% |
| Lead | 2,79 | 0,03 | 2,67 | 0,53 | µg/l | 96% |
| Cadmium | 0,398 | 0,006 | <0,5 | | µg/l | • |
| Chromium | 0,795 | 0,010 | <5 | | µg/l | • |
| Iron | 33,9 | 0,4 | 34,0 | 6,8 | µg/l | 100% |
| Copper | 4,63 | 0,04 | 4,47 | 0,89 | µg/l | 97% |
| Manganese | 8,57 | 0,14 | <10 | | µg/l | • |
| Molybdenum | 1,48 | 0,05 | 1,53 | 0,306 | µg/l | 103% |
| Nickel | 2,84 | 0,03 | 2,71 | 0,54 | µg/l | 95% |
| Selenium | 0,936 | 0,018 | <1 | | µg/l | • |
| Strontium | 339 | 3 | 336 | 67 | µg/l | 99% |
| Uranium | 1,723 | 0,015 | 1,64 | 0,328 | µg/l | 95% |
| Zinc | 28,7 | 2,5 | 28,2 | 5,6 | µg/l | 98% |
| Tin | 1,89 | 0,03 | 1,84 | 0,368 | µg/l | 97% |



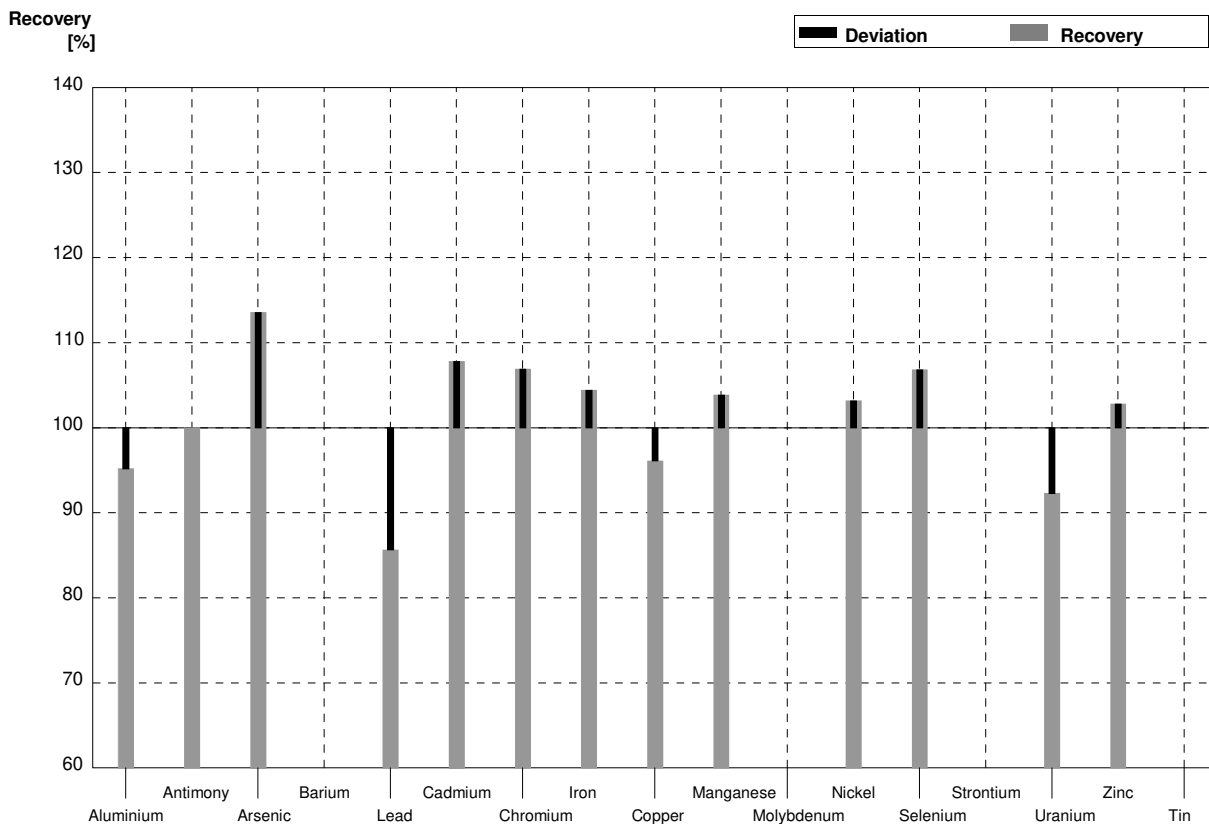
Sample M174B
Laboratory AB

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 37,9 | 7,6 | $\mu\text{g/l}$ | 100% |
| Antimony | 0,445 | 0,015 | <1 | | $\mu\text{g/l}$ | • |
| Arsenic | 1,804 | 0,015 | 1,92 | 0,384 | $\mu\text{g/l}$ | 106% |
| Barium | 60,3 | 0,2 | 60 | 8,9 | $\mu\text{g/l}$ | 100% |
| Lead | 7,08 | 0,04 | 6,6 | 1,33 | $\mu\text{g/l}$ | 93% |
| Cadmium | 1,030 | 0,011 | 1,05 | 0,158 | $\mu\text{g/l}$ | 102% |
| Chromium | 5,26 | 0,03 | 5,3 | 0,83 | $\mu\text{g/l}$ | 101% |
| Iron | 83,8 | 0,5 | 86 | 17,3 | $\mu\text{g/l}$ | 103% |
| Copper | 1,19 | 0,03 | 1,19 | 0,238 | $\mu\text{g/l}$ | 100% |
| Manganese | 21,92 | 0,18 | 22,7 | 4,55 | $\mu\text{g/l}$ | 104% |
| Molybdenum | 4,89 | 0,06 | 5,0 | 1,01 | $\mu\text{g/l}$ | 102% |
| Nickel | 3,63 | 0,03 | 3,66 | 0,73 | $\mu\text{g/l}$ | 101% |
| Selenium | 2,31 | 0,02 | 2,31 | 0,462 | $\mu\text{g/l}$ | 100% |
| Strontium | 864 | 8 | 860 | | $\mu\text{g/l}$ | 100% |
| Uranium | 4,23 | 0,03 | 4,03 | 0,81 | $\mu\text{g/l}$ | 95% |
| Zinc | 57 | 2 | 58 | 11,5 | $\mu\text{g/l}$ | 102% |
| Tin | 0,74 | 0,02 | <1 | | $\mu\text{g/l}$ | • |



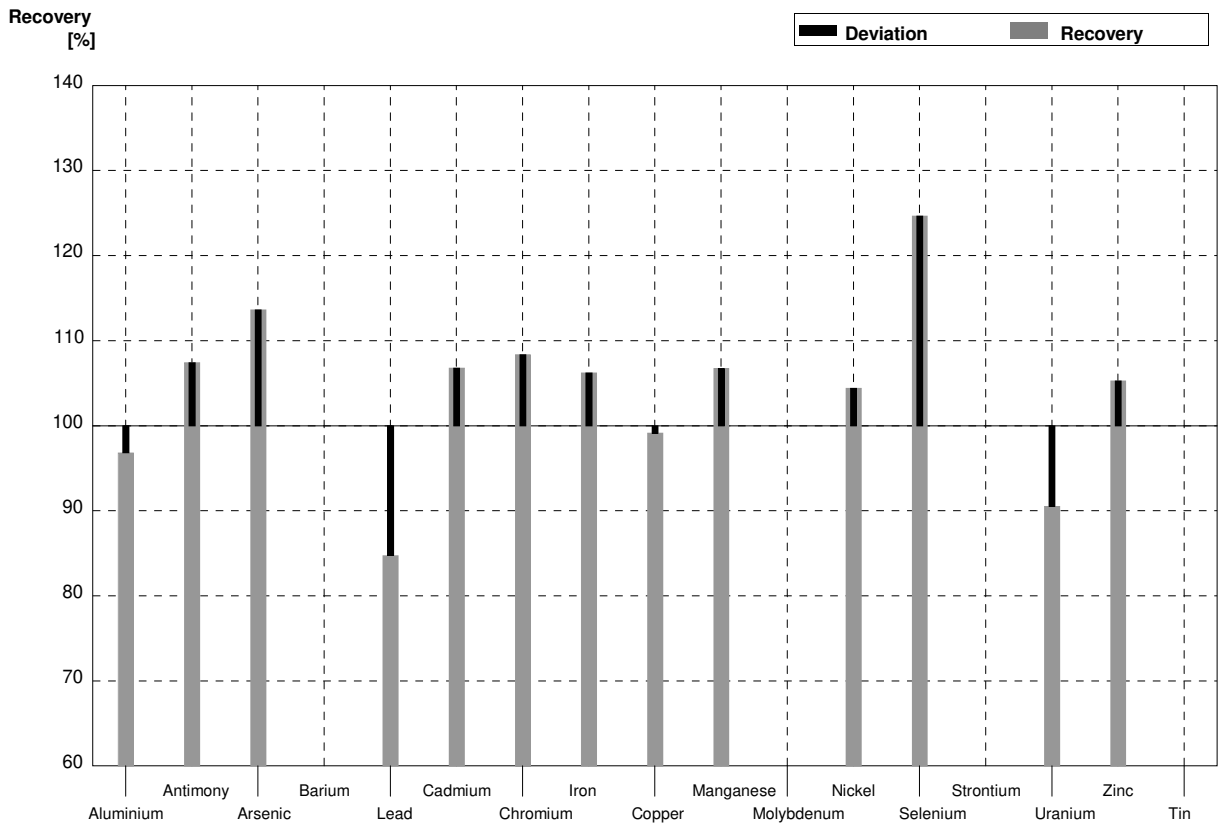
Sample M174A
Laboratory AC

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 17,9 | 1,47 | $\mu\text{g/l}$ | 95% |
| Antimony | 1,210 | 0,018 | 1,21 | 0,082 | $\mu\text{g/l}$ | 100% |
| Arsenic | 5,02 | 0,03 | 5,7 | 0,54 | $\mu\text{g/l}$ | 114% |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | 2,39 | 0,122 | $\mu\text{g/l}$ | 86% |
| Cadmium | 0,398 | 0,006 | 0,429 | 0,093 | $\mu\text{g/l}$ | 108% |
| Chromium | 0,795 | 0,010 | 0,85 | 0,134 | $\mu\text{g/l}$ | 107% |
| Iron | 33,9 | 0,4 | 35,4 | 5,6 | $\mu\text{g/l}$ | 104% |
| Copper | 4,63 | 0,04 | 4,45 | 0,73 | $\mu\text{g/l}$ | 96% |
| Manganese | 8,57 | 0,14 | 8,9 | 0,427 | $\mu\text{g/l}$ | 104% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | 2,93 | 0,270 | $\mu\text{g/l}$ | 103% |
| Selenium | 0,936 | 0,018 | 1,00 | 0,055 | $\mu\text{g/l}$ | 107% |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | 1,59 | 0,056 | $\mu\text{g/l}$ | 92% |
| Zinc | 28,7 | 2,5 | 29,5 | 3,84 | $\mu\text{g/l}$ | 103% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



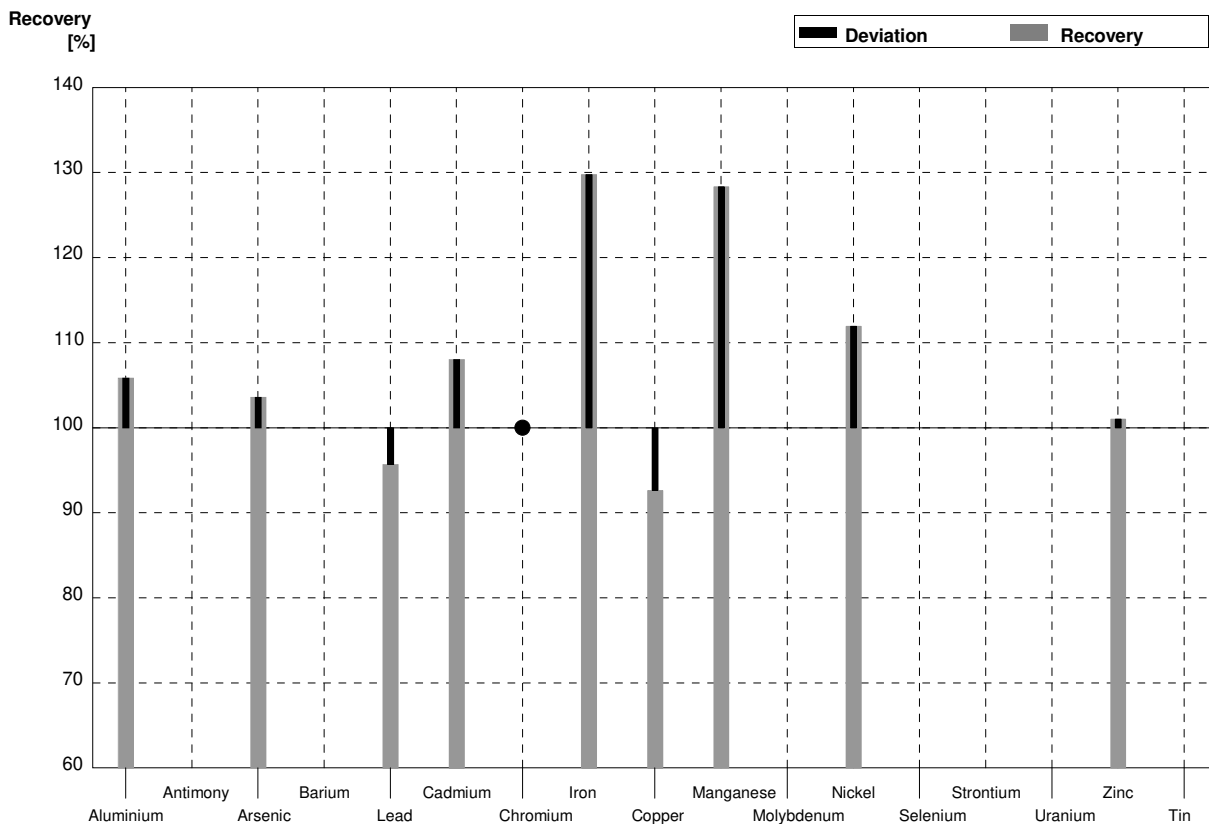
Sample M174B
Laboratory AC

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|--------|------|----------|
| Aluminium | 38,0 | 0,4 | 36,8 | 3,02 | µg/l | 97% |
| Antimony | 0,445 | 0,015 | 0,478 | 0,0325 | µg/l | 107% |
| Arsenic | 1,804 | 0,015 | 2,05 | 0,195 | µg/l | 114% |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | 6,0 | 0,306 | µg/l | 85% |
| Cadmium | 1,030 | 0,011 | 1,10 | 0,239 | µg/l | 107% |
| Chromium | 5,26 | 0,03 | 5,7 | 0,90 | µg/l | 108% |
| Iron | 83,8 | 0,5 | 89 | 14,2 | µg/l | 106% |
| Copper | 1,19 | 0,03 | 1,18 | 0,195 | µg/l | 99% |
| Manganese | 21,92 | 0,18 | 23,4 | 1,12 | µg/l | 107% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | 3,79 | 0,349 | µg/l | 104% |
| Selenium | 2,31 | 0,02 | 2,88 | 0,158 | µg/l | 125% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 3,83 | 0,134 | µg/l | 91% |
| Zinc | 57 | 2 | 60 | 7,8 | µg/l | 105% |
| Tin | 0,74 | 0,02 | | | µg/l | |



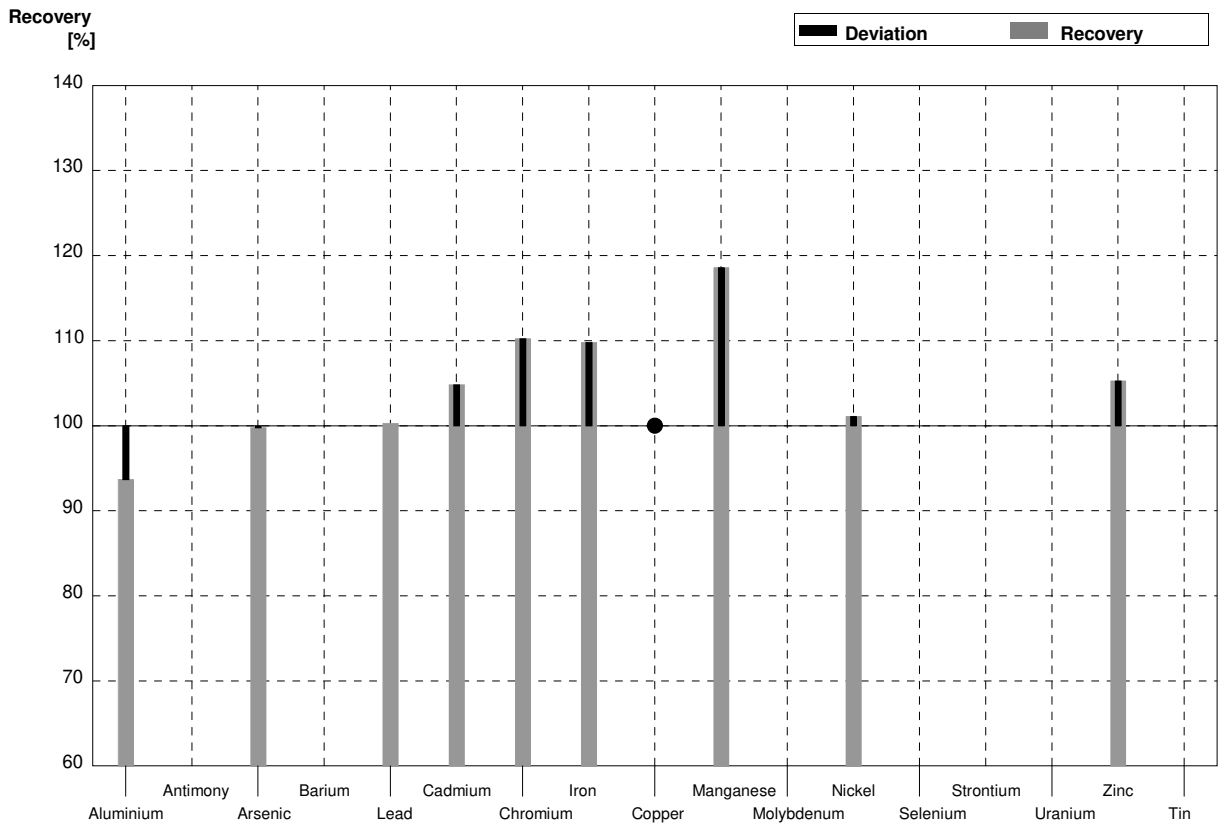
Sample M174A
Laboratory AD

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 19,9 | 5 | $\mu\text{g/l}$ | 106% |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | 5,2 | 1,5 | $\mu\text{g/l}$ | 104% |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | 2,67 | 1 | $\mu\text{g/l}$ | 96% |
| Cadmium | 0,398 | 0,006 | 0,430 | 0,1 | $\mu\text{g/l}$ | 108% |
| Chromium | 0,795 | 0,010 | <2 | | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 44,0 | 30 | $\mu\text{g/l}$ | 130% |
| Copper | 4,63 | 0,04 | 4,29 | 1 | $\mu\text{g/l}$ | 93% |
| Manganese | 8,57 | 0,14 | 11,0 | 10 | $\mu\text{g/l}$ | 128% |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | 3,18 | 1 | $\mu\text{g/l}$ | 112% |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | 29,0 | 10 | $\mu\text{g/l}$ | 101% |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



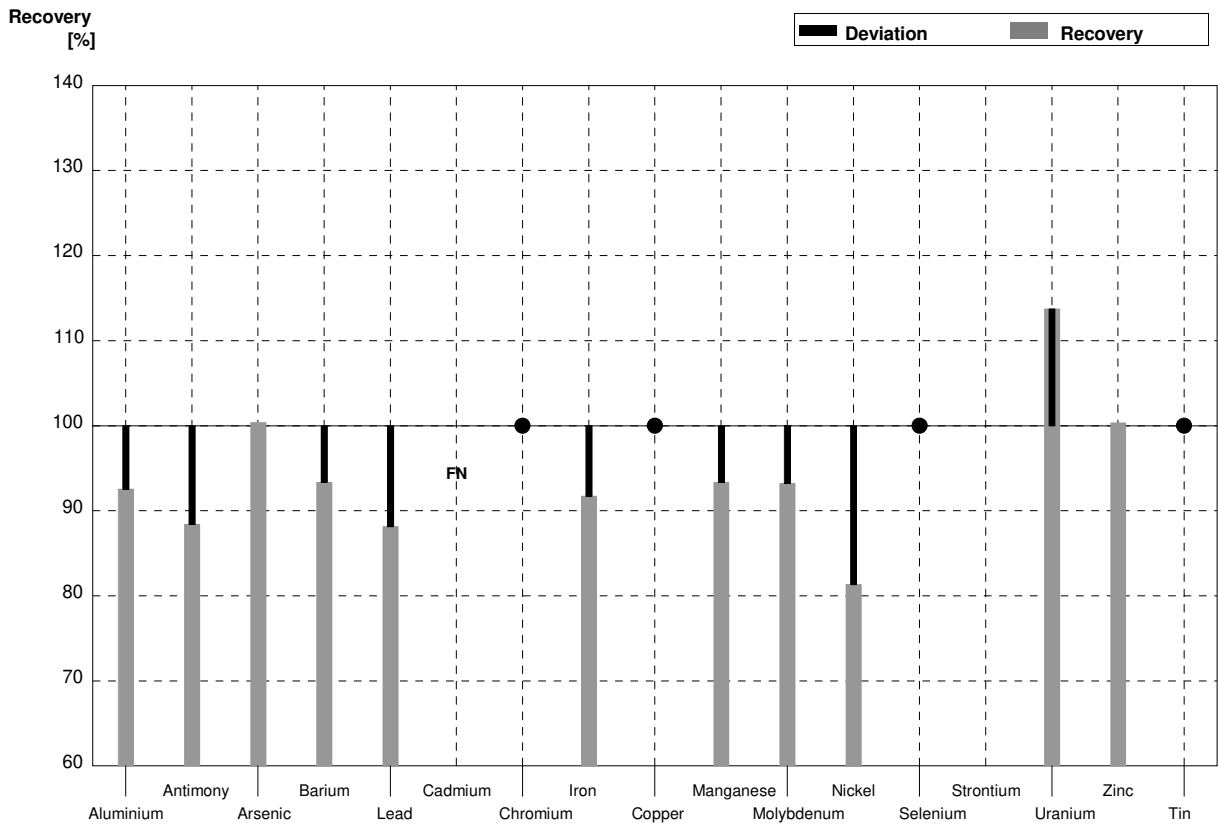
Sample M174B
Laboratory AD

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 35,6 | 8 | µg/l | 94% |
| Antimony | 0,445 | 0,015 | | | µg/l | |
| Arsenic | 1,804 | 0,015 | 1,80 | 1 | µg/l | 100% |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | 7,1 | 1,2 | µg/l | 100% |
| Cadmium | 1,030 | 0,011 | 1,08 | 0,15 | µg/l | 105% |
| Chromium | 5,26 | 0,03 | 5,8 | 1 | µg/l | 110% |
| Iron | 83,8 | 0,5 | 92 | 30 | µg/l | 110% |
| Copper | 1,19 | 0,03 | <2 | | µg/l | • |
| Manganese | 21,92 | 0,18 | 26,0 | 10 | µg/l | 119% |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | 3,67 | 1 | µg/l | 101% |
| Selenium | 2,31 | 0,02 | | | µg/l | |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | | | µg/l | |
| Zinc | 57 | 2 | 60 | 15 | µg/l | 105% |
| Tin | 0,74 | 0,02 | | | µg/l | |



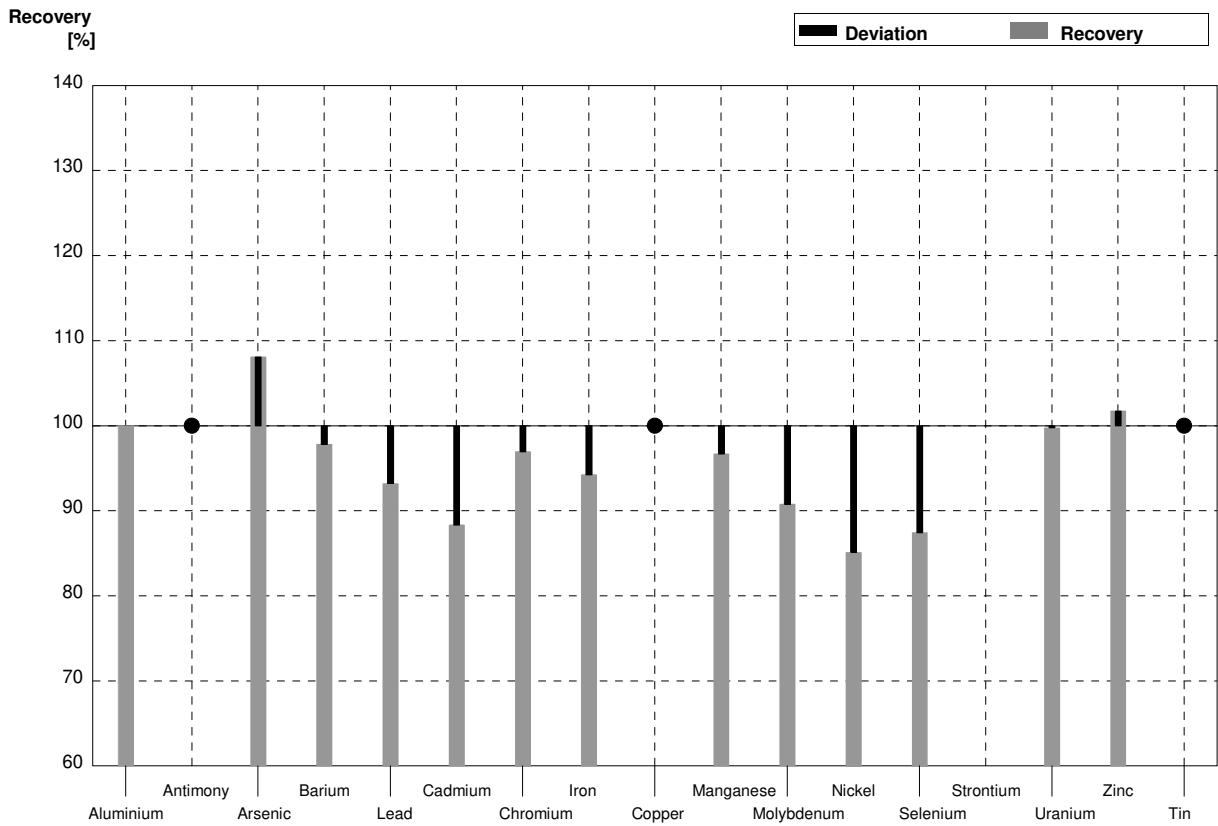
Sample M174A
Laboratory AE

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 17,4 | 3,0 | $\mu\text{g/l}$ | 93% |
| Antimony | 1,210 | 0,018 | 1,07 | 0,2 | $\mu\text{g/l}$ | 88% |
| Arsenic | 5,02 | 0,03 | 5,04 | 0,8 | $\mu\text{g/l}$ | 100% |
| Barium | 25,06 | 0,13 | 23,4 | 3,5 | $\mu\text{g/l}$ | 93% |
| Lead | 2,79 | 0,03 | 2,46 | 0,4 | $\mu\text{g/l}$ | 88% |
| Cadmium | 0,398 | 0,006 | <0,3 | 0,04 | $\mu\text{g/l}$ | FN |
| Chromium | 0,795 | 0,010 | <1,0 | 0,1 | $\mu\text{g/l}$ | • |
| Iron | 33,9 | 0,4 | 31,1 | 4,0 | $\mu\text{g/l}$ | 92% |
| Copper | 4,63 | 0,04 | <10 | 1,5 | $\mu\text{g/l}$ | • |
| Manganese | 8,57 | 0,14 | 8,0 | 1,1 | $\mu\text{g/l}$ | 93% |
| Molybdenum | 1,48 | 0,05 | 1,38 | 0,2 | $\mu\text{g/l}$ | 93% |
| Nickel | 2,84 | 0,03 | 2,31 | 0,6 | $\mu\text{g/l}$ | 81% |
| Selenium | 0,936 | 0,018 | <1,00 | 0,2 | $\mu\text{g/l}$ | • |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | 1,96 | 0,29 | $\mu\text{g/l}$ | 114% |
| Zinc | 28,7 | 2,5 | 28,8 | 4,3 | $\mu\text{g/l}$ | 100% |
| Tin | 1,89 | 0,03 | <10 | 1,7 | $\mu\text{g/l}$ | • |



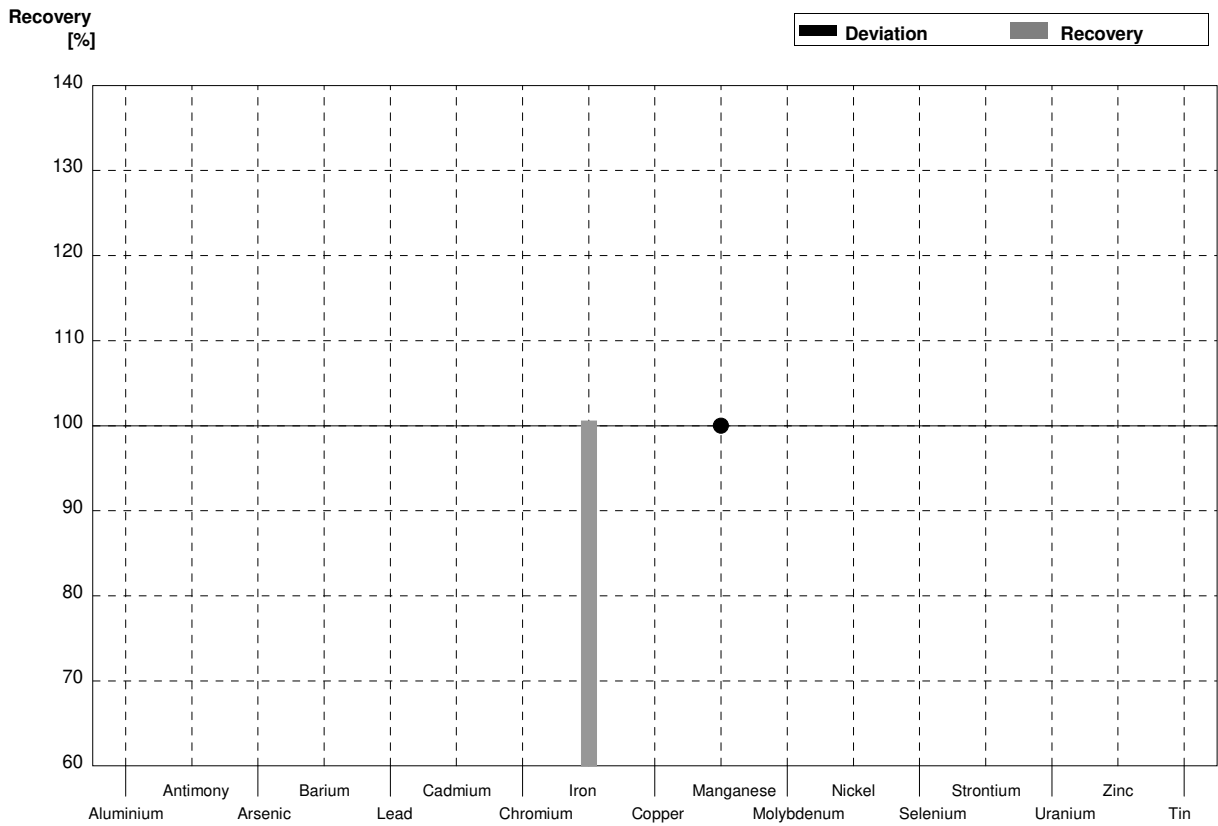
Sample M174B
Laboratory AE

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 38,0 | 6,5 | µg/l | 100% |
| Antimony | 0,445 | 0,015 | <1,00 | 0,2 | µg/l | • |
| Arsenic | 1,804 | 0,015 | 1,95 | 0,3 | µg/l | 108% |
| Barium | 60,3 | 0,2 | 59 | 8,8 | µg/l | 98% |
| Lead | 7,08 | 0,04 | 6,6 | 1,0 | µg/l | 93% |
| Cadmium | 1,030 | 0,011 | 0,91 | 0,12 | µg/l | 88% |
| Chromium | 5,26 | 0,03 | 5,1 | 0,7 | µg/l | 97% |
| Iron | 83,8 | 0,5 | 79 | 10,2 | µg/l | 94% |
| Copper | 1,19 | 0,03 | <10 | 1,5 | µg/l | • |
| Manganese | 21,92 | 0,18 | 21,2 | 3,0 | µg/l | 97% |
| Molybdenum | 4,89 | 0,06 | 4,44 | 0,7 | µg/l | 91% |
| Nickel | 3,63 | 0,03 | 3,09 | 0,7 | µg/l | 85% |
| Selenium | 2,31 | 0,02 | 2,02 | 0,3 | µg/l | 87% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 4,22 | 0,63 | µg/l | 100% |
| Zinc | 57 | 2 | 58 | 8,7 | µg/l | 102% |
| Tin | 0,74 | 0,02 | <10 | 1,7 | µg/l | • |



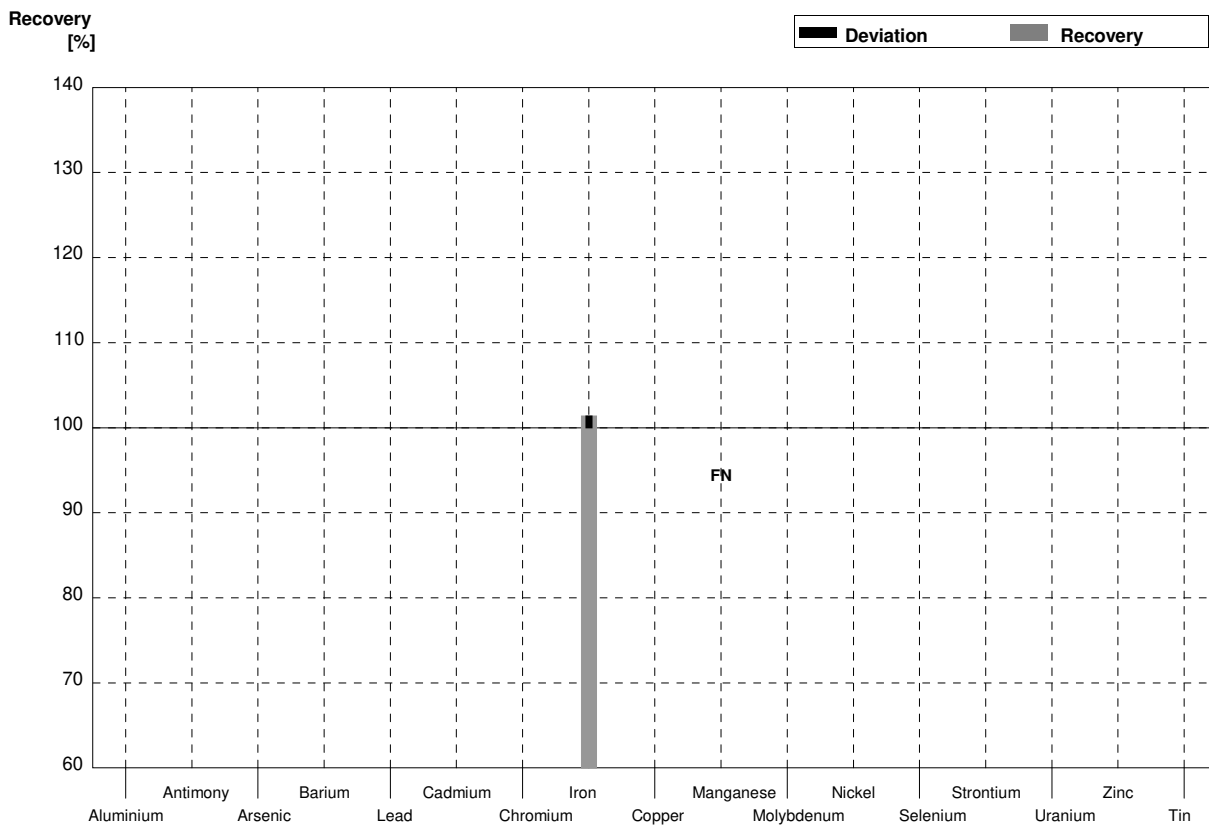
Sample M174A
Laboratory AF

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | | | $\mu\text{g/l}$ | |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | | | $\mu\text{g/l}$ | |
| Cadmium | 0,398 | 0,006 | | | $\mu\text{g/l}$ | |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | 34,1 | 2,7 | $\mu\text{g/l}$ | 101% |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | <10 | | $\mu\text{g/l}$ | • |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | | | $\mu\text{g/l}$ | |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



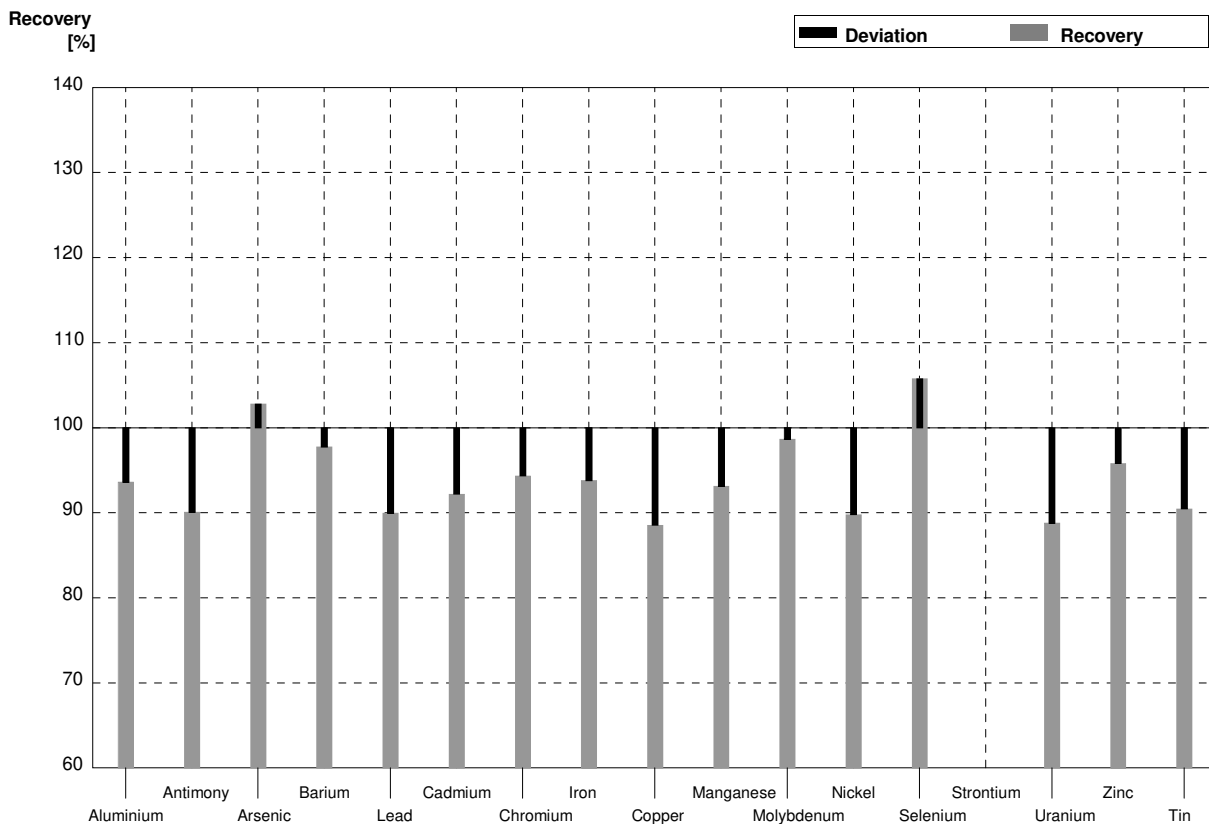
Sample M174B
Laboratory AF

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|---|------|----------|
| Aluminium | 38,0 | 0,4 | | | µg/l | |
| Antimony | 0,445 | 0,015 | | | µg/l | |
| Arsenic | 1,804 | 0,015 | | | µg/l | |
| Barium | 60,3 | 0,2 | | | µg/l | |
| Lead | 7,08 | 0,04 | | | µg/l | |
| Cadmium | 1,030 | 0,011 | | | µg/l | |
| Chromium | 5,26 | 0,03 | | | µg/l | |
| Iron | 83,8 | 0,5 | 85 | 7 | µg/l | 101% |
| Copper | 1,19 | 0,03 | | | µg/l | |
| Manganese | 21,92 | 0,18 | <10 | | µg/l | FN |
| Molybdenum | 4,89 | 0,06 | | | µg/l | |
| Nickel | 3,63 | 0,03 | | | µg/l | |
| Selenium | 2,31 | 0,02 | | | µg/l | |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | | | µg/l | |
| Zinc | 57 | 2 | | | µg/l | |
| Tin | 0,74 | 0,02 | | | µg/l | |



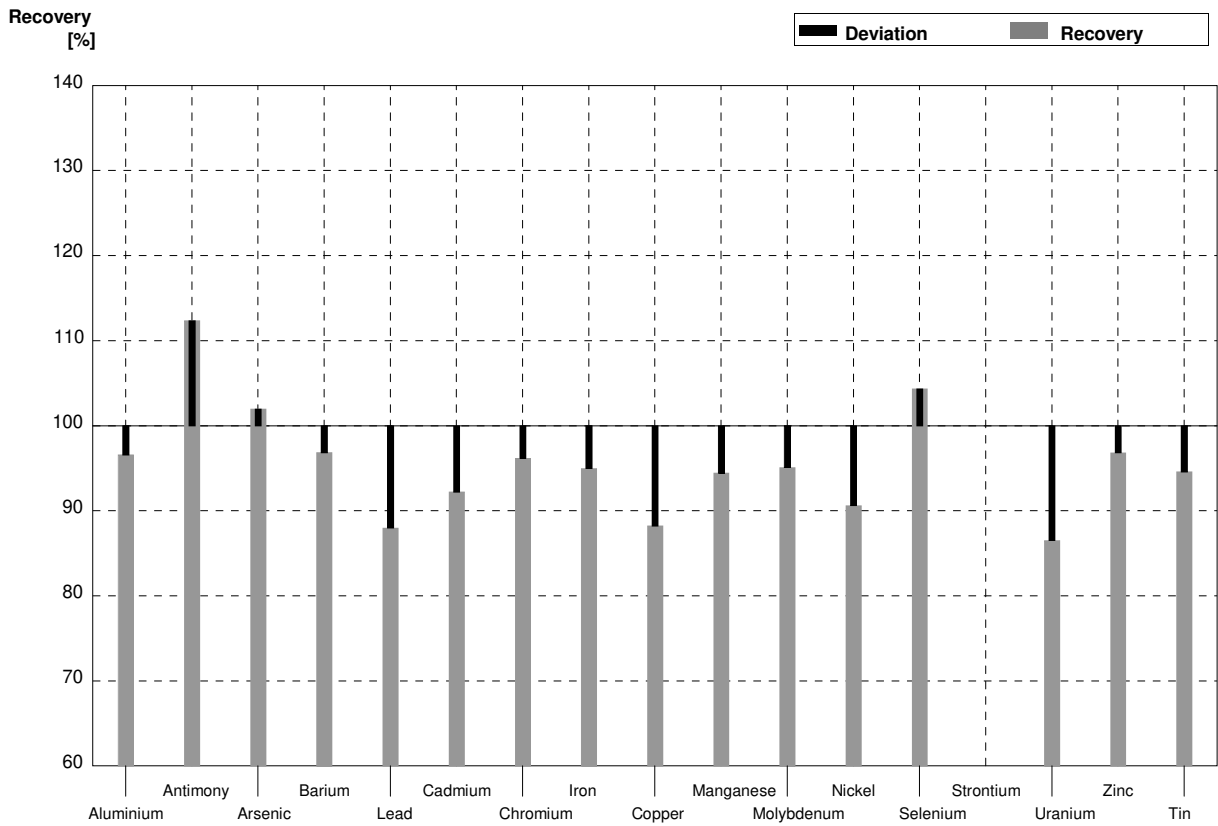
Sample M174A
Laboratory AG

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 17,6 | 4,4 | µg/l | 94% |
| Antimony | 1,210 | 0,018 | 1,09 | 0,27 | µg/l | 90% |
| Arsenic | 5,02 | 0,03 | 5,16 | 1,29 | µg/l | 103% |
| Barium | 25,06 | 0,13 | 24,5 | 6,13 | µg/l | 98% |
| Lead | 2,79 | 0,03 | 2,51 | 0,63 | µg/l | 90% |
| Cadmium | 0,398 | 0,006 | 0,367 | 0,092 | µg/l | 92% |
| Chromium | 0,795 | 0,010 | 0,75 | 0,19 | µg/l | 94% |
| Iron | 33,9 | 0,4 | 31,8 | 8,0 | µg/l | 94% |
| Copper | 4,63 | 0,04 | 4,10 | 1,03 | µg/l | 89% |
| Manganese | 8,57 | 0,14 | 7,98 | 2,00 | µg/l | 93% |
| Molybdenum | 1,48 | 0,05 | 1,46 | 0,37 | µg/l | 99% |
| Nickel | 2,84 | 0,03 | 2,55 | 0,64 | µg/l | 90% |
| Selenium | 0,936 | 0,018 | 0,99 | 0,25 | µg/l | 106% |
| Strontium | 339 | 3 | | | µg/l | |
| Uranium | 1,723 | 0,015 | 1,53 | 0,38 | µg/l | 89% |
| Zinc | 28,7 | 2,5 | 27,5 | 6,9 | µg/l | 96% |
| Tin | 1,89 | 0,03 | 1,71 | 0,43 | µg/l | 90% |



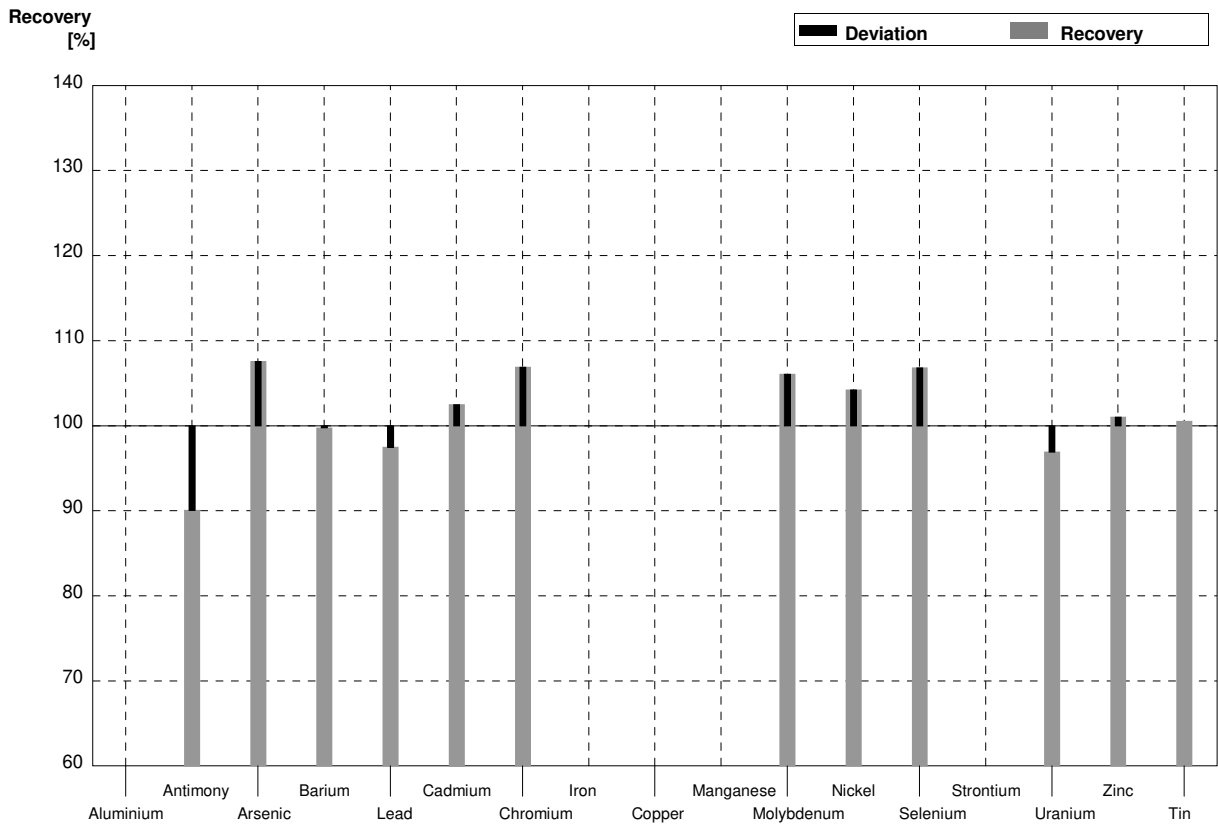
Sample M174B
Laboratory AG

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 36,7 | 9,2 | µg/l | 97% |
| Antimony | 0,445 | 0,015 | 0,50 | 0,13 | µg/l | 112% |
| Arsenic | 1,804 | 0,015 | 1,84 | 0,46 | µg/l | 102% |
| Barium | 60,3 | 0,2 | 58,4 | 14,6 | µg/l | 97% |
| Lead | 7,08 | 0,04 | 6,23 | 1,56 | µg/l | 88% |
| Cadmium | 1,030 | 0,011 | 0,95 | 0,24 | µg/l | 92% |
| Chromium | 5,26 | 0,03 | 5,06 | 1,27 | µg/l | 96% |
| Iron | 83,8 | 0,5 | 79,6 | 19,9 | µg/l | 95% |
| Copper | 1,19 | 0,03 | 1,05 | 0,26 | µg/l | 88% |
| Manganese | 21,92 | 0,18 | 20,7 | 5,2 | µg/l | 94% |
| Molybdenum | 4,89 | 0,06 | 4,65 | 1,16 | µg/l | 95% |
| Nickel | 3,63 | 0,03 | 3,29 | 0,82 | µg/l | 91% |
| Selenium | 2,31 | 0,02 | 2,41 | 0,40 | µg/l | 104% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 3,66 | 0,92 | µg/l | 87% |
| Zinc | 57 | 2 | 55,2 | 13,8 | µg/l | 97% |
| Tin | 0,74 | 0,02 | 0,70 | 0,18 | µg/l | 95% |



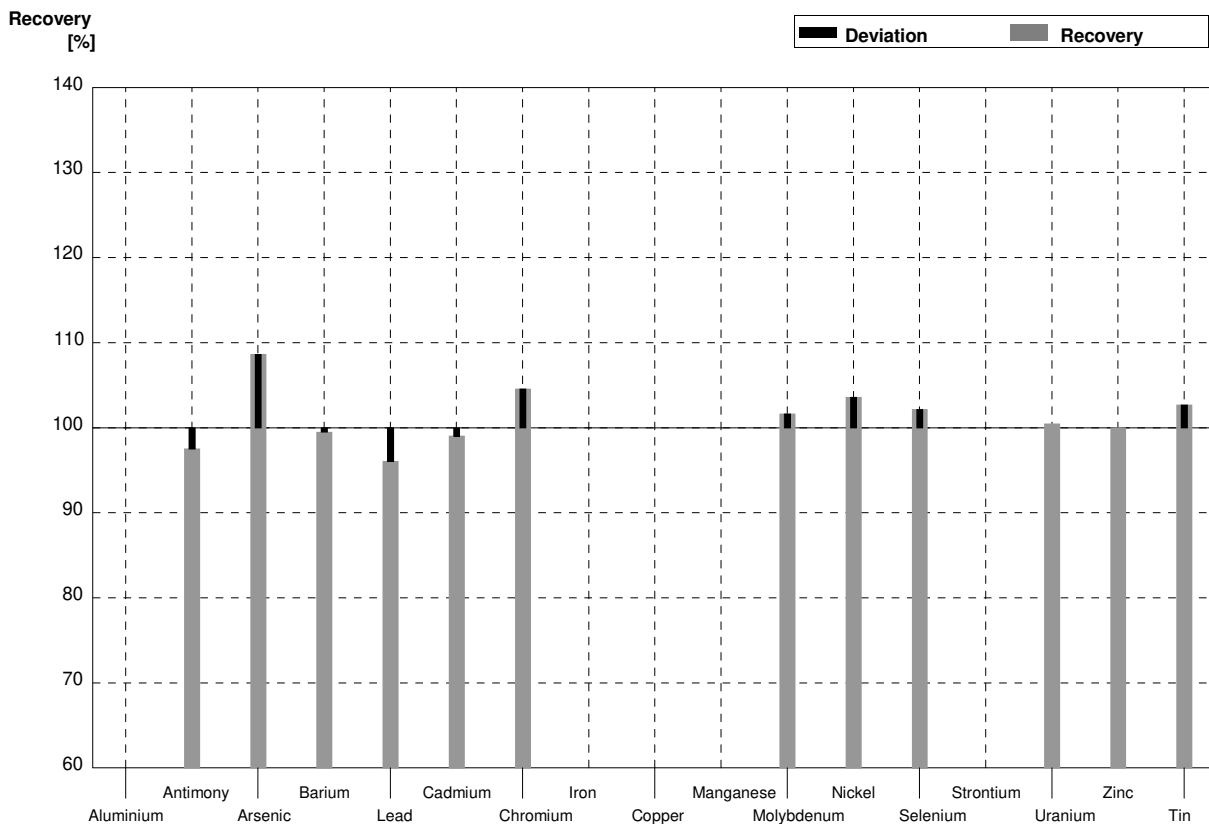
Sample M174A
Laboratory AH

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | | | µg/l | |
| Antimony | 1,210 | 0,018 | 1,09 | 0,26 | µg/l | 90% |
| Arsenic | 5,02 | 0,03 | 5,4 | 1,1 | µg/l | 108% |
| Barium | 25,06 | 0,13 | 25,0 | 1,8 | µg/l | 100% |
| Lead | 2,79 | 0,03 | 2,72 | 0,33 | µg/l | 97% |
| Cadmium | 0,398 | 0,006 | 0,408 | 0,110 | µg/l | 103% |
| Chromium | 0,795 | 0,010 | 0,85 | 0,08 | µg/l | 107% |
| Iron | 33,9 | 0,4 | | | µg/l | |
| Copper | 4,63 | 0,04 | | | µg/l | |
| Manganese | 8,57 | 0,14 | | | µg/l | |
| Molybdenum | 1,48 | 0,05 | 1,57 | 0,25 | µg/l | 106% |
| Nickel | 2,84 | 0,03 | 2,96 | 0,44 | µg/l | 104% |
| Selenium | 0,936 | 0,018 | 1,00 | 0,18 | µg/l | 107% |
| Strontium | 339 | 3 | | | µg/l | |
| Uranium | 1,723 | 0,015 | 1,67 | 0,22 | µg/l | 97% |
| Zinc | 28,7 | 2,5 | 29,0 | 2,0 | µg/l | 101% |
| Tin | 1,89 | 0,03 | 1,90 | | µg/l | 101% |



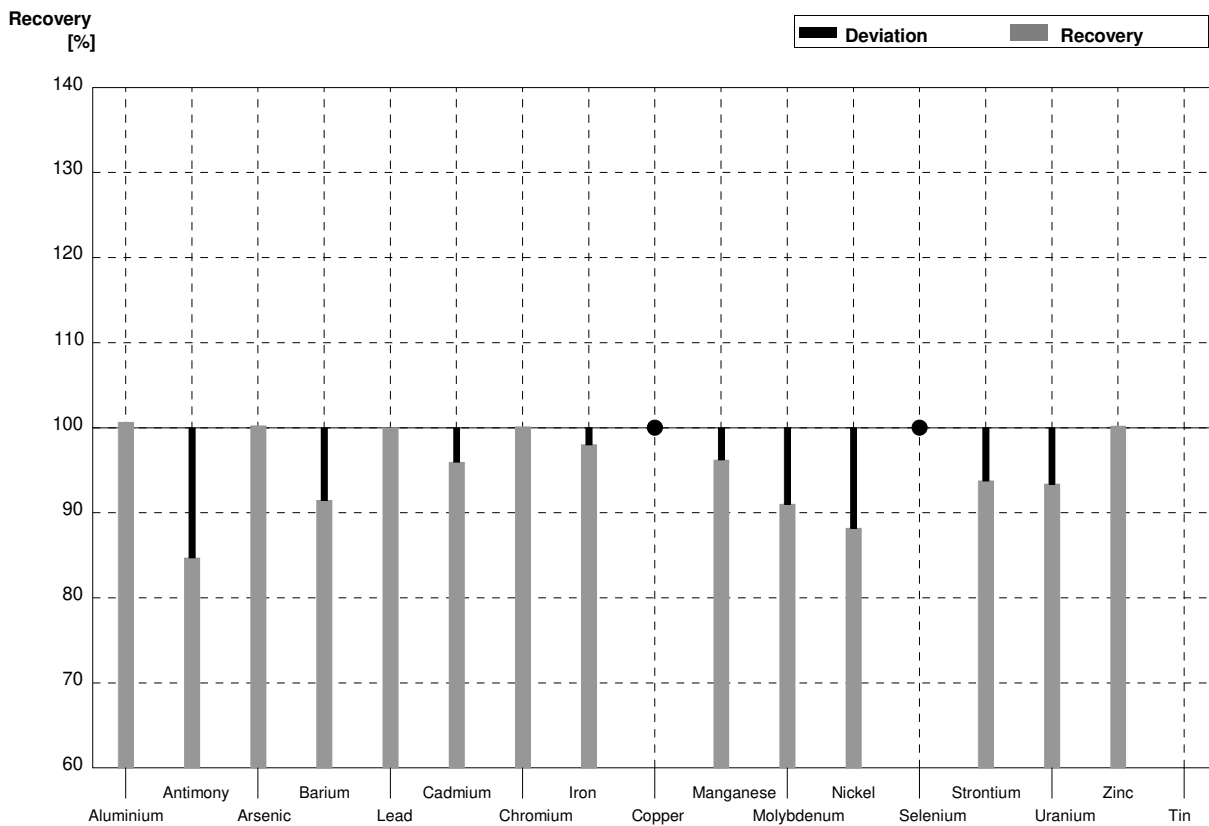
Sample M174B
Laboratory AH

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 38,0 | 0,4 | | | µg/l | |
| Antimony | 0,445 | 0,015 | 0,434 | 0,104 | µg/l | 98% |
| Arsenic | 1,804 | 0,015 | 1,96 | 0,39 | µg/l | 109% |
| Barium | 60,3 | 0,2 | 60 | 4 | µg/l | 100% |
| Lead | 7,08 | 0,04 | 6,8 | 0,8 | µg/l | 96% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,28 | µg/l | 99% |
| Chromium | 5,26 | 0,03 | 5,5 | 0,05 | µg/l | 105% |
| Iron | 83,8 | 0,5 | | | µg/l | |
| Copper | 1,19 | 0,03 | | | µg/l | |
| Manganese | 21,92 | 0,18 | | | µg/l | |
| Molybdenum | 4,89 | 0,06 | 4,97 | 0,80 | µg/l | 102% |
| Nickel | 3,63 | 0,03 | 3,76 | 0,56 | µg/l | 104% |
| Selenium | 2,31 | 0,02 | 2,36 | 0,42 | µg/l | 102% |
| Strontium | 864 | 8 | | | µg/l | |
| Uranium | 4,23 | 0,03 | 4,25 | 0,55 | µg/l | 100% |
| Zinc | 57 | 2 | 57 | 4 | µg/l | 100% |
| Tin | 0,74 | 0,02 | 0,76 | | µg/l | 103% |



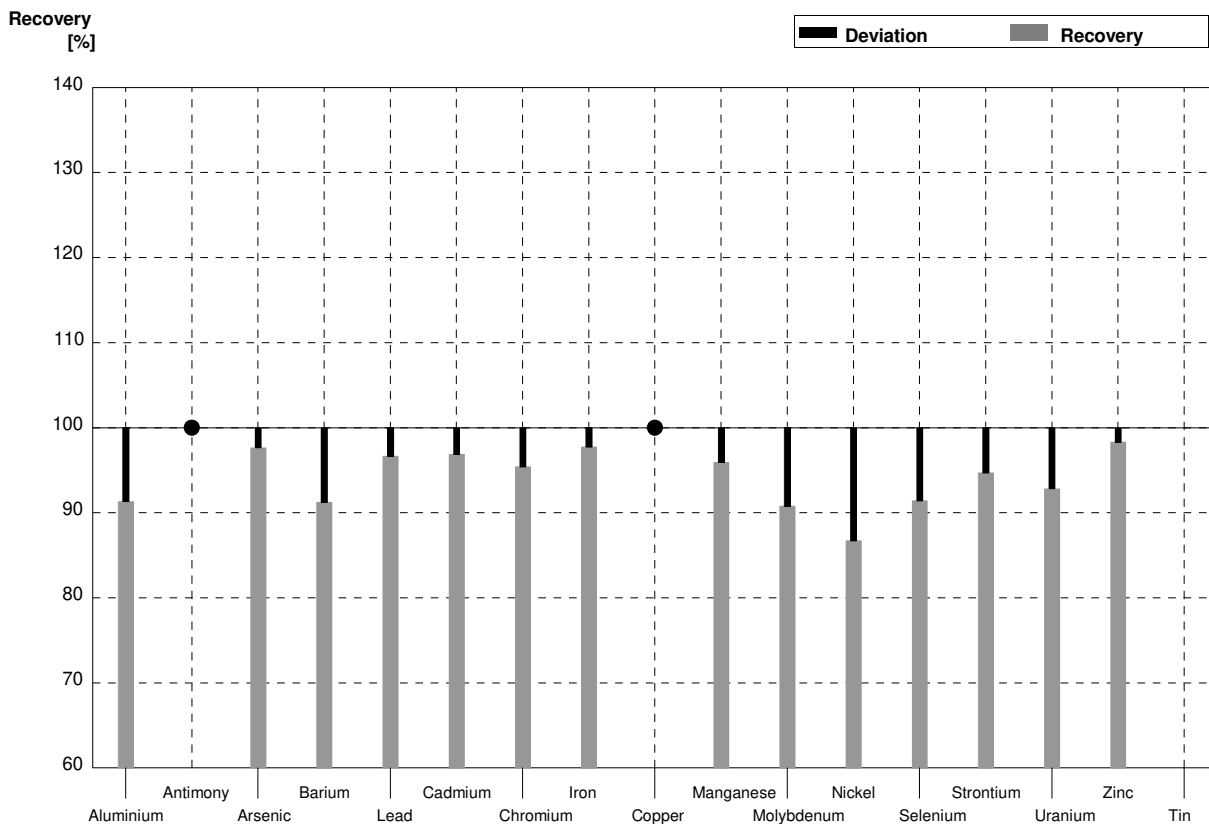
Sample M174A
Laboratory AI

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|---------|--------|------|----------|
| Aluminium | 18,8 | 0,3 | 18,927 | 3,331 | µg/l | 101% |
| Antimony | 1,210 | 0,018 | 1,025 | 0,284 | µg/l | 85% |
| Arsenic | 5,02 | 0,03 | 5,032 | 0,633 | µg/l | 100% |
| Barium | 25,06 | 0,13 | 22,923 | 2,884 | µg/l | 91% |
| Lead | 2,79 | 0,03 | 2,790 | 0,417 | µg/l | 100% |
| Cadmium | 0,398 | 0,006 | 0,382 | 0,033 | µg/l | 96% |
| Chromium | 0,795 | 0,010 | 0,796 | 0,125 | µg/l | 100% |
| Iron | 33,9 | 0,4 | 33,225 | 4,030 | µg/l | 98% |
| Copper | 4,63 | 0,04 | <50,000 | | µg/l | • |
| Manganese | 8,57 | 0,14 | 8,246 | 0,661 | µg/l | 96% |
| Molybdenum | 1,48 | 0,05 | 1,347 | 0,390 | µg/l | 91% |
| Nickel | 2,84 | 0,03 | 2,505 | 0,445 | µg/l | 88% |
| Selenium | 0,936 | 0,018 | <1,000 | | µg/l | • |
| Strontium | 339 | 3 | 317,853 | 47,042 | µg/l | 94% |
| Uranium | 1,723 | 0,015 | 1,609 | 0,194 | µg/l | 93% |
| Zinc | 28,7 | 2,5 | 28,759 | 5,177 | µg/l | 100% |
| Tin | 1,89 | 0,03 | | | µg/l | |



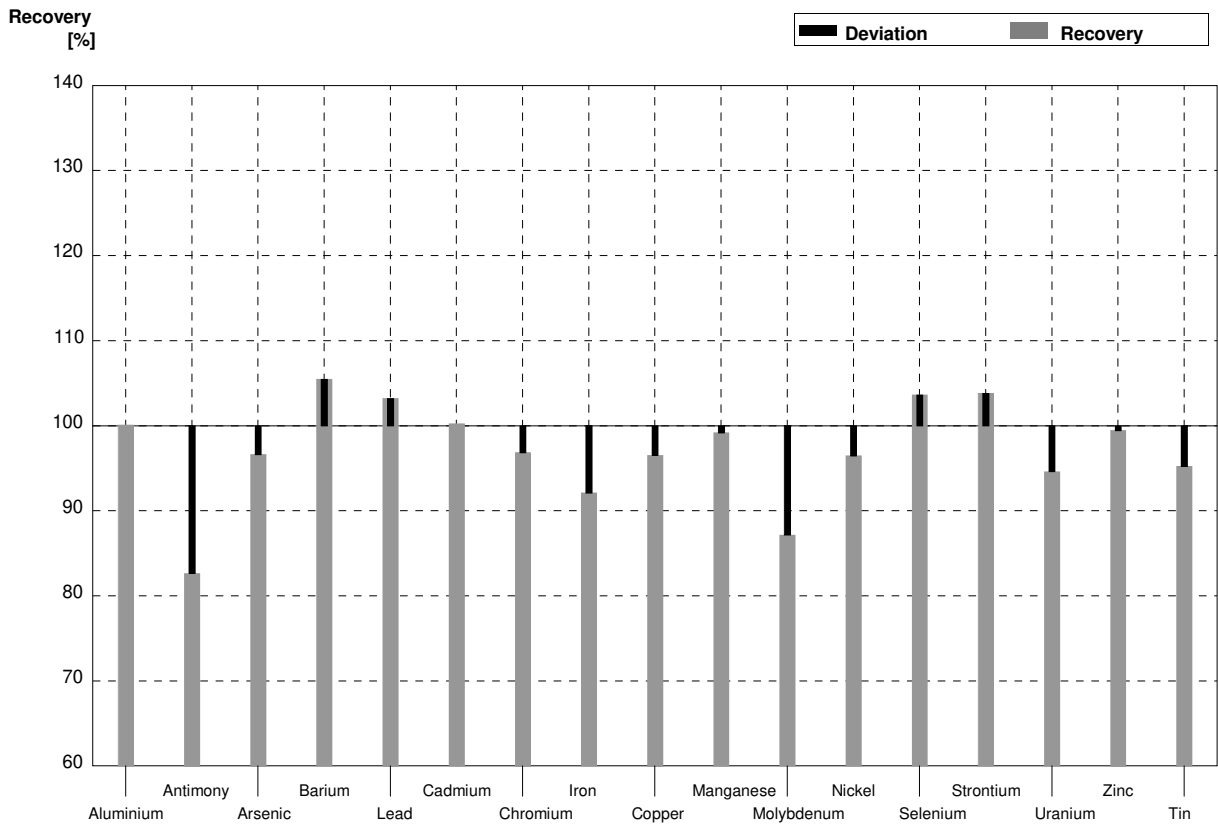
Sample M174B
Laboratory AI

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|---------|---------|------|----------|
| Aluminium | 38,0 | 0,4 | 34,706 | 6,108 | µg/l | 91% |
| Antimony | 0,445 | 0,015 | <1,000 | | µg/l | • |
| Arsenic | 1,804 | 0,015 | 1,762 | 0,222 | µg/l | 98% |
| Barium | 60,3 | 0,2 | 55,012 | 6,921 | µg/l | 91% |
| Lead | 7,08 | 0,04 | 6,844 | 1,024 | µg/l | 97% |
| Cadmium | 1,030 | 0,011 | 0,998 | 0,087 | µg/l | 97% |
| Chromium | 5,26 | 0,03 | 5,019 | 0,790 | µg/l | 95% |
| Iron | 83,8 | 0,5 | 81,913 | 9,936 | µg/l | 98% |
| Copper | 1,19 | 0,03 | <50,000 | | µg/l | • |
| Manganese | 21,92 | 0,18 | 21,035 | 1,687 | µg/l | 96% |
| Molybdenum | 4,89 | 0,06 | 4,440 | 1,284 | µg/l | 91% |
| Nickel | 3,63 | 0,03 | 3,148 | 0,559 | µg/l | 87% |
| Selenium | 2,31 | 0,02 | 2,112 | 0,699 | µg/l | 91% |
| Strontium | 864 | 8 | 818,264 | 121,103 | µg/l | 95% |
| Uranium | 4,23 | 0,03 | 3,927 | 0,474 | µg/l | 93% |
| Zinc | 57 | 2 | 56,047 | 10,088 | µg/l | 98% |
| Tin | 0,74 | 0,02 | | | µg/l | |



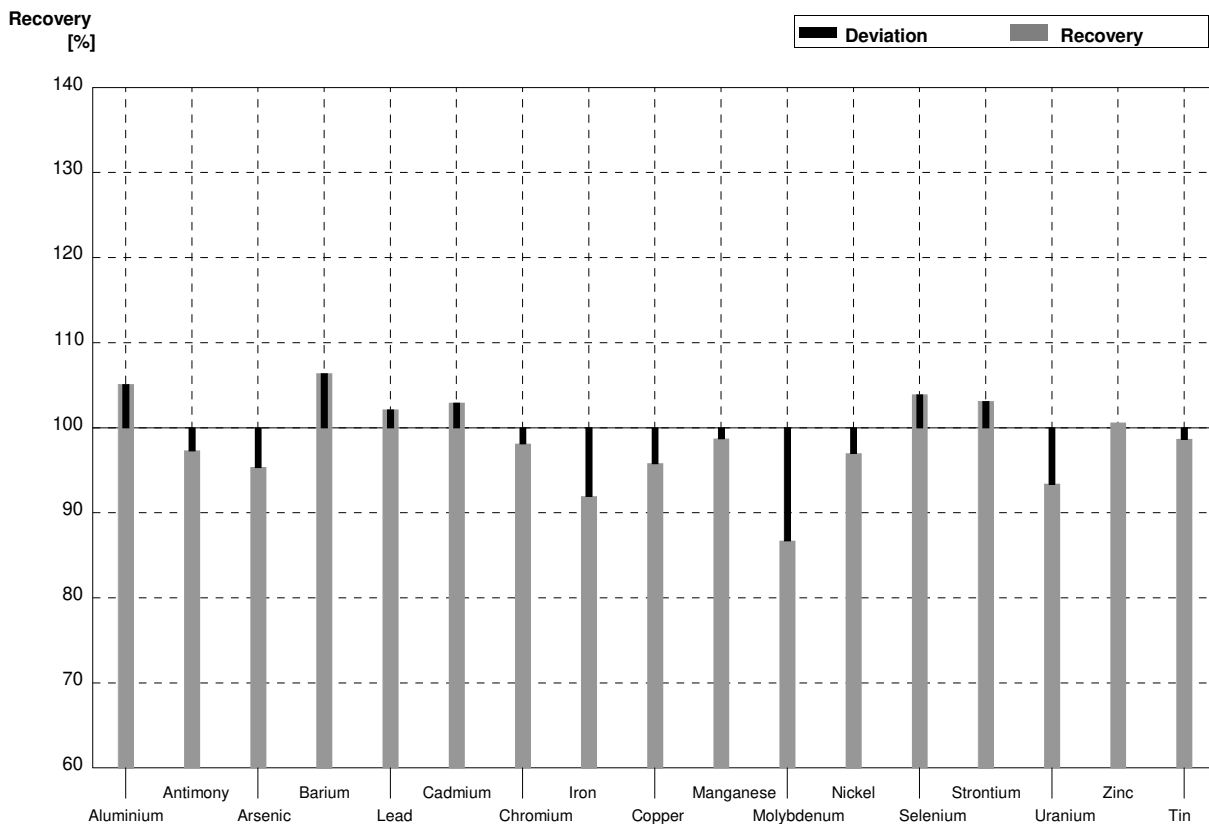
Sample M174A
Laboratory AJ

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,82 | 2,82 | $\mu\text{g/l}$ | 100% |
| Antimony | 1,210 | 0,018 | 1,00 | 0,15 | $\mu\text{g/l}$ | 83% |
| Arsenic | 5,02 | 0,03 | 4,85 | 0,73 | $\mu\text{g/l}$ | 97% |
| Barium | 25,06 | 0,13 | 26,43 | 3,96 | $\mu\text{g/l}$ | 105% |
| Lead | 2,79 | 0,03 | 2,88 | 0,43 | $\mu\text{g/l}$ | 103% |
| Cadmium | 0,398 | 0,006 | 0,399 | 0,06 | $\mu\text{g/l}$ | 100% |
| Chromium | 0,795 | 0,010 | 0,77 | 0,12 | $\mu\text{g/l}$ | 97% |
| Iron | 33,9 | 0,4 | 31,23 | 4,68 | $\mu\text{g/l}$ | 92% |
| Copper | 4,63 | 0,04 | 4,47 | 0,67 | $\mu\text{g/l}$ | 97% |
| Manganese | 8,57 | 0,14 | 8,50 | 1,27 | $\mu\text{g/l}$ | 99% |
| Molybdenum | 1,48 | 0,05 | 1,29 | 0,19 | $\mu\text{g/l}$ | 87% |
| Nickel | 2,84 | 0,03 | 2,74 | 0,41 | $\mu\text{g/l}$ | 96% |
| Selenium | 0,936 | 0,018 | 0,97 | 0,15 | $\mu\text{g/l}$ | 104% |
| Strontium | 339 | 3 | 352 | 53 | $\mu\text{g/l}$ | 104% |
| Uranium | 1,723 | 0,015 | 1,63 | 0,24 | $\mu\text{g/l}$ | 95% |
| Zinc | 28,7 | 2,5 | 28,54 | 4,28 | $\mu\text{g/l}$ | 99% |
| Tin | 1,89 | 0,03 | 1,80 | 0,27 | $\mu\text{g/l}$ | 95% |



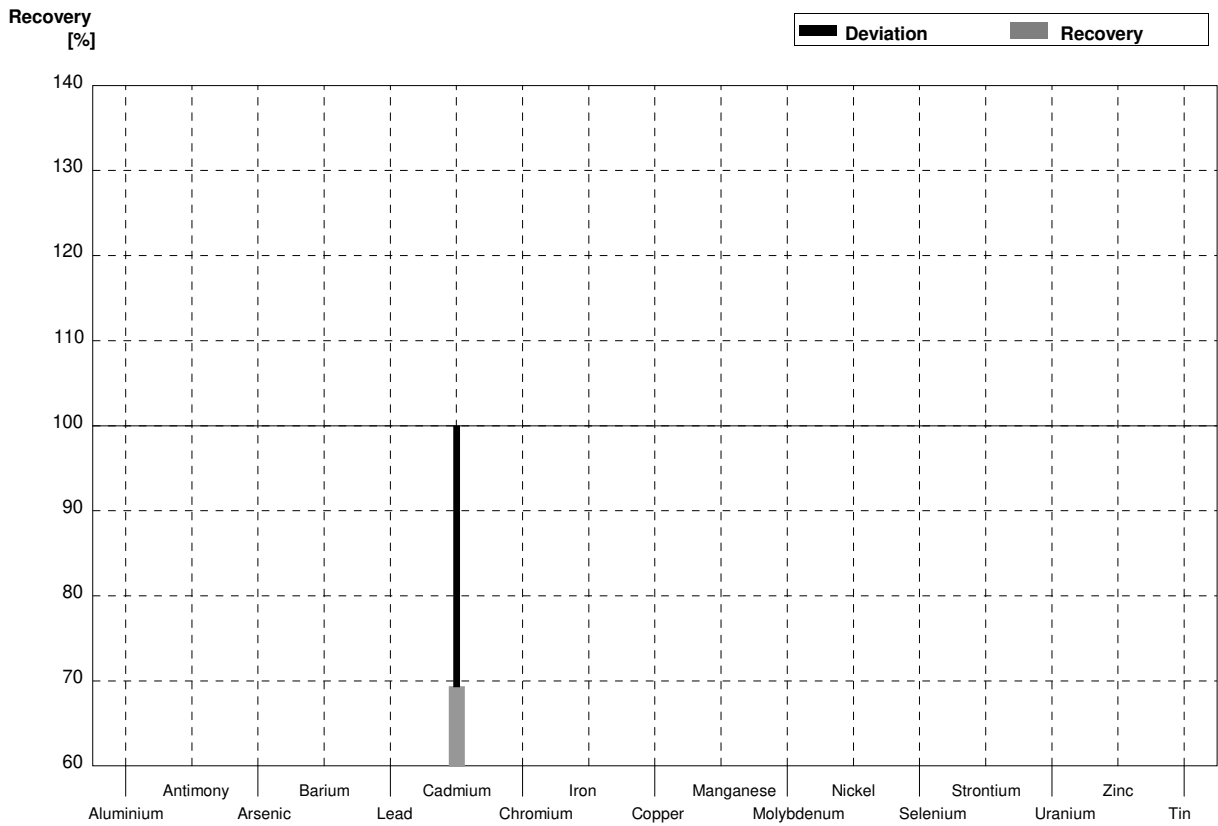
Sample M174B
Laboratory AJ

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 39,94 | 5,99 | $\mu\text{g/l}$ | 105% |
| Antimony | 0,445 | 0,015 | 0,433 | 0,065 | $\mu\text{g/l}$ | 97% |
| Arsenic | 1,804 | 0,015 | 1,72 | 0,26 | $\mu\text{g/l}$ | 95% |
| Barium | 60,3 | 0,2 | 64,15 | 9,62 | $\mu\text{g/l}$ | 106% |
| Lead | 7,08 | 0,04 | 7,23 | 1,08 | $\mu\text{g/l}$ | 102% |
| Cadmium | 1,030 | 0,011 | 1,06 | 0,16 | $\mu\text{g/l}$ | 103% |
| Chromium | 5,26 | 0,03 | 5,16 | 0,77 | $\mu\text{g/l}$ | 98% |
| Iron | 83,8 | 0,5 | 77,05 | 11,56 | $\mu\text{g/l}$ | 92% |
| Copper | 1,19 | 0,03 | 1,14 | 0,17 | $\mu\text{g/l}$ | 96% |
| Manganese | 21,92 | 0,18 | 21,64 | 3,25 | $\mu\text{g/l}$ | 99% |
| Molybdenum | 4,89 | 0,06 | 4,24 | 0,64 | $\mu\text{g/l}$ | 87% |
| Nickel | 3,63 | 0,03 | 3,52 | 0,53 | $\mu\text{g/l}$ | 97% |
| Selenium | 2,31 | 0,02 | 2,40 | 0,36 | $\mu\text{g/l}$ | 104% |
| Strontium | 864 | 8 | 891 | 134 | $\mu\text{g/l}$ | 103% |
| Uranium | 4,23 | 0,03 | 3,95 | 0,59 | $\mu\text{g/l}$ | 93% |
| Zinc | 57 | 2 | 57,33 | 8,60 | $\mu\text{g/l}$ | 101% |
| Tin | 0,74 | 0,02 | 0,73 | 0,11 | $\mu\text{g/l}$ | 99% |



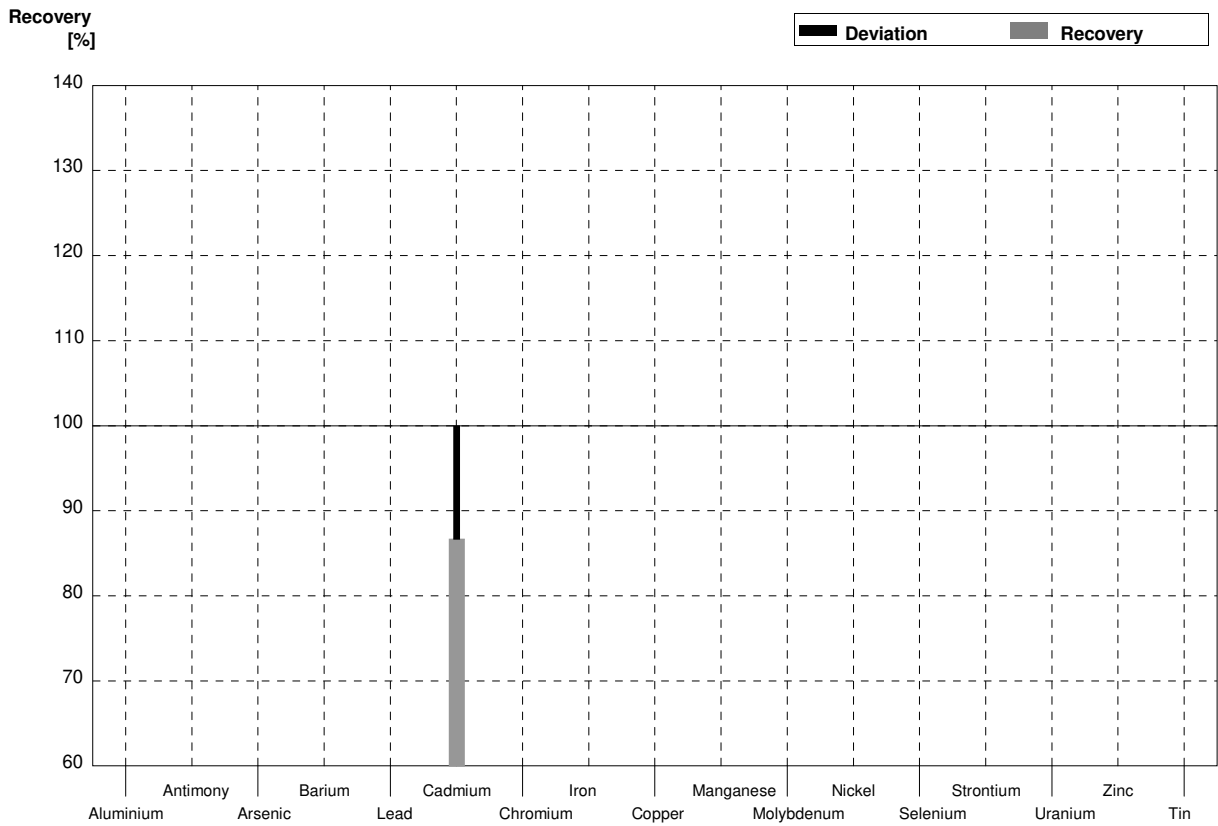
Sample M174A
Laboratory AK

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | | | $\mu\text{g/l}$ | |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | | | $\mu\text{g/l}$ | |
| Cadmium | 0,398 | 0,006 | 0,276 | 0,03 | $\mu\text{g/l}$ | 69% |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | | | $\mu\text{g/l}$ | |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | | | $\mu\text{g/l}$ | |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | | | $\mu\text{g/l}$ | |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



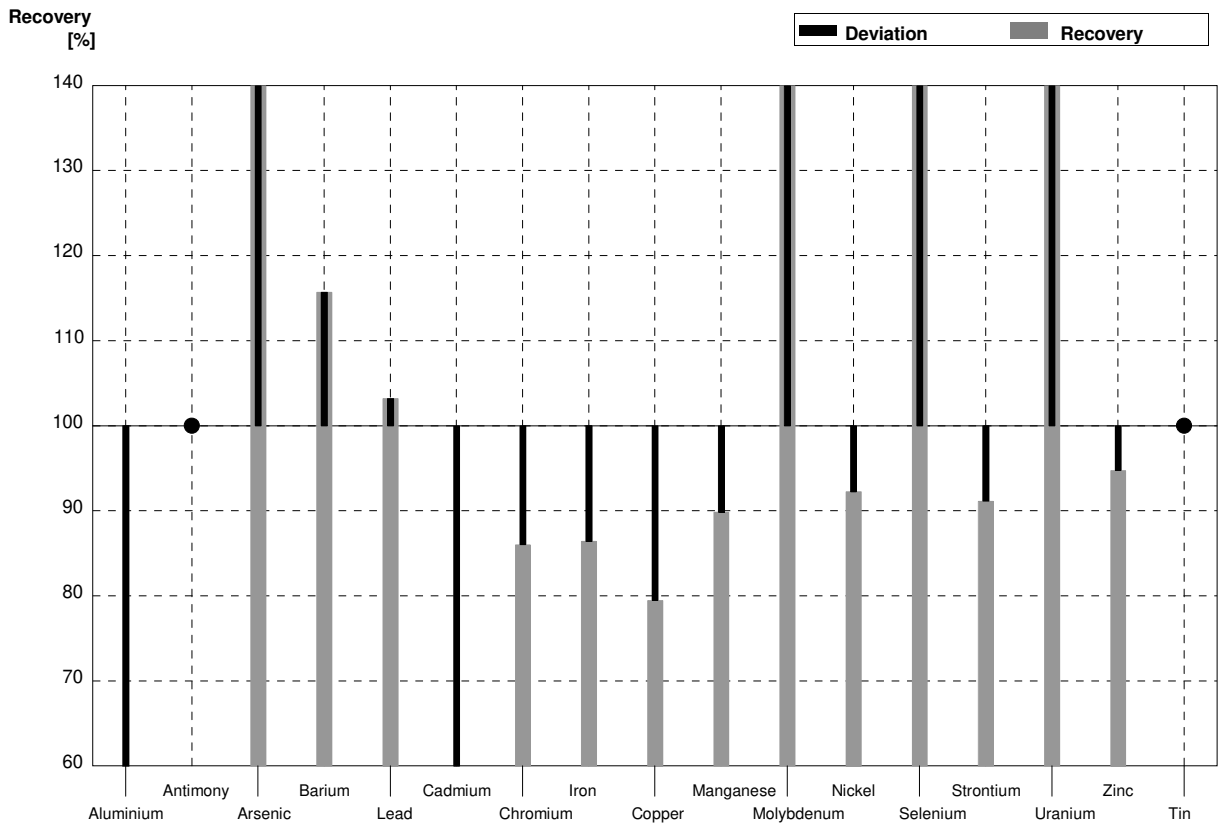
Sample M174B
Laboratory AK

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | | | $\mu\text{g/l}$ | |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | | | $\mu\text{g/l}$ | |
| Lead | 7,08 | 0,04 | | | $\mu\text{g/l}$ | |
| Cadmium | 1,030 | 0,011 | 0,893 | 0,08 | $\mu\text{g/l}$ | 87% |
| Chromium | 5,26 | 0,03 | | | $\mu\text{g/l}$ | |
| Iron | 83,8 | 0,5 | | | $\mu\text{g/l}$ | |
| Copper | 1,19 | 0,03 | | | $\mu\text{g/l}$ | |
| Manganese | 21,92 | 0,18 | | | $\mu\text{g/l}$ | |
| Molybdenum | 4,89 | 0,06 | | | $\mu\text{g/l}$ | |
| Nickel | 3,63 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | | | $\mu\text{g/l}$ | |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | | | $\mu\text{g/l}$ | |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



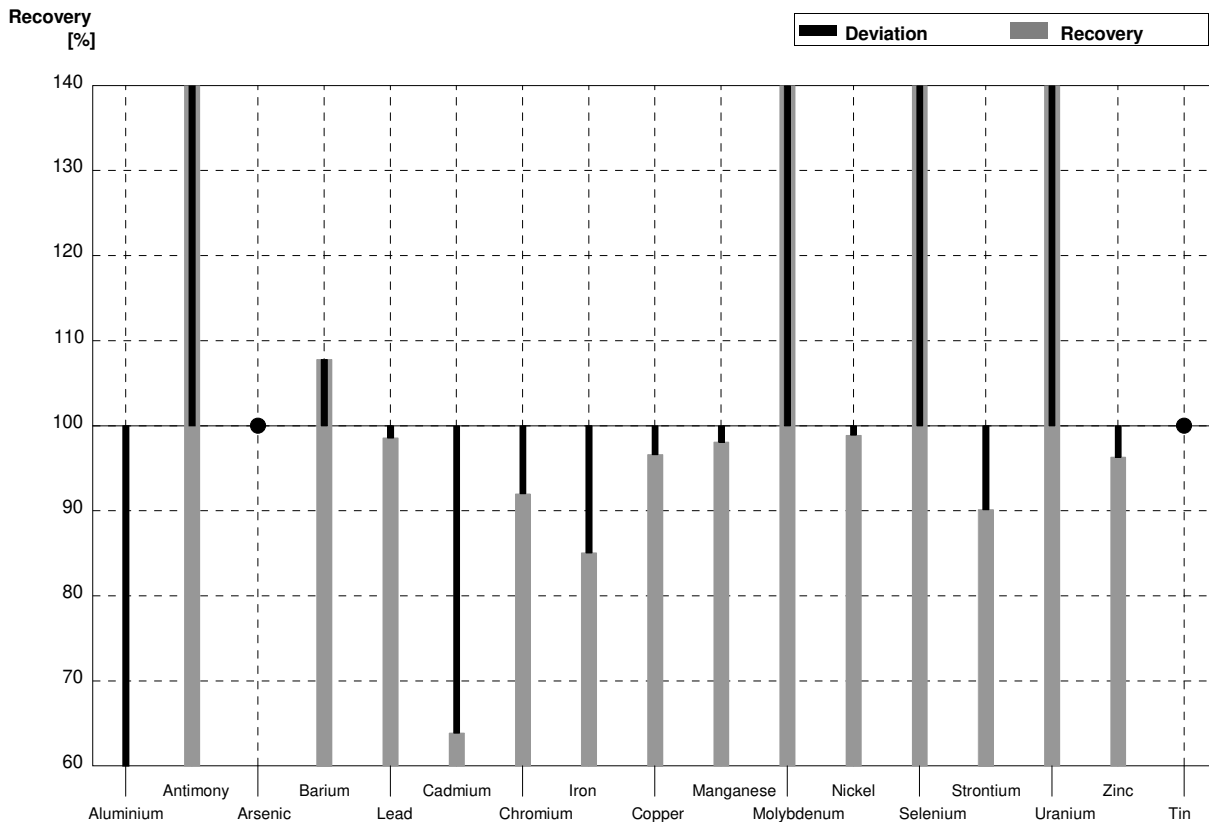
Sample M174A
Laboratory AL

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 7,54 | 0,43 | µg/l | 40% |
| Antimony | 1,210 | 0,018 | <2 | | µg/l | • |
| Arsenic | 5,02 | 0,03 | 7,24 | 0,62 | µg/l | 144% |
| Barium | 25,06 | 0,13 | 29,0 | 2,73 | µg/l | 116% |
| Lead | 2,79 | 0,03 | 2,88 | 0,55 | µg/l | 103% |
| Cadmium | 0,398 | 0,006 | 0,139 | 0,023 | µg/l | 35% |
| Chromium | 0,795 | 0,010 | 0,684 | 0,069 | µg/l | 86% |
| Iron | 33,9 | 0,4 | 29,3 | 1,52 | µg/l | 86% |
| Copper | 4,63 | 0,04 | 3,68 | 0,11 | µg/l | 79% |
| Manganese | 8,57 | 0,14 | 7,70 | 0,45 | µg/l | 90% |
| Molybdenum | 1,48 | 0,05 | 5,90 | 0,93 | µg/l | 399% |
| Nickel | 2,84 | 0,03 | 2,62 | 0,17 | µg/l | 92% |
| Selenium | 0,936 | 0,018 | 8,54 | 0,70 | µg/l | 912% |
| Strontium | 339 | 3 | 309 | 0,31 | µg/l | 91% |
| Uranium | 1,723 | 0,015 | 8,01 | 0,77 | µg/l | 465% |
| Zinc | 28,7 | 2,5 | 27,2 | 1,31 | µg/l | 95% |
| Tin | 1,89 | 0,03 | <5 | | µg/l | • |



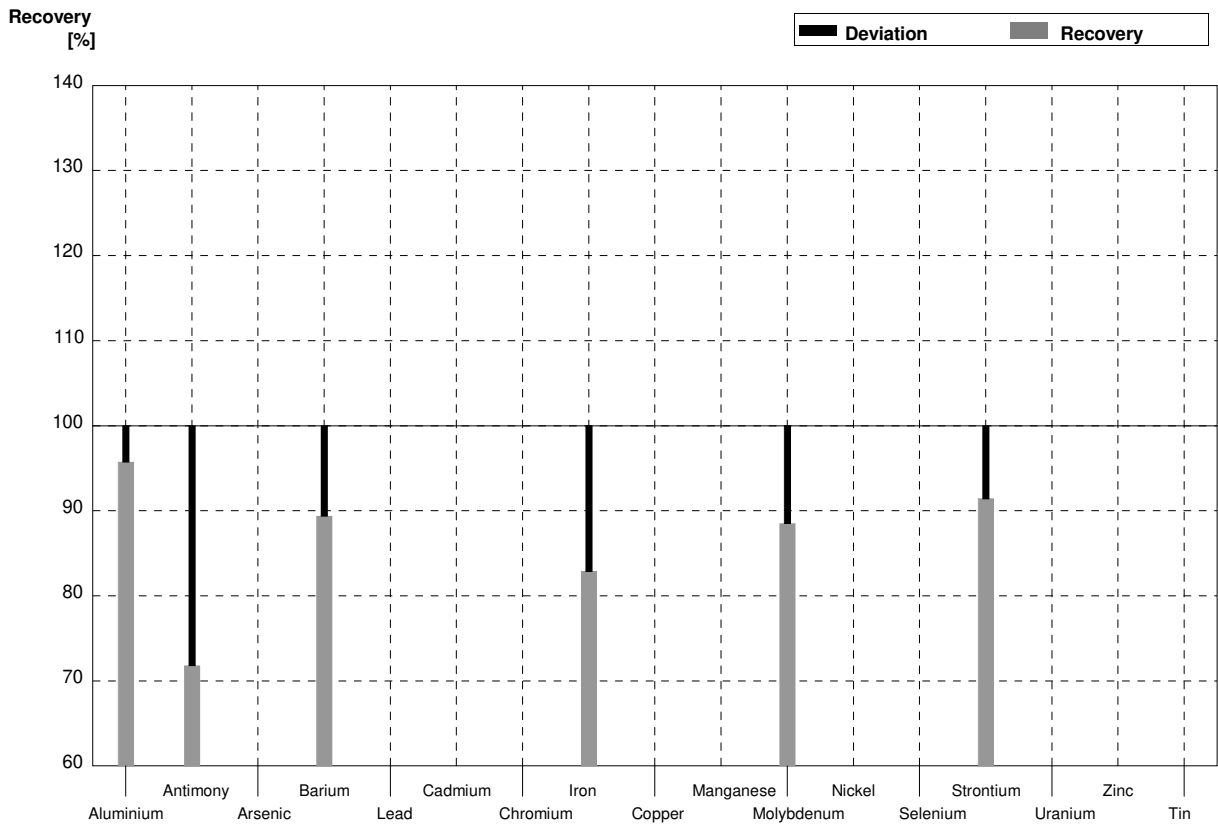
Sample M174B
Laboratory AL

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|------|------|----------|
| Aluminium | 38,0 | 0,4 | 20,6 | 1,38 | µg/l | 54% |
| Antimony | 0,445 | 0,015 | 3,21 | 0,18 | µg/l | 721% |
| Arsenic | 1,804 | 0,015 | <5 | | µg/l | • |
| Barium | 60,3 | 0,2 | 65,0 | 2,99 | µg/l | 108% |
| Lead | 7,08 | 0,04 | 6,98 | 1,54 | µg/l | 99% |
| Cadmium | 1,030 | 0,011 | 0,658 | 0,02 | µg/l | 64% |
| Chromium | 5,26 | 0,03 | 4,84 | 0,24 | µg/l | 92% |
| Iron | 83,8 | 0,5 | 71,3 | 2,07 | µg/l | 85% |
| Copper | 1,19 | 0,03 | 1,15 | 0,14 | µg/l | 97% |
| Manganese | 21,92 | 0,18 | 21,5 | 1,12 | µg/l | 98% |
| Molybdenum | 4,89 | 0,06 | 7,99 | 0,22 | µg/l | 163% |
| Nickel | 3,63 | 0,03 | 3,59 | 3,63 | µg/l | 99% |
| Selenium | 2,31 | 0,02 | 9,41 | 1,55 | µg/l | 407% |
| Strontium | 864 | 8 | 779 | 1,56 | µg/l | 90% |
| Uranium | 4,23 | 0,03 | 29,4 | 3,12 | µg/l | 695% |
| Zinc | 57 | 2 | 54,9 | 1,59 | µg/l | 96% |
| Tin | 0,74 | 0,02 | <5 | | µg/l | • |



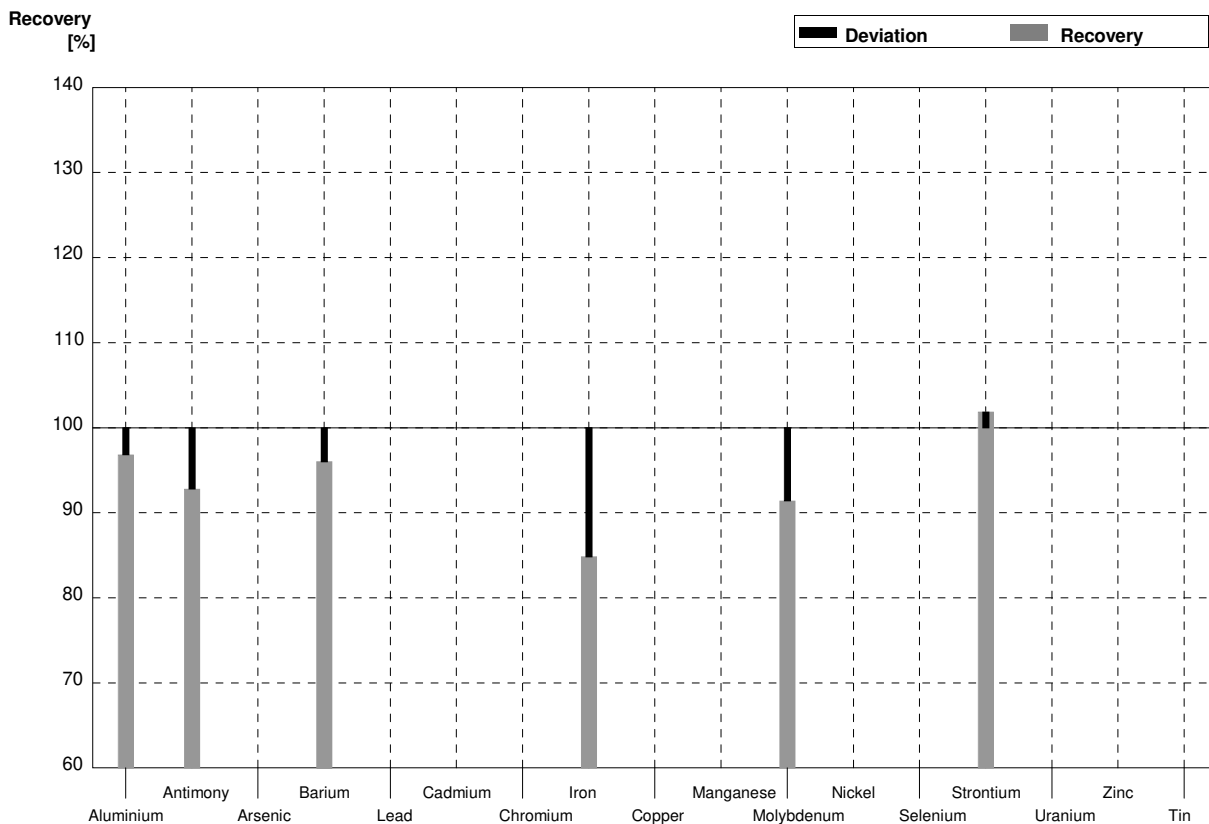
Sample M174A
Laboratory AM

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | 18,0 | 1,80 | $\mu\text{g/l}$ | 96% |
| Antimony | 1,210 | 0,018 | 0,869 | 0,0869 | $\mu\text{g/l}$ | 72% |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | 22,4 | 2,24 | $\mu\text{g/l}$ | 89% |
| Lead | 2,79 | 0,03 | | | $\mu\text{g/l}$ | |
| Cadmium | 0,398 | 0,006 | | | $\mu\text{g/l}$ | |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | 28,1 | 2,81 | $\mu\text{g/l}$ | 83% |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | | | $\mu\text{g/l}$ | |
| Molybdenum | 1,48 | 0,05 | 1,31 | 0,131 | $\mu\text{g/l}$ | 89% |
| Nickel | 2,84 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | 310 | 31,0 | $\mu\text{g/l}$ | 91% |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | | | $\mu\text{g/l}$ | |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



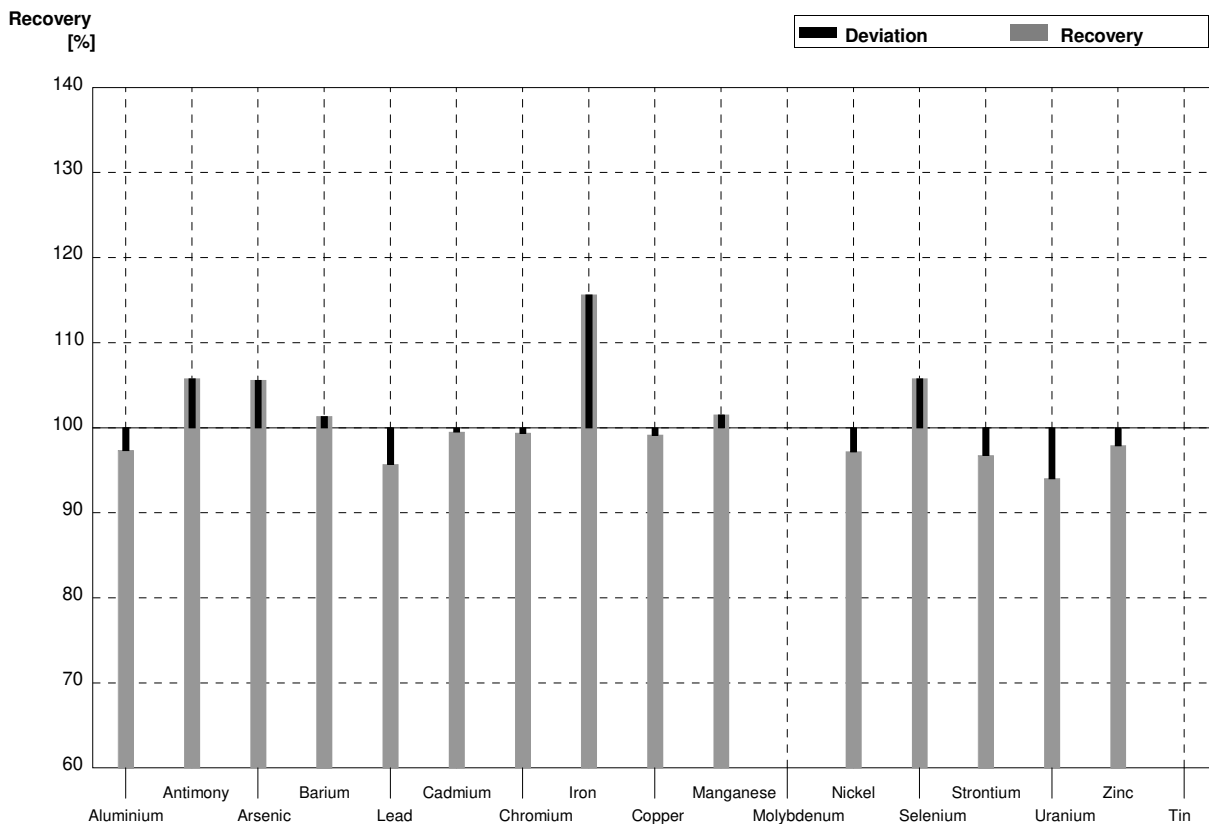
Sample M174B
Laboratory AM

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|--------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 36,8 | 3,68 | $\mu\text{g/l}$ | 97% |
| Antimony | 0,445 | 0,015 | 0,413 | 0,0413 | $\mu\text{g/l}$ | 93% |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | 57,9 | 5,79 | $\mu\text{g/l}$ | 96% |
| Lead | 7,08 | 0,04 | | | $\mu\text{g/l}$ | |
| Cadmium | 1,030 | 0,011 | | | $\mu\text{g/l}$ | |
| Chromium | 5,26 | 0,03 | | | $\mu\text{g/l}$ | |
| Iron | 83,8 | 0,5 | 71,1 | 7,11 | $\mu\text{g/l}$ | 85% |
| Copper | 1,19 | 0,03 | | | $\mu\text{g/l}$ | |
| Manganese | 21,92 | 0,18 | | | $\mu\text{g/l}$ | |
| Molybdenum | 4,89 | 0,06 | 4,47 | 0,447 | $\mu\text{g/l}$ | 91% |
| Nickel | 3,63 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | 880 | 88,0 | $\mu\text{g/l}$ | 102% |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | | | $\mu\text{g/l}$ | |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



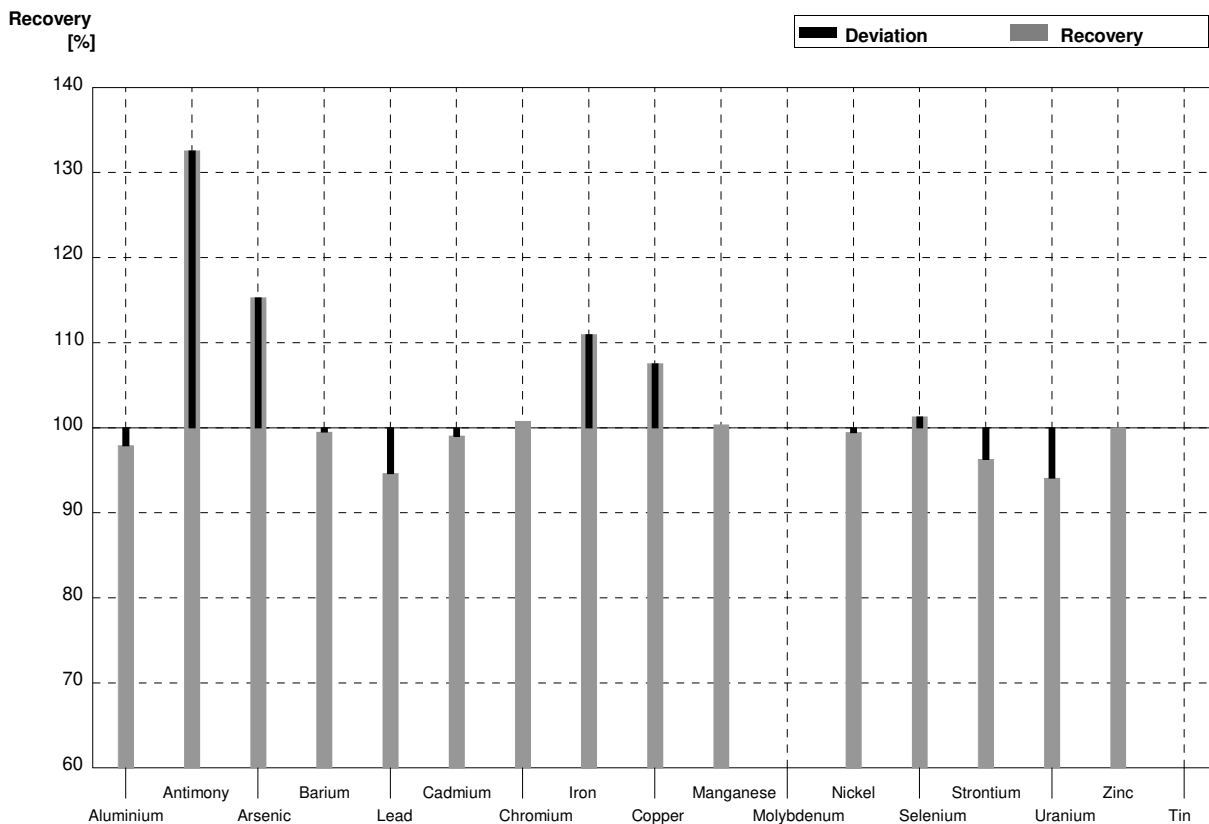
Sample M174A
Laboratory AN

| Parameter | Assigned value | ± U (k=2) | Result | ± | Unit | Recovery |
|------------|----------------|-----------|--------|-------|------|----------|
| Aluminium | 18,8 | 0,3 | 18,3 | 1,81 | µg/l | 97% |
| Antimony | 1,210 | 0,018 | 1,28 | 0,118 | µg/l | 106% |
| Arsenic | 5,02 | 0,03 | 5,3 | 0,66 | µg/l | 106% |
| Barium | 25,06 | 0,13 | 25,4 | 2,77 | µg/l | 101% |
| Lead | 2,79 | 0,03 | 2,67 | 0,235 | µg/l | 96% |
| Cadmium | 0,398 | 0,006 | 0,396 | 0,046 | µg/l | 99% |
| Chromium | 0,795 | 0,010 | 0,79 | 0,058 | µg/l | 99% |
| Iron | 33,9 | 0,4 | 39,2 | 5,9 | µg/l | 116% |
| Copper | 4,63 | 0,04 | 4,59 | 0,38 | µg/l | 99% |
| Manganese | 8,57 | 0,14 | 8,7 | 0,68 | µg/l | 102% |
| Molybdenum | 1,48 | 0,05 | | | µg/l | |
| Nickel | 2,84 | 0,03 | 2,76 | 0,204 | µg/l | 97% |
| Selenium | 0,936 | 0,018 | 0,99 | 0,113 | µg/l | 106% |
| Strontium | 339 | 3 | 328 | 16,7 | µg/l | 97% |
| Uranium | 1,723 | 0,015 | 1,62 | 0,156 | µg/l | 94% |
| Zinc | 28,7 | 2,5 | 28,1 | 4,22 | µg/l | 98% |
| Tin | 1,89 | 0,03 | | | µg/l | |



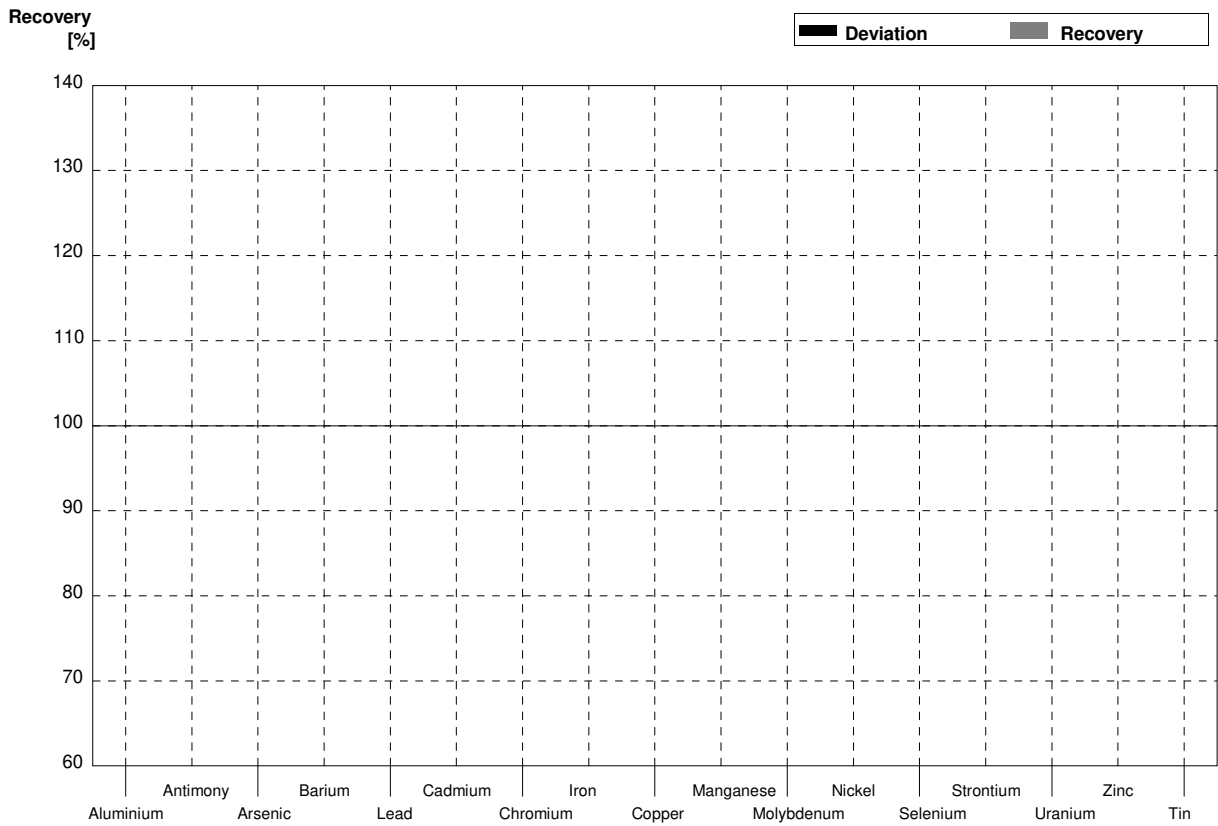
Sample M174B
Laboratory AN

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | 37,2 | 2,83 | $\mu\text{g/l}$ | 98% |
| Antimony | 0,445 | 0,015 | 0,59 | 0,054 | $\mu\text{g/l}$ | 133% |
| Arsenic | 1,804 | 0,015 | 2,08 | 0,26 | $\mu\text{g/l}$ | 115% |
| Barium | 60,3 | 0,2 | 60 | 6,5 | $\mu\text{g/l}$ | 100% |
| Lead | 7,08 | 0,04 | 6,7 | 0,59 | $\mu\text{g/l}$ | 95% |
| Cadmium | 1,030 | 0,011 | 1,02 | 0,117 | $\mu\text{g/l}$ | 99% |
| Chromium | 5,26 | 0,03 | 5,3 | 0,387 | $\mu\text{g/l}$ | 101% |
| Iron | 83,8 | 0,5 | 93 | 13,9 | $\mu\text{g/l}$ | 111% |
| Copper | 1,19 | 0,03 | 1,28 | 0,10 | $\mu\text{g/l}$ | 108% |
| Manganese | 21,92 | 0,18 | 22,0 | 1,72 | $\mu\text{g/l}$ | 100% |
| Molybdenum | 4,89 | 0,06 | | | $\mu\text{g/l}$ | |
| Nickel | 3,63 | 0,03 | 3,61 | 0,267 | $\mu\text{g/l}$ | 99% |
| Selenium | 2,31 | 0,02 | 2,34 | 0,269 | $\mu\text{g/l}$ | 101% |
| Strontium | 864 | 8 | 832 | 42,4 | $\mu\text{g/l}$ | 96% |
| Uranium | 4,23 | 0,03 | 3,98 | 0,382 | $\mu\text{g/l}$ | 94% |
| Zinc | 57 | 2 | 57 | 8,6 | $\mu\text{g/l}$ | 100% |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



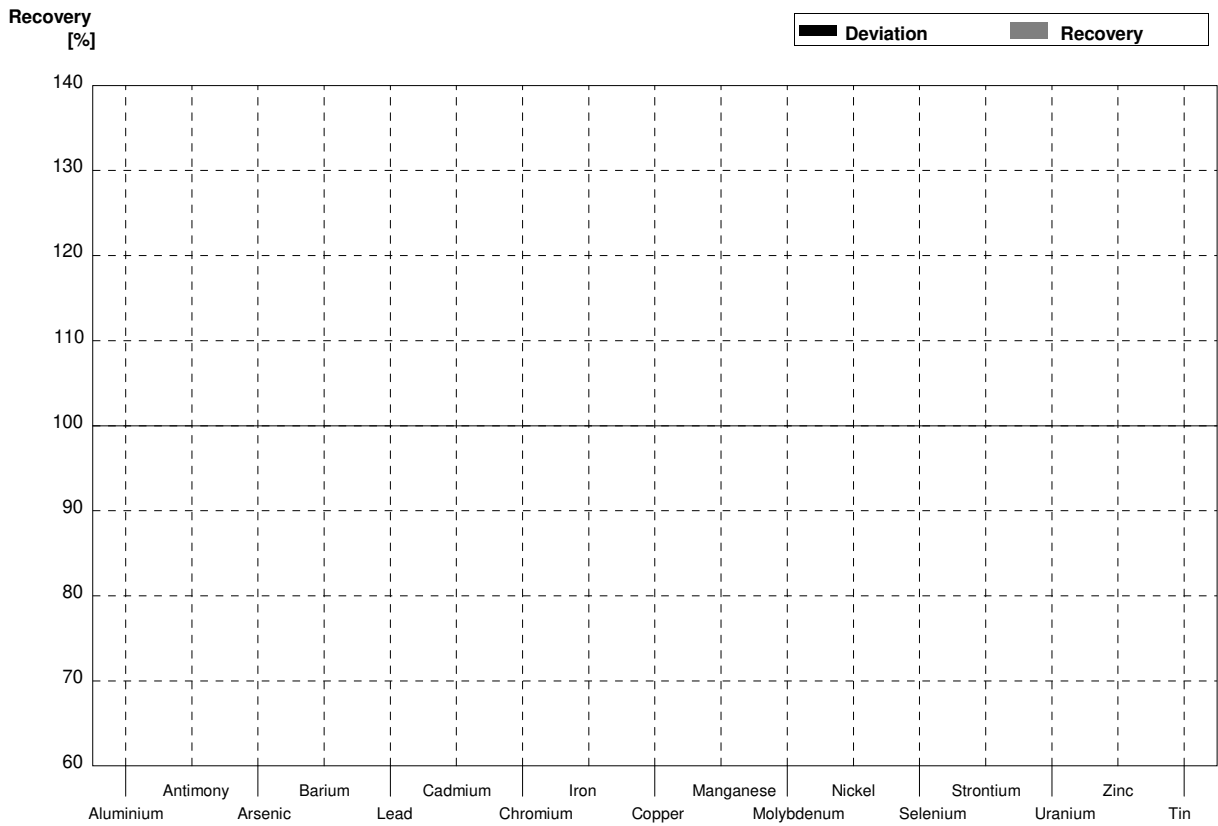
Sample M174A
Laboratory AO

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 18,8 | 0,3 | | | $\mu\text{g/l}$ | |
| Antimony | 1,210 | 0,018 | | | $\mu\text{g/l}$ | |
| Arsenic | 5,02 | 0,03 | | | $\mu\text{g/l}$ | |
| Barium | 25,06 | 0,13 | | | $\mu\text{g/l}$ | |
| Lead | 2,79 | 0,03 | | | $\mu\text{g/l}$ | |
| Cadmium | 0,398 | 0,006 | | | $\mu\text{g/l}$ | |
| Chromium | 0,795 | 0,010 | | | $\mu\text{g/l}$ | |
| Iron | 33,9 | 0,4 | | | $\mu\text{g/l}$ | |
| Copper | 4,63 | 0,04 | | | $\mu\text{g/l}$ | |
| Manganese | 8,57 | 0,14 | | | $\mu\text{g/l}$ | |
| Molybdenum | 1,48 | 0,05 | | | $\mu\text{g/l}$ | |
| Nickel | 2,84 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 0,936 | 0,018 | | | $\mu\text{g/l}$ | |
| Strontium | 339 | 3 | | | $\mu\text{g/l}$ | |
| Uranium | 1,723 | 0,015 | | | $\mu\text{g/l}$ | |
| Zinc | 28,7 | 2,5 | | | $\mu\text{g/l}$ | |
| Tin | 1,89 | 0,03 | | | $\mu\text{g/l}$ | |



Sample M174B
Laboratory AO

| Parameter | Assigned value | $\pm U (k=2)$ | Result | \pm | Unit | Recovery |
|------------|----------------|---------------|--------|-------|-----------------|----------|
| Aluminium | 38,0 | 0,4 | | | $\mu\text{g/l}$ | |
| Antimony | 0,445 | 0,015 | | | $\mu\text{g/l}$ | |
| Arsenic | 1,804 | 0,015 | | | $\mu\text{g/l}$ | |
| Barium | 60,3 | 0,2 | | | $\mu\text{g/l}$ | |
| Lead | 7,08 | 0,04 | | | $\mu\text{g/l}$ | |
| Cadmium | 1,030 | 0,011 | | | $\mu\text{g/l}$ | |
| Chromium | 5,26 | 0,03 | | | $\mu\text{g/l}$ | |
| Iron | 83,8 | 0,5 | | | $\mu\text{g/l}$ | |
| Copper | 1,19 | 0,03 | | | $\mu\text{g/l}$ | |
| Manganese | 21,92 | 0,18 | | | $\mu\text{g/l}$ | |
| Molybdenum | 4,89 | 0,06 | | | $\mu\text{g/l}$ | |
| Nickel | 3,63 | 0,03 | | | $\mu\text{g/l}$ | |
| Selenium | 2,31 | 0,02 | | | $\mu\text{g/l}$ | |
| Strontium | 864 | 8 | | | $\mu\text{g/l}$ | |
| Uranium | 4,23 | 0,03 | | | $\mu\text{g/l}$ | |
| Zinc | 57 | 2 | | | $\mu\text{g/l}$ | |
| Tin | 0,74 | 0,02 | | | $\mu\text{g/l}$ | |



Methodenvergleich

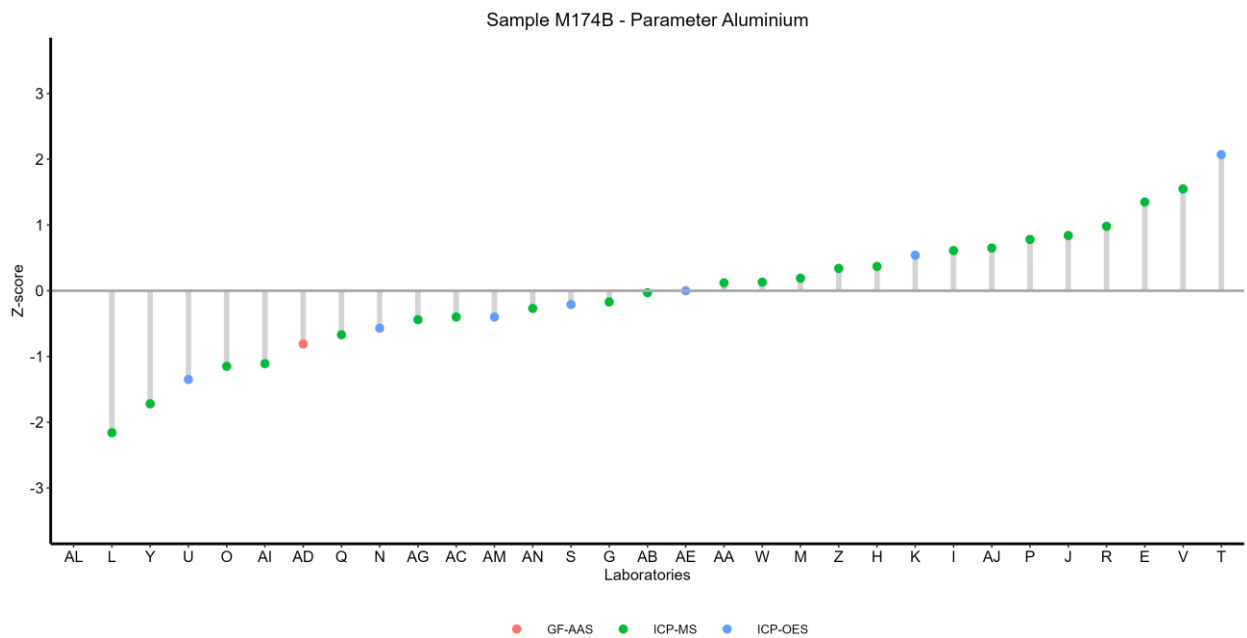
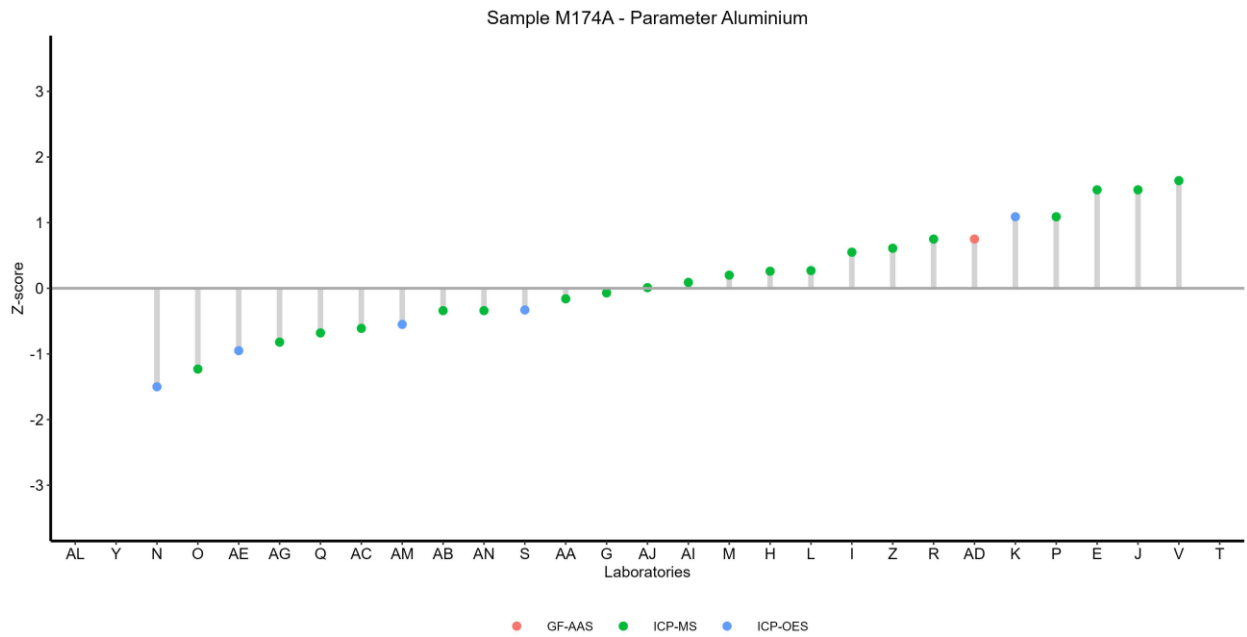
Method comparison

Eignungsprüfungsrunde / Proficiency testing round
M174

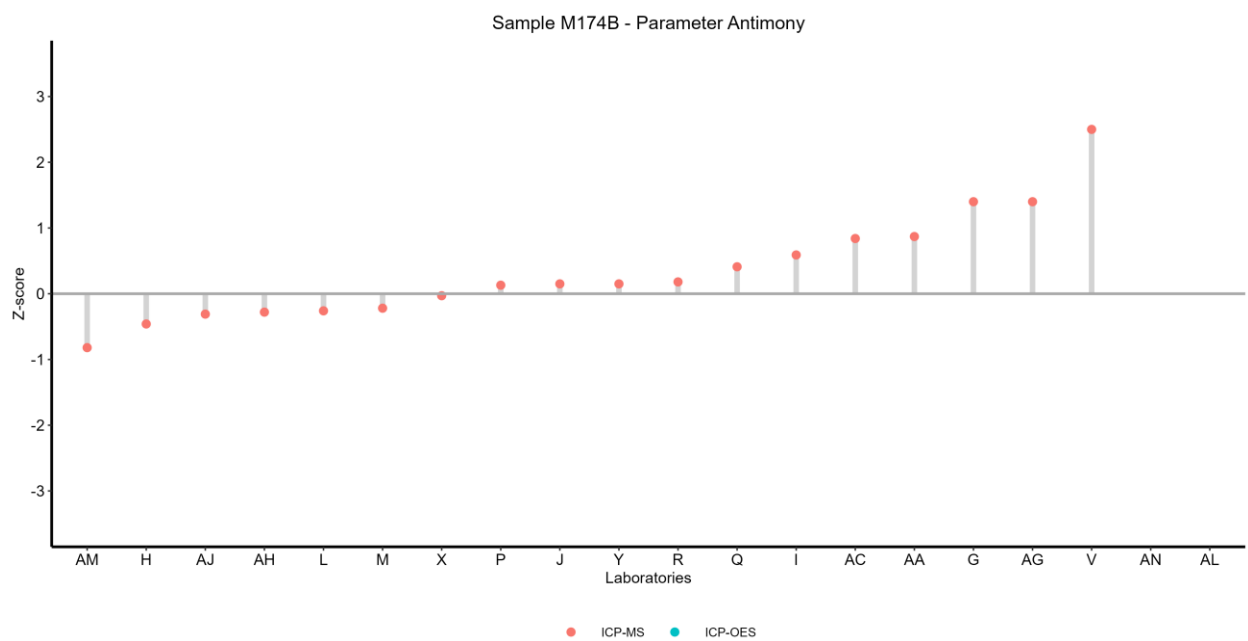
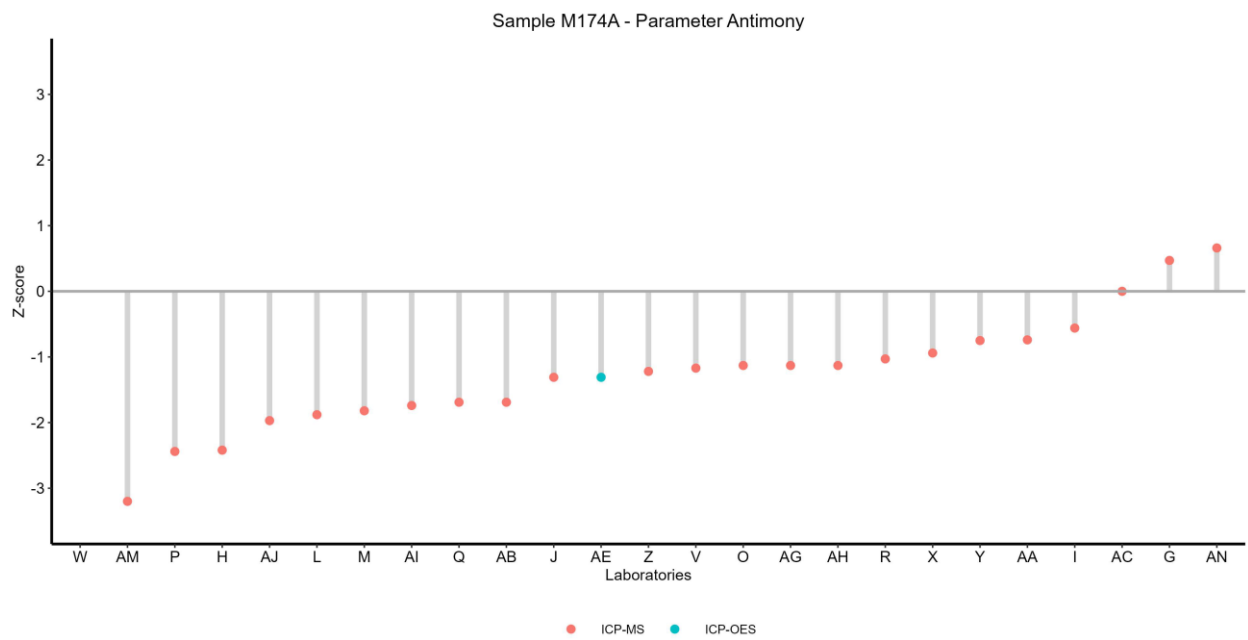
Metalle / Metals

Versand / Dispatch: 11.11.2024

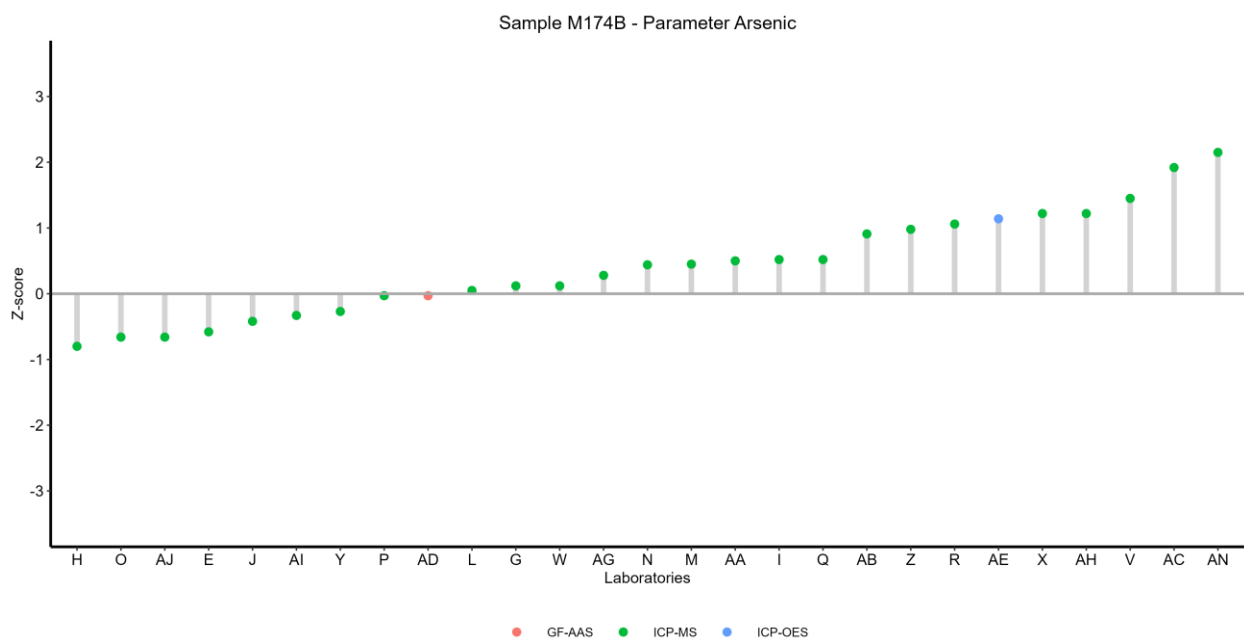
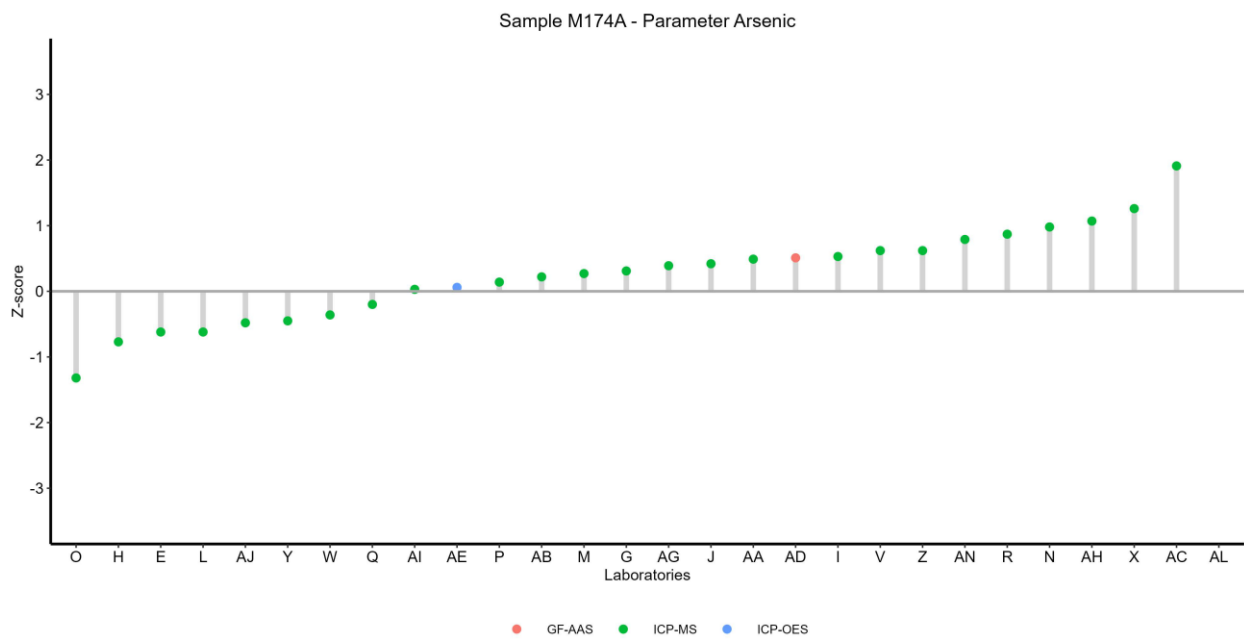
Aluminium



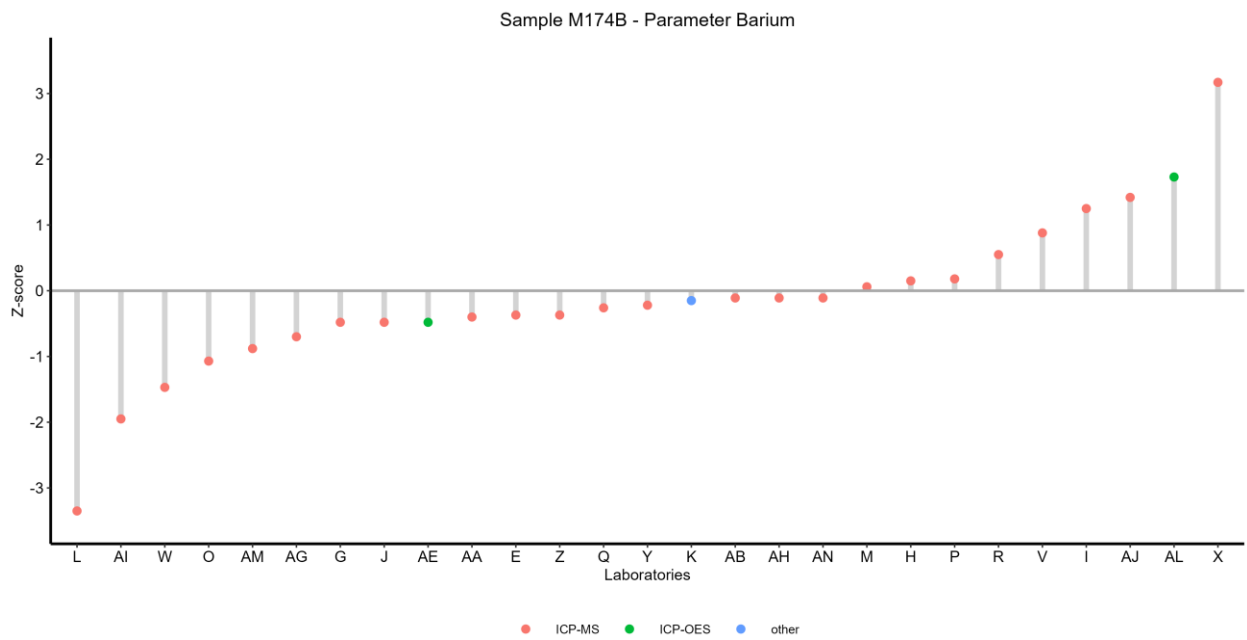
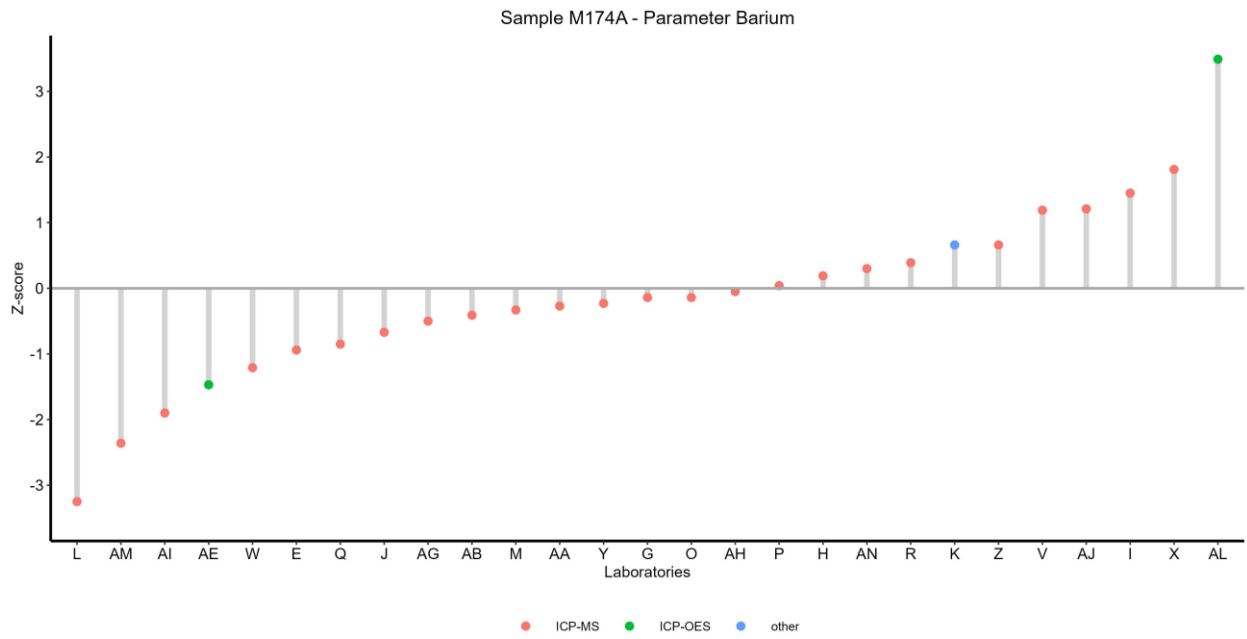
Antimony



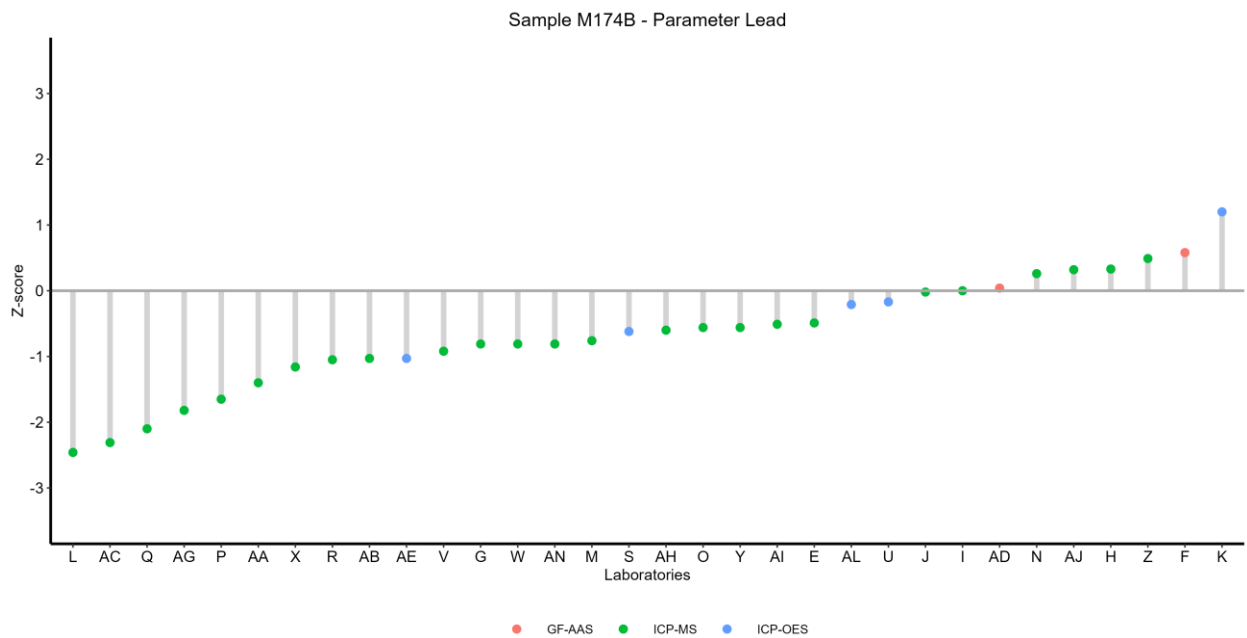
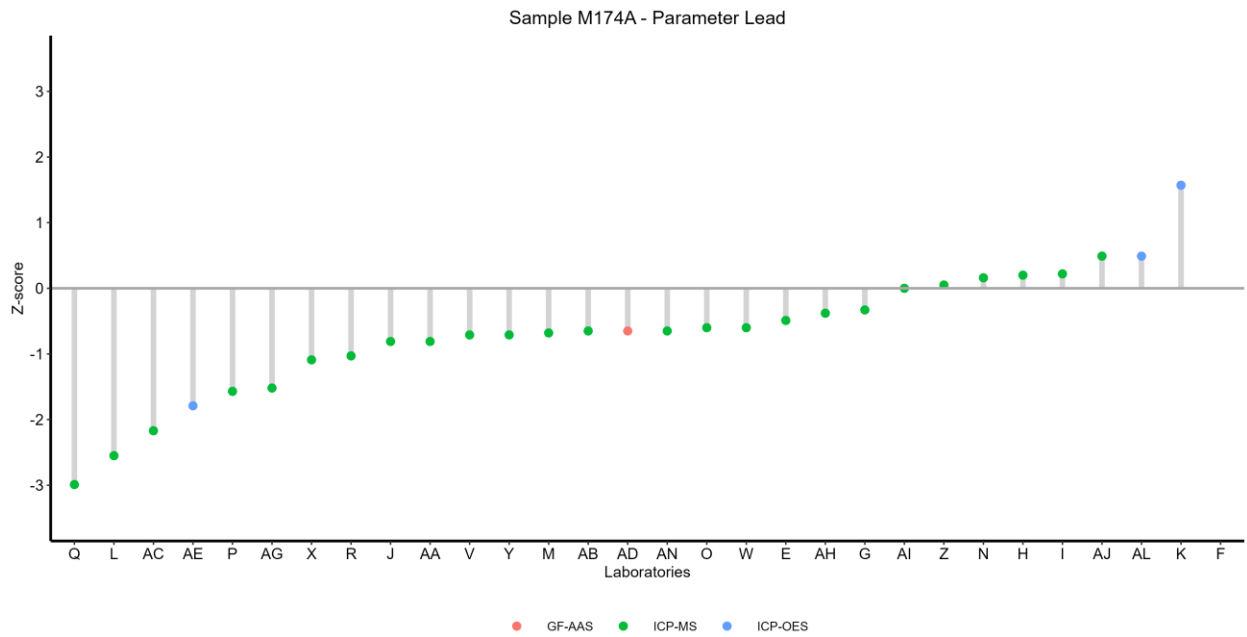
Arsenic



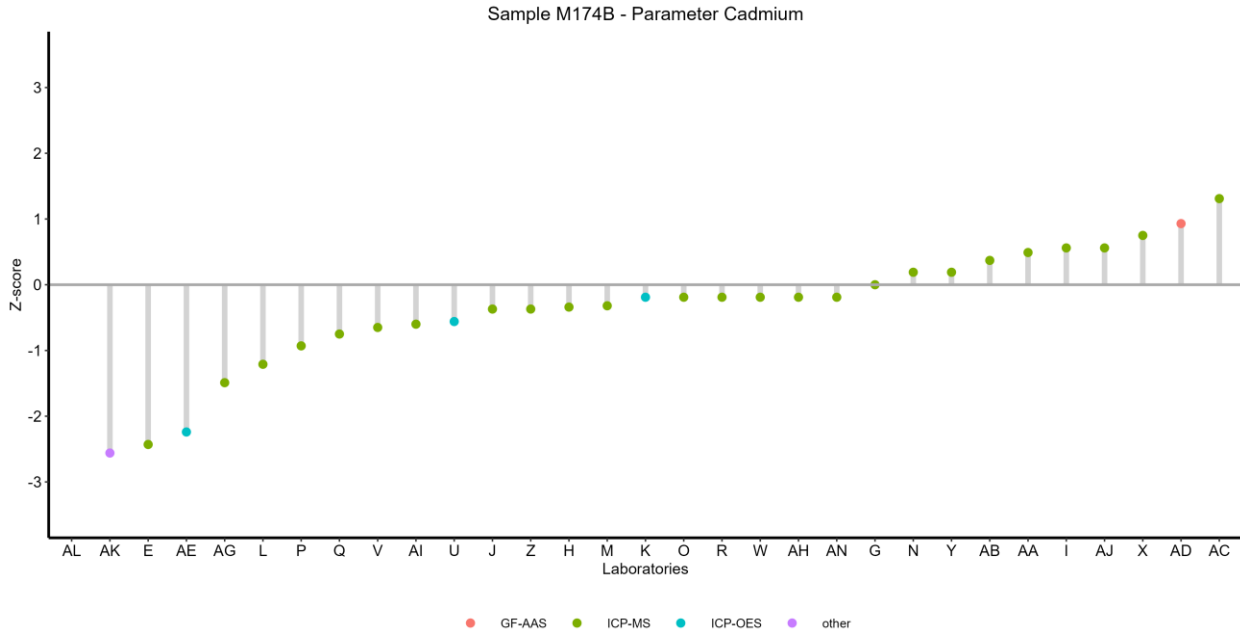
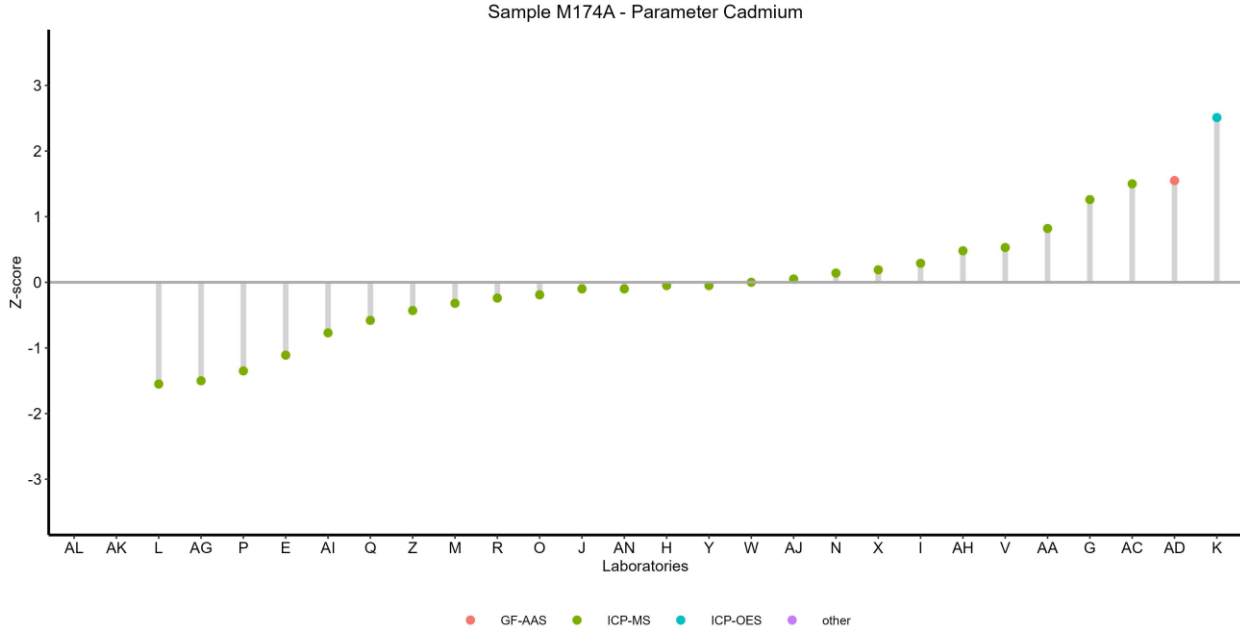
Barium



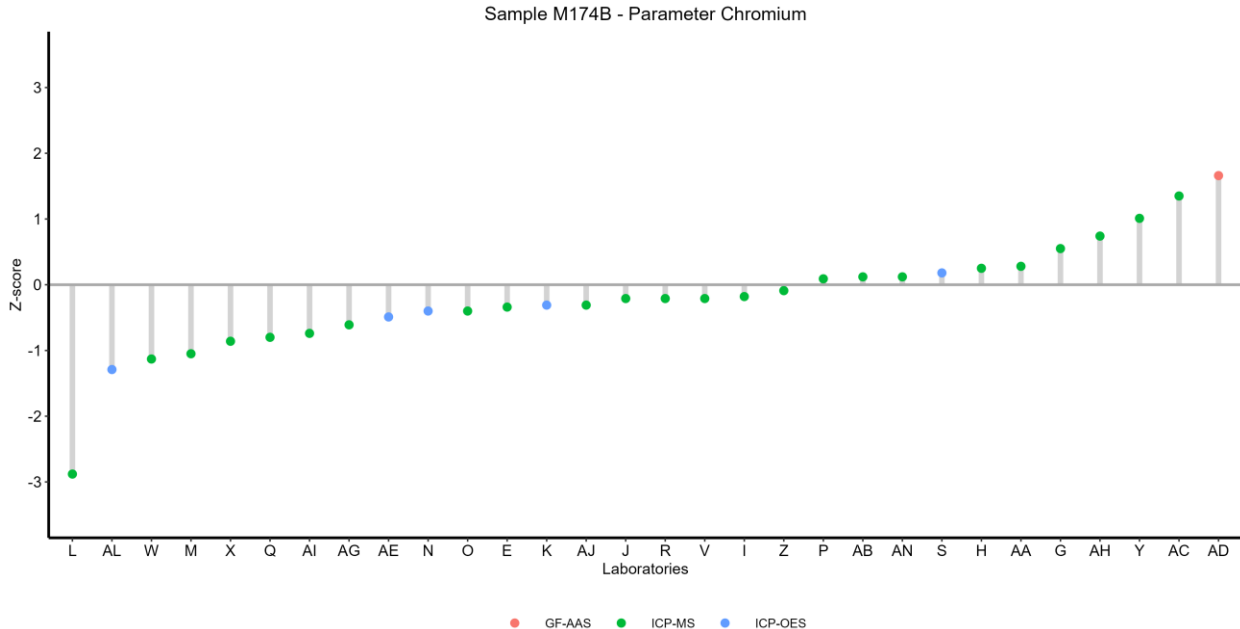
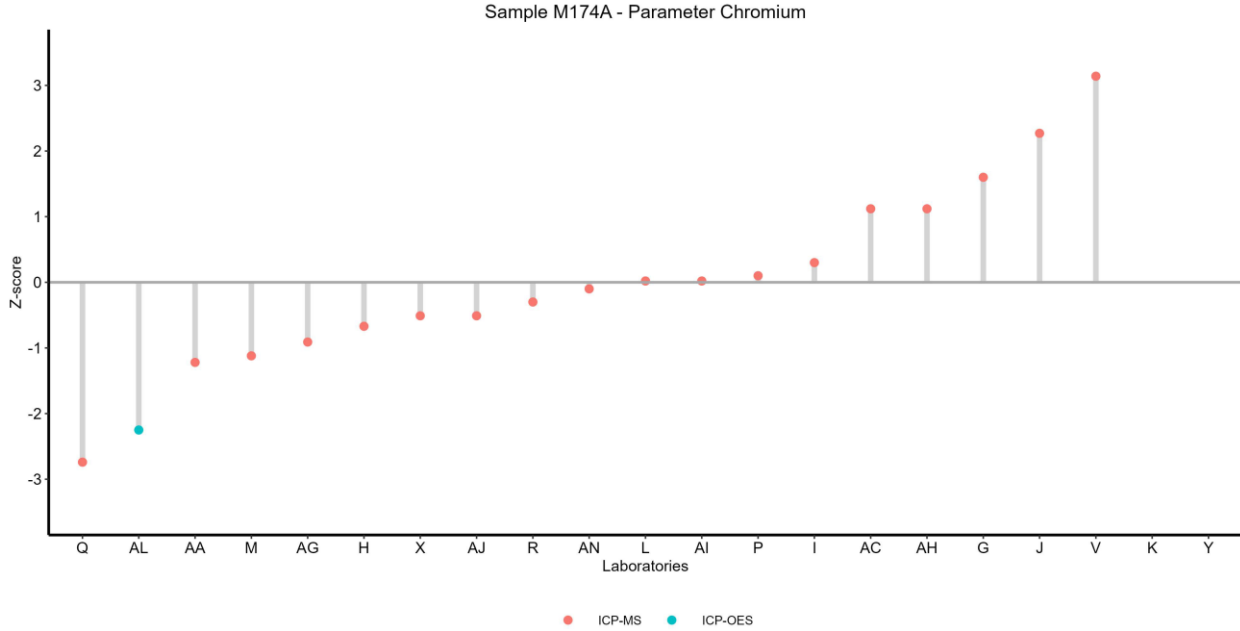
Lead



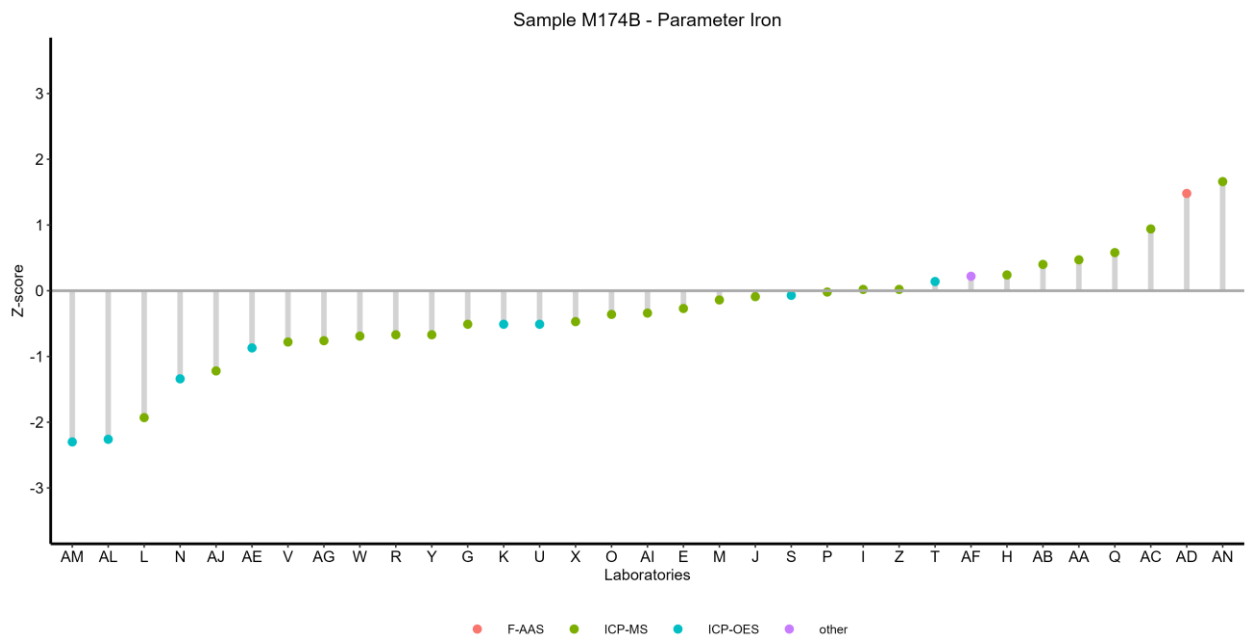
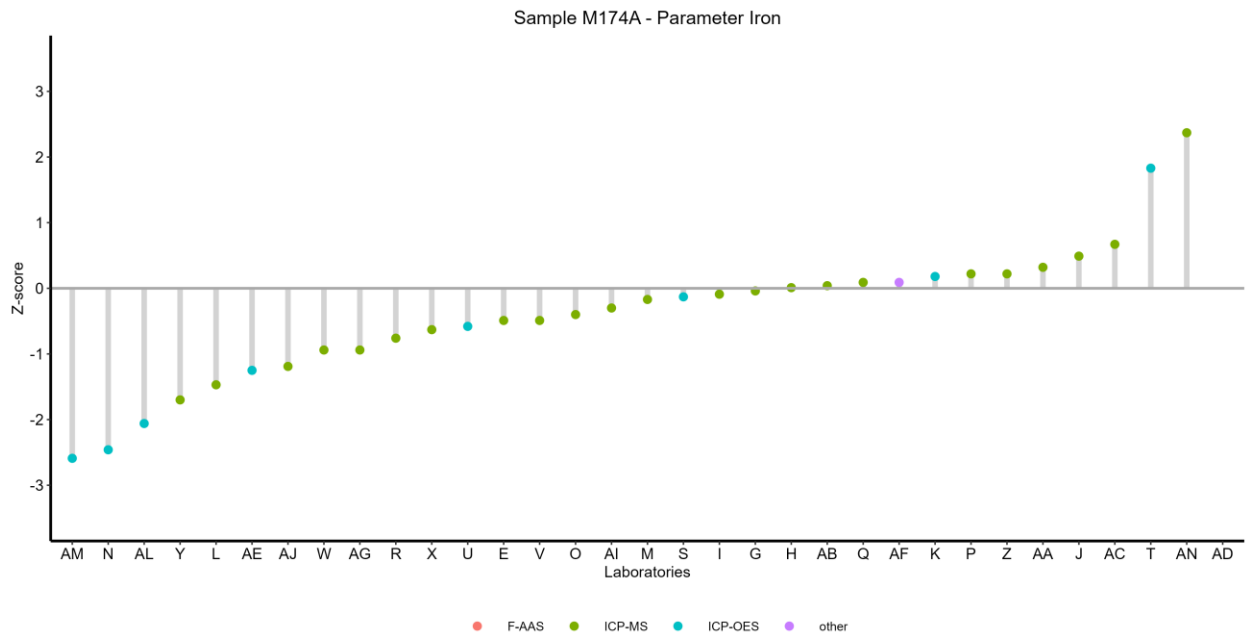
Cadmium



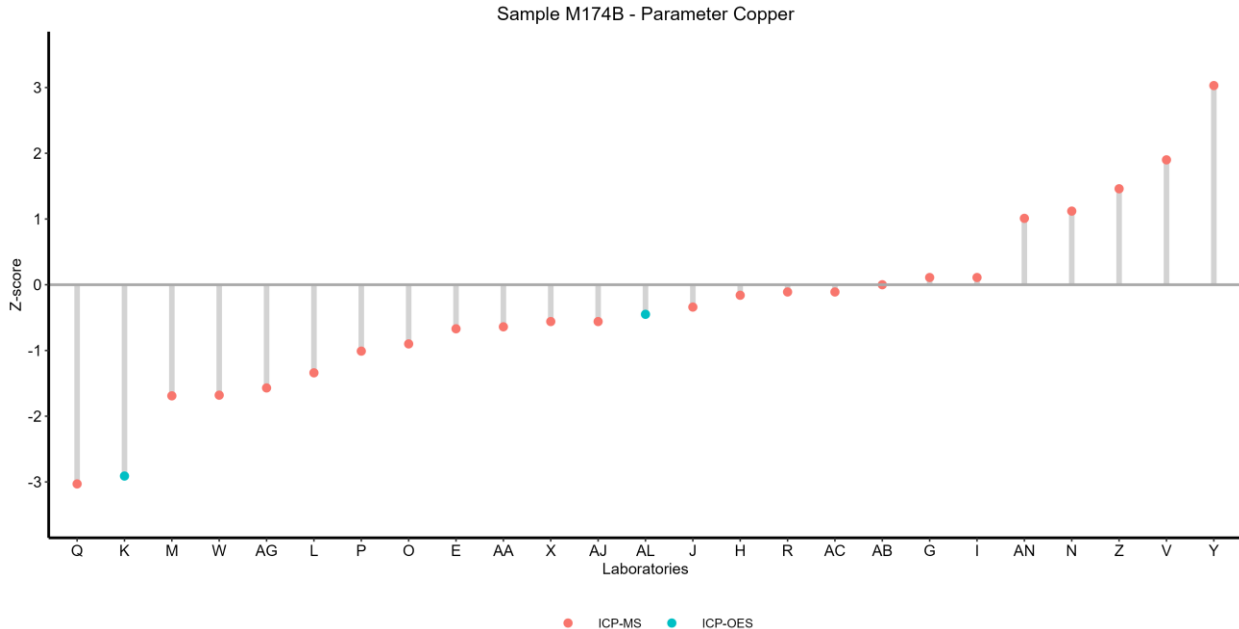
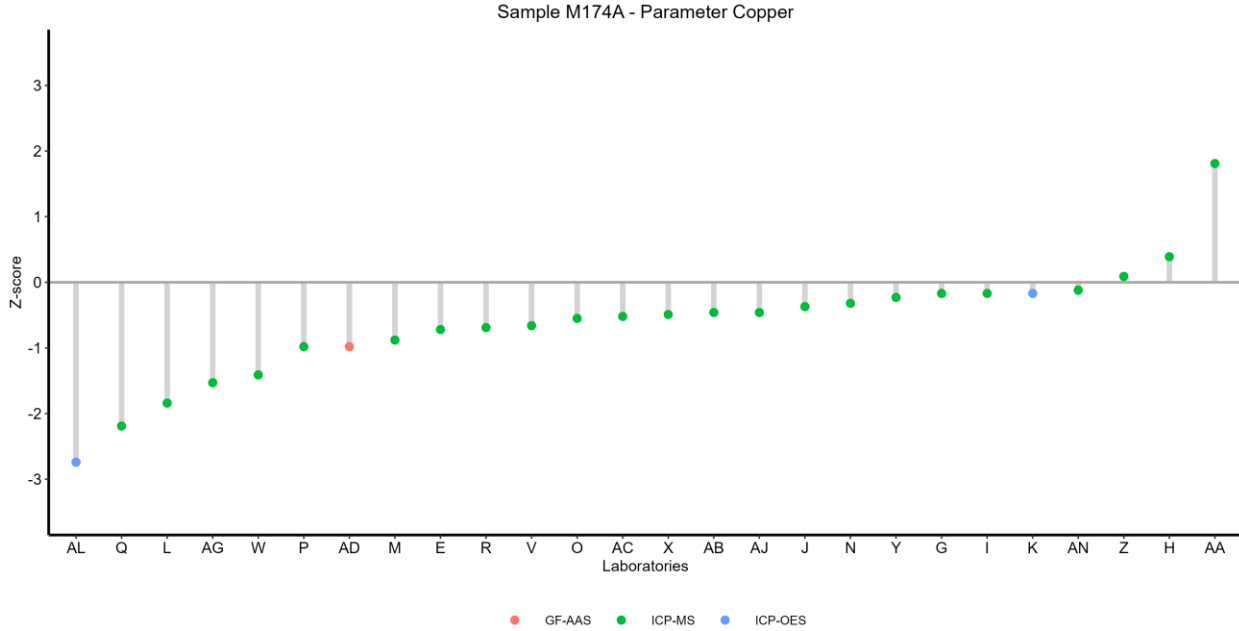
Chromium



Iron

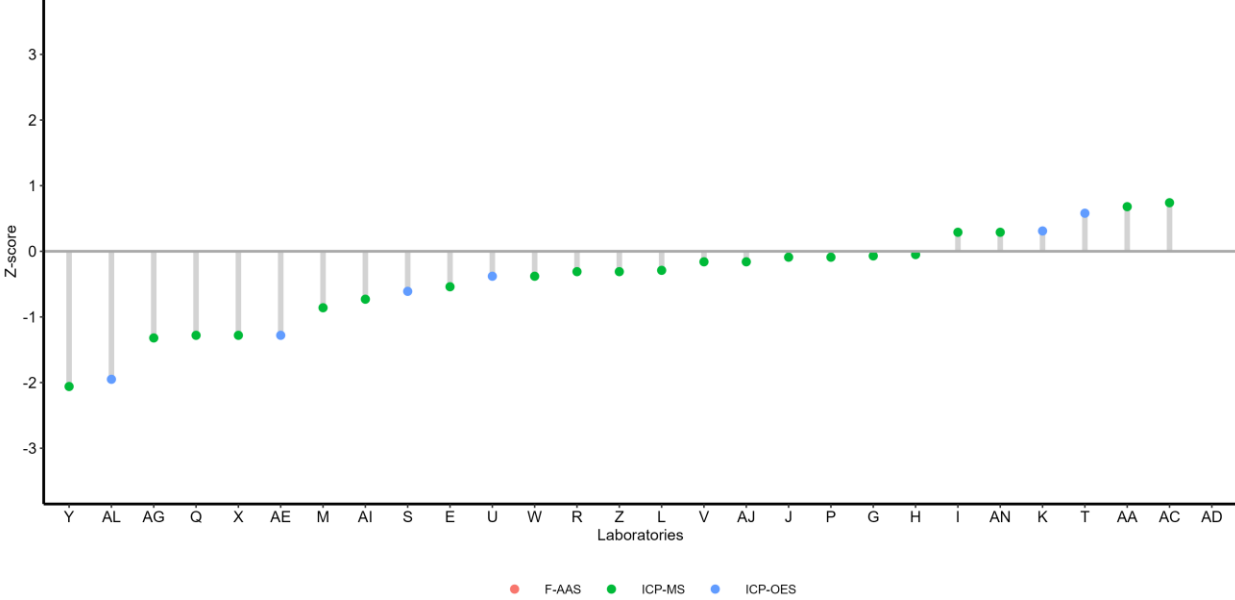


Copper

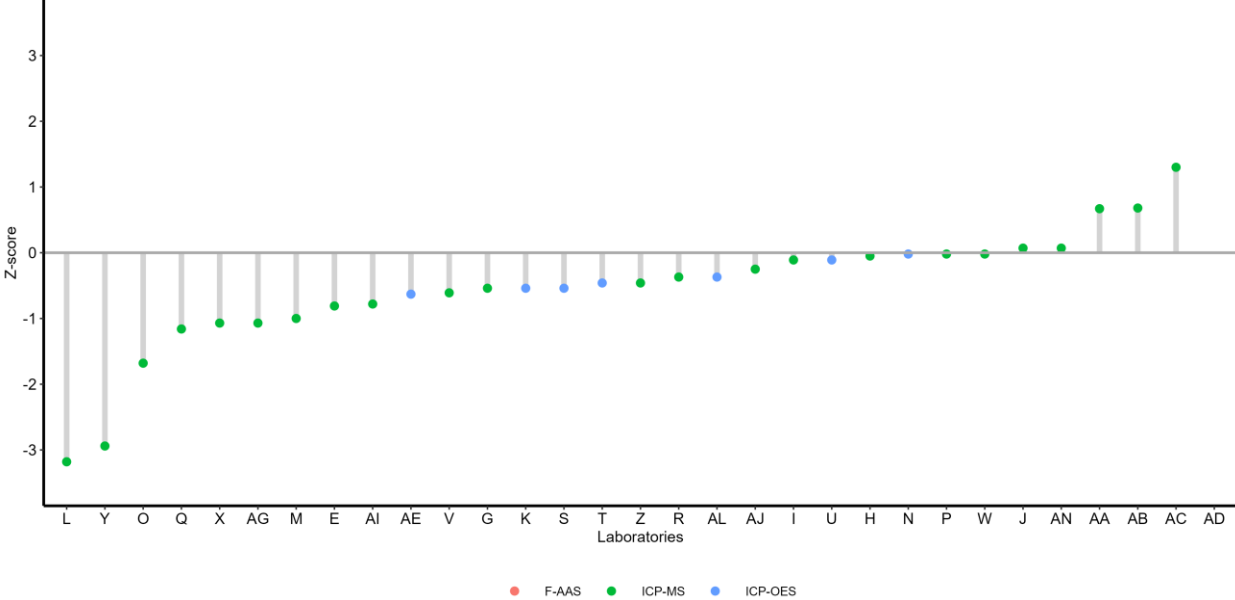


Manganese

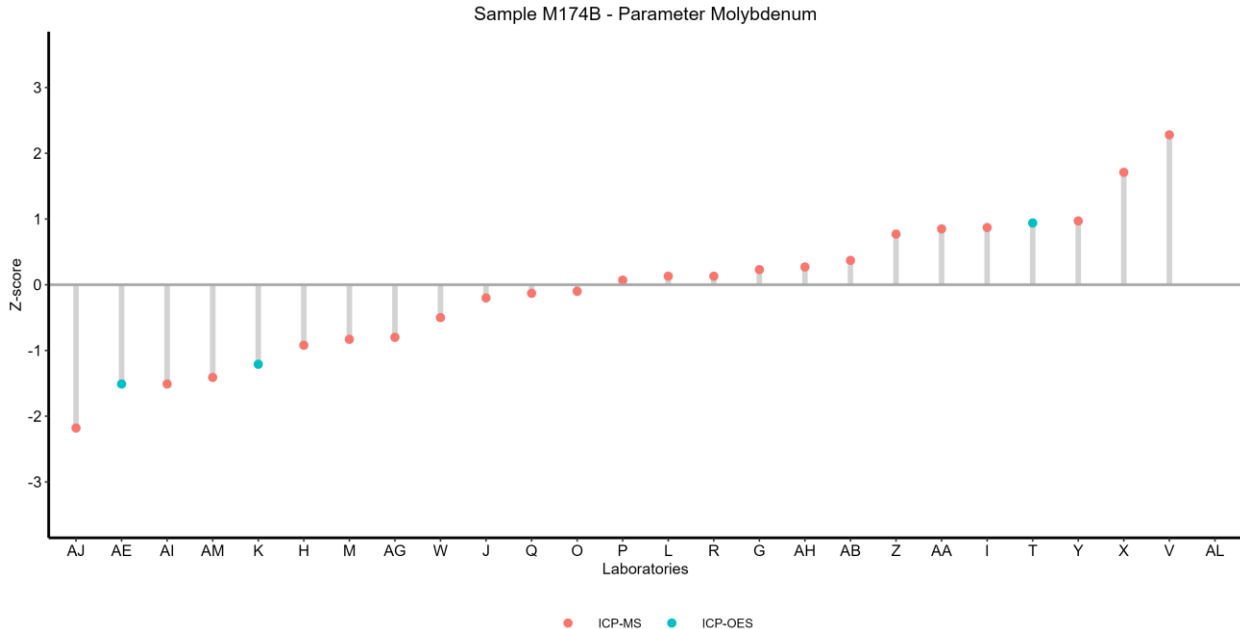
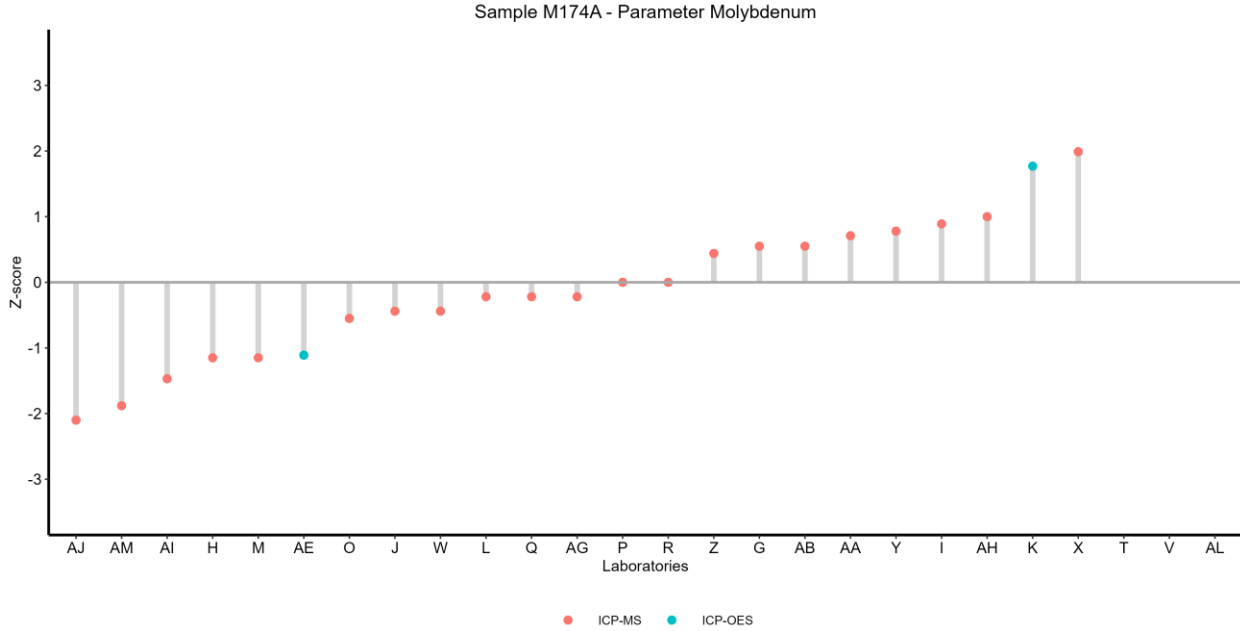
Sample M174A - Parameter Manganese



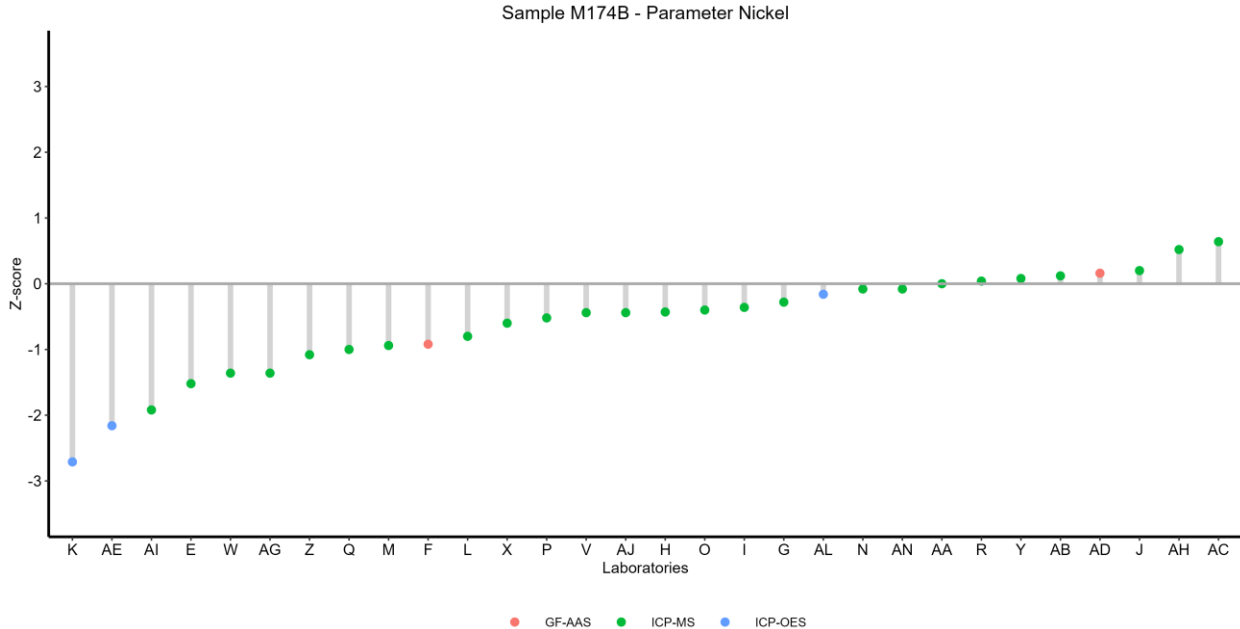
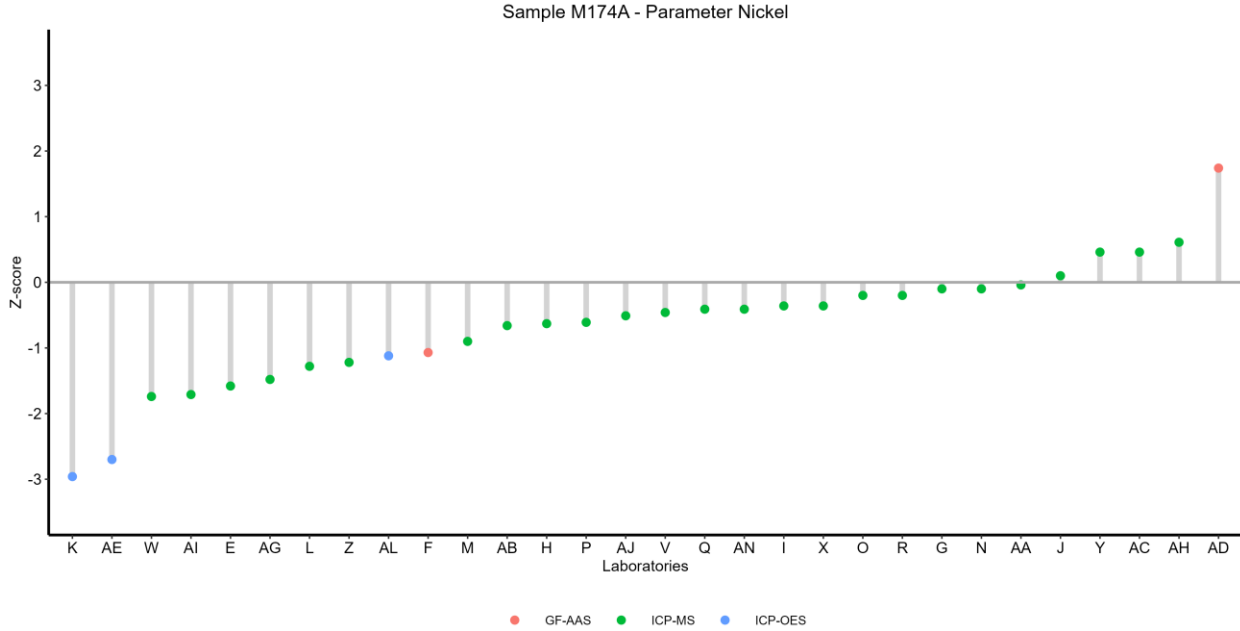
Sample M174B - Parameter Manganese



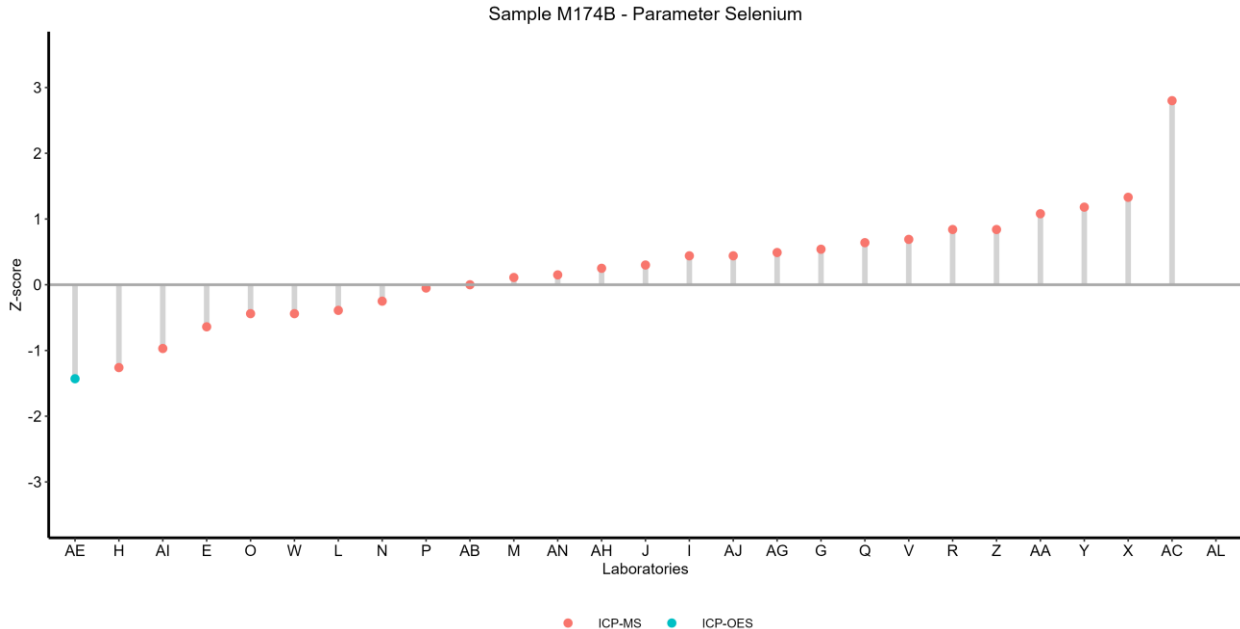
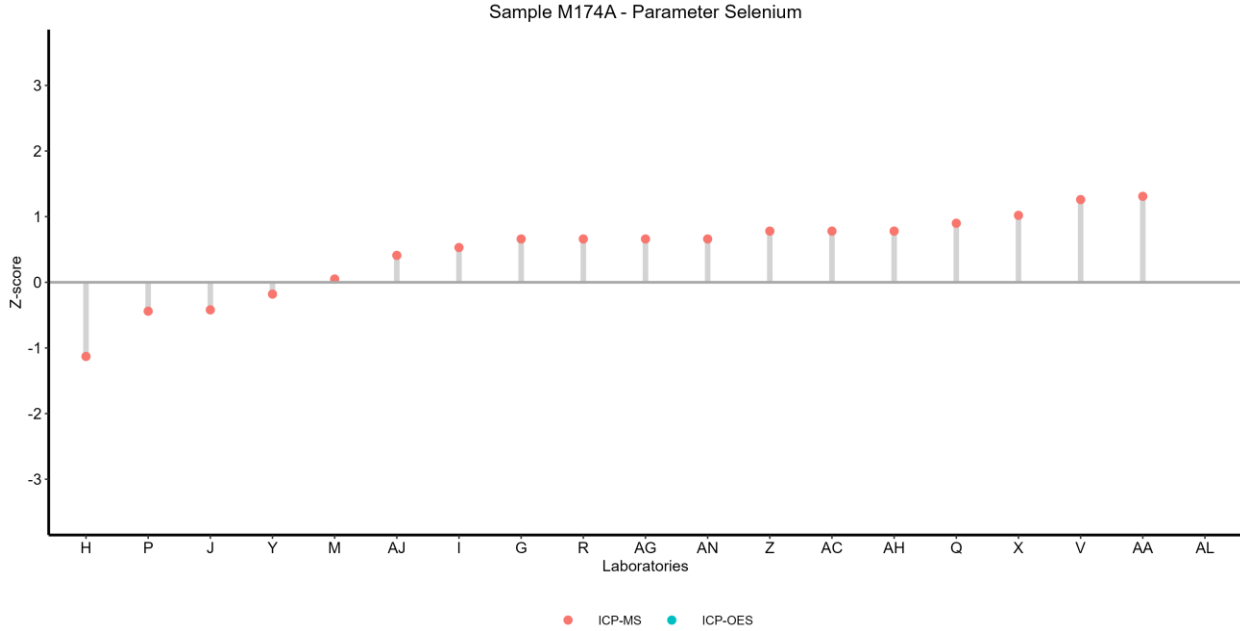
Molybdenum



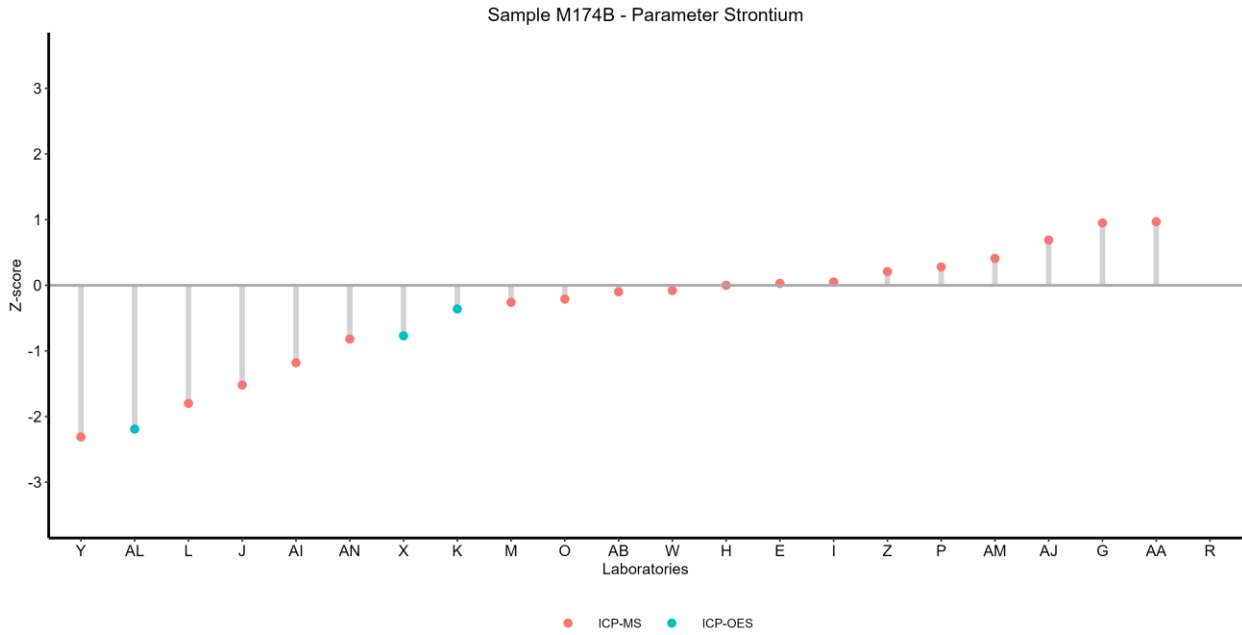
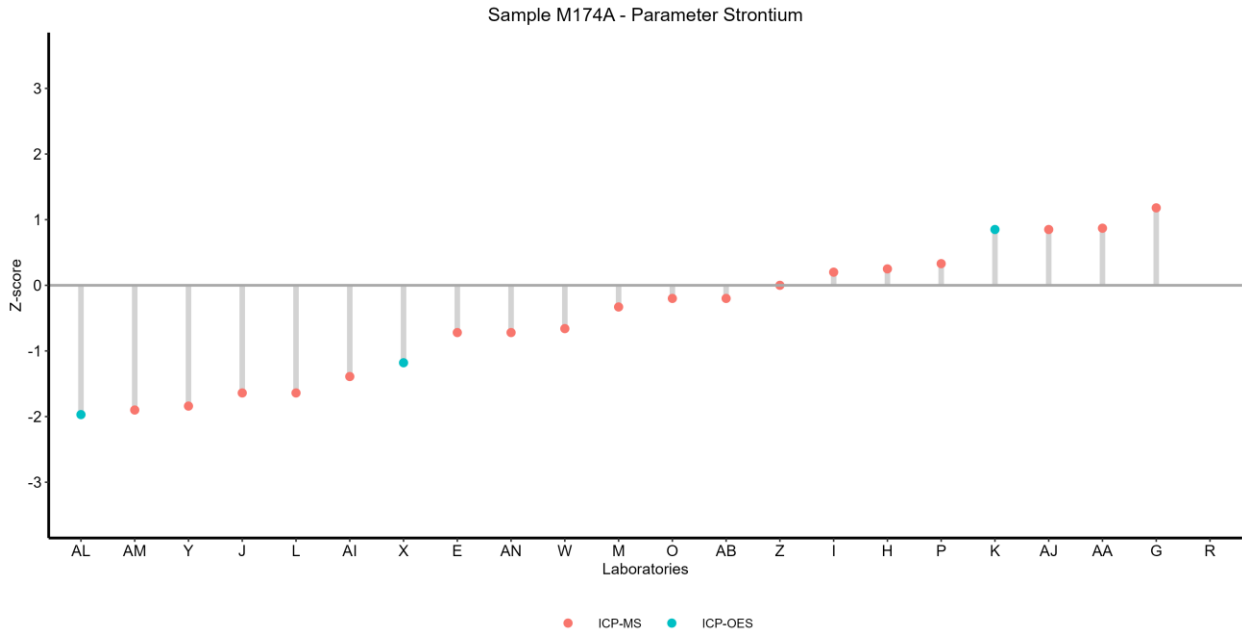
Nickel



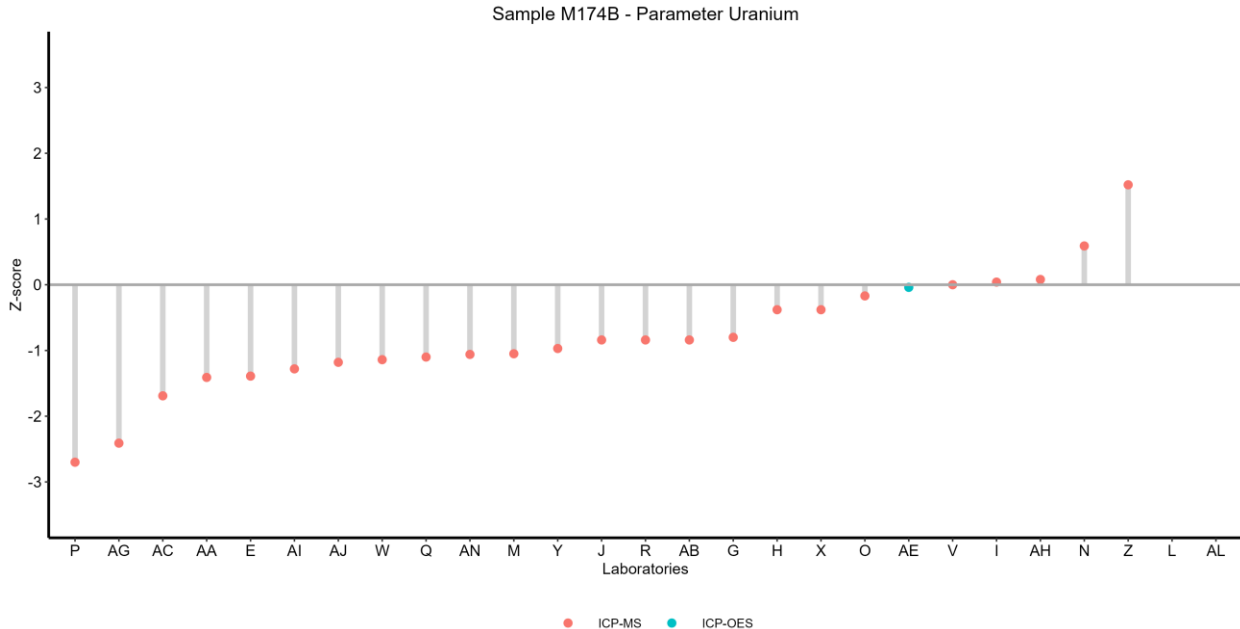
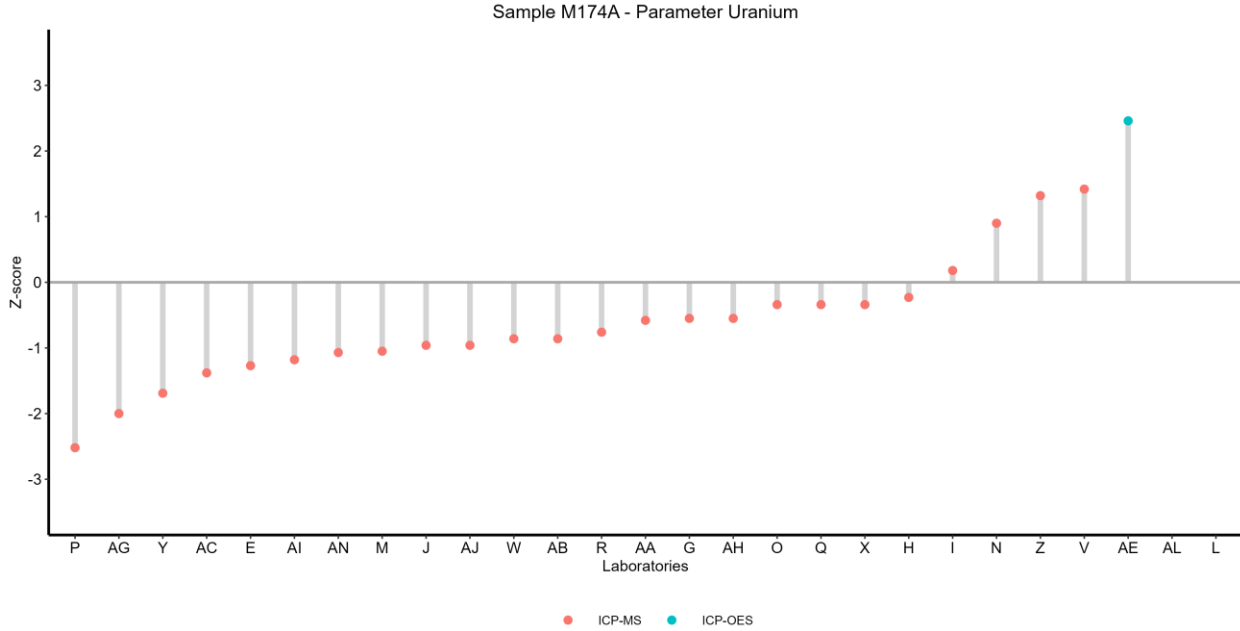
Selenium



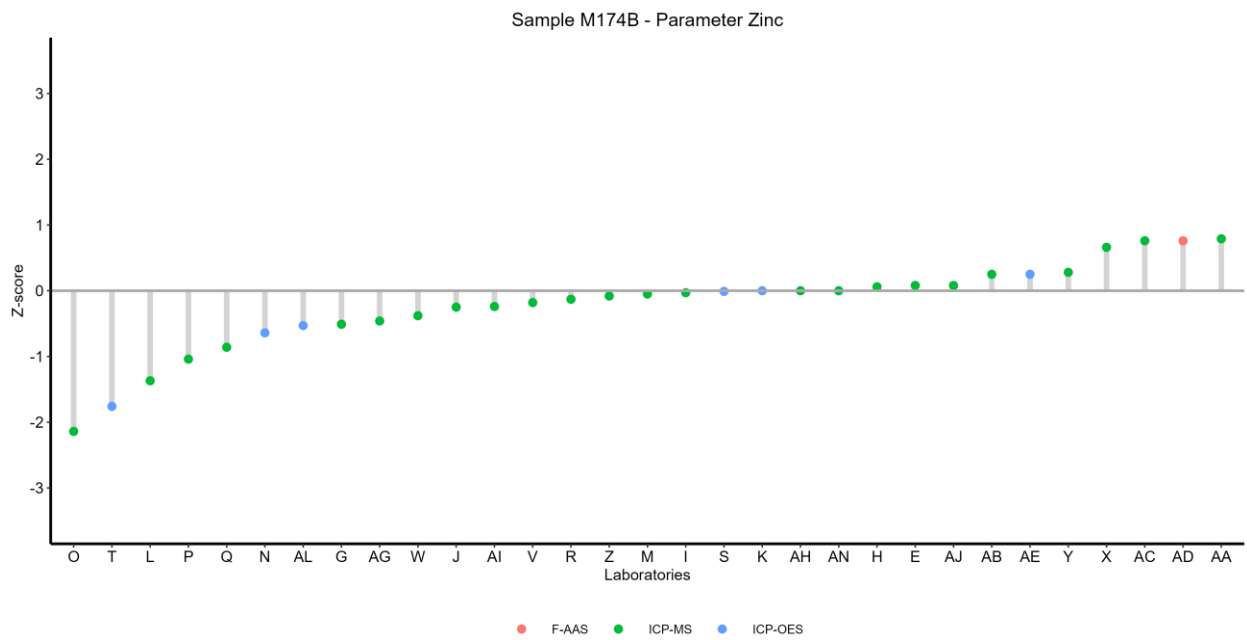
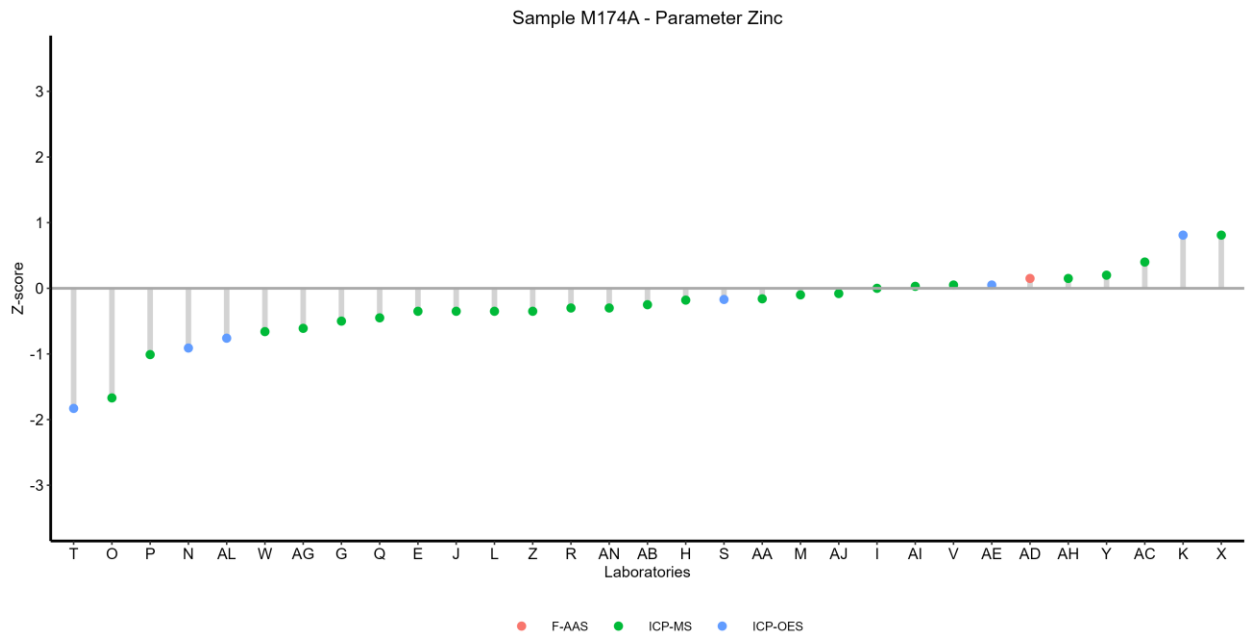
Strontium



Uranium



Zinc



Tin

