

Proficiency Testing Scheme für die Wasseranalytik - Realproben M170 Metalle und Spurenelemente

Proficiency Testing Scheme for Water Analysis - natural water samples M170 Metals and trace elements

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Leitung Eignungsprüfungen für den Bereich chemische Analytik / Management for proficiency tests for chemical analysis

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D1. Beschreibung des Ringversuchs

D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 31
- Anzahl der übermittelten Datensätze: 30
- Probenversand: 06.02.2024
- Einsendeschluss der Daten: 05.03.2024

Die Ergebnisabgabe erfolgte auf elektronischem Weg mittels passwortgeschützter Online-Dateneingabe. Beim Abschluss der Dateneingabe bestätigten die Teilnehmenden die vollständige und korrekte Eingabe aller Daten und die Freigabe der Ergebnisse zur Auswertung.

Zur Anonymisierung der Ergebnisse wurde jedem Labor willkürlich ein Laborcode zugeteilt.

D1.2. Beschreibung der Prüfgegenstände

Die Probenahme von Grundwasser und Oberflächenwasser erfolgte am 01.02.2024. Das Probenmaterial umfasste:

- 1 Probe Grundwasser (M170 A)
- 1 Probe Oberflächenwasser (M170 B)

Alle Proben wurden über 0,45 µm Membranfilter filtriert und anschließend bis zur weiteren Verarbeitung gekühlt gelagert (4 +/- 3°C). Die o.a. Proben wurden zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die Proben wurden mit 1 % HNO₃ bzw. 1 % HCl (nur Abfüllung für Parameter Hg) stabilisiert.

Die homogenen Prüfgegenstände wurden am 06.02.2024 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je ca. 350 ml, abgefüllt in je 1 x 250 ml LDPE-Flasche und 1 x 100 ml LDPE-Flasche (für Hg).

D1.3. Anweisungen für die Teilnehmenden

Aus Stabilitätsgründen wurde empfohlen bis spätestens 14.02.2024 mit den Analysen zu beginnen.

Den Teilnehmenden stand die Wahl der Analysenmethode bzw. der verwendeten Norm frei, welche mit ihrem Routineverfahren übereinstimmen sollte. Eine Übersicht der angewendeten Methoden findet sich unter E9.

D1.4. Kontrollanalytik zur Bewertung der Homogenität

Im Zuge der Abfüllung wurden zu willkürlichen Zeitpunkten mehrere Aliquote pro Probe zur Kontrollanalytik entnommen.

Es wurden für die A- bzw. B-Probe jeweils n=5 Kontrollproben sowie n=1 undotierte Realprobe dem Labor zur Analyse übergeben.

Alle Parameter wurden in der Prüfstelle am Umweltbundesamt (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik) zeitnah zum Probenversand analysiert.

Im Zuge der Auswertung wurde die relative Standardabweichung zwischen den Kontrollprobenabfüllungen bewertet und mit der Vergleichsstandardabweichung beim aktuellen Ringversuch verglichen.

Die Ergebnisse der Kontrollanalytik sind in der parameterorientierten Auswertung (E7) in Form von Mittelwerten \pm Messunsicherheit als Kontrollwert (control test value) \pm U gelistet (jeweils angegeben als erweiterte Messunsicherheit, k=2).

D1.5. Trendtest zur Bewertung der Stabilität

Die Bewertung der Stabilität der Prüfgegenstände (Realproben) erfolgte auf Basis der Datenstatistik aus den vergangenen Runden für Realproben im Zeitraum 2013 bis 2023.

Um die ausreichende Stabilität der Prüfgegenstände der aktuellen Eignungsprüfungsrunde bis zum Abgabetermin zu überprüfen, wurde die Darstellung der Ergebnisse der Teilnehmenden nach Analysendatum ausgewertet und auf systematische Trends geprüft (unauffällig). Durch Darstellung der Ergebnisse der Teilnehmenden nach Abfüllreihenfolge wurde auf das Vorliegen möglicher systematischer Trends der Ergebnisse geprüft (unauffällig).

Aufgrund der bisherigen Erfahrungen und aufgrund der Bewertungsgrundlagen der aktuellen Eignungsprüfungsrunde gilt die Stabilität der Prüfgegenstände im empfohlenen Zeitraum für die Analyse bis zum Abgabeschluss als gewährleistet.

D1.6. Ermittlung des zugewiesenen Wertes

Die Ergebnisse der Analysen mussten spätestens bis zum 05.03.2024 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

Im Zuge der Plausibilitätsprüfung der Daten (z.B. Check korrekte Einheiten, Messunsicherheitsangabe, ...) wurden die Teilnehmenden mit auffälligen Ergebnissen zum erneuten Datencheck der Eingabe und um Rückmeldung binnen 24 h aufgefordert.

Nach Abschluss der Plausibilitätsprüfung, wurde der Ausreißertest nach Hampel durchgeführt und die Ausreißer ermittelt. Die von diesem Test auffällig eingestuft Werte wurden in der Auswertung gekennzeichnet („H“). In begründeten Fällen, z. B. wenn der Ausreißertest nach Hampel nicht anwendbar ist (z. B. Ergebnisse liegen sehr eng beieinander oder überwiegend selber Zahlenwert bzw. bei wenig abgegebenen Daten mit sehr hoher Streuung), kann eine Ausreißereliminierung nach weiteren Kriterien erfolgen (z.B. Dean- und Dixon Test bzw. manuelle Ausreißerdefinition aufgrund Expertenbefund). Diese Vorgangsweise wird nach Anwendung unter Punkt D4 des Berichts dokumentiert.

Die weitere Auswertung erfolgte gemäß ISO 5725-2. Eine statistische Auswertung der Ringversuchsdaten erfolgte erst ab zumindest 6 gültigen, numerischen Ergebnissen pro Parameter. Ergebnisse kleiner Bestimmungs- oder Nachweisgrenze wurden bei den Berechnungen nicht berücksichtigt.

Der zugewiesene Wert wird im Normalfall jeweils als der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse gebildet.

Bei sehr hohen Streuungen der Ergebnisse der Teilnehmenden von über 50 % oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmenden auf den Mittelwert des Kontrolllabores bzw. einer zu geringen Anzahl an ausreißerbereinigten Ergebnissen über die Gruppe der akkreditierten Labore, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der Ergebnisse der Teilnehmenden für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmenden kann ein Vergleich mit den Ergebnissen des Kontrolllabors durchgeführt werden. Diese Vorgehensweise wird bei Anwendung jeweils parameter- und probenbezogen unter Punkt D4 des Berichts dokumentiert.

D2. Kriterien der Leistungsbewertung

D2.1. Leistungskriterium z-Score

Als Basis zur Berechnung der Wiederfindungsraten sowie der z-Scores wurde der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse herangezogen.

Die Ermittlung der z-Scores erfolgte gemäß nachfolgender Formel:

$$z - score = \frac{x_i - \bar{X}}{Kriterium}$$

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
<i>Kriterium</i>	Vergleichsstandardabweichung berechnet aus den Statistiken für reale Wasserproben der vorangegangenen Runden im Zeitraum 2013 bis 2023 (RSDpooled). In begründeten Fällen (z.B. Ergebnisse Realproben nahe an Mindestbestimmungsgrenze oder regulatorischer Vorgaben) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

D2.2. Leistungskriterium E_n-Score

Für die realen Wasserproben erfolgen seit 2019 zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmenden und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E_n-Score. Diese Auswertungen werden für die Teilnehmenden im Bericht unter Punkt E8, jeweils im Anschluss an die z-Score Auswertung dargestellt.

Die Ermittlung der E_n-Scores erfolgte gemäß nachfolgender Formel:

$$E_n - score = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
$U(x_i)$	erweiterte Messunsicherheit des Messergebnisses (Ergebnisse der Teilnehmenden), $k=2$
$U(\bar{X})$	erweiterte Messunsicherheit des zugewiesenen Wertes, $k=2$

D2.3. Leistungsbewertung z-Score und E_n -Score

Interpretation der z-Scores:

- $|z\text{-Score}| \leq 2.0$ Ergebnis gut
- $2.0 < |z\text{-Score}| < 3.0$ Ergebnis fragwürdig
- $|z\text{-Score}| \geq 3.0$ Ergebnis nicht zufriedenstellend

Hinweis: Bei der Bewertung mittels z-Score wird die Messunsicherheit der Teilnehmenden nicht mitberücksichtigt. Der Vergleich der Abweichung zum zugewiesenen Wert erfolgt über das Kriterium.

Interpretation der E_n -Scores:

- $|E_n\text{-Score}| \leq 1.0$ zufriedenstellende Leistung
- $|E_n\text{-Score}| > 1.0$ nicht zufriedenstellende Leistung

Hinweis: Bei der Bewertung mittels E_n -Score erfolgt die Berücksichtigung der erweiterten Messunsicherheiten der Teilnehmenden und des zugewiesenen Wertes. $|E_n\text{-Score}| > 1.0$ können darauf hinweisen, dass die Unsicherheitsschätzungen überprüft oder ein Messproblem korrigiert werden muss.

D3. Darstellung und Interpretation der Messergebnisse

In der parameterorientierten Auswertung ist eine tabellarische Übersicht mit den Messergebnissen inklusive der Unsicherheit ($\pm U$), der Wiederfindung zum zugewiesenen Wert und dem berechneten z-Score dargestellt. Weiterhin werden unter Anmerkungen die Ausreißer gekennzeichnet. Die in der Tabelle angeführten Ergebnisse werden auch grafisch dargestellt.

In der labororientierten Auswertung werden pro Labor in anonymisierter Form die Ergebnisse der einzelnen Labore als Messergebnis $\pm U$ sowie die Wiederfindungen und die ermittelten z-Scores bezugnehmend auf das Kriterium dargestellt. Weiters werden die E_n -Scores unter Berücksichtigung der erweiterten Unsicherheiten in

unabhängigen Tabellen ausgegeben. Die labororientierten Auswertungen enthalten jeweils die Bewertungsgrundlagen wie zugewiesener Wert samt erweiterter Messunsicherheit sowie das Kriterium.

Eine Erläuterung zu den Tabellen und Grafiken kann Punkt D5 entnommen werden.

D4. Anmerkungen zur Auswertung

Wie unter Punkt D2 ersichtlich, können die z-Scores auch unter Einbeziehung der Vergleichsstandardabweichung der ausreißerbereinigten Ergebnisse der Teilnehmenden des aktuellen Ringversuchs berechnet werden. Das kann zur Folge haben, dass es bei Parametern mit hoher Ergebnisstreuung dazu kommen kann, dass der Bereich z-Score -2 bis z-Score +2 einen ungewöhnlich hohen Wiederfindungsbereich abdeckt. Umgekehrt führt eine sehr geringe Streuung der Ergebnisse der Teilnehmenden dazu, dass z-Score -2 bis z-Score +2 einen ungewöhnlich kleinen Wiederfindungsbereich abdeckt.

Die Wiederfindungsrate wird unabhängig von der Streuung der Ergebnisse, als prozentuelle Abweichung vom zugewiesenen Wert berechnet und sollte bei der Bewertung von Ergebnissen im Rahmen des internen Qualitätsmanagementsystems der teilnehmenden Labore berücksichtigt werden.

Als Ergebnis einer Langzeitauswertung über aktuell 11 Eignungsprüfungsrunden (2013–2023) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Nickel bei Probe M170 A:

Der auf Basis der Ergebnisse der Teilnehmenden berechneten Sollwert lag außerhalb der Messunsicherheit des Kontrollwertes und es ist über das Kontrolllabor keine Rückführbarkeit möglich. Der zugewiesene Wert wurde daher über die ausreißerbereinigten Mittelwerte aus der Gruppe der akkreditierten Teilnehmenden berechnet.

Bei allen anderen Parametern erfolgt die Berechnung der Scores nach D2.

D5. Erläuterung zu Tabellen und Grafiken

D5.1. Angaben und Abkürzungen in Tabellen

Parameter	Allgemeine Bezeichnung des Analysenparameters
Probe	Bezeichnung der übermittelten Probe
Einheit	Vorgegebene Einheit für Messwert und Ergebnisunsicherheit (z.B. µg/l)
Zugewiesener Wert	Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen)
U (k=2)	erweiterte Unsicherheit (k=2) des zugewiesenen Wertes, (angegeben auf 3 signifikante Stellen)
Kriterium	Vorgabewert zur Ermittlung des z-Scores in der angegebenen Einheit (angegeben auf 3 signifikante Stellen)
Kriterium [%]	Vorgabewert zur Ermittlung des z-Scores in % des zugewiesenen Wertes (angegeben auf 2 signifikante Stellen)
Mittelwert	Ausreißerbereinigter Mittelwert über die Ergebnisse der Teilnehmenden (angegeben auf 3 signifikante Stellen)
VB (99%)	99 % Vertrauensbereich (angegeben auf 3 signifikante Stellen)
Minimum	Minimales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
Maximum	Maximales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
sR	Vergleichsstandardabweichung, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
vR	relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen)
Kontrollwert ± U (k=2)	Mittelwert der Kontrollmessungen des Veranstalters ± erweiterte Ergebnisunsicherheit des Kontrollwertes (jeweils angegeben auf 3 signifikante Stellen)
Laborcode	anonymisierte, eindeutige Kennung des teilnehmenden Labors im jeweiligen Ringversuch
Messwert	einzelne(r) Messwert(e) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
Messergebnis	Für die Bewertung herangezogenes Ergebnis lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt).

	Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmenden.
± U	kombinierte Messunsicherheit ohne Erweiterungsfaktor (k=1) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
BG	Bestimmungsgrenze
NG	Nachweisgrenze
WF	Wiederfindungsrate in %, bezogen auf den zugewiesenen Wert (angegeben auf 3 signifikante Stellen, dargestellt maximal 1 Nachkommastelle)
MW	Mittelwert
z-Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches des Kriteriums (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen)
E _n -Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches der kombinierten Messunsicherheiten, bestehend aus erweiterter Unsicherheit des zugewiesenen Wertes und der erweiterten Unsicherheit der Messergebnisse der Teilnehmenden (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen). Beim E _n -Score erfolgt die Berücksichtigung der Messunsicherheit der Teilnehmenden.
-	Keine Daten übermittelt bzw. keine Berechnung möglich
Anmerkungen	Anmerkungen zum jeweiligen Messergebnis (z.B. H, FN, FP)
H	Ausreißer nach dem Hampel-Test
FN	Falsch negativ – Messergebnis kleiner Bestimmungsgrenze dessen Betrag die Bedingungen eines Ausreißers nach dem Hampeltest erfüllt.
FP	Falsch positiv – Falls aufgrund des geringen Analytgehalts kein zugewiesener Wert ermittelt werden kann (n < 6), wird der Median der Beträge der übermittelten Nachweis- bzw. Bestimmungsgrenzen ermittelt. Als falsch positiv wird ein Messergebnis bewertet, welches diesen Median um mehr als 100 % übersteigt.
Standardabweichung	Vergleichsstandardabweichung berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)

rel. Standardabweichung relative Vergleichsstandardabweichung in %, berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)

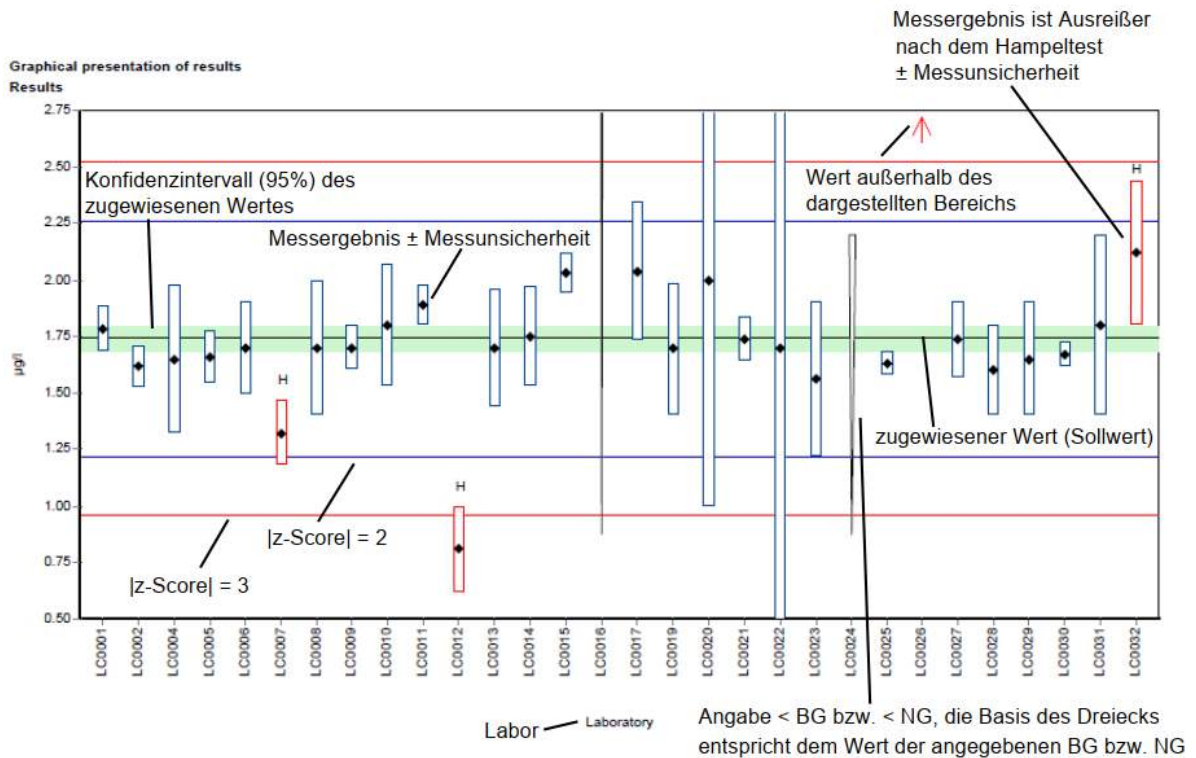
n Anzahl der Messergebnisse

* Kennzeichnung für Hinweise zur Erläuterung

D5.2. Graphische Darstellung der Ergebnisse

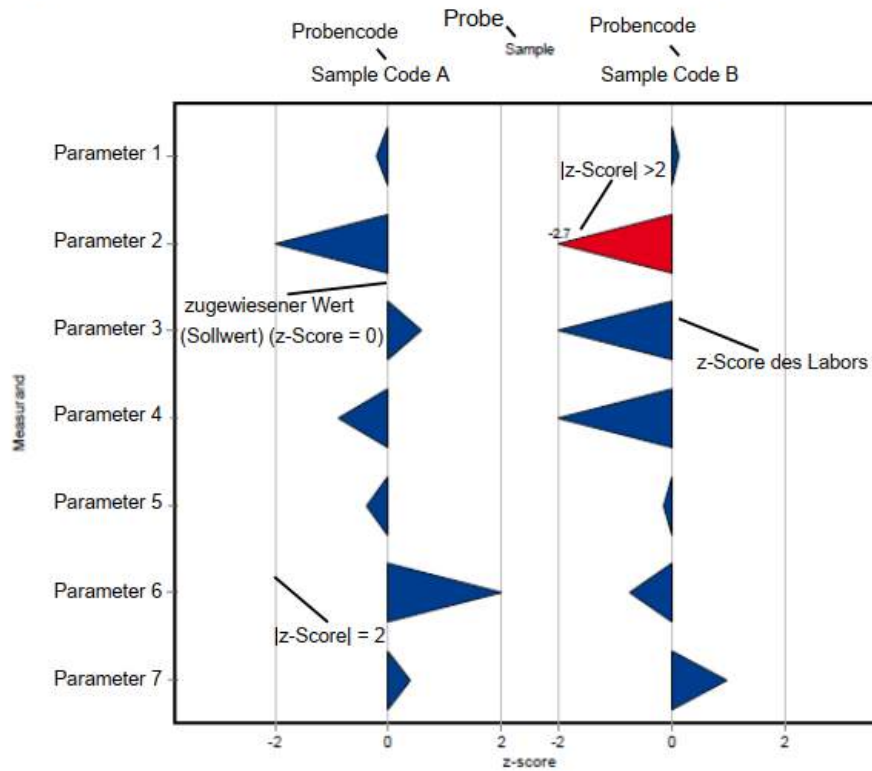
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

Beispieldiagramm: Messwerte

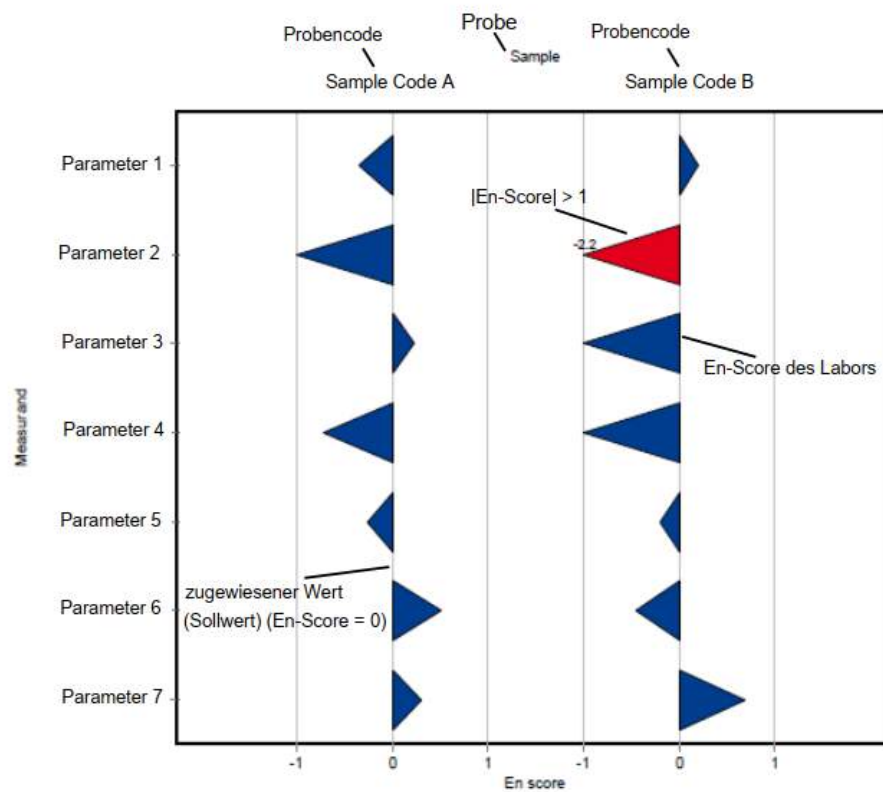


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score (labororientierte Auswertung)



Beispieldiagramm: En-Score (labororientierte Auswertung)



D6. Zusammenfassung

D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener Wert	±	U (k=2)	Kriterium	Kriterium [%]
Aluminium	M170 A	µg/l	13.4	±	0.546	1.34	10
	M170 B	µg/l	63.3	±	1.06	6.33	10
Arsen	M170 A	µg/l	1.28	±	0.0432	0.166	13
	M170 B	µg/l	5.14	±	0.0899	0.668	13
Cadmium	M170 A	µg/l	0.423	±	0.0105	0.0423	10
	M170 B	µg/l	2.76	±	0.0512	0.276	10
Chrom	M170 A	µg/l	1.97	±	0.0625	0.168	8.5
	M170 B	µg/l	1.89	±	0.0697	0.16	8.5
Kupfer	M170 A	µg/l	9.74	±	0.205	0.876	9
	M170 B	µg/l	14.8	±	0.283	1.34	9
Eisen	M170 A	µg/l	27.1	±	1.21	2.98	11
	M170 B	µg/l	99.3	±	2.38	10.9	11
Blei	M170 A	µg/l	1.22	±	0.0465	0.183	15
	M170 B	µg/l	3.92	±	0.0984	0.588	15
Mangan	M170 A	µg/l	17.3	±	0.596	1.24	7.2
	M170 B	µg/l	21.5	±	0.422	1.55	7.2
Quecksilber	M170 A Hg	µg/l	0.25	±	0.00994	0.0351	14
	M170 B Hg	µg/l	0.792	±	0.0251	0.111	14
Nickel	M170 A	µg/l	2.17	±	0.0698	0.26	12
	M170 B	µg/l	16.7	±	0.345	2.01	12
Selen	M170 A	µg/l	4.24	±	0.17	0.509	12
	M170 B	µg/l	4.46	±	0.123	0.535	12
Uran	M170 A	µg/l	1.18	±	0.0201	0.0777	6.6
	M170 B	µg/l	1.83	±	0.0526	0.121	6.6
Zink	M170 A	µg/l	394	±	13	35.4	9
	M170 B	µg/l	99.4	±	2.59	8.94	9

D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M170 A	24	2	µg/l	13.4	± 0.819	11.7	16.6	1.34	10
	M170 B	24	4	µg/l	63.3	± 1.59	58.9	68	2.59	4.1
Arsen	M170 A	22	2	µg/l	1.28	± 0.0648	1.12	1.5	0.101	7.9
	M170 B	26	1	µg/l	5.14	± 0.135	4.63	5.64	0.229	4.5
Cadmium	M170 A	26	1	µg/l	0.423	± 0.0157	0.36	0.46	0.0267	6.3
	M170 B	26	1	µg/l	2.76	± 0.0768	2.53	3.05	0.131	4.7
Chrom	M170 A	25	2	µg/l	1.97	± 0.0937	1.59	2.33	0.156	7.9
	M170 B	26	1	µg/l	1.89	± 0.104	1.45	2.21	0.178	9.4
Kupfer	M170 A	29	1	µg/l	9.74	± 0.308	8.34	10.6	0.553	5.7
	M170 B	29	1	µg/l	14.8	± 0.424	13	16.2	0.761	5.1
Eisen	M170 A	27	2	µg/l	27.1	± 1.82	20.7	33.1	3.15	12
	M170 B	28	1	µg/l	99.3	± 3.57	89.8	113	6.3	6.3
Blei	M170 A	23	3	µg/l	1.22	± 0.0698	0.998	1.49	0.112	9.1
	M170 B	25	2	µg/l	3.92	± 0.148	3.4	4.56	0.246	6.3
Mangan	M170 A	27	2	µg/l	17.3	± 0.894	14.9	21	1.55	9
	M170 B	26	3	µg/l	21.5	± 0.633	19.7	24	1.08	5
Quecksilber	M170 A Hg	22	2	µg/l	0.25	± 0.0149	0.2	0.29	0.0233	9.3
	M170 B Hg	23	2	µg/l	0.792	± 0.0376	0.67	0.893	0.0602	7.6
Nickel	M170 A	24	3	µg/l	2.18	± 0.097	1.84	2.47	0.158	7.3
	M170 B	27	1	µg/l	16.7	± 0.517	15	18.6	0.896	5.4
Selen	M170 A	21	3	µg/l	4.24	± 0.255	3.51	5.19	0.389	9.2
	M170 B	21	3	µg/l	4.46	± 0.185	4.01	5.2	0.282	6.3
Uran	M170 A	17	5	µg/l	1.18	± 0.0302	1.09	1.23	0.0415	3.5
	M170 B	21	1	µg/l	1.83	± 0.0789	1.58	2.14	0.121	6.6
Zink	M170 A	27	2	µg/l	394	± 19.5	329	450	33.8	8.6
	M170 B	28	1	µg/l	99.4	± 3.89	86.5	111	6.86	6.9

E1. Description of the proficiency test

E1.1. Design and implementation

- Number of registrations: 31
- Number of submitted data records: 30
- Dispatch of samples: February 06th, 2024
- Closing date for submission of data: March 05th, 2024

The results were submitted electronically by a password-protected online data entry. Upon completion of the data entry, the participant confirmed the complete and correct entry of all data and the authorization of the results for evaluation.

To anonymize results, each laboratory was given a laboratory code on a random basis.

E1.2. Description of the proficiency test items

The sampling of ground water and surface water were both carried out on 01st of February 2024.

The following samples were made available

- 1 sample ground water (M170 A)
- 1 sample surface water (M170 B)

Both samples were filtered using 0.45 µm membrane disc filters and stored at 4 +/- 3 °C until further processing. The samples were partly spiked with specific substances.

The samples were filled into bottles under continuous stirring (stirring vessel) and stabilized by addition of 1 % HNO₃ and 1 % HCl (for Hg only), respectively.

The homogeneous proficiency test items were dispatched on February 06th, 2024.

Each participant received:

- 2 samples each 350 ml, filled in 1 x 250 ml LDPE bottle and 1 x 100 ml LDPE bottle (for Hg) respectively.

E1.3. Instructions for the participants

For reasons of stability, it was recommended to start the analysis by the 14th of February 2024 at the latest.

The participants were expected to use the test method or measurement method of their choice, which should be consistent with their routine procedures. In E9 you will find the overview of applied methods in course of the proficiency testing.

E1.4. Control testing for homogeneity evaluation

During filling of the bottles, aliquots of each sample were collected randomly for control testing. From each of the samples A and B, n=5 control test samples and n=1 unspiked real water sample were transferred to the laboratory for control testing.

All parameters were tested in the testing laboratory at Environment Agency Austria (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik) close to the time of sample dispatch.

During evaluation the relative standard deviation between the individual results of the control test samples was assessed for each parameter by comparison with the reproducibility standard deviation of the actual proficiency test.

In the parameter-oriented evaluation (E7), the results of the control testing are given in the form of arithmetic means of the detected concentrations \pm expanded measurement uncertainty as control test value \pm U (expanded uncertainty, k=2).

E1.5. Trend test for stability evaluation

The evaluation of stability of the proficiency test items was performed using the data statistics of the results of previous proficiency testing rounds for real water samples of the period from 2013 to 2023.

The assessment of the stability of the proficiency test items of the current round was carried out by evaluation of all participant results sorted by analysis date (until submission deadline): No systematic trends were identified.

Using all participants results, it was furthermore tested if systematic trends could be detected depending on the order in which the bottles were filled for the proficiency test: No systematic trends could be identified.

According to data obtained from previous rounds and based on the trend test evaluation of the current round, the stability of the test items for proficiency testing of real water samples can be confirmed for the recommended analysis period until deadline for submission of data.

E1.6. Determination of the assigned values

The analytical results had to be made available to the organiser not later than 05th of March 2024. Any values received at a later date were not considered.

In the course of the plausibility assessment of all received data (e.g. check for correct units, indication of measurement uncertainty, ...) the participants with noticeable results were asked to perform a subsequent data check and to give a prompt feedback within 24 h.

After plausibility assessment an outlier test according to Hampel was performed to identify outliers. Values identified as conspicuous are marked specifically in the parameter-oriented evaluation ('H').

In justified cases, for instance, when the outlier test according to Hampel is not applicable (e.g. many similar or identical results of the participants or in case of a very limited number of highly scattering results) a different outlier identification method can be applied (e.g. Dean and Dixon outlier test or manual outlier elimination by expert judgement). In such a case, this procedure is documented in section E4 of the report.

Further data evaluation was performed in accordance with ISO 5725-2. A statistical evaluation of proficiency testing data was only carried out if at least 6 valid results per parameter were available. Results < LOQ or < LOD are not included in the calculation for the assigned value.

The assigned values are normally calculated as the mean over all submitted results, after removal of outliers.

For real water samples in some exceptional cases it might occur, that no assigned value based on participants' results can be calculated and no evaluation of the participants results can be made. E.g due to large variations in the participant results ($vR > 50\%$) and/or insufficient traceability of the calculated mean of all participants after outlier-clearing to the mean of control testing or if the number of results (without outliers) of the group of accredited testing laboratories is too low.

In this case, a clear statement in section E7 of the report is made and all provided statistical data are for information only. In section E4 further information is given, when applicable, for each parameter and proficiency test item. In course of the internal quality measures, the participants can compare their results with the control test values.

E2. Criteria of performance evaluation

E2.1. Performance criterion z-Score

The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates and z-scores.

z-Scores were calculated on the basis of the following formula:

$$z - score = \frac{x_i - \bar{X}}{Criteria}$$

In this context,

x_i	is the measurement value (result) of the participating laboratory;
\bar{X}	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
Criteria	is the reproducibility standard deviation calculated from previous rounds for proficiency testing for real water samples from 2013 to 2023 (as RSD pooled). Where justified (e.g. results for real water samples are close to minimum quantification limit or in case of regulatory requirements) the criteria is defined by expert judgement and the procedure is clearly described in section E4 of the report.

E2.2. Performance criterion E_n-Score

Since 2019 additional assessment of the participants' results using E_n-Scores for proficiency testing of real water samples is performed. This additional assessment takes into account the expanded measurement uncertainties of the participants results and the expanded uncertainty of the assigned value and is provided in the laboratory oriented part of the report (see E8 after the z-scores evaluation).

E_n-Scores were calculated on the basis of the following formula:

$$E_n - score = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

In this context,

x_i	is the measurement value (result) of the participating laboratory
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\bar{X}	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
$U(x_i)$	expanded measurement uncertainty for the result of the participating laboratory, $k=2$
$U(\bar{X})$	expanded measurement uncertainty for the assigned value, $k=2$

E2.3. Performance evaluation z-Score and E_n-Score

Interpretation of z-Scores:

- $|z\text{-Score}| \leq 2.0$ good result
- $2.0 < |z\text{-Score}| < 3.0$ questionable result
- $|z\text{-Score}| \geq 3.0$ unsatisfactory result

Note: In case of assessment of the participants' performance by z-scores the measurement uncertainty of the participants' results is not taken into account. The difference between result of participants and the assigned value is evaluated by the criteria.

Interpretation of E_n-Scores:

- $|E_n\text{-Score}| \leq 1.0$ satisfactory performance
- $|E_n\text{-Score}| > 1.0$ unsatisfactory performance

Note: In case of assessment of the participants' performance by E_n-Scores the expanded measurement uncertainties for the results and for the assigned values are taken into account. $|E_n\text{-Score}| > 1.0$ might indicate to check the measurement uncertainty estimation or might point out to correct a measurement problem.

E3. Representation and interpretation of measurement results

The parameter-oriented report provides the measurement values (results) including uncertainty ($\pm U$), recovery rate, calculated z-Score and the outliers in tabular form. The results listed in the table are also represented graphically.

The laboratory oriented report shows the results of the individual laboratories (anonymous), including the measurement uncertainty ($\pm U$), recovery rates, z-Scores and additionally evaluation of E_n-Scores on separate pages.

The tables also contain the basis for the data assessment as the assigned values and expanded measurement uncertainties and the criteria.

An annotation of the tables and graphics is given in section E5.

E4. Explanatory notes

As explained in section E2, the z-Score can also be calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. It might occur that the z-Score between -2 and 2 covers a large range of measurement values when the variance of the results is high. On the other hand, the range of good results can be very narrow, when the variation of the participants' results is small.

The recovery rate is calculated for the individual result based on the assigned value and is thus independent of the reproducibility standard deviation. In the case of a high variance of the results, participants should also consider recovery rates as additional criteria to decide on the necessity of internal quality assurance measures.

As a result of a long-term evaluation of 11 proficiency testing rounds (2013–2023) of real samples, evaluation criteria (RSD_{pool}) were calculated.

These criteria were compared with the relative reproducibility standard deviation (vR) of the current proficiency testing.

Parameter Nickel sample M170 A:

The assigned value calculated based on the participant results was outside of the measurement uncertainty of the control test value and thus traceability could not be proven by this procedure. Therefore, a new assigned value was defined by the group of accredited participating laboratories after outlier-assessment.

Scores for all other listed parameters were calculated according to E2.

E5. Annotations on tables and charts

E5.1. Information and abbreviations in tables

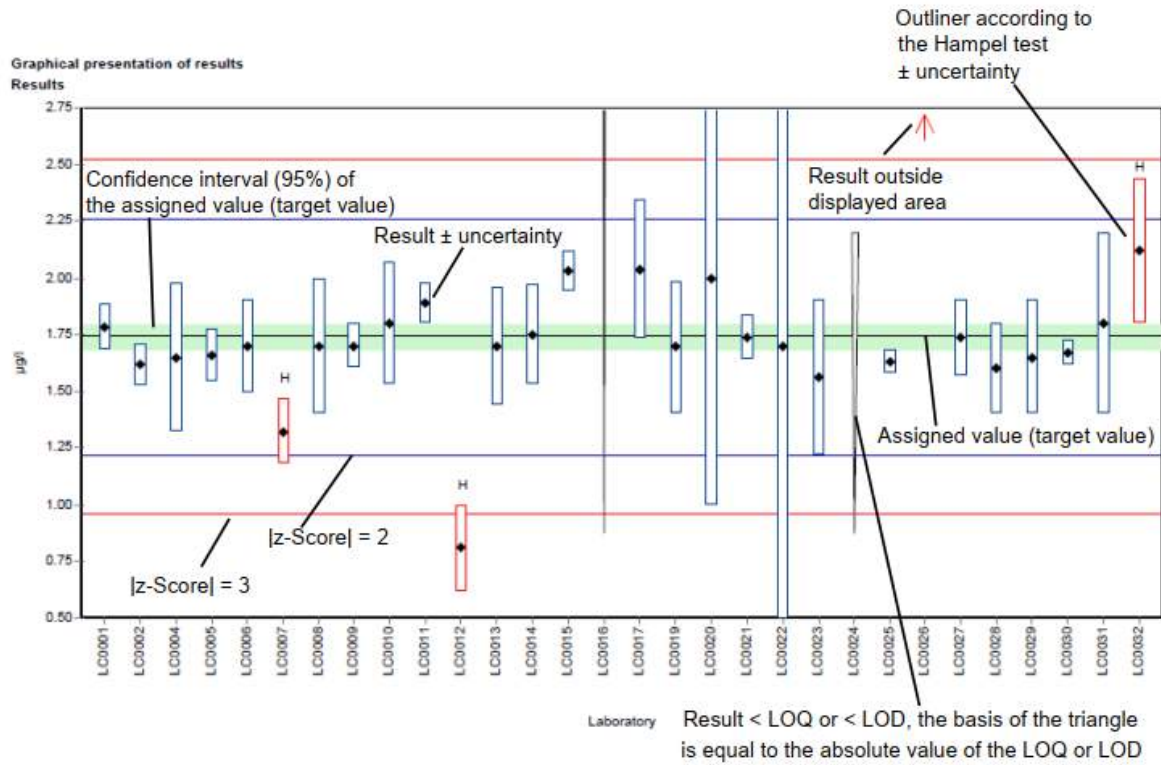
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criteria [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99 % confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Control test value ± U (k=2)	Mean of control test value ± expanded measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result ± U	Result as indicated by participant (max. 5 decimal places) combined measurement uncertainty without expansion factor (k=1), as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on assigned value (target value) (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on the assigned value (target value) given as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
E _n -Score	Deviation of result based on the assigned value (target value) given as a multiple of the combined expanded

	measurement uncertainty of the participant's results and expanded measurement uncertainty for the assigned value (3 significant digits, max. 2 decimal places given).
	Note: E _n -Score assessment takes into account the measurement uncertainty of the participants.
-	No data available or no calculation possible
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test
FN	False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.
FP	False positive – for parameters where no target value is available because of a too low analyte content (n < 6): Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.
Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
*	mark for additional comments

E5.2. Graphical presentation of results

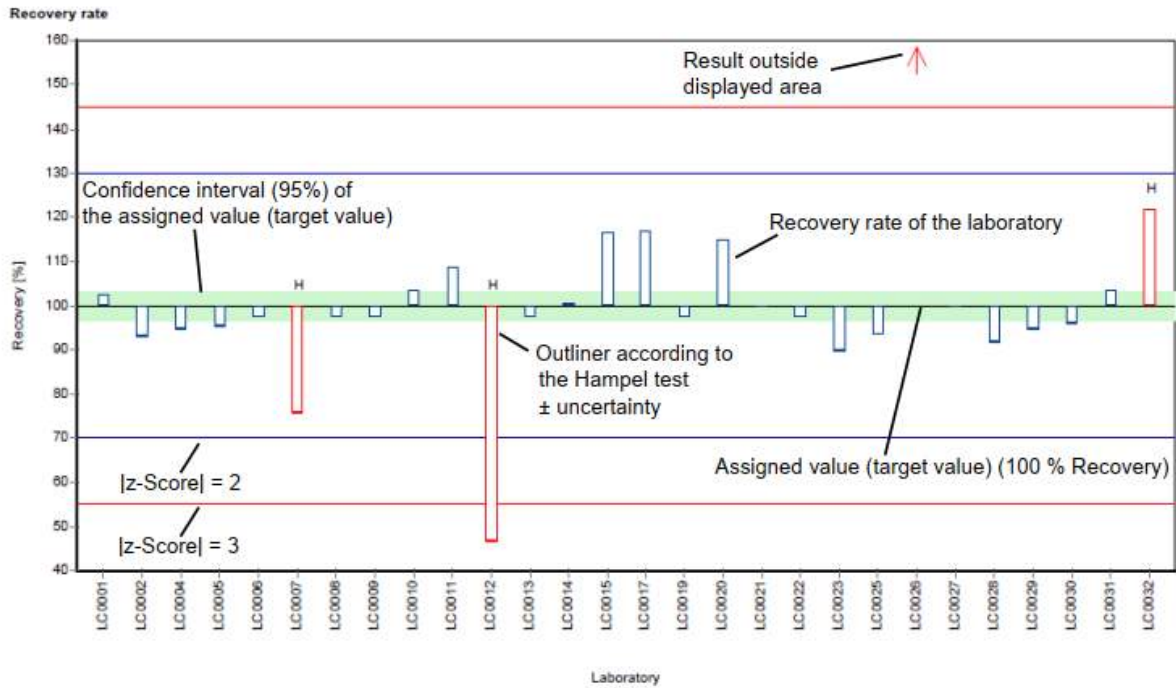
The graphic representation in the report is explained below by means of commented example diagrams:

Example chart: Results



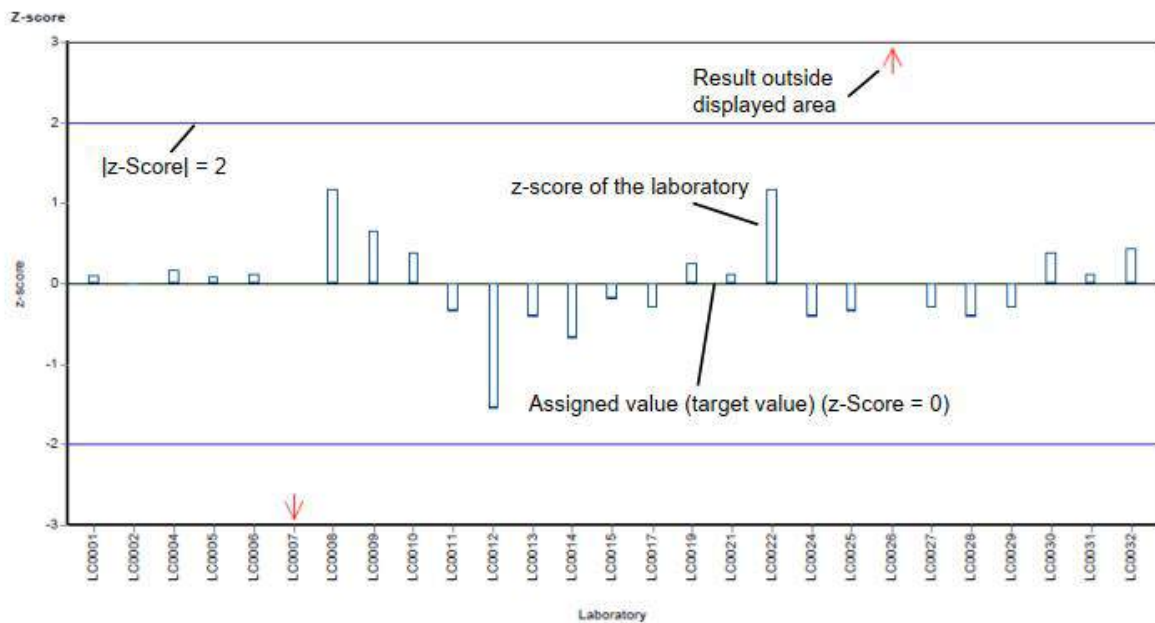
Different analysis methods are represented with different colors.

Example chart: Recovery



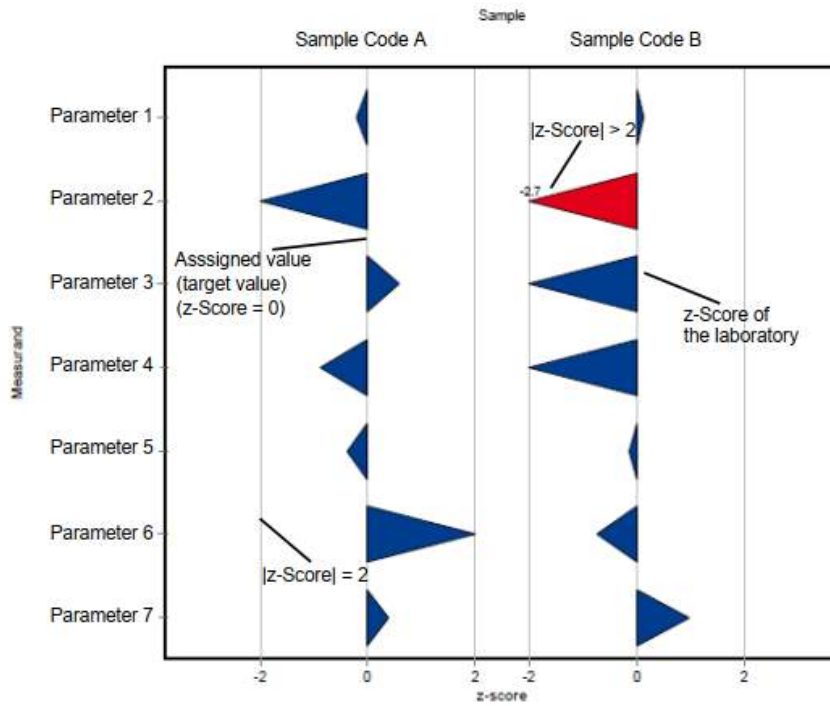
Different analysis methods are represented with different colors.

Example chart: z-Score

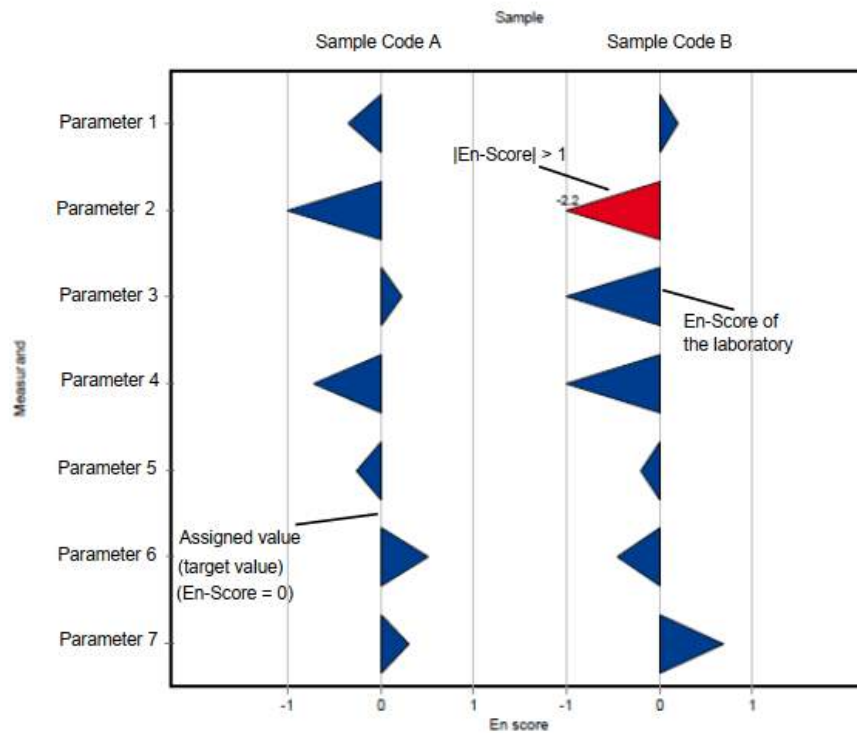


Different analysis methods are represented with different colors.

Example chart: z-Score (laboratory oriented report)



Example chart: En-Score (laboratory oriented report)



E6. Summary

E6.1. Table of assigned values

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Aluminium	M170 A	µg/l	13.4	±	0.546	1.34	10
	M170 B	µg/l	63.3	±	1.06	6.33	10
Arsenic	M170 A	µg/l	1.28	±	0.0432	0.166	13
	M170 B	µg/l	5.14	±	0.0899	0.668	13
Cadmium	M170 A	µg/l	0.423	±	0.0105	0.0423	10
	M170 B	µg/l	2.76	±	0.0512	0.276	10
Chromium	M170 A	µg/l	1.97	±	0.0625	0.168	8.5
	M170 B	µg/l	1.89	±	0.0697	0.16	8.5
Copper	M170 A	µg/l	9.74	±	0.205	0.876	9
	M170 B	µg/l	14.8	±	0.283	1.34	9
Iron	M170 A	µg/l	27.1	±	1.21	2.98	11
	M170 B	µg/l	99.3	±	2.38	10.9	11
Lead	M170 A	µg/l	1.22	±	0.0465	0.183	15
	M170 B	µg/l	3.92	±	0.0984	0.588	15
Manganese	M170 A	µg/l	17.3	±	0.596	1.24	7.2
	M170 B	µg/l	21.5	±	0.422	1.55	7.2
Mercury	M170 A Hg	µg/l	0.25	±	0.00994	0.0351	14
	M170 B Hg	µg/l	0.792	±	0.0251	0.111	14
Nickel	M170 A	µg/l	2.17	±	0.0698	0.26	12
	M170 B	µg/l	16.7	±	0.345	2.01	12
Selenium	M170 A	µg/l	4.24	±	0.17	0.509	12
	M170 B	µg/l	4.46	±	0.123	0.535	12
Uranium	M170 A	µg/l	1.18	±	0.0201	0.0777	6.6
	M170 B	µg/l	1.83	±	0.0526	0.121	6.6
Zinc	M170 A	µg/l	394	±	13	35.4	9
	M170 B	µg/l	99.4	±	2.59	8.94	9

E6.2. Summary of results, after removal of outliers

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	±	CI (99%)	Minimum	Maximum	sR	vR [%]
Aluminium	M170 A	24	2	µg/l	13.4	±	0.819	11.7	16.6	1.34	10
	M170 B	24	4	µg/l	63.3	±	1.59	58.9	68	2.59	4.1
Arsenic	M170 A	22	2	µg/l	1.28	±	0.0648	1.12	1.5	0.101	7.9
	M170 B	26	1	µg/l	5.14	±	0.135	4.63	5.64	0.229	4.5
Cadmium	M170 A	26	1	µg/l	0.423	±	0.0157	0.36	0.46	0.0267	6.3
	M170 B	26	1	µg/l	2.76	±	0.0768	2.53	3.05	0.131	4.7
Chromium	M170 A	25	2	µg/l	1.97	±	0.0937	1.59	2.33	0.156	7.9
	M170 B	26	1	µg/l	1.89	±	0.104	1.45	2.21	0.178	9.4
Copper	M170 A	29	1	µg/l	9.74	±	0.308	8.34	10.6	0.553	5.7
	M170 B	29	1	µg/l	14.8	±	0.424	13	16.2	0.761	5.1
Iron	M170 A	27	2	µg/l	27.1	±	1.82	20.7	33.1	3.15	12
	M170 B	28	1	µg/l	99.3	±	3.57	89.8	113	6.3	6.3
Lead	M170 A	23	3	µg/l	1.22	±	0.0698	0.998	1.49	0.112	9.1
	M170 B	25	2	µg/l	3.92	±	0.148	3.4	4.56	0.246	6.3
Manganese	M170 A	27	2	µg/l	17.3	±	0.894	14.9	21	1.55	9
	M170 B	26	3	µg/l	21.5	±	0.633	19.7	24	1.08	5
Mercury	M170 A Hg	22	2	µg/l	0.25	±	0.0149	0.2	0.29	0.0233	9.3
	M170 B Hg	23	2	µg/l	0.792	±	0.0376	0.67	0.893	0.0602	7.6
Nickel	M170 A	24	3	µg/l	2.18	±	0.097	1.84	2.47	0.158	7.3
	M170 B	27	1	µg/l	16.7	±	0.517	15	18.6	0.896	5.4
Selenium	M170 A	21	3	µg/l	4.24	±	0.255	3.51	5.19	0.389	9.2
	M170 B	21	3	µg/l	4.46	±	0.185	4.01	5.2	0.282	6.3
Uranium	M170 A	17	5	µg/l	1.18	±	0.0302	1.09	1.23	0.0415	3.5
	M170 B	21	1	µg/l	1.83	±	0.0789	1.58	2.14	0.121	6.6
Zinc	M170 A	27	2	µg/l	394	±	19.5	329	450	33.8	8.6
	M170 B	28	1	µg/l	99.4	±	3.89	86.5	111	6.86	6.9

E7. Parameterorientierte Auswertung / Parameter oriented report

Aluminium	32
Arsenic	42
Cadmium.....	52
Chromium.....	62
Copper	72
Iron.....	82
Lead	92
Manganese	102
Mercury	112
Nickel	122
Selenium	132
Uranium.....	142
Zinc	152

Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Aluminium

Parameter oriented report

M170 A

Aluminium

Unit	µg/l
Assigned value ± U (k=2)	13.4 ± 0.546
Criterion	1.34 (10 %)
Minimum - Maximum	11.7 - 16.6
Control test value ± U (k=2)	12.5 ± 1.13

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	14.1	2.115	105	0.55	
LC0002	25.3	6.3	189	8.93	H
LC0003	13.8	0.69	103	0.32	
LC0004	12.63	2.58	94.5	-0.55	
LC0005	-	-	-	-	
LC0006	11.8	0.732	88.3	-1.17	
LC0007	14.8	0.252	111	1.07	
LC0008	< 100 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	12.5	2.62	93.5	-0.65	
LC0011	< 10 (LOQ)	-	-	-	
LC0012	11.7	1.2	87.5	-1.25	
LC0013	13.26	1.5249	99.2	-0.08	
LC0014	13.5	2.7	101	0.1	
LC0015	12.9	1.29	96.5	-0.35	
LC0016	12.78	0.62	95.6	-0.44	
LC0017	16.58	1.87	124	2.4	
LC0018	16.5	3.3	123	2.34	
LC0019	11.805	2.951	88.3	-1.17	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	80.9	12.1	605	50.52	H
LC0022	13.5	4	101	0.1	
LC0023	14.7	2.21	110	1	
LC0024	13.3	0.67	99.5	-0.05	
LC0025	13.1	3.3	98	-0.2	
LC0026	12.1	1.82	90.5	-0.95	
LC0027	15	3	112	1.22	
LC0028	13	1.3	97.2	-0.28	
LC0029	12.78	1.405	95.6	-0.44	
LC0030	12.4	2.1	92.8	-0.72	
LC0031	12.292	2.458	92	-0.8	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Aluminium

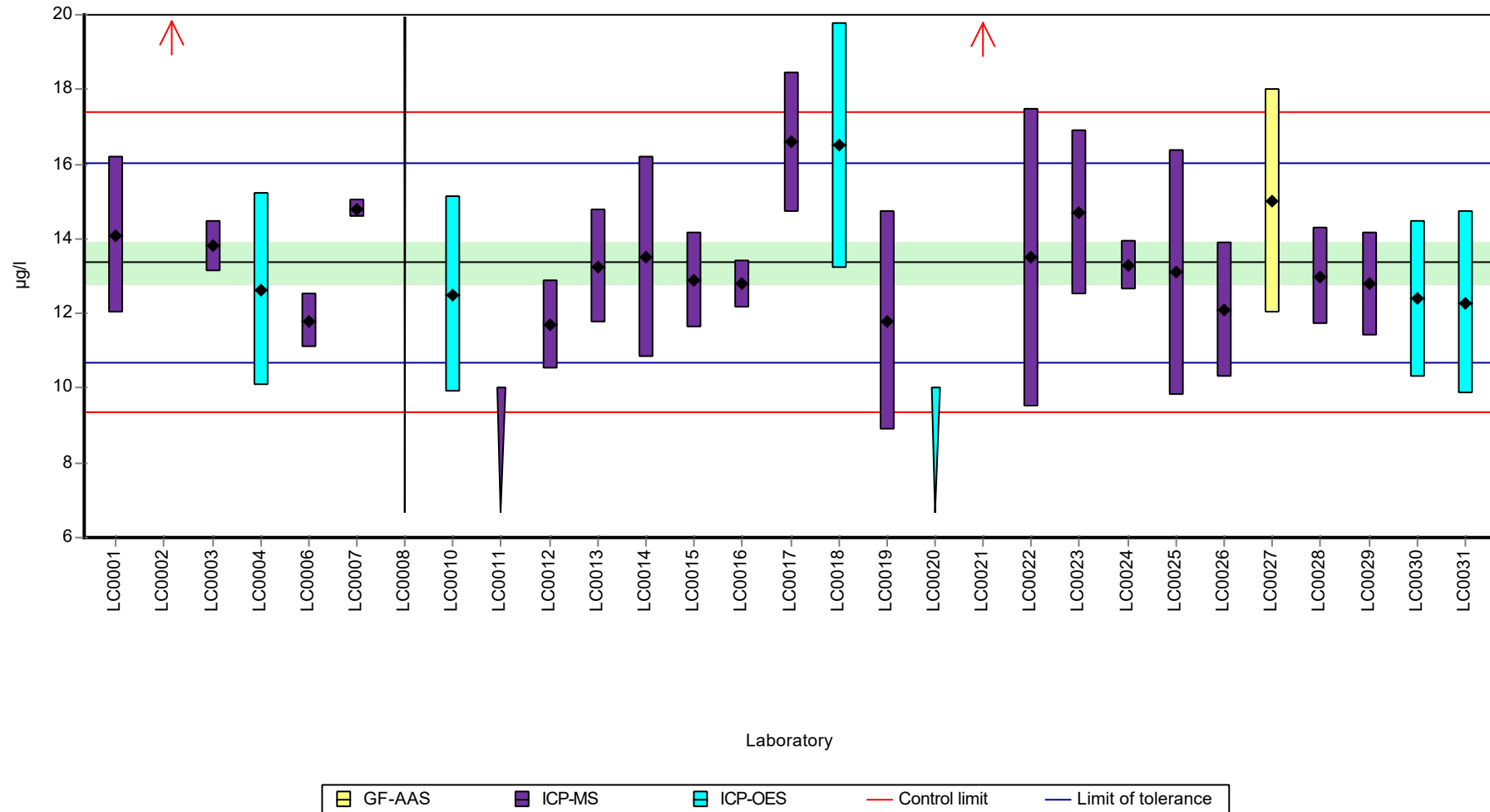
Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	16.4 ± 7.89	13.4 ± 0.819	µg/l
Minimum	11.7	11.7	µg/l
Maximum	80.9	16.6	µg/l
Standard deviation	13.4	1.34	µg/l
rel. standard deviation	81.7	10	%
n	26	24	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Aluminium

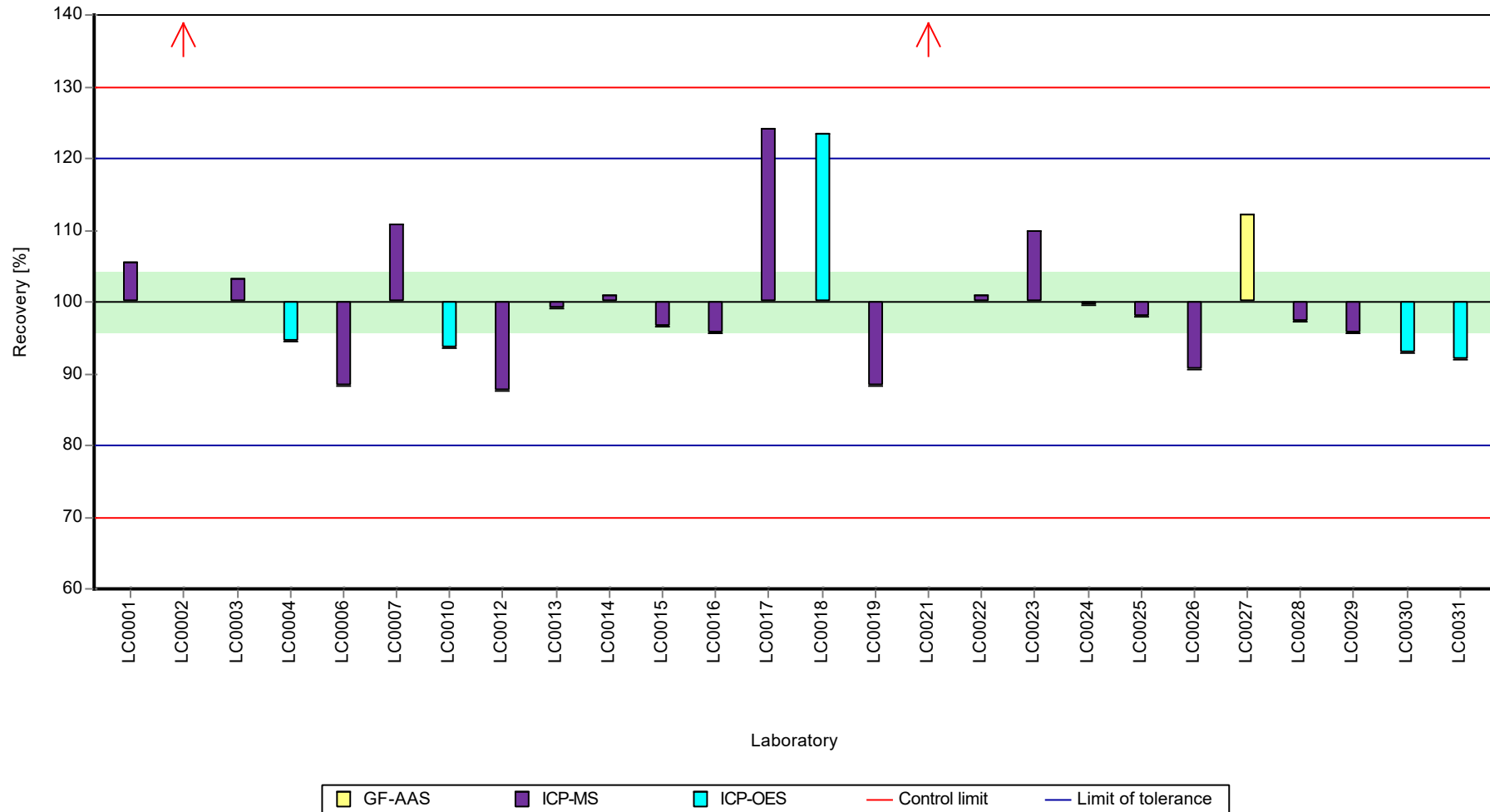
Graphical presentation of results
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Aluminium

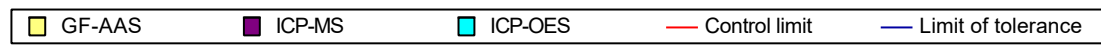
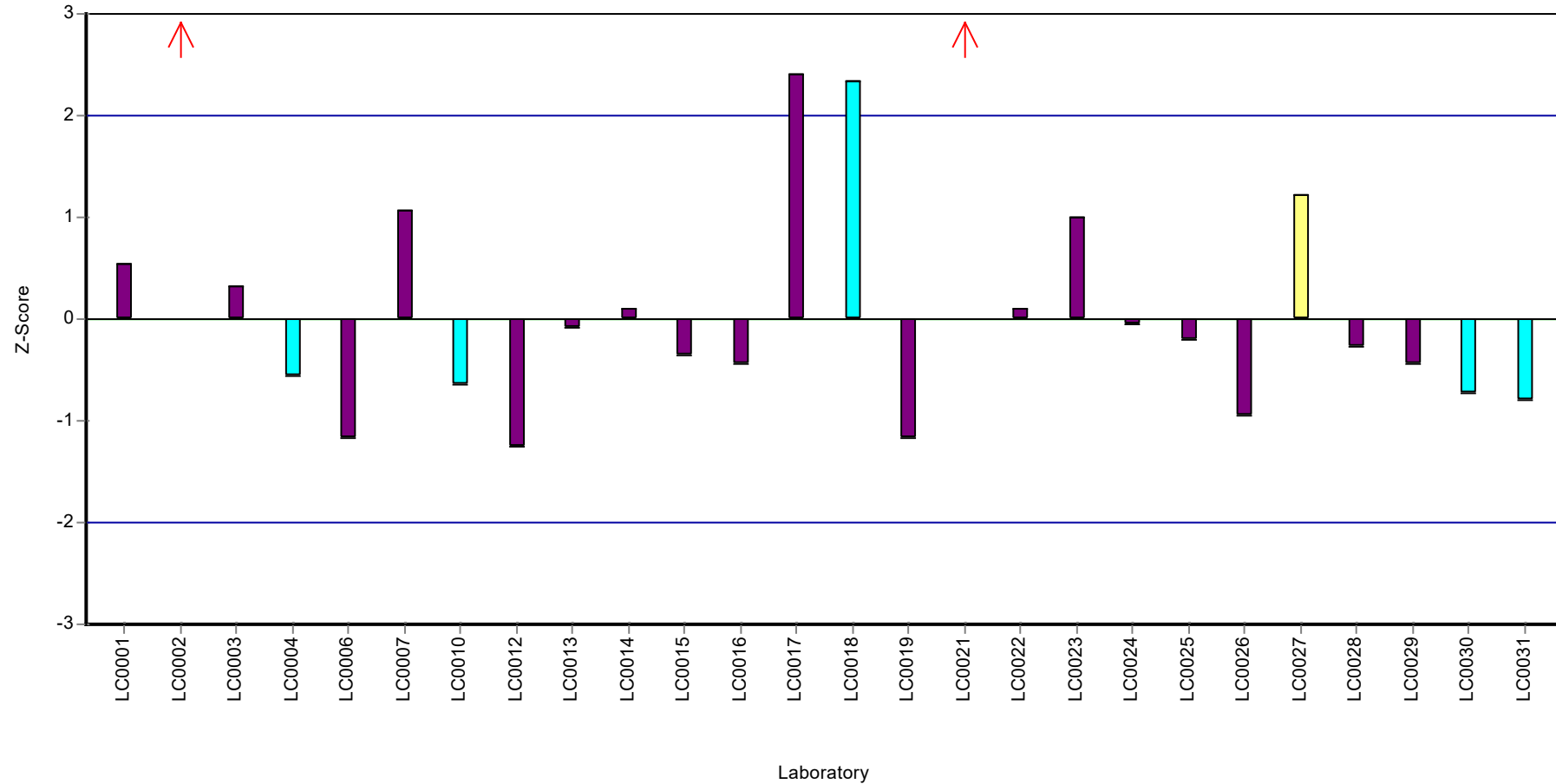
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Aluminium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Aluminium

Parameter oriented report

M170 B

Aluminium

Unit	µg/l
Assigned value ± U (k=2)	63.3 ± 1.06
Criterion	6.33 (10 %)
Minimum - Maximum	58.9 - 68
Control test value ± U (k=2)	60.8 ± 5.47

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	66.7	10.005	105	0.54	
LC0002	74	18	117	1.69	H
LC0003	65.8	3.3	104	0.4	
LC0004	59.2	12.1	93.5	-0.65	
LC0005	-	-	-	-	
LC0006	62.2	3.86	98.3	-0.17	
LC0007	65.7	1.99	104	0.38	
LC0008	< 100 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	63	13.2	99.5	-0.05	
LC0011	46.5	1.39	73.5	-2.65	H
LC0012	62.5	6.3	98.8	-0.12	
LC0013	66.85	7.69	106	0.56	
LC0014	65.8	13	104	0.4	
LC0015	64.5	6.45	102	0.19	
LC0016	60.96	2.94	96.3	-0.37	
LC0017	66.83	4.77	106	0.56	
LC0018	67.95	13.6	107	0.74	
LC0019	58.934	14.734	93.1	-0.69	
LC0020	61.9	1.67	97.8	-0.22	
LC0021	145	21.8	229	12.91	H
LC0022	63.9	13	101	0.1	
LC0023	64.1	9.61	101	0.13	
LC0024	62.4	3.12	98.6	-0.14	
LC0025	63.7	16	101	0.07	
LC0026	62.4	9.35	98.6	-0.14	
LC0027	42	8	66.4	-3.36	H
LC0028	61	6.1	96.4	-0.36	
LC0029	59.17	9.466	93.5	-0.65	
LC0030	61.1	10	96.5	-0.35	
LC0031	62.298	6.23	98.4	-0.16	

Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Aluminium

Characteristics of parameter

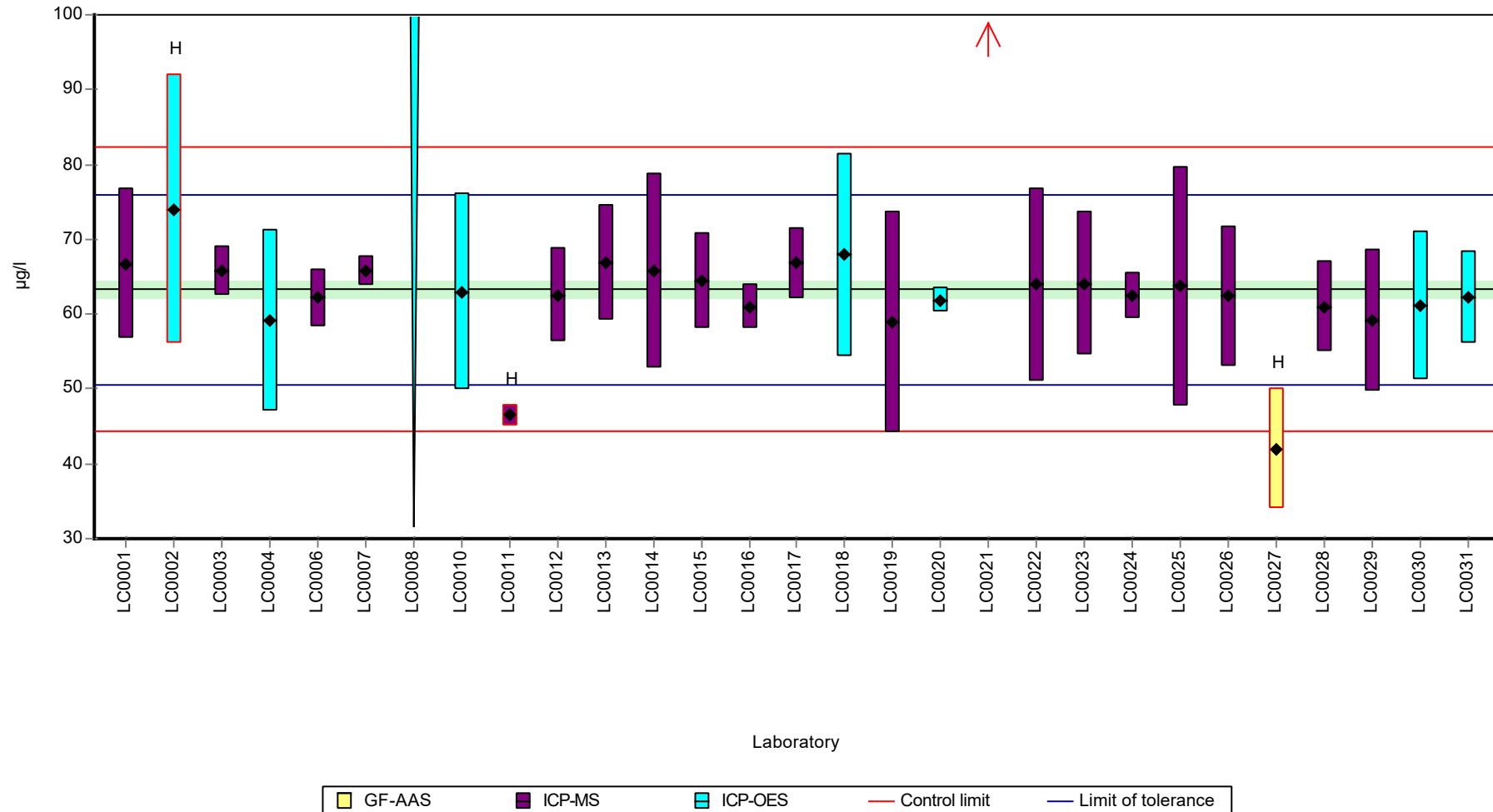
	all results	without outliers	Unit
Mean ± CI (99%)	65.2 ± 9.5	63.3 ± 1.59	µg/l
Minimum	42	58.9	µg/l
Maximum	145	68	µg/l
Standard deviation	16.8	2.59	µg/l
rel. standard deviation	25.7	4.09	%
n	28	24	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Aluminium

Graphical presentation of results

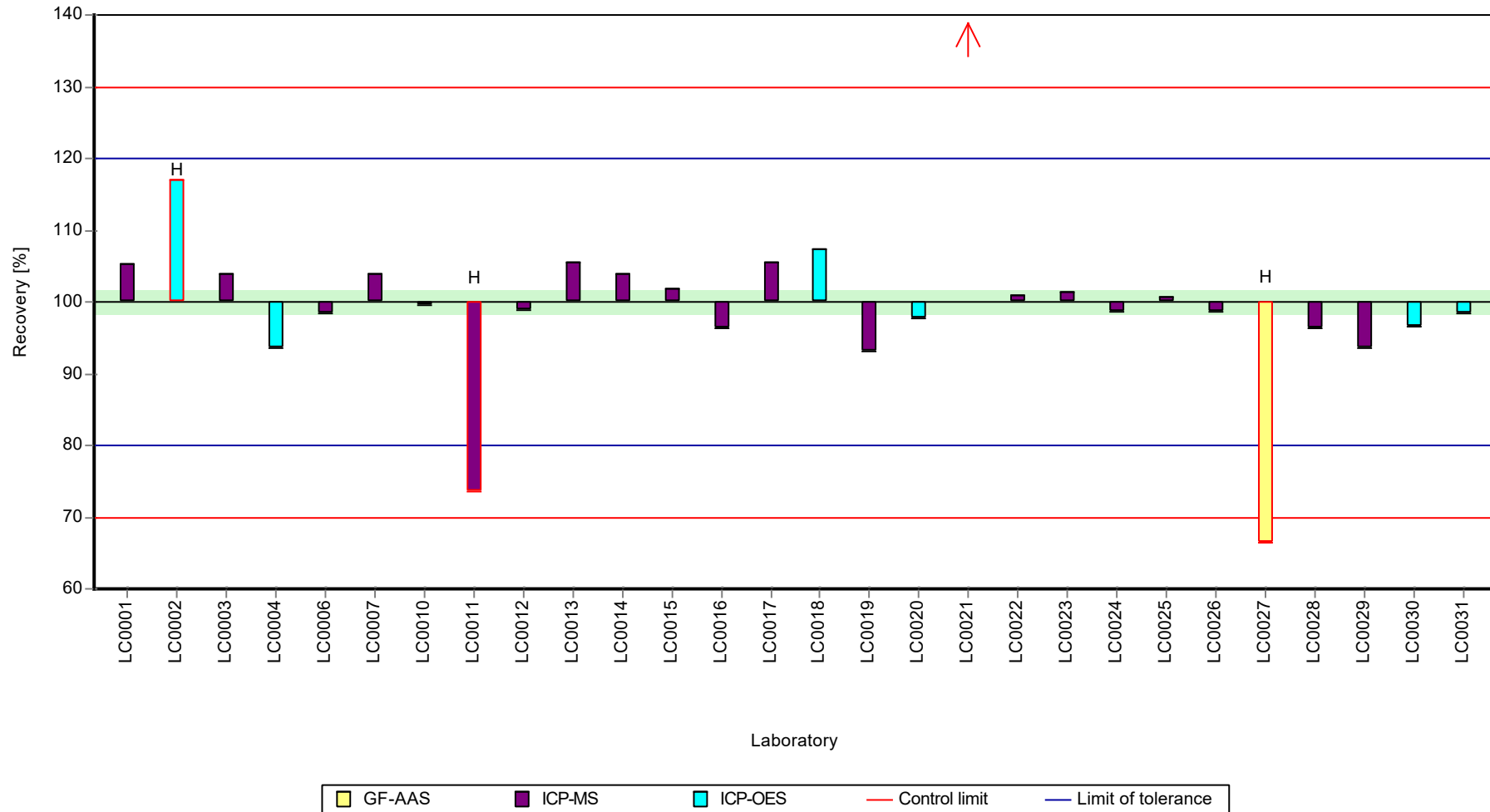
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Aluminium

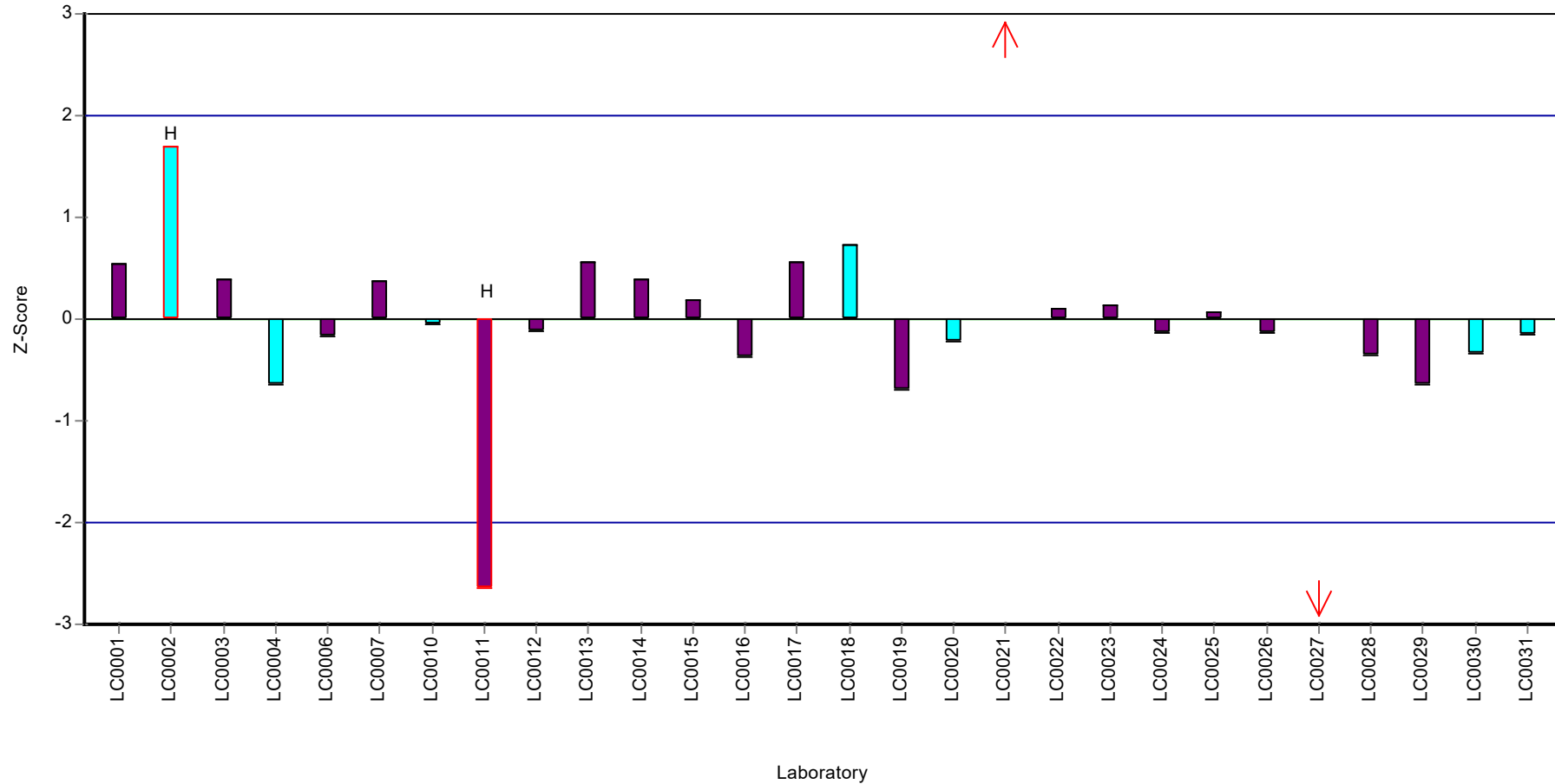
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Aluminium

Z-score



■ ICP-MS
 ■ ICP-OES
 — Control limit
 — Limit of tolerance

Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Arsenic

Parameter oriented report

M170 A

Arsenic

Unit	µg/l
Assigned value ± U (k=2)	1.28 ± 0.0432
Criterion	0.166 (13 %)
Minimum - Maximum	1.12 - 1.5
Control test value ± U (k=2)	1.22 ± 0.135

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.19	0.238	93.2	-0.52	
LC0002	-	-	-	-	
LC0003	1.37	0.19	107	0.56	
LC0004	< 3 (LOQ)	-	-	-	
LC0005	-	-	-	-	
LC0006	1.496	0.181	117	1.32	
LC0007	1.3	0.044	102	0.14	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	1.26	0.088	98.7	-0.1	
LC0011	1.7	0.055	133	2.55	H
LC0012	1.34	0.13	105	0.38	
LC0013	1.348	0.195	106	0.43	
LC0014	1.2	0.24	94	-0.46	
LC0015	1.3	0.2	102	0.14	
LC0016	1.43	0.05	112	0.92	
LC0017	1.2	0.05	94	-0.46	
LC0018	-	-	-	-	
LC0019	1.116	0.223	87.4	-0.97	
LC0020	1.35	0.0423	106	0.44	
LC0021	0.363	0.05	28.4	-5.51	H
LC0022	1.21	0.18	94.8	-0.4	
LC0023	1.24	0.19	97.1	-0.22	
LC0024	1.23	0.074	96.3	-0.28	
LC0025	1.27	0.38	99.5	-0.04	
LC0026	1.19	0.178	93.2	-0.52	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	1.2	0.144	94	-0.46	
LC0029	1.176	0.07058	92.1	-0.61	
LC0030	1.47	0.18	115	1.16	
LC0031	1.203	0.18	94.2	-0.44	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Arsenic

Characteristics of parameter

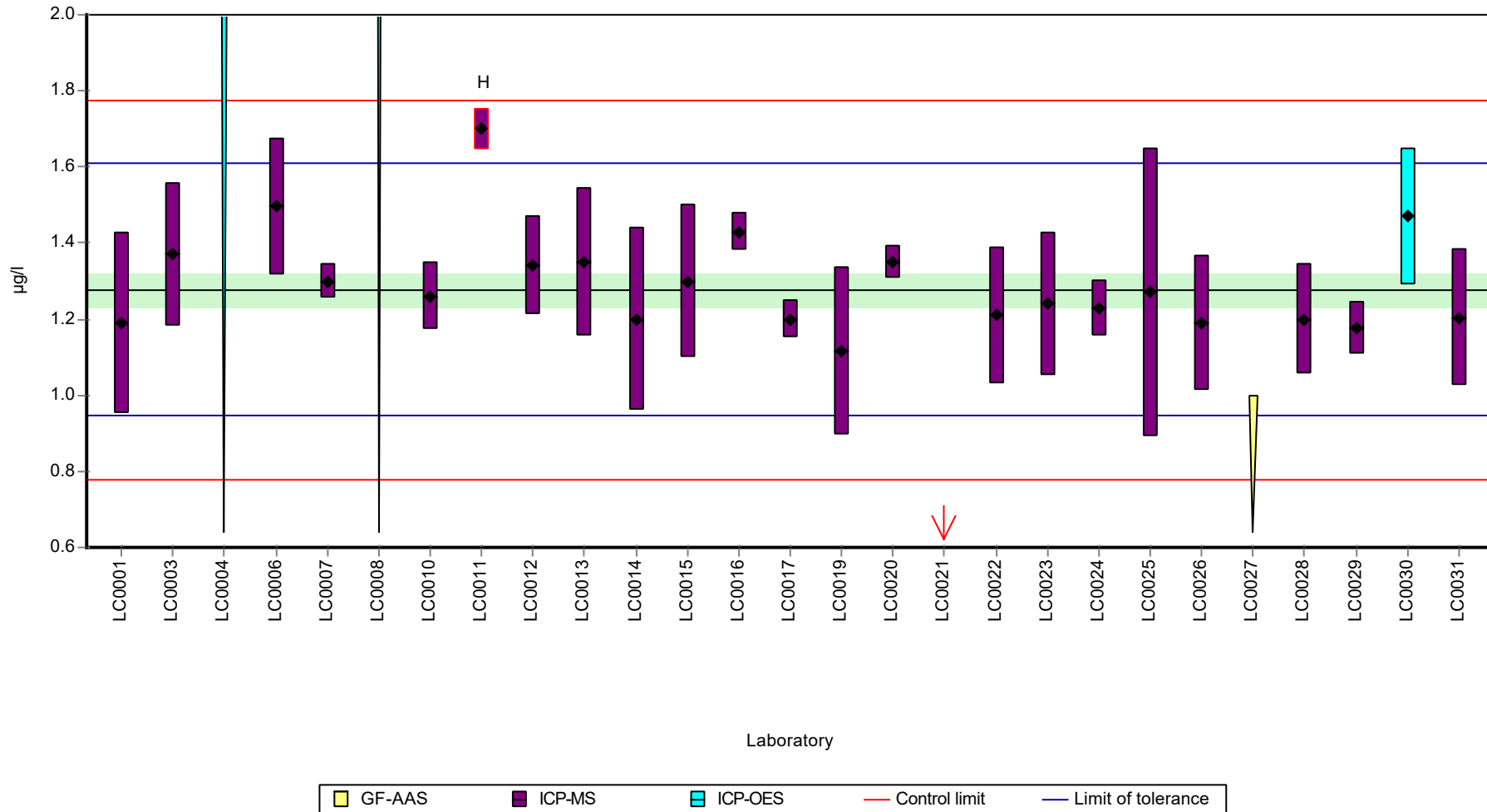
	all results	without outliers	Unit
Mean ± CI (99%)	1.26 ± 0.141	1.28 ± 0.0648	µg/l
Minimum	0.363	1.12	µg/l
Maximum	1.7	1.5	µg/l
Standard deviation	0.23	0.101	µg/l
rel. standard deviation	18.3	7.94	%
n	24	22	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Arsenic

Graphical presentation of results

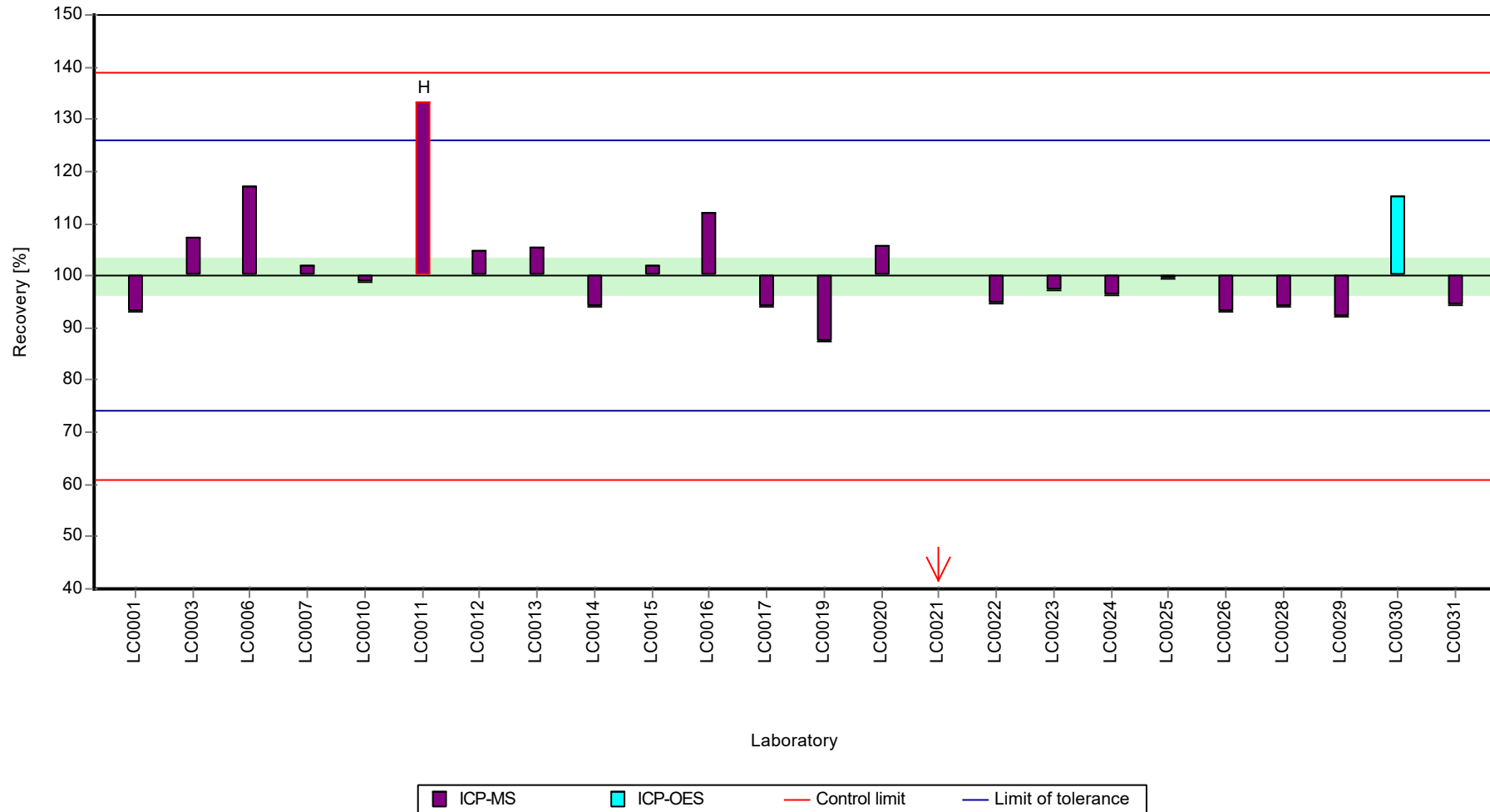
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Arsenic

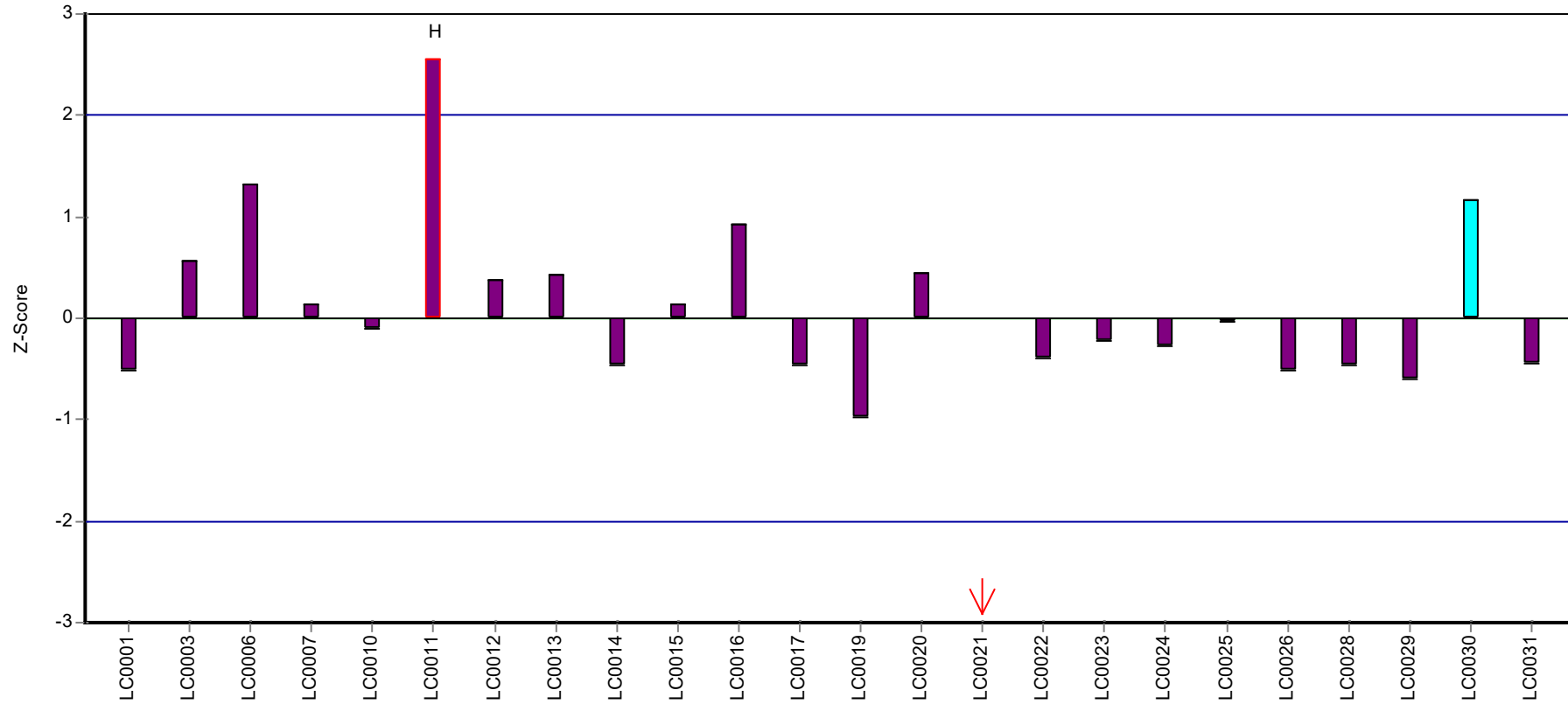
Recovery rate



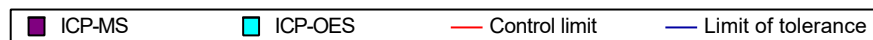
Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Arsenic

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Arsenic

Parameter oriented report

M170 B

Arsenic

Unit	µg/l
Assigned value ± U (k=2)	5.14 ± 0.0899
Criterion	0.668 (13 %)
Minimum - Maximum	4.63 - 5.64
Control test value ± U (k=2)	4.79 ± 0.526

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.99	0.998	97	-0.23	
LC0002	-	-	-	-	
LC0003	5.34	0.75	104	0.3	
LC0004	6.5	1.2	126	2.03	H
LC0005	-	-	-	-	
LC0006	5.26	0.637	102	0.18	
LC0007	5.28	0.107	103	0.21	
LC0008	5	0.829	97.2	-0.21	
LC0009	-	-	-	-	
LC0010	5.22	0.366	102	0.12	
LC0011	5.48	0.0301	107	0.51	
LC0012	5.13	0.51	99.8	-0.02	
LC0013	5.303	0.769	103	0.24	
LC0014	4.88	0.98	94.9	-0.39	
LC0015	5.2	0.78	101	0.09	
LC0016	5.54	0.19	108	0.6	
LC0017	4.9	0.24	95.3	-0.36	
LC0018	-	-	-	-	
LC0019	4.634	0.927	90.1	-0.76	
LC0020	5.31	0.0365	103	0.25	
LC0021	5.29	0.79	103	0.22	
LC0022	5.03	0.75	97.8	-0.17	
LC0023	4.98	0.75	96.9	-0.24	
LC0024	5.1	0.31	99.2	-0.06	
LC0025	5.21	1.6	101	0.1	
LC0026	5.01	0.751	97.4	-0.2	
LC0027	5	1	97.2	-0.21	
LC0028	4.8	0.576	93.3	-0.51	
LC0029	5.064	0.8608	98.5	-0.12	
LC0030	5.64	0.69	110	0.75	
LC0031	5.1	0.765	99.2	-0.06	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Arsenic

Characteristics of parameter

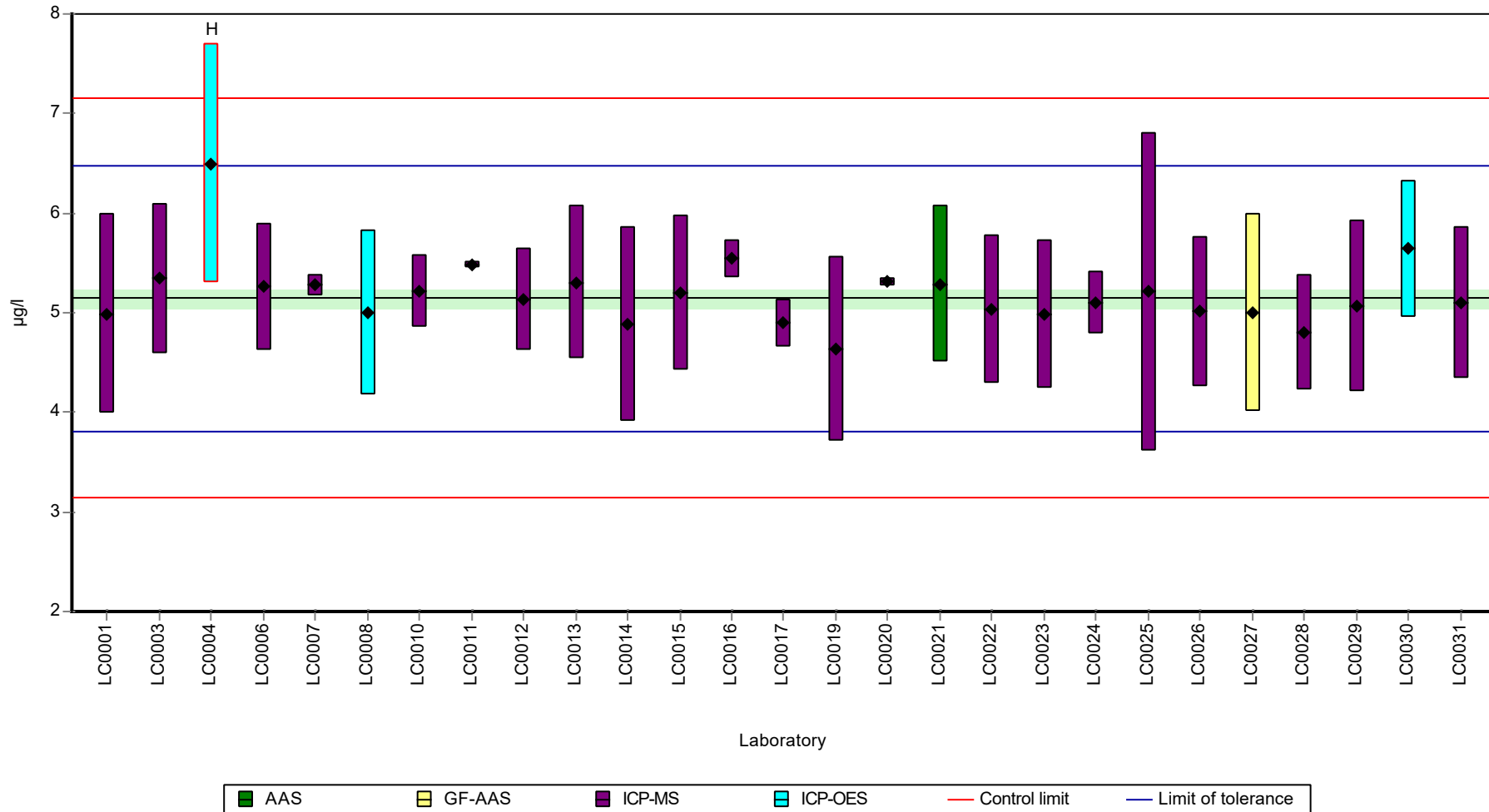
	all results	without outliers	Unit
Mean ± CI (99%)	5.19 ± 0.199	5.14 ± 0.135	µg/l
Minimum	4.63	4.63	µg/l
Maximum	6.5	5.64	µg/l
Standard deviation	0.345	0.229	µg/l
rel. standard deviation	6.64	4.46	%
n	27	26	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Arsenic

Graphical presentation of results

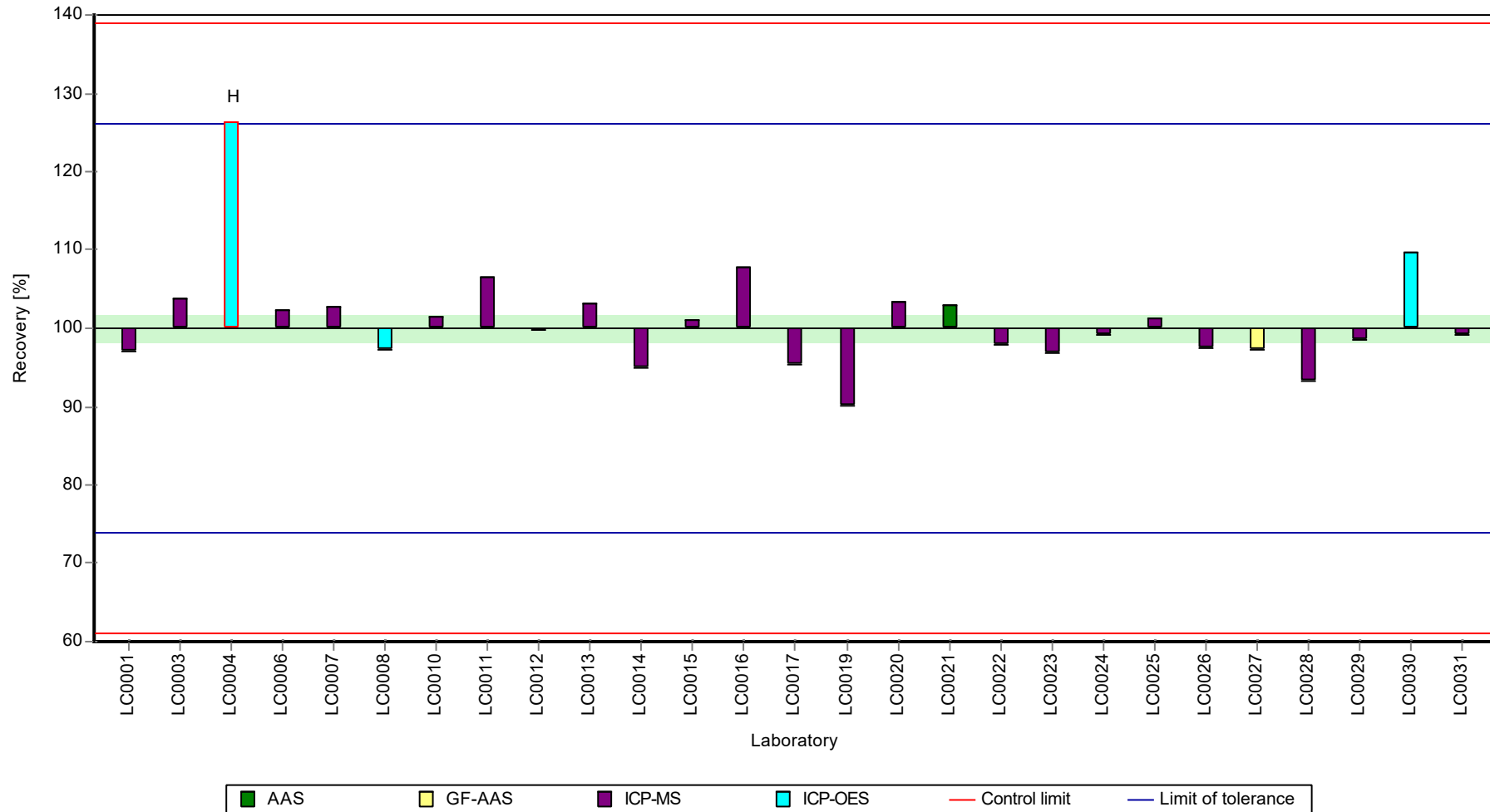
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Arsenic

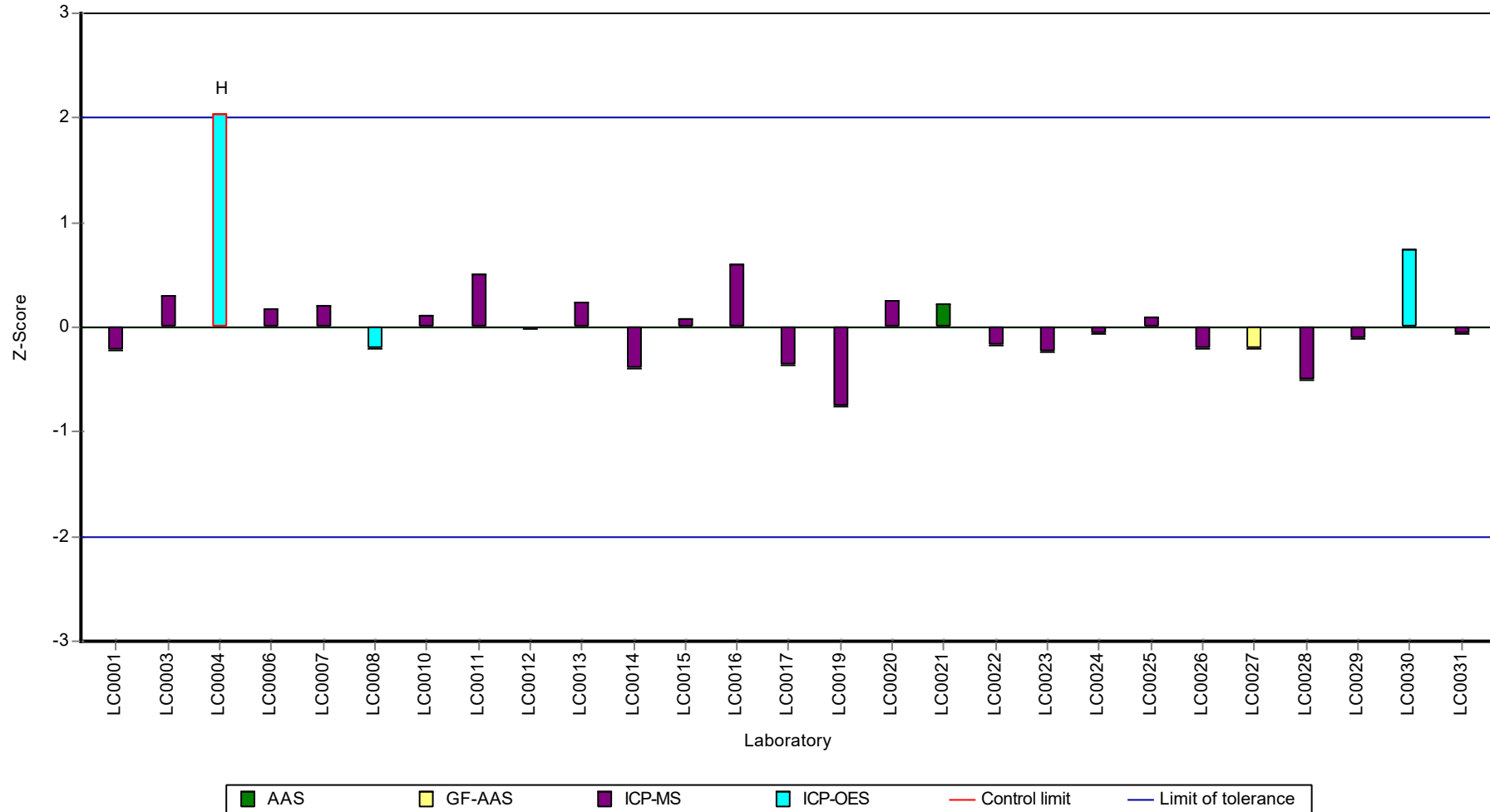
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Arsenic

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Cadmium

Parameter oriented report

M170 A

Cadmium

Unit	µg/l
Assigned value ± U (k=2)	0.423 ± 0.0105
Criterion	0.0423 (10 %)
Minimum - Maximum	0.36 - 0.46
Control test value ± U (k=2)	0.395 ± 0.0395

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.442	0.0663	104	0.45	
LC0002	-	-	-	-	
LC0003	0.421	0.016	99.5	-0.05	
LC0004	0.46	0.03	109	0.87	
LC0005	0.37	0.056	87.5	-1.25	
LC0006	0.44	0.047	104	0.4	
LC0007	0.453	0.028	107	0.71	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	0.42	0.021	99.3	-0.07	
LC0011	0.45	0.012	106	0.64	
LC0012	0.42	0.042	99.3	-0.07	
LC0013	0.422	0.058	99.7	-0.03	
LC0014	0.4	0.08	94.5	-0.55	
LC0015	0.42	0.042	99.3	-0.07	
LC0016	0.39	0.03	92.2	-0.78	
LC0017	0.36	0.01	85.1	-1.49	
LC0018	-	-	-	-	
LC0019	0.416	0.042	98.3	-0.17	
LC0020	0.432	0.00548	102	0.21	
LC0021	0.896	0.14	212	11.18	H
LC0022	0.447	0.054	106	0.57	
LC0023	0.382	0.057	90.3	-0.97	
LC0024	0.41	0.016	96.9	-0.31	
LC0025	0.46	0.12	109	0.87	
LC0026	0.44	0.066	104	0.4	
LC0027	0.4	0.1	94.5	-0.55	
LC0028	0.43	0.0344	102	0.16	
LC0029	0.4394	0.03076	104	0.39	
LC0030	0.448	0.047	106	0.59	
LC0031	0.428	0.0637	101	0.12	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Cadmium

Characteristics of parameter

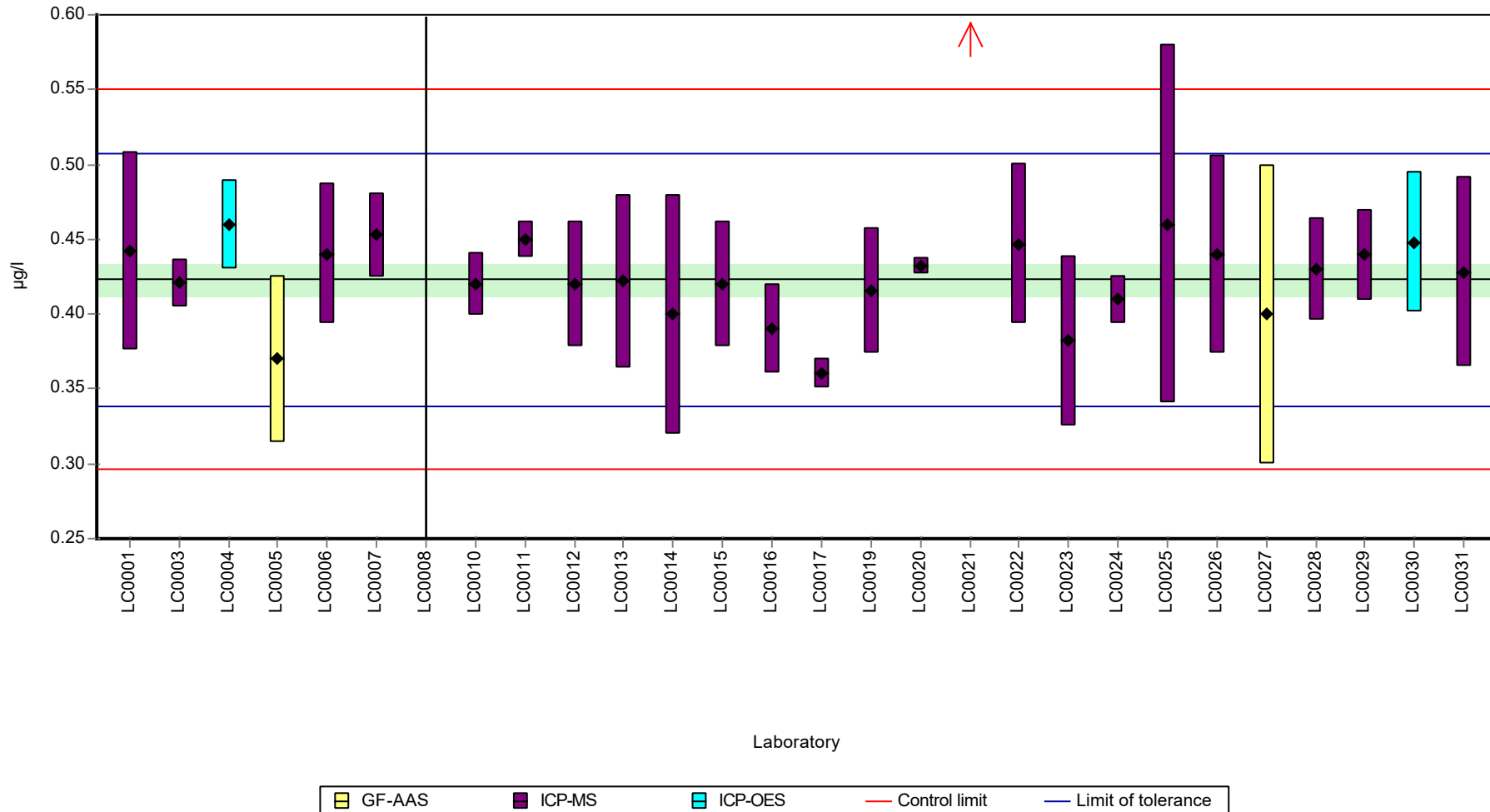
	all results	without outliers	Unit
Mean ± CI (99%)	0.441 ± 0.0547	0.423 ± 0.0157	µg/l
Minimum	0.36	0.36	µg/l
Maximum	0.896	0.46	µg/l
Standard deviation	0.0947	0.0267	µg/l
rel. standard deviation	21.5	6.3	%
n	27	26	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Cadmium

Graphical presentation of results

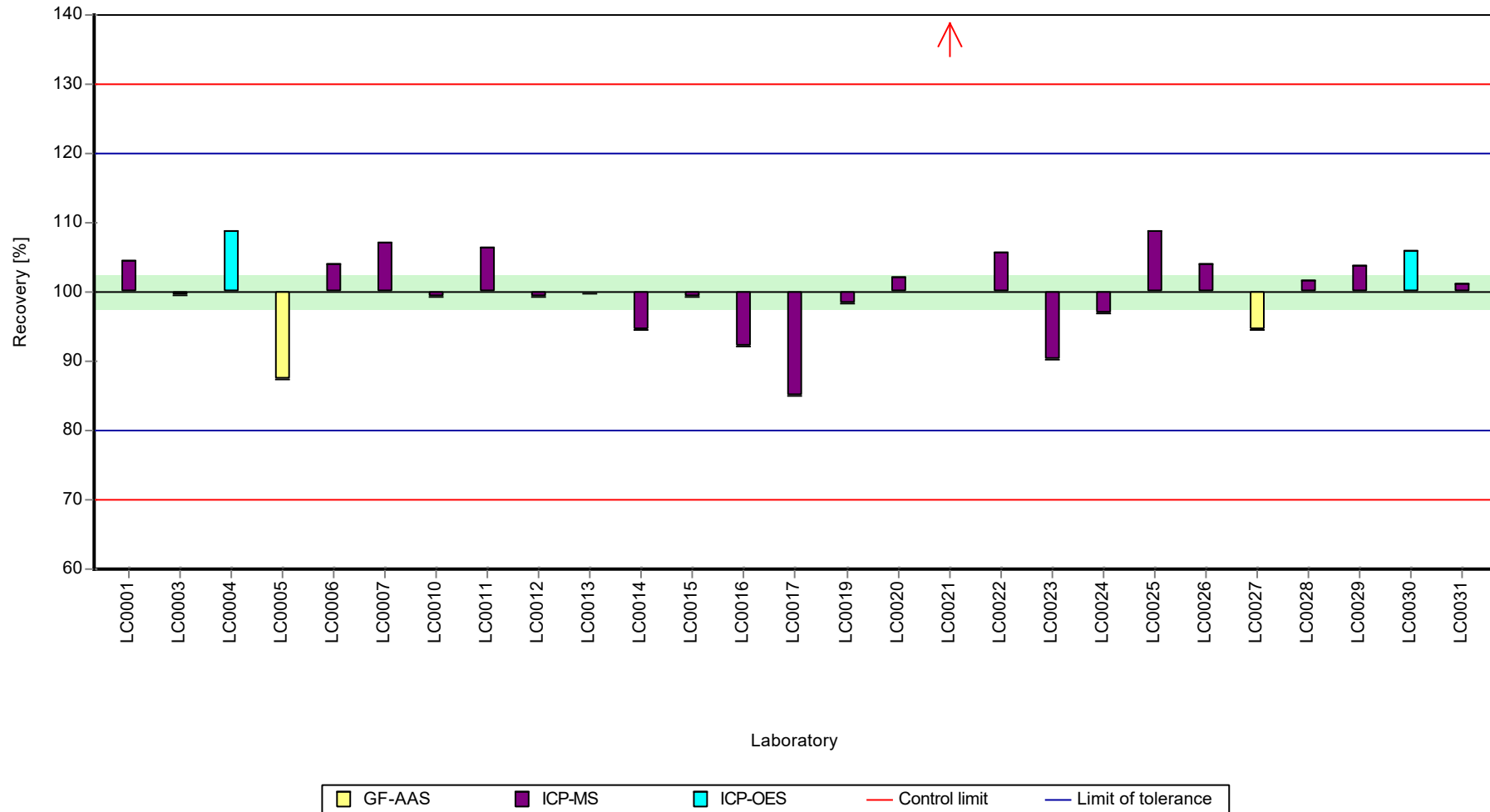
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Cadmium

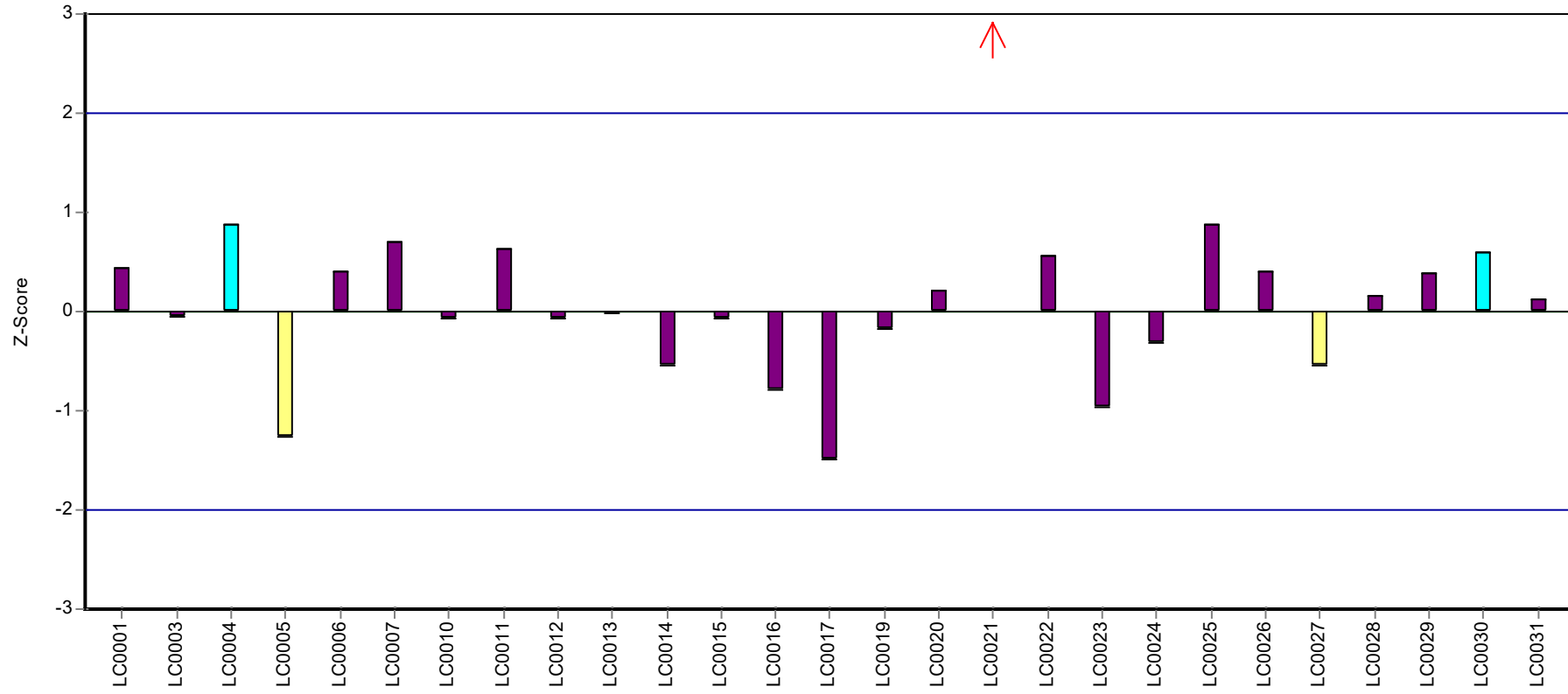
Recovery rate



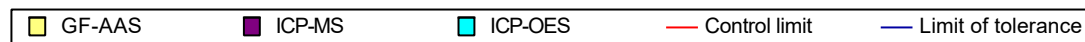
Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Cadmium

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Cadmium

Parameter oriented report

M170 B

Cadmium

Unit	µg/l
Assigned value ± U (k=2)	2.76 ± 0.0512
Criterion	0.276 (10 %)
Minimum - Maximum	2.53 - 3.05
Control test value ± U (k=2)	2.63 ± 0.263

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.85	0.4275	103	0.33	
LC0002	-	-	-	-	
LC0003	2.71	0.11	98.2	-0.18	
LC0004	2.75	0.18	99.7	-0.03	
LC0005	3.045	0.457	110	1.03	
LC0006	2.87	0.3097	104	0.4	
LC0007	2.74	0.067	99.3	-0.07	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	2.81	0.141	102	0.18	
LC0011	2.87	0.076	104	0.4	
LC0012	2.83	0.28	103	0.26	
LC0013	2.541	0.318	92.1	-0.79	
LC0014	2.53	0.51	91.7	-0.83	
LC0015	2.9	0.29	105	0.51	
LC0016	2.87	0.2	104	0.4	
LC0017	2.58	0.09	93.5	-0.65	
LC0018	-	-	-	-	
LC0019	2.637	0.264	95.6	-0.44	
LC0020	2.9	0.0273	105	0.51	
LC0021	3.99	0.6	145	4.46	H
LC0022	2.81	0.34	102	0.18	
LC0023	2.58	0.39	93.5	-0.65	
LC0024	2.64	0.11	95.7	-0.43	
LC0025	2.88	0.72	104	0.44	
LC0026	2.84	0.426	103	0.29	
LC0027	2.8	0.3	101	0.15	
LC0028	2.65	0.212	96	-0.4	
LC0029	2.763	0.3592	100	0.01	
LC0030	2.63	0.28	95.3	-0.47	
LC0031	2.721	0.408	98.6	-0.14	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Cadmium

Characteristics of parameter

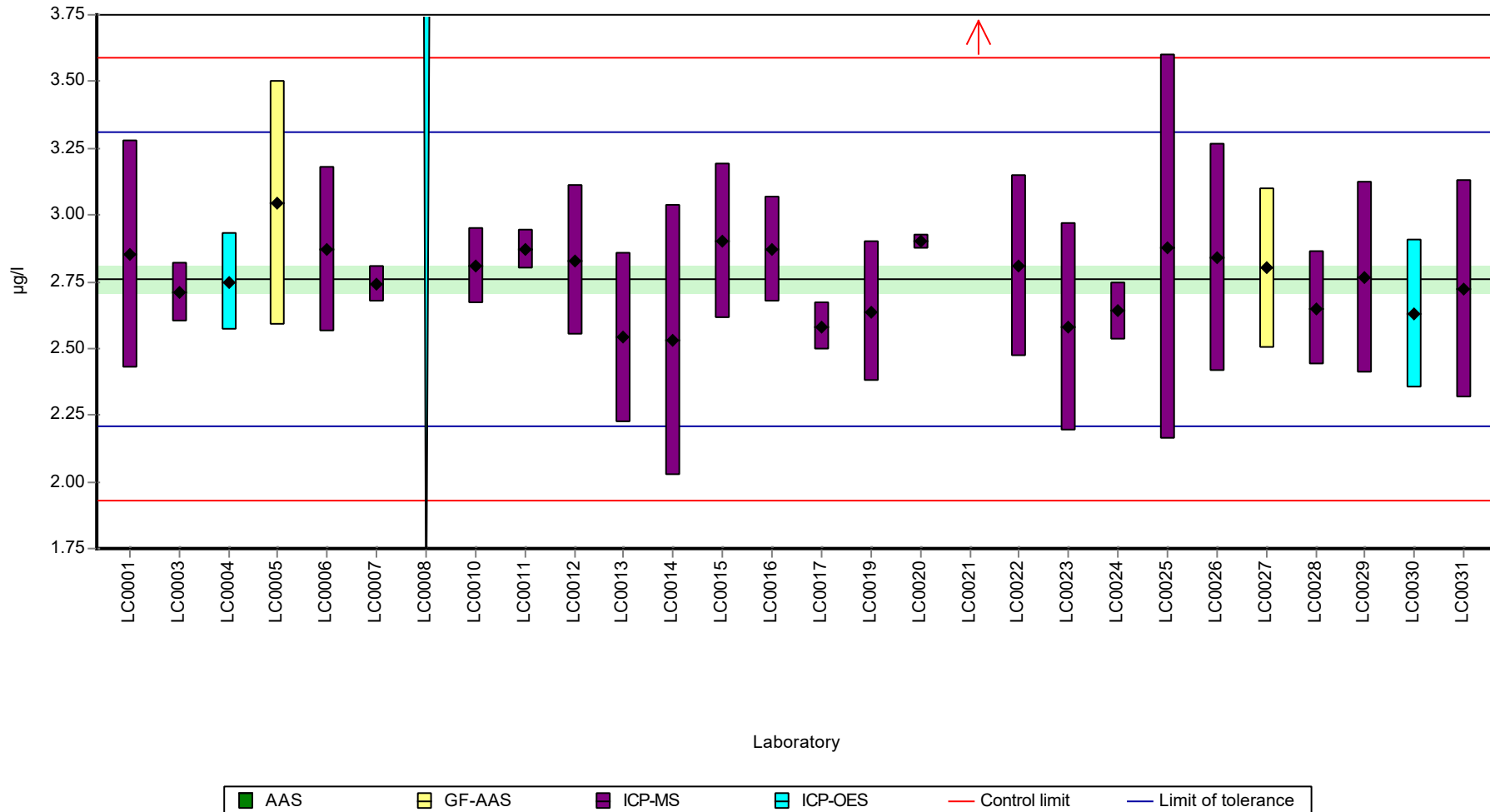
	all results	without outliers	Unit
Mean ± CI (99%)	2.81 ± 0.155	2.76 ± 0.0768	µg/l
Minimum	2.53	2.53	µg/l
Maximum	3.99	3.05	µg/l
Standard deviation	0.269	0.131	µg/l
rel. standard deviation	9.6	4.73	%
n	27	26	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Cadmium

Graphical presentation of results

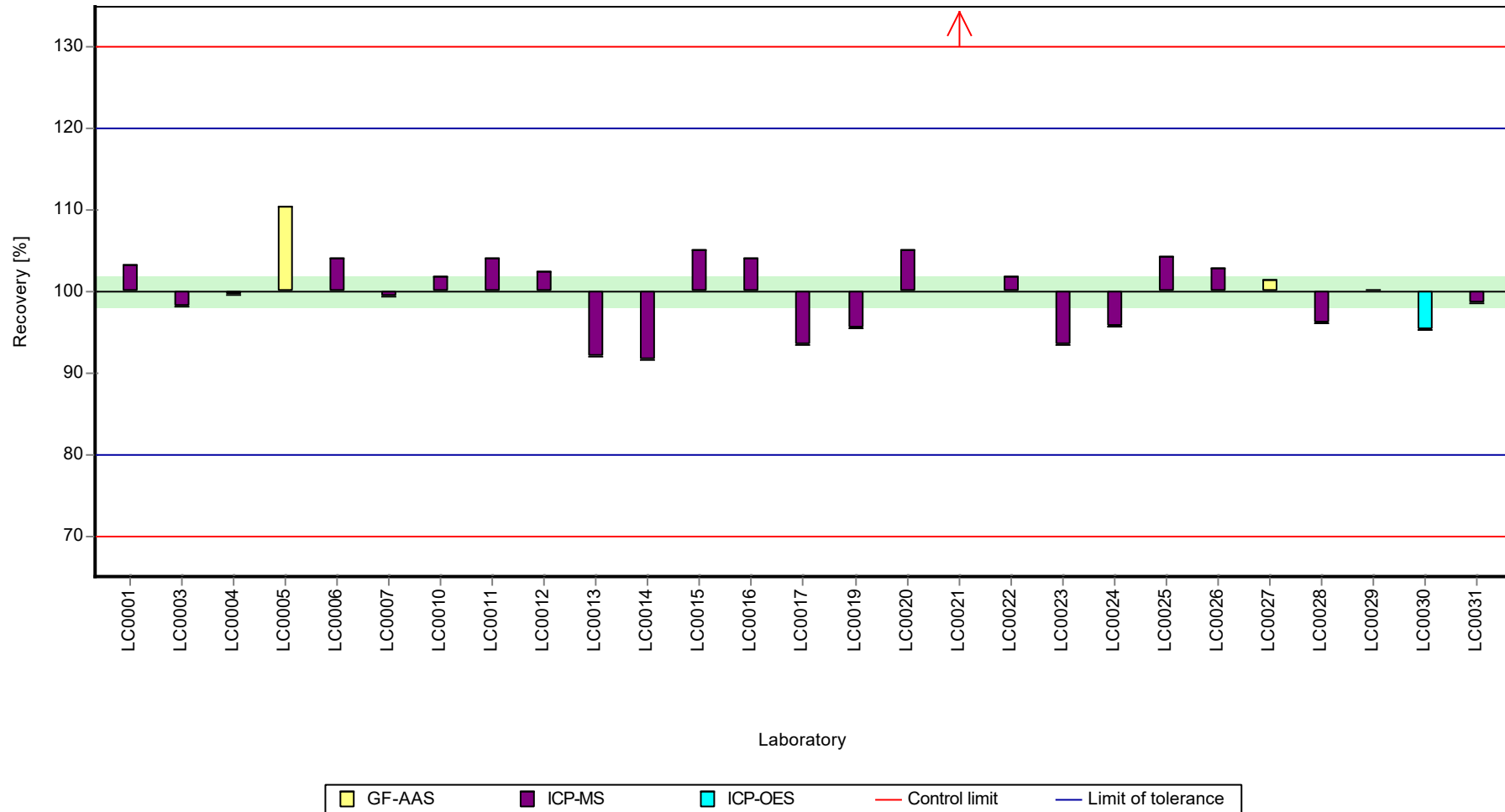
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Cadmium

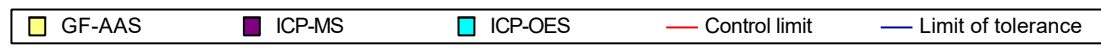
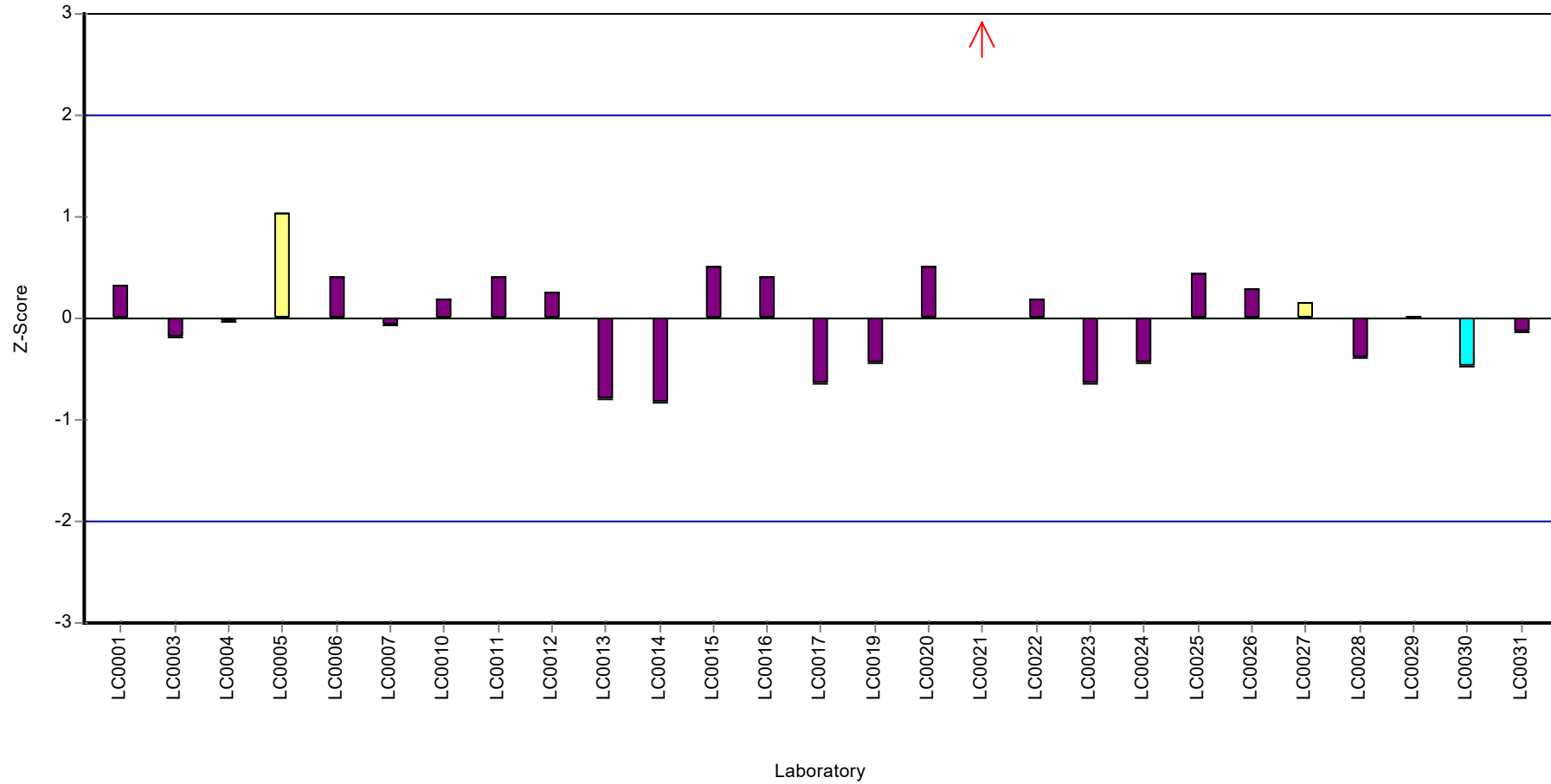
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Cadmium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Chromium

Parameter oriented report

M170 A

Chromium

Unit	µg/l
Assigned value ± U (k=2)	1.97 ± 0.0625
Criterion	0.168 (8.5 %)
Minimum - Maximum	1.59 - 2.33
Control test value ± U (k=2)	2.03 ± 0.203

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.18	0.327	111	1.24	
LC0002	-	-	-	-	
LC0003	2.33	0.14	118	2.13	
LC0004	1.89	0.19	95.8	-0.49	
LC0005	2.086	0.313	106	0.68	
LC0006	2.09	0.245	106	0.7	
LC0007	2.06	0.031	104	0.52	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	2.07	0.187	105	0.58	
LC0011	4.21	0.09	213	13.35	H
LC0012	1.7	0.17	86.2	-1.62	
LC0013	1.588	0.199	80.5	-2.29	
LC0014	1.88	0.38	95.3	-0.55	
LC0015	2	0.2	101	0.17	
LC0016	1.96	0.1	99.4	-0.07	
LC0017	2.12	0.12	107	0.88	
LC0018	-	-	-	-	
LC0019	1.889	0.283	95.8	-0.5	
LC0020	2.06	0.151	104	0.52	
LC0021	3.61	0.54	183	9.77	H
LC0022	1.84	0.28	93.3	-0.79	
LC0023	2	0.3	101	0.17	
LC0024	1.85	0.17	93.8	-0.73	
LC0025	2.05	0.62	104	0.46	
LC0026	1.95	0.293	98.9	-0.13	
LC0027	2	1	101	0.17	
LC0028	1.8	0.216	91.3	-1.03	
LC0029	1.882	0.1505	95.4	-0.54	
LC0030	1.93	0.2	97.9	-0.25	
LC0031	2.099	0.315	106	0.76	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Chromium

Characteristics of parameter

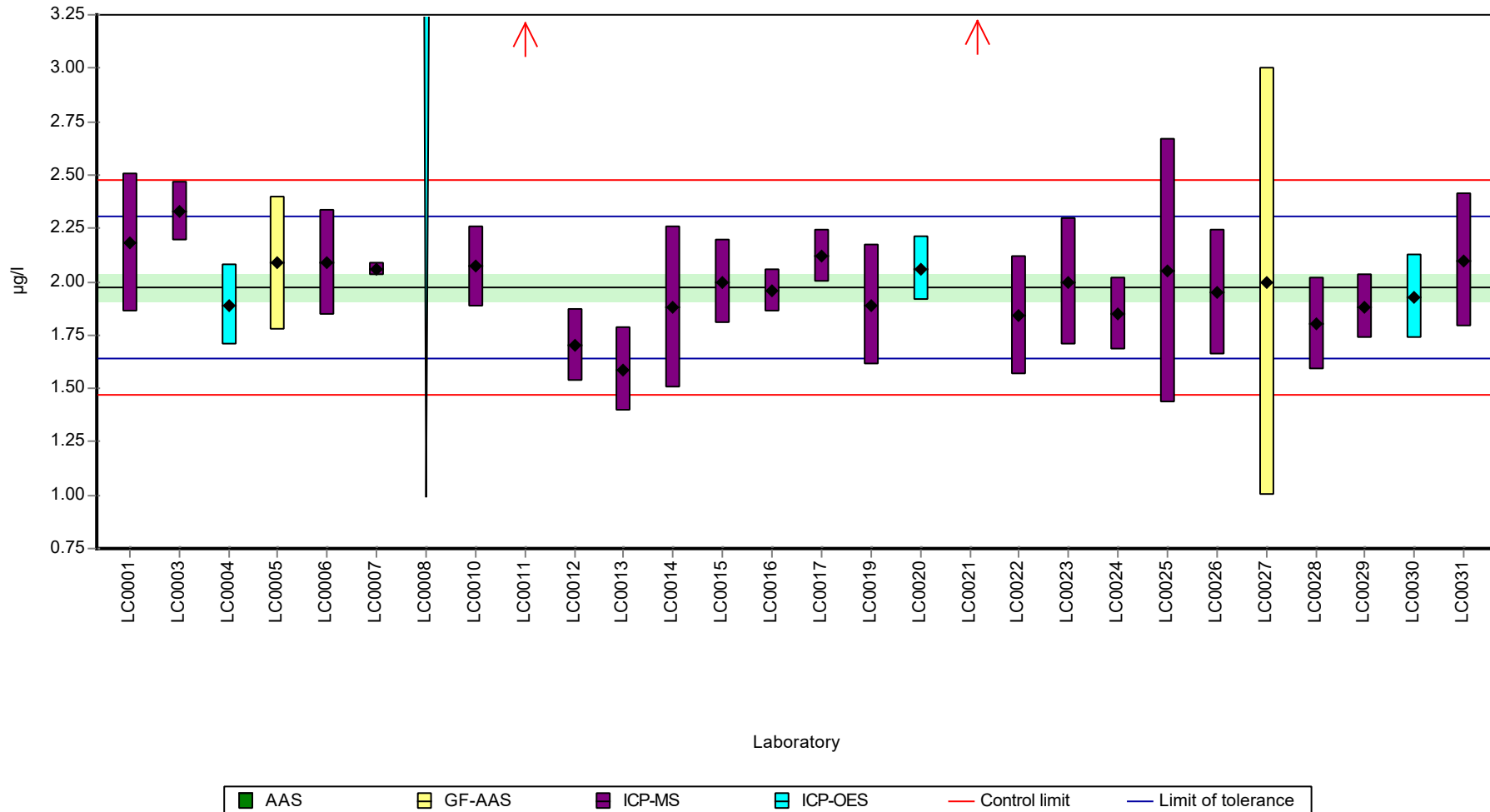
	all results	without outliers	Unit
Mean ± CI (99%)	2.12 ± 0.315	1.97 ± 0.0937	µg/l
Minimum	1.59	1.59	µg/l
Maximum	4.21	2.33	µg/l
Standard deviation	0.545	0.156	µg/l
rel. standard deviation	25.8	7.92	%
n	27	25	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Chromium

Graphical presentation of results

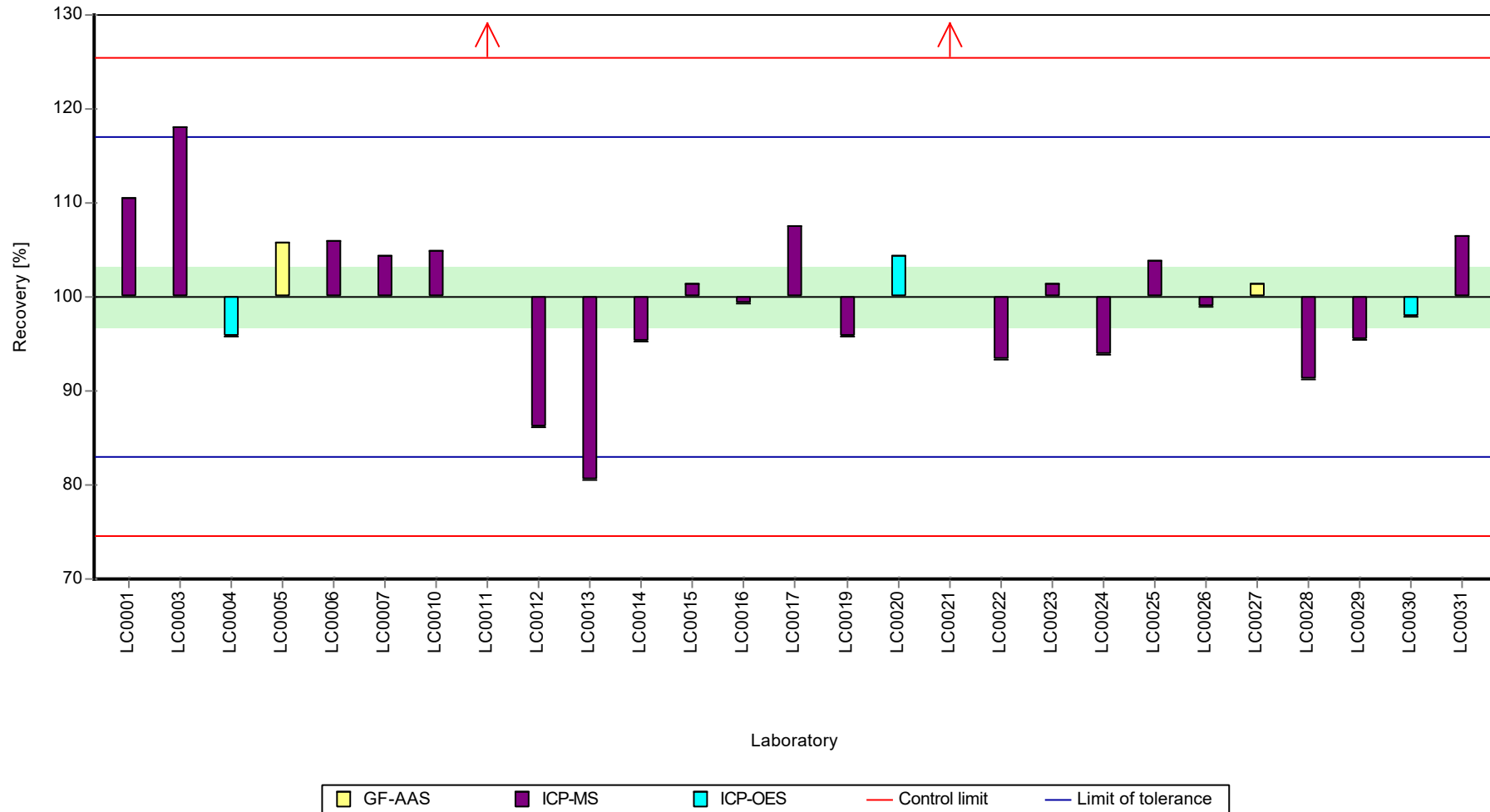
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Chromium

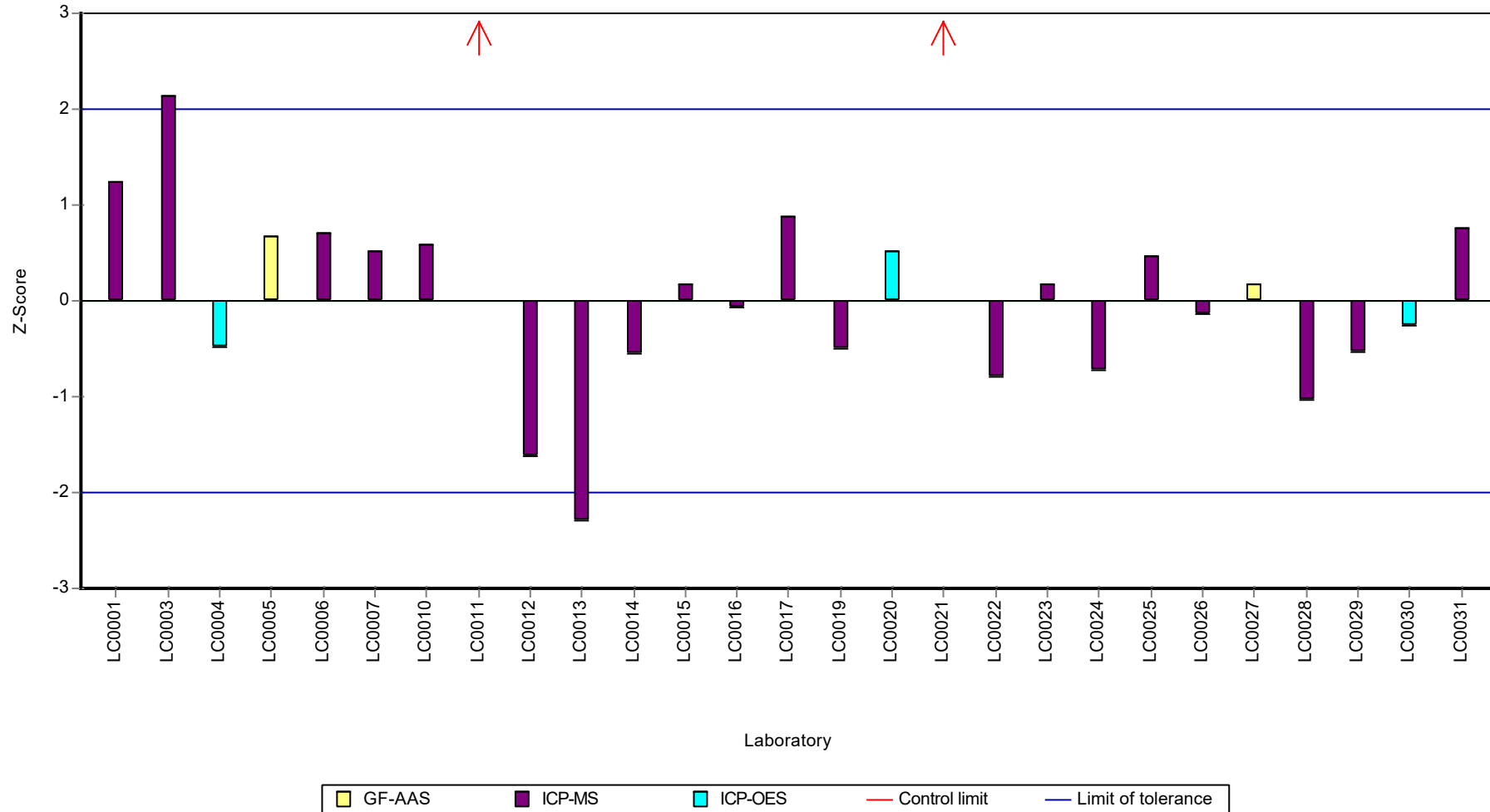
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Chromium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Chromium

Parameter oriented report

M170 B

Chromium

Unit	µg/l
Assigned value ± U (k=2)	1.89 ± 0.0697
Criterion	0.16 (8.5 %)
Minimum - Maximum	1.45 - 2.21
Control test value ± U (k=2)	1.84 ± 0.184

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.03	0.3045	108	0.89	
LC0002	-	-	-	-	
LC0003	2.18	0.13	115	1.82	
LC0004	2.08	0.21	110	1.2	
LC0005	2.053	0.308	109	1.03	
LC0006	1.79	0.2096	94.8	-0.61	
LC0007	1.89	0.026	100	0.02	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	1.88	0.169	99.6	-0.05	
LC0011	3.03	0.104	161	7.12	H
LC0012	1.63	0.16	86.4	-1.61	
LC0013	1.447	0.181	76.7	-2.75	
LC0014	1.75	0.35	92.7	-0.86	
LC0015	1.9	0.19	101	0.08	
LC0016	2.01	0.1	106	0.76	
LC0017	1.94	0.11	103	0.33	
LC0018	-	-	-	-	
LC0019	1.696	0.254	89.9	-1.19	
LC0020	2.1	0.151	111	1.32	
LC0021	1.71	0.26	90.6	-1.11	
LC0022	1.79	0.27	94.8	-0.61	
LC0023	1.93	0.29	102	0.26	
LC0024	1.8	0.16	95.4	-0.55	
LC0025	2.21	0.67	117	2.01	
LC0026	1.87	0.28	99.1	-0.11	
LC0027	2	1	106	0.7	
LC0028	1.7	0.204	90.1	-1.17	
LC0029	1.9	0.4179	101	0.08	
LC0030	1.78	0.19	94.3	-0.67	
LC0031	2.011	0.302	107	0.77	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Chromium

Characteristics of parameter

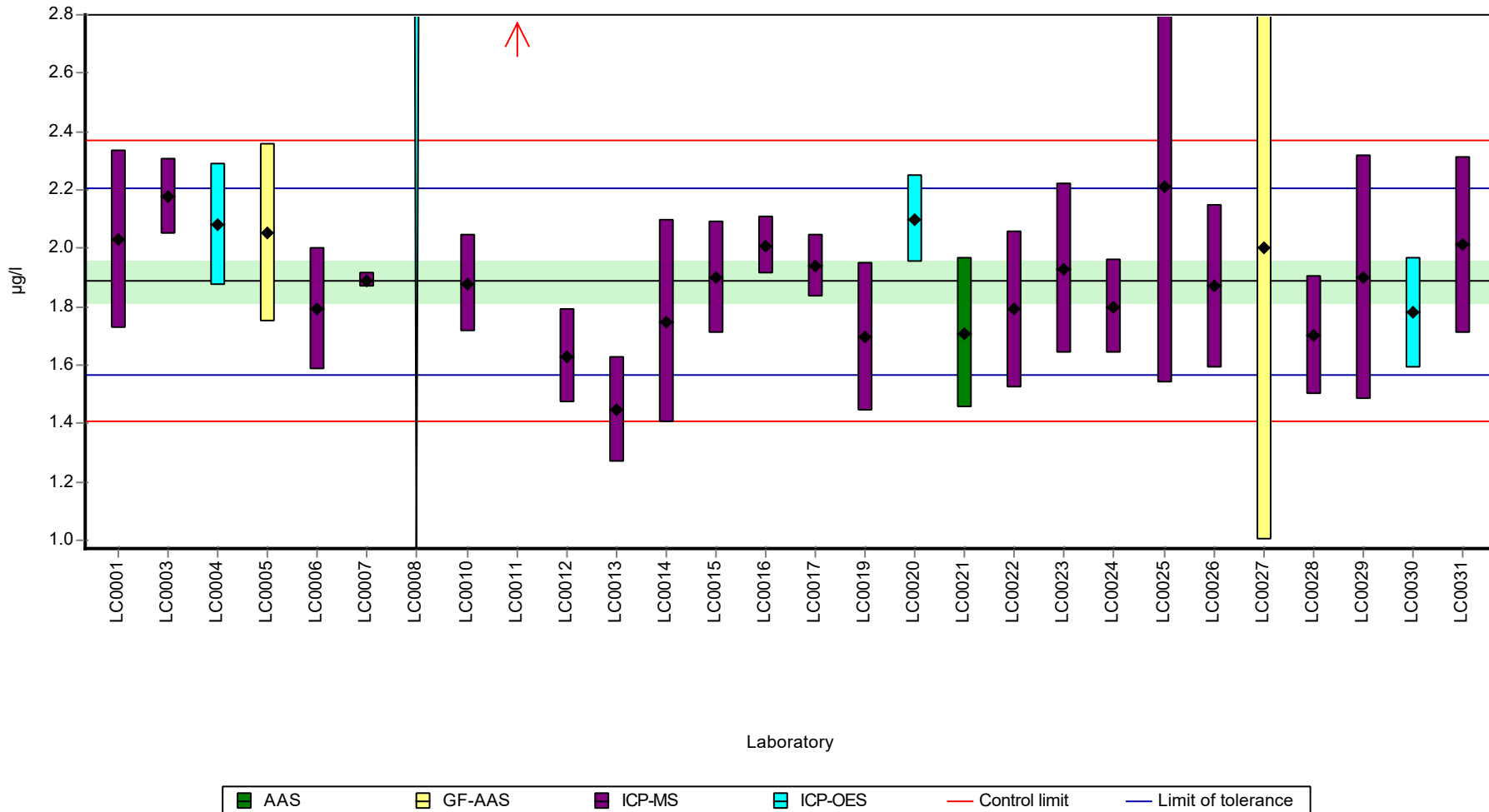
	all results	without outliers	Unit
Mean ± CI (99%)	1.93 ± 0.162	1.89 ± 0.104	µg/l
Minimum	1.45	1.45	µg/l
Maximum	3.03	2.21	µg/l
Standard deviation	0.28	0.178	µg/l
rel. standard deviation	14.5	9.41	%
n	27	26	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Chromium

Graphical presentation of results

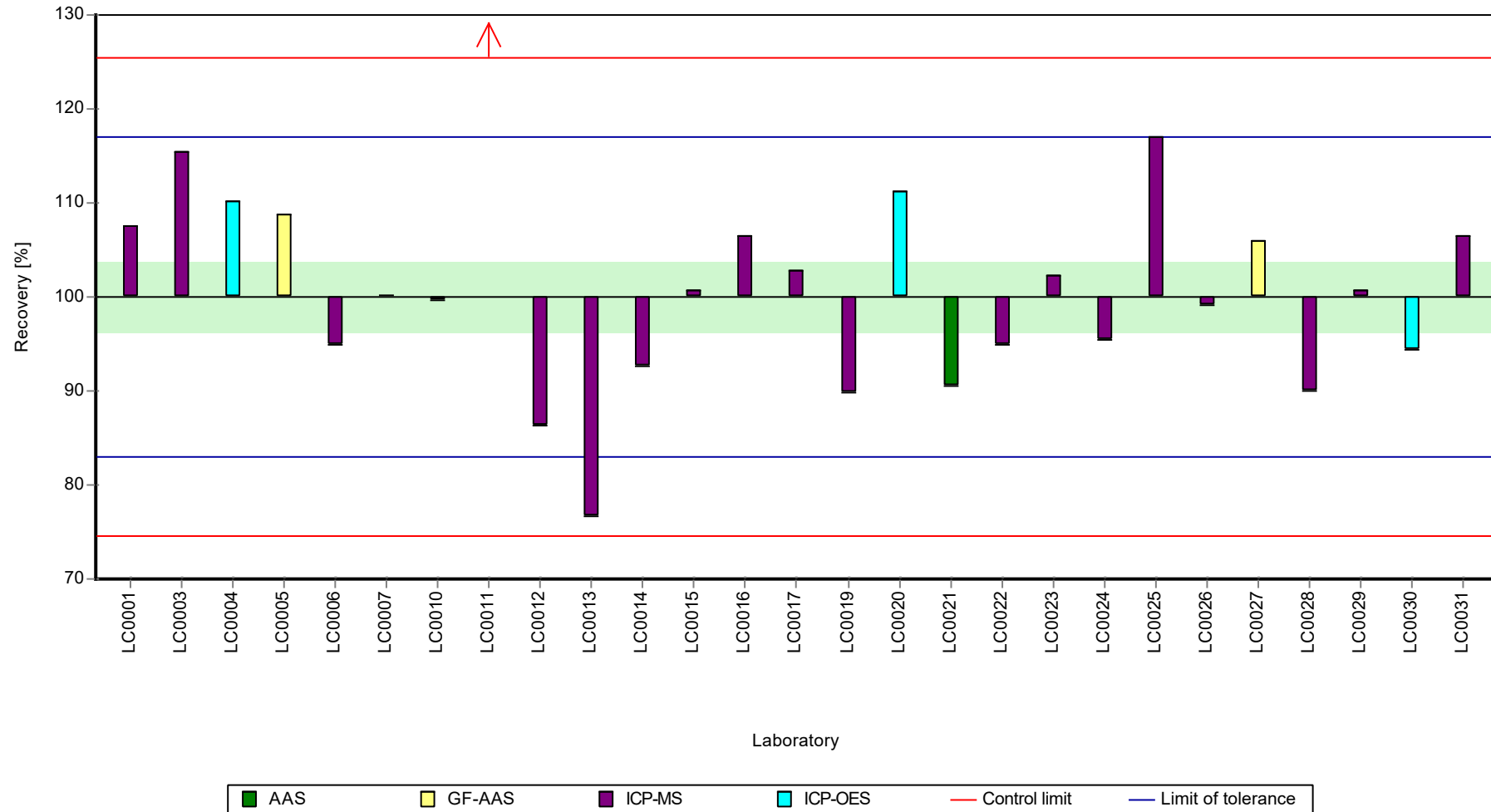
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Chromium

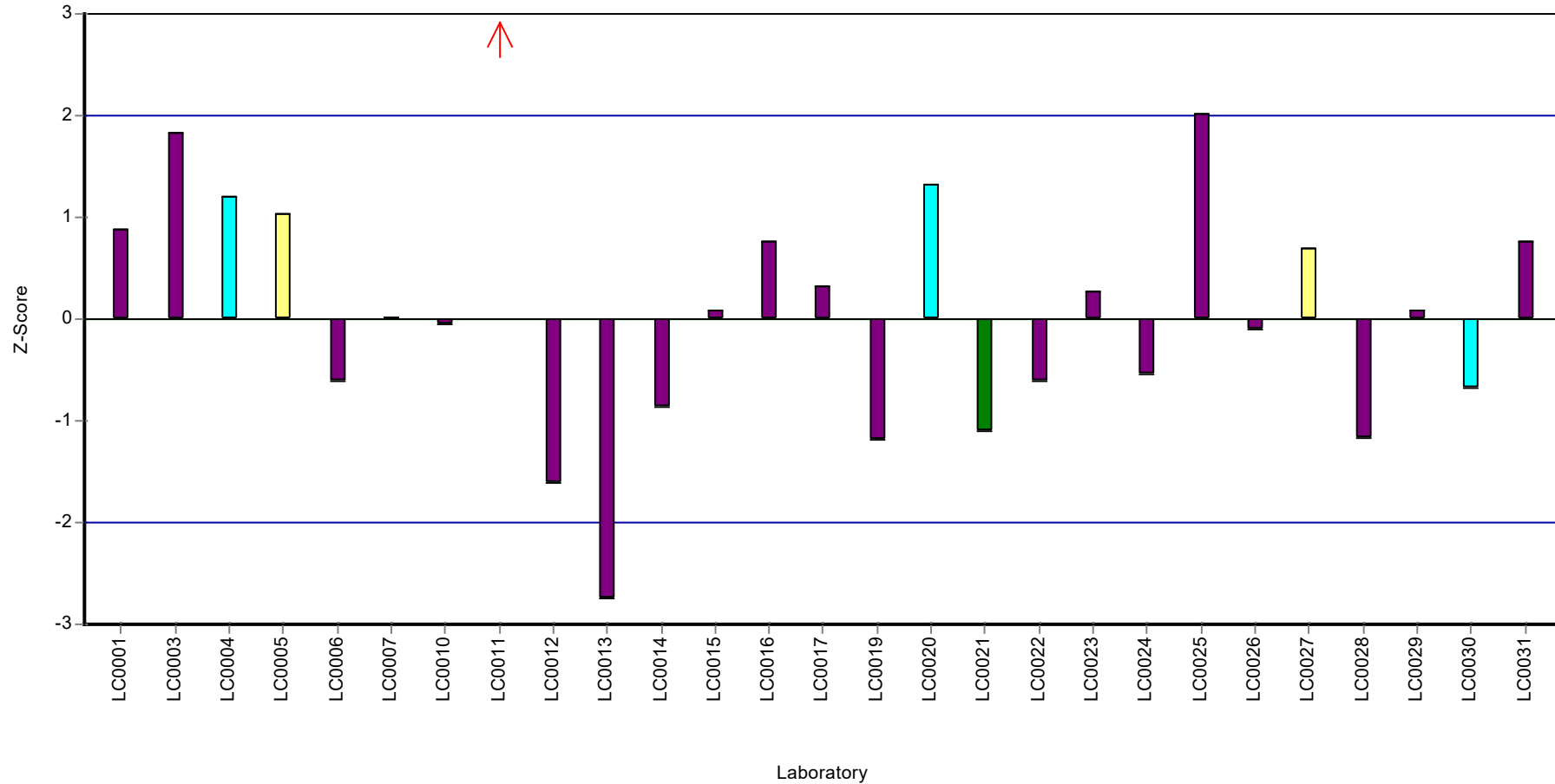
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Chromium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Copper

Parameter oriented report

M170 A

Copper

Unit	µg/l
Assigned value ± U (k=2)	9.74 ± 0.205
Criterion	0.876 (9 %)
Minimum - Maximum	8.34 - 10.6
Control test value ± U (k=2)	9.99 ± 0.899

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9.64	1.446	99	-0.11	
LC0002	10	1	103	0.3	
LC0003	9.8	0.25	101	0.07	
LC0004	9.35	0.87	96	-0.44	
LC0005	12.077	1.812	124	2.67	H
LC0006	10.03	0.778	103	0.33	
LC0007	10	0.058	103	0.3	
LC0008	10.07	1.49741	103	0.38	
LC0009	-	-	-	-	
LC0010	9.09	1.18	93.4	-0.74	
LC0011	9.15	0.146	94	-0.67	
LC0012	8.34	0.83	85.6	-1.59	
LC0013	10.63	0.904	109	1.02	
LC0014	9.43	1.9	96.8	-0.35	
LC0015	9.7	0.97	99.6	-0.04	
LC0016	10.37	0.71	106	0.72	
LC0017	9.85	0.4	101	0.13	
LC0018	10.5	2.1	108	0.87	
LC0019	8.803	1.761	90.4	-1.07	
LC0020	10.3	0.139	106	0.64	
LC0021	9.78	1.47	100	0.05	
LC0022	10	1.2	103	0.3	
LC0023	9.61	1.44	98.7	-0.15	
LC0024	9.17	0.55	94.2	-0.65	
LC0025	10.6	2.7	109	0.98	
LC0026	10.1	1.51	104	0.41	
LC0027	9	1	92.4	-0.84	
LC0028	9.6	0.768	98.6	-0.16	
LC0029	9.326	1.026	95.8	-0.47	
LC0030	10.2	1	105	0.53	
LC0031	9.943	1.491	102	0.23	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Copper

Characteristics of parameter

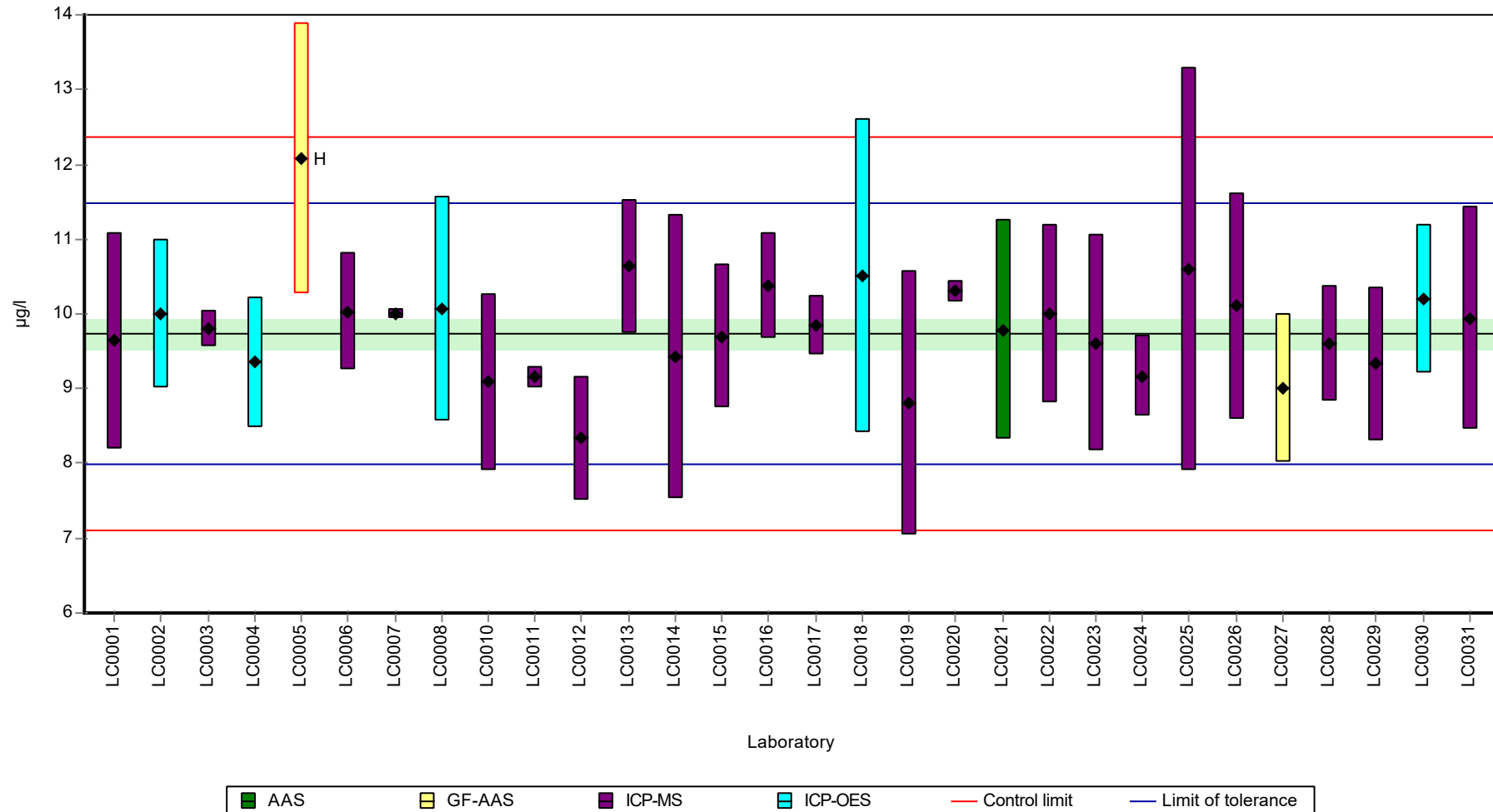
	all results	without outliers	Unit
Mean ± CI (99%)	9.82 ± 0.379	9.74 ± 0.308	µg/l
Minimum	8.34	8.34	µg/l
Maximum	12.1	10.6	µg/l
Standard deviation	0.691	0.553	µg/l
rel. standard deviation	7.04	5.68	%
n	30	29	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Copper

Graphical presentation of results

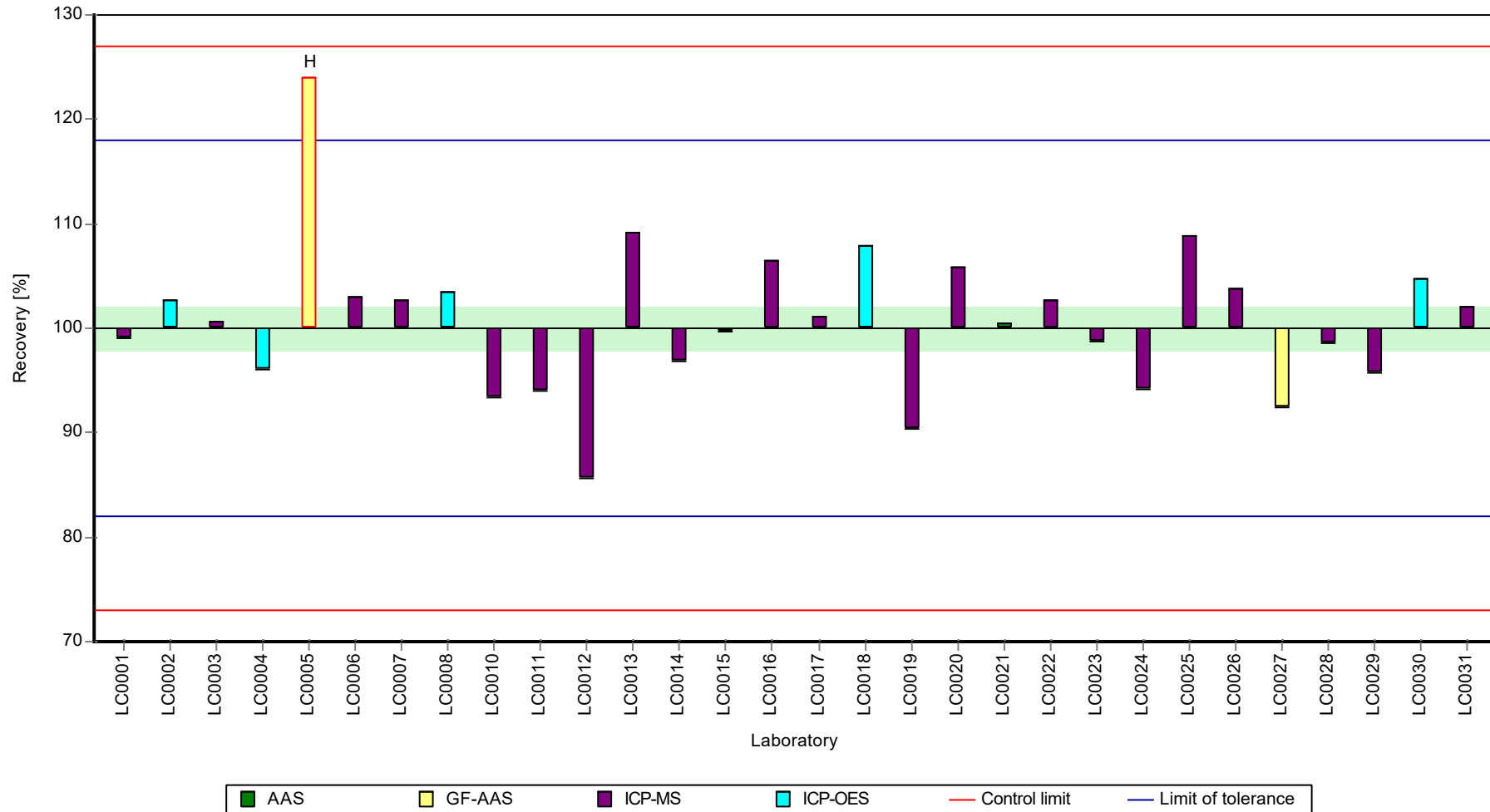
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Copper

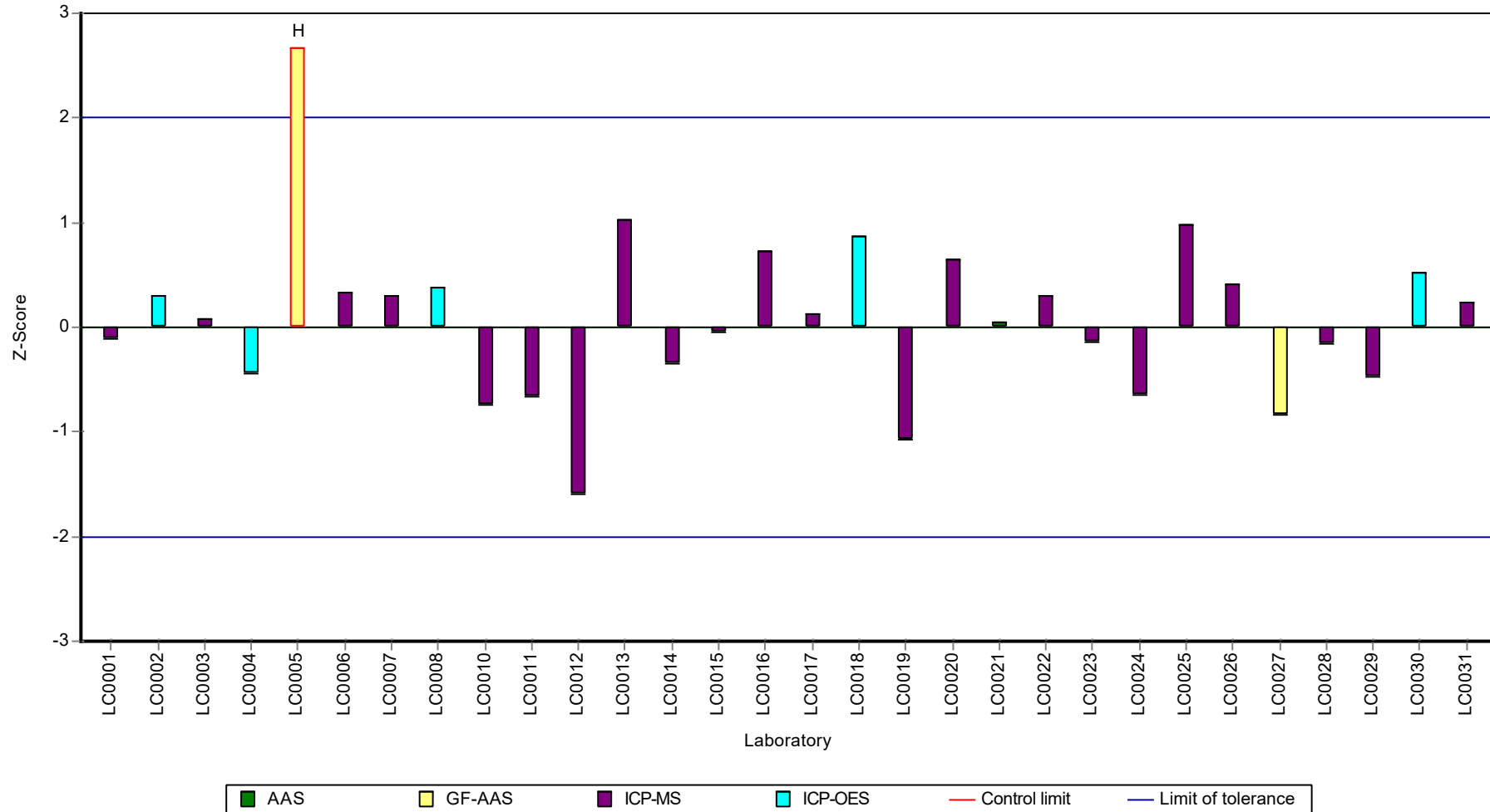
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Copper

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Copper

Parameter oriented report

M170 B

Copper

Unit	µg/l
Assigned value ± U (k=2)	14.8 ± 0.283
Criterion	1.34 (9 %)
Minimum - Maximum	13 - 16.2
Control test value ± U (k=2)	15.4 ± 1.39

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	14.5	2.175	97.7	-0.25	
LC0002	14.8	1.7	99.8	-0.03	
LC0003	14.7	0.37	99.1	-0.1	
LC0004	15.5	1.44	104	0.5	
LC0005	17.459	2.619	118	1.97	H
LC0006	15.74	1.22	106	0.68	
LC0007	15.1	0.091	102	0.2	
LC0008	14.33	2.13087	96.6	-0.38	
LC0009	-	-	-	-	
LC0010	13.9	1.81	93.7	-0.7	
LC0011	15	0.262	101	0.12	
LC0012	13.6	1.4	91.7	-0.92	
LC0013	16.18	1.38	109	1.01	
LC0014	14.5	2.9	97.7	-0.25	
LC0015	14.9	1.49	100	0.05	
LC0016	15.74	1.07	106	0.68	
LC0017	14.41	0.63	97.1	-0.32	
LC0018	15.4	3.4	104	0.42	
LC0019	13.305	2.661	89.7	-1.15	
LC0020	15.5	0.226	104	0.5	
LC0021	15.3	2.3	103	0.35	
LC0022	15	1.8	101	0.12	
LC0023	14.5	2.17	97.7	-0.25	
LC0024	14.4	0.86	97.1	-0.33	
LC0025	15.9	4	107	0.8	
LC0026	15.7	2.36	106	0.65	
LC0027	13	2	87.6	-1.37	
LC0028	14.6	1.168	98.4	-0.18	
LC0029	14.61	1.461	98.5	-0.17	
LC0030	15.2	1.5	102	0.27	
LC0031	14.88	1.488	100	0.03	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Copper

Characteristics of parameter

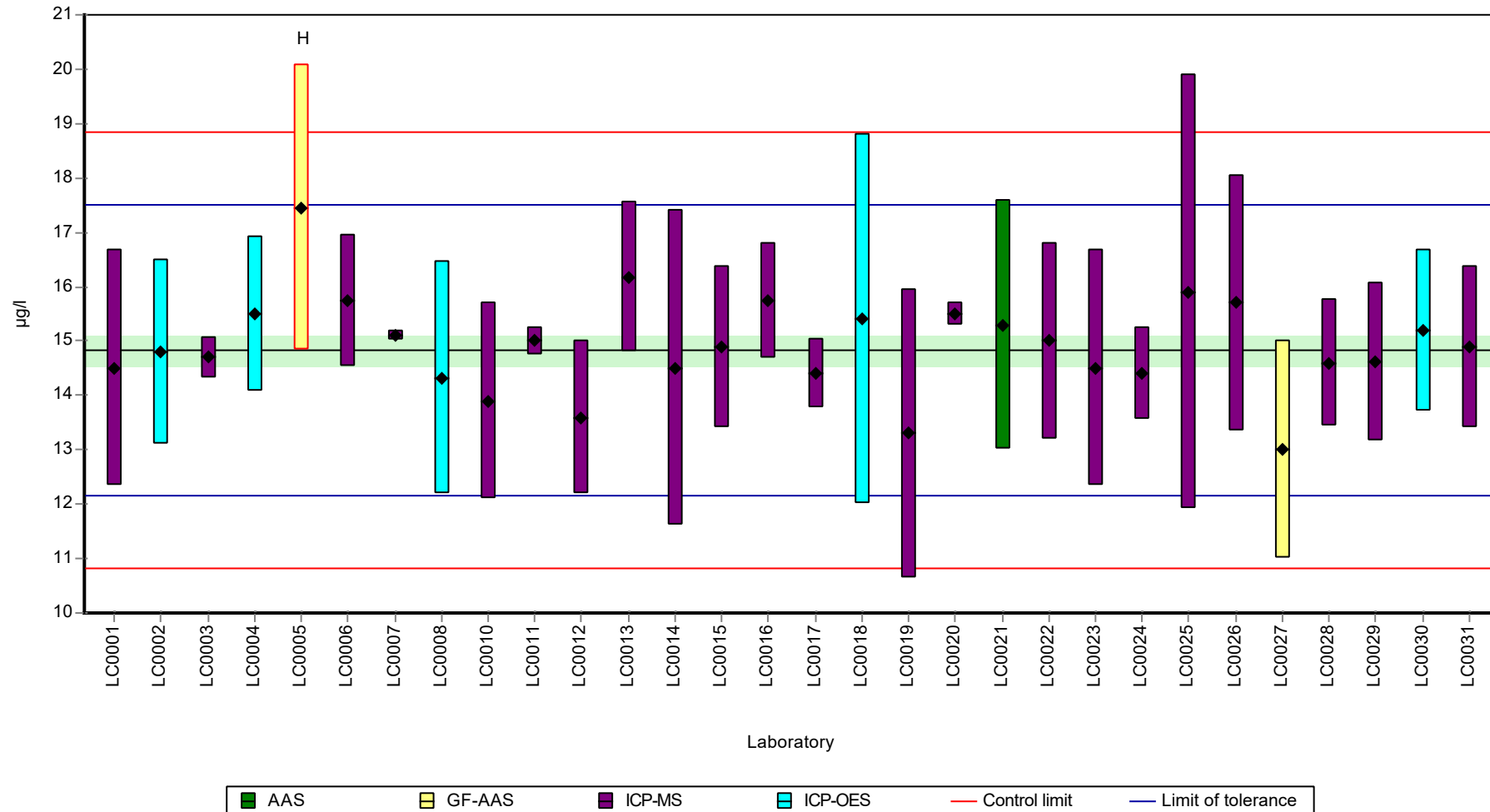
	all results	without outliers	Unit
Mean ± CI (99%)	14.9 ± 0.486	14.8 ± 0.424	µg/l
Minimum	13	13	µg/l
Maximum	17.5	16.2	µg/l
Standard deviation	0.888	0.761	µg/l
rel. standard deviation	5.95	5.13	%
n	30	29	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Copper

Graphical presentation of results

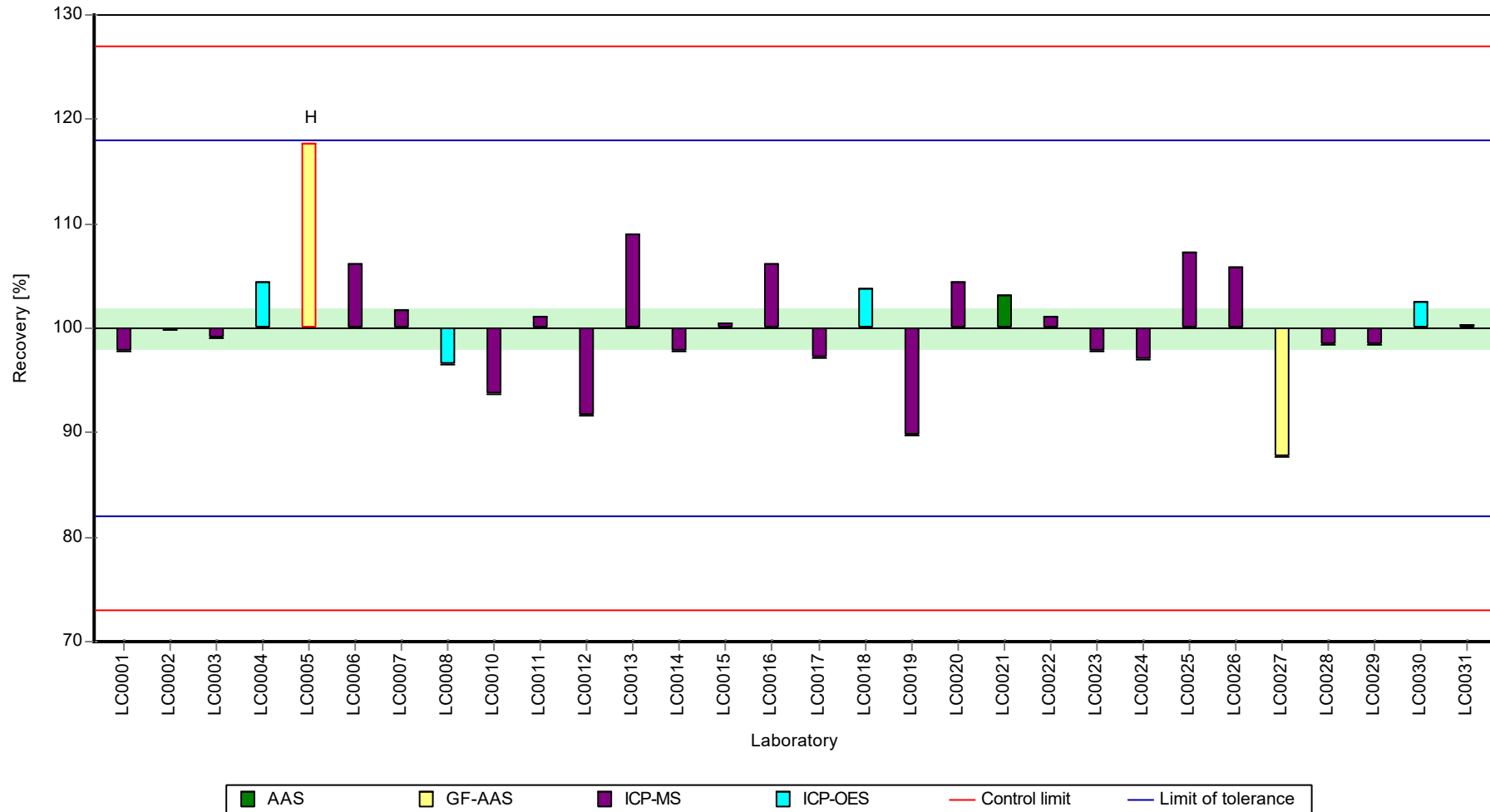
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Copper

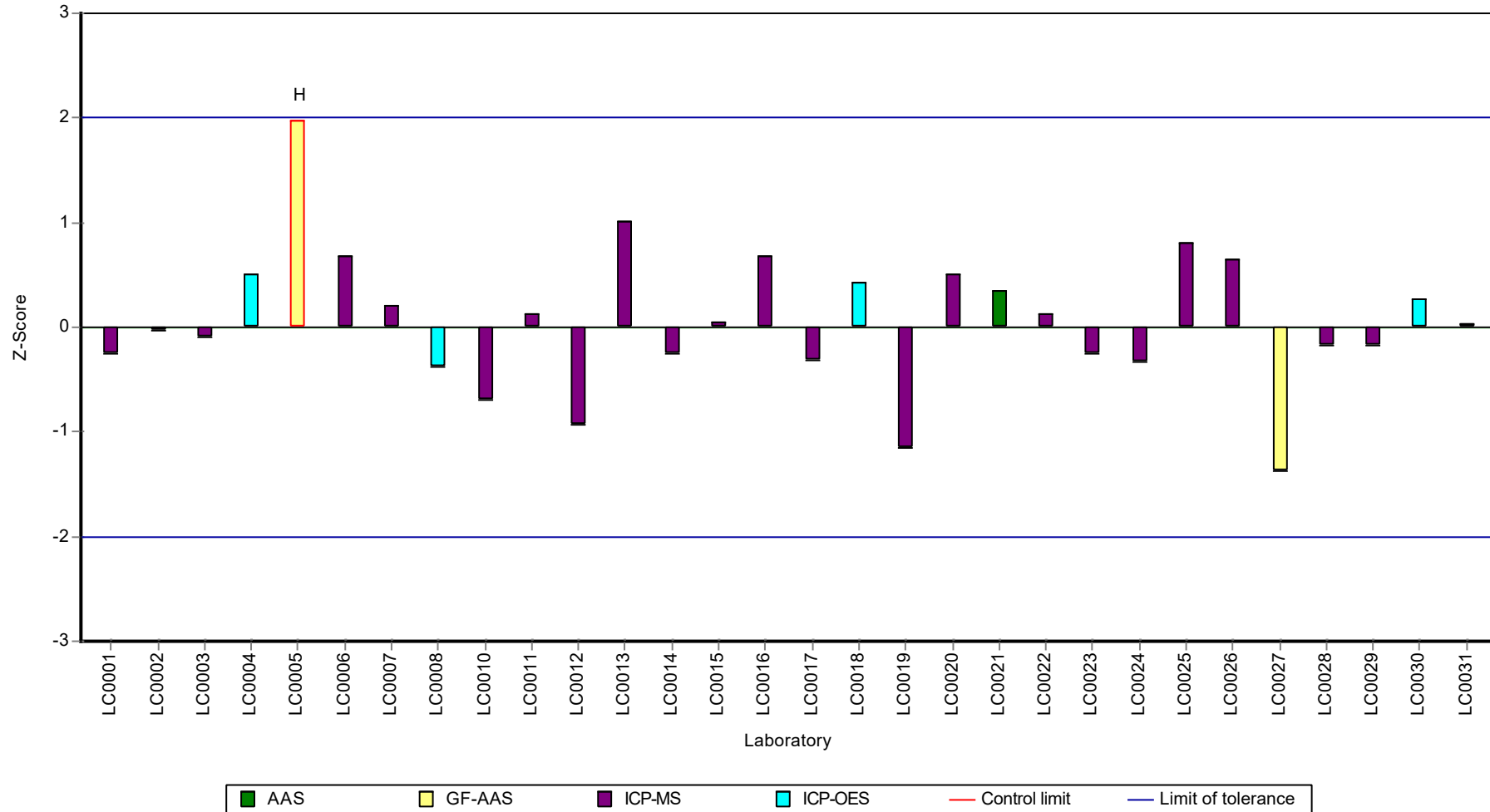
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Copper

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Iron

Parameter oriented report

M170 A

Iron

Unit	µg/l
Assigned value ± U (k=2)	27.1 ± 1.21
Criterion	2.98 (11 %)
Minimum - Maximum	20.7 - 33.1
Control test value ± U (k=2)	24.9 ± 2.99

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	27.2	4.08	100	0.03	
LC0002	23.4	2.8	86.3	-1.24	
LC0003	32.6	2	120	1.84	
LC0004	23.5	1.88	86.7	-1.21	
LC0005	-	-	-	-	
LC0006	28.71	1.91	106	0.54	
LC0007	27.7	0.436	102	0.2	
LC0008	20.69	2.81591	76.3	-2.15	
LC0009	-	-	-	-	
LC0010	28.8	3.17	106	0.57	
LC0011	16.03	0.192	59.1	-3.71	H
LC0012	33.1	3.3	122	2.01	
LC0013	29.87	3.73	110	0.93	
LC0014	23.5	4.7	86.7	-1.21	
LC0015	29.2	2.92	108	0.7	
LC0016	29.63	1.45	109	0.85	
LC0017	27.37	1.24	101	0.09	
LC0018	24.8	3.8	91.5	-0.77	
LC0019	24.053	4.811	88.7	-1.02	
LC0020	26.6	0.784	98.1	-0.17	
LC0021	26.4	3.96	97.4	-0.24	
LC0022	26.3	3.9	97	-0.27	
LC0023	29.6	4.44	109	0.84	
LC0024	32.7	1.6	121	1.88	
LC0025	28.5	8.6	105	0.47	
LC0026	25.9	3.88	95.6	-0.4	
LC0027	80	30	295	17.74	H
LC0028	24	6.24	88.5	-1.04	
LC0029	29.02	2.031	107	0.64	
LC0030	23.4	2.5	86.3	-1.24	
LC0031	25.28	3.792	93.3	-0.61	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Iron

Characteristics of parameter

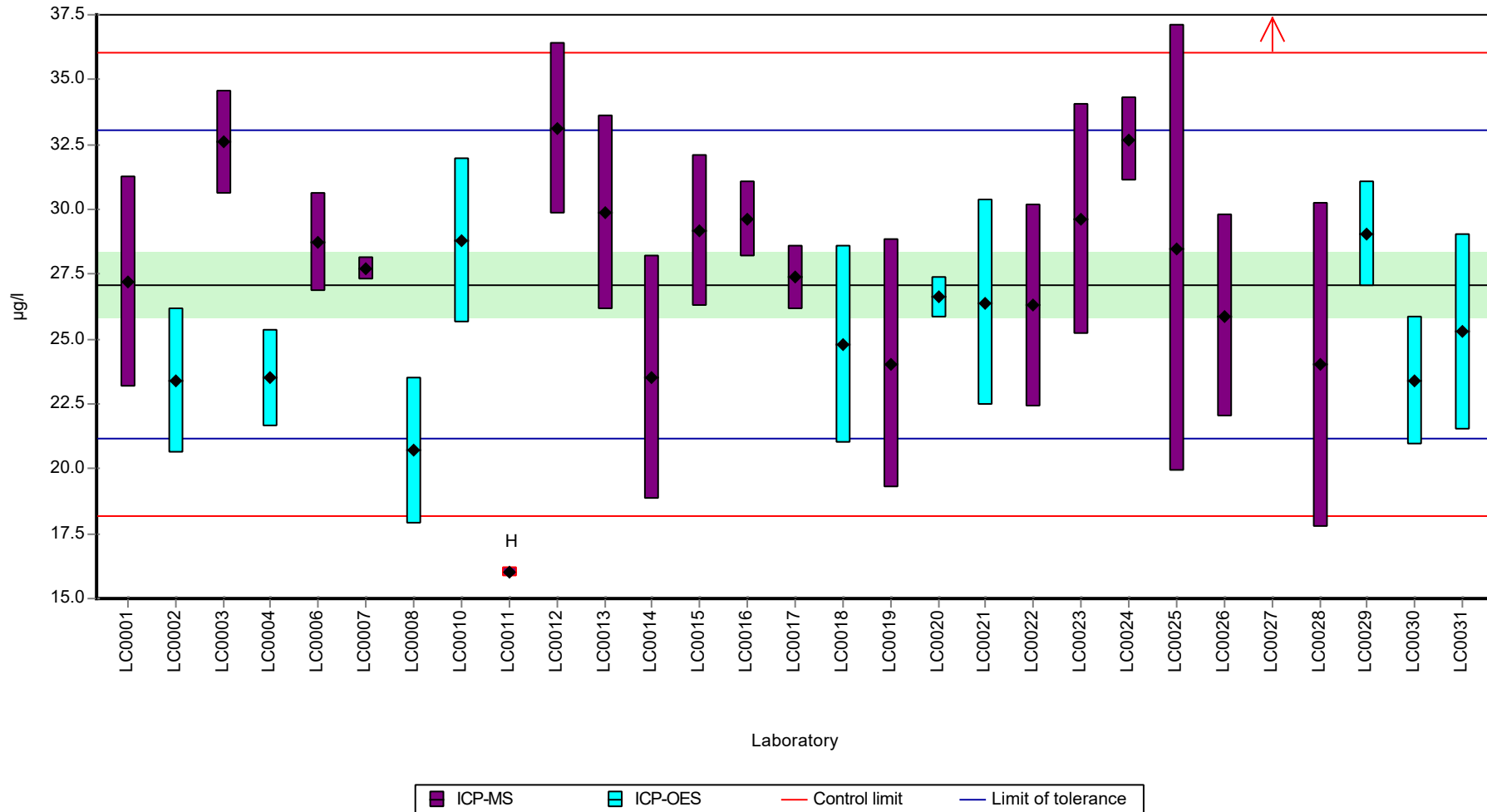
	all results	without outliers	Unit
Mean ± CI (99%)	28.5 ± 5.88	27.1 ± 1.82	µg/l
Minimum	16	20.7	µg/l
Maximum	80	33.1	µg/l
Standard deviation	10.6	3.15	µg/l
rel. standard deviation	37	11.6	%
n	29	27	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Iron

Graphical presentation of results

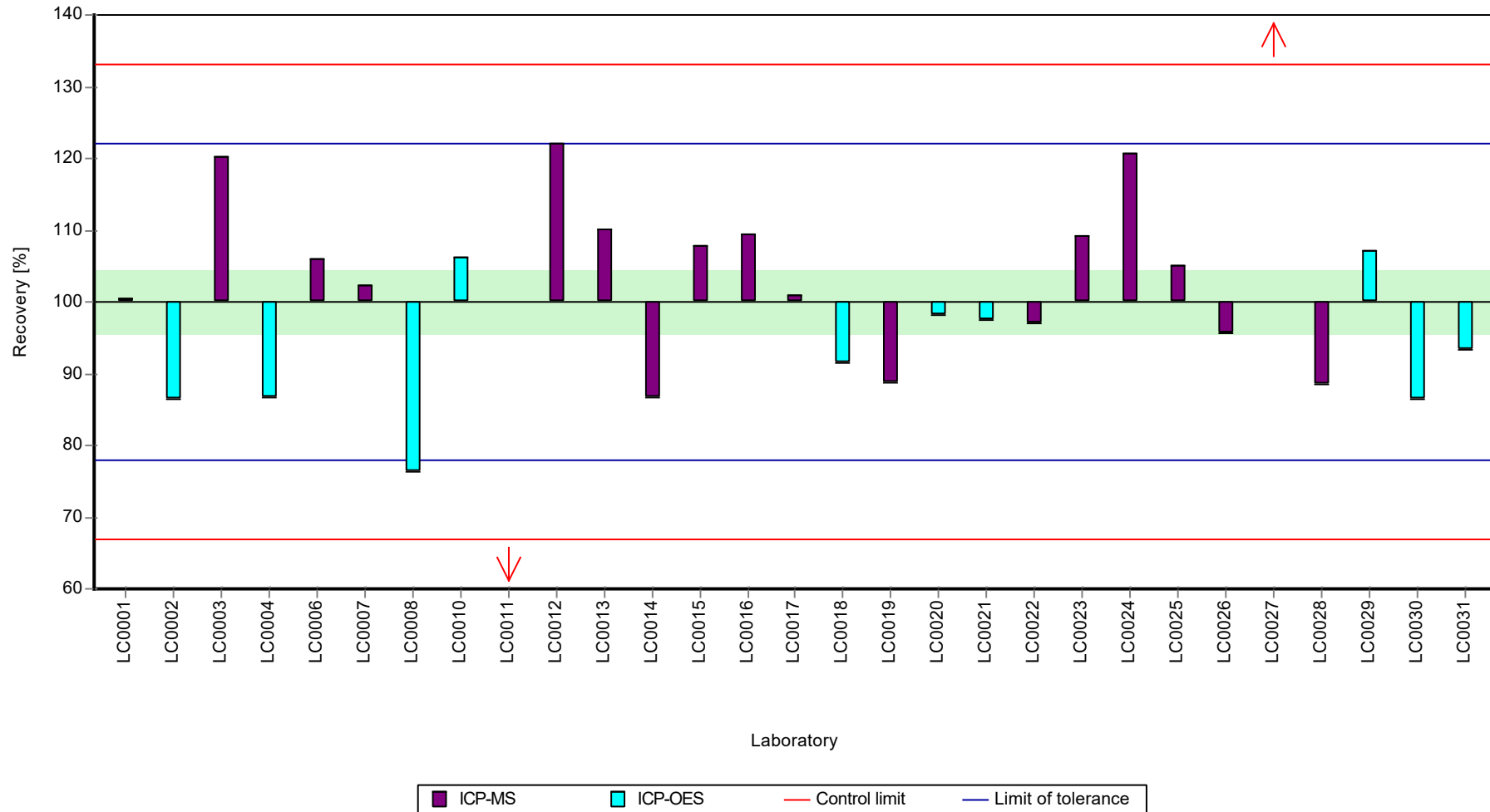
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Iron

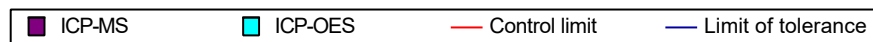
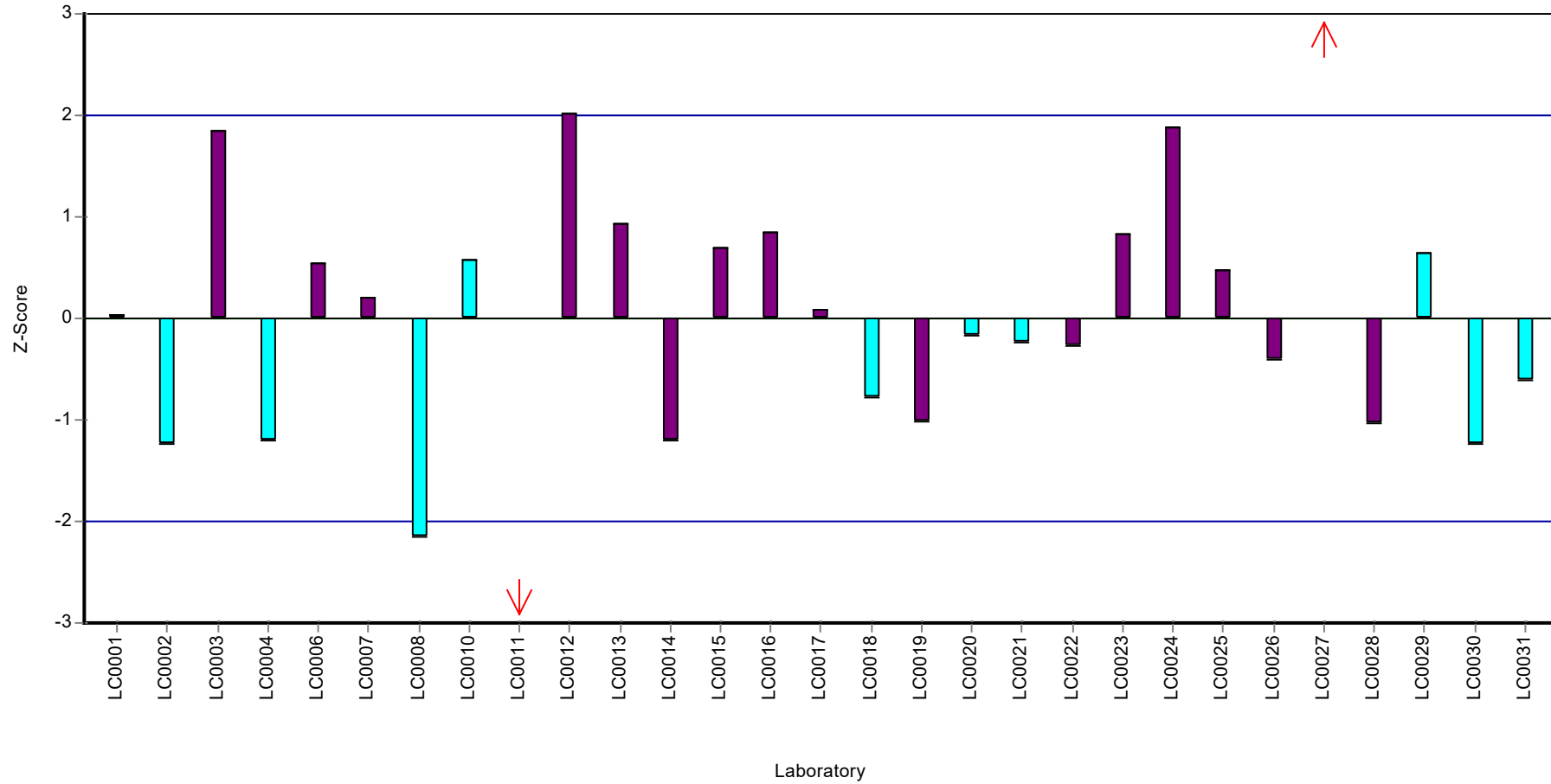
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Iron

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Iron

Parameter oriented report

M170 B

Iron

Unit	µg/l
Assigned value ± U (k=2)	99.3 ± 2.38
Criterion	10.9 (11 %)
Minimum - Maximum	89.8 - 113
Control test value ± U (k=2)	92.6 ± 11.1

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	101.7	15.255	102	0.22	
LC0002	92	11	92.7	-0.66	
LC0003	113	6.8	114	1.26	
LC0004	93.4	7.47	94.1	-0.54	
LC0005	-	-	-	-	
LC0006	107.58	7.15	108	0.76	
LC0007	97.9	1.57	98.6	-0.12	
LC0008	91.19	12.41096	91.9	-0.74	
LC0009	-	-	-	-	
LC0010	99.2	10.9	99.9	-0.01	
LC0011	110	1.35	111	0.98	
LC0012	92.4	9.2	93.1	-0.63	
LC0013	109.1	13.6	110	0.9	
LC0014	94	19	94.7	-0.48	
LC0015	103	10.3	104	0.34	
LC0016	99.99	4.91	101	0.07	
LC0017	97.9	7.48	98.6	-0.12	
LC0018	94.85	11.4	95.6	-0.4	
LC0019	89.818	17.964	90.5	-0.86	
LC0020	102	0.881	103	0.25	
LC0021	90.3	13.55	91	-0.82	
LC0022	98.8	15	99.5	-0.04	
LC0023	105	15.7	106	0.53	
LC0024	99.4	5	100	0.01	
LC0025	108	33	109	0.8	
LC0026	97.8	14.7	98.5	-0.13	
LC0027	143	50	144	4.01	H
LC0028	93	24.18	93.7	-0.57	
LC0029	100.1	14.02	101	0.08	
LC0030	100	10	101	0.07	
LC0031	97.769	6.843	98.5	-0.14	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Iron

Characteristics of parameter

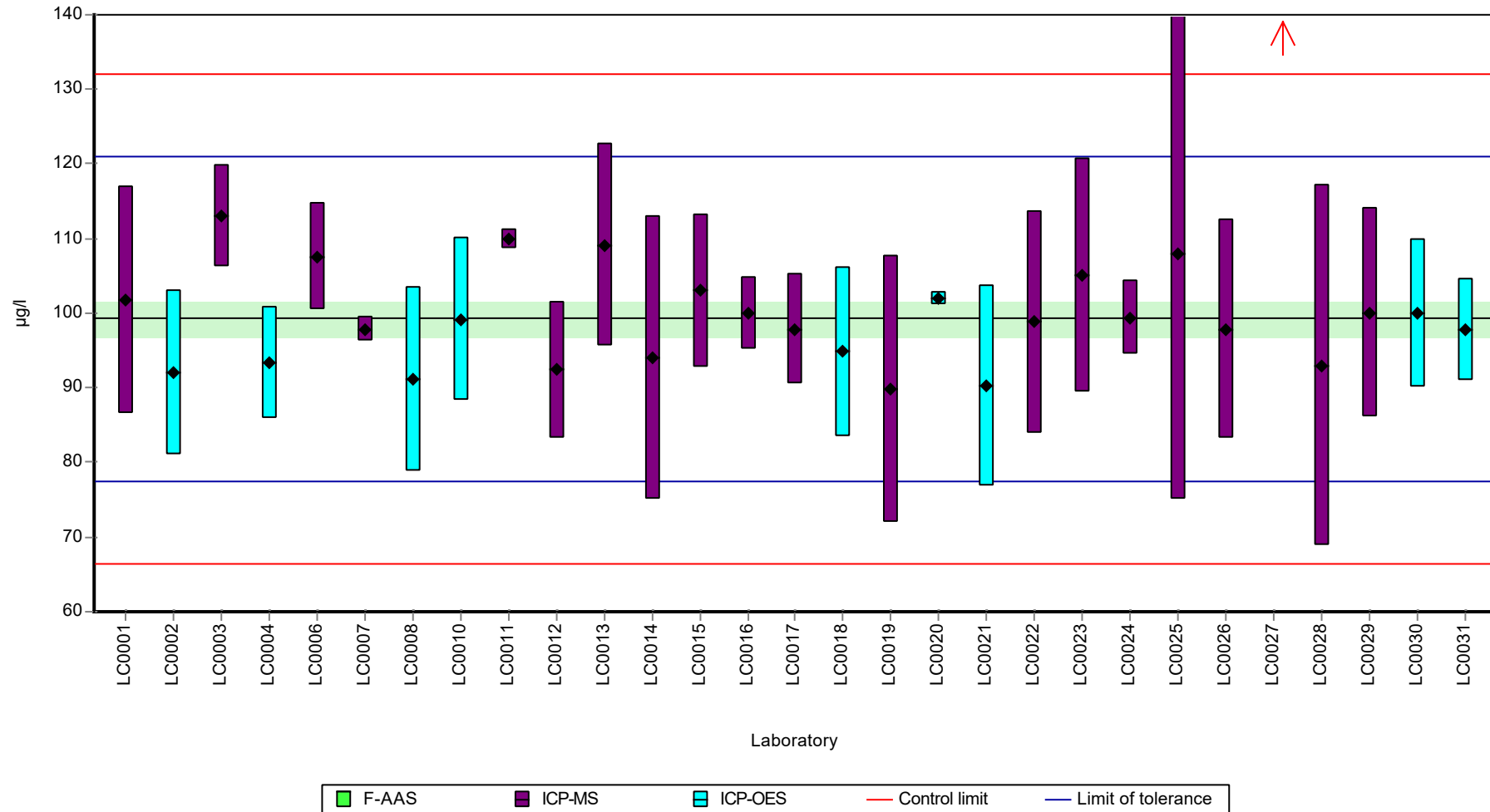
	all results	without outliers	Unit
Mean ± CI (99%)	101 ± 5.69	99.3 ± 3.57	µg/l
Minimum	89.8	89.8	µg/l
Maximum	143	113	µg/l
Standard deviation	10.2	6.3	µg/l
rel. standard deviation	10.1	6.35	%
n	29	28	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Iron

Graphical presentation of results

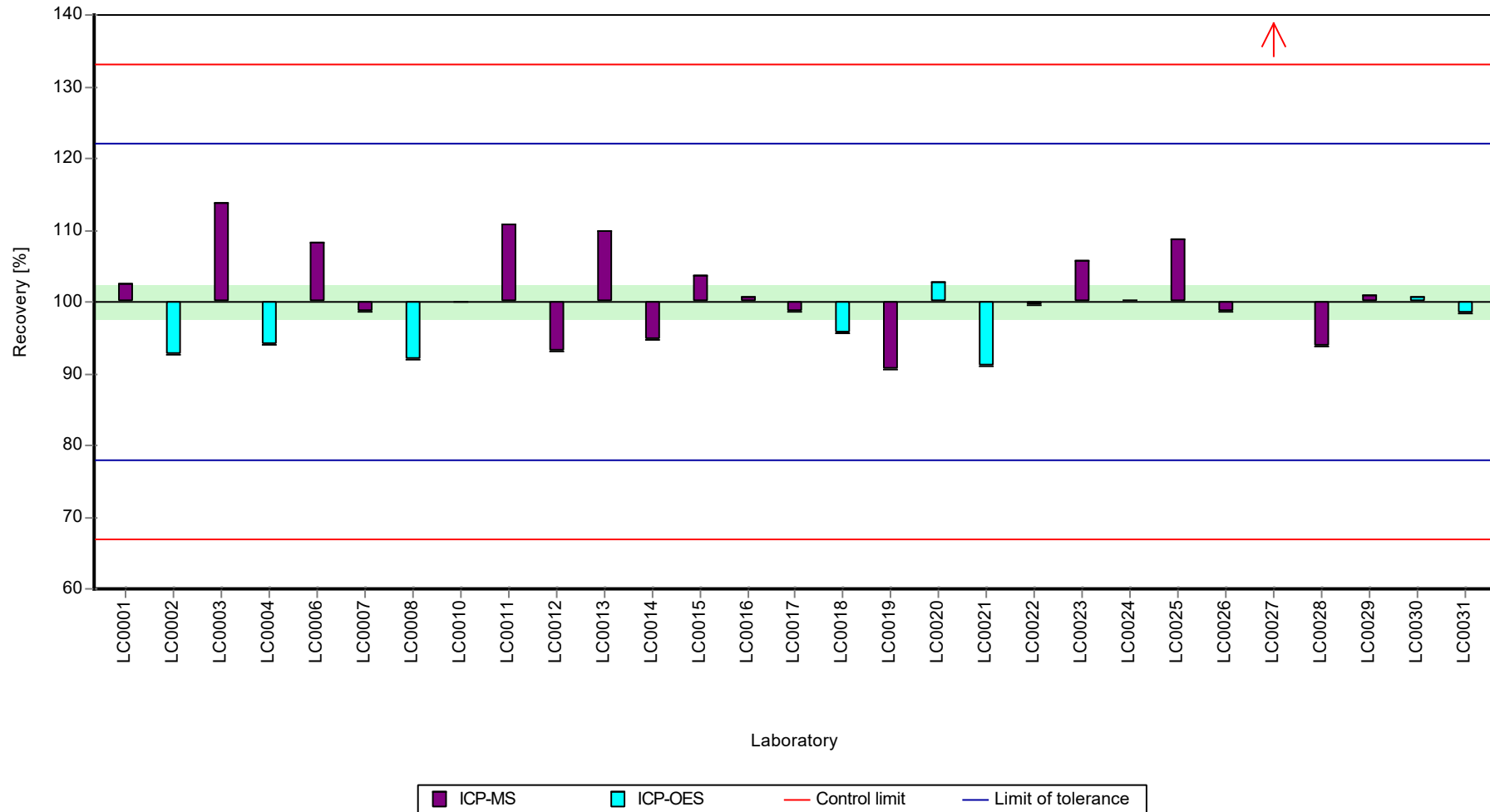
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Iron

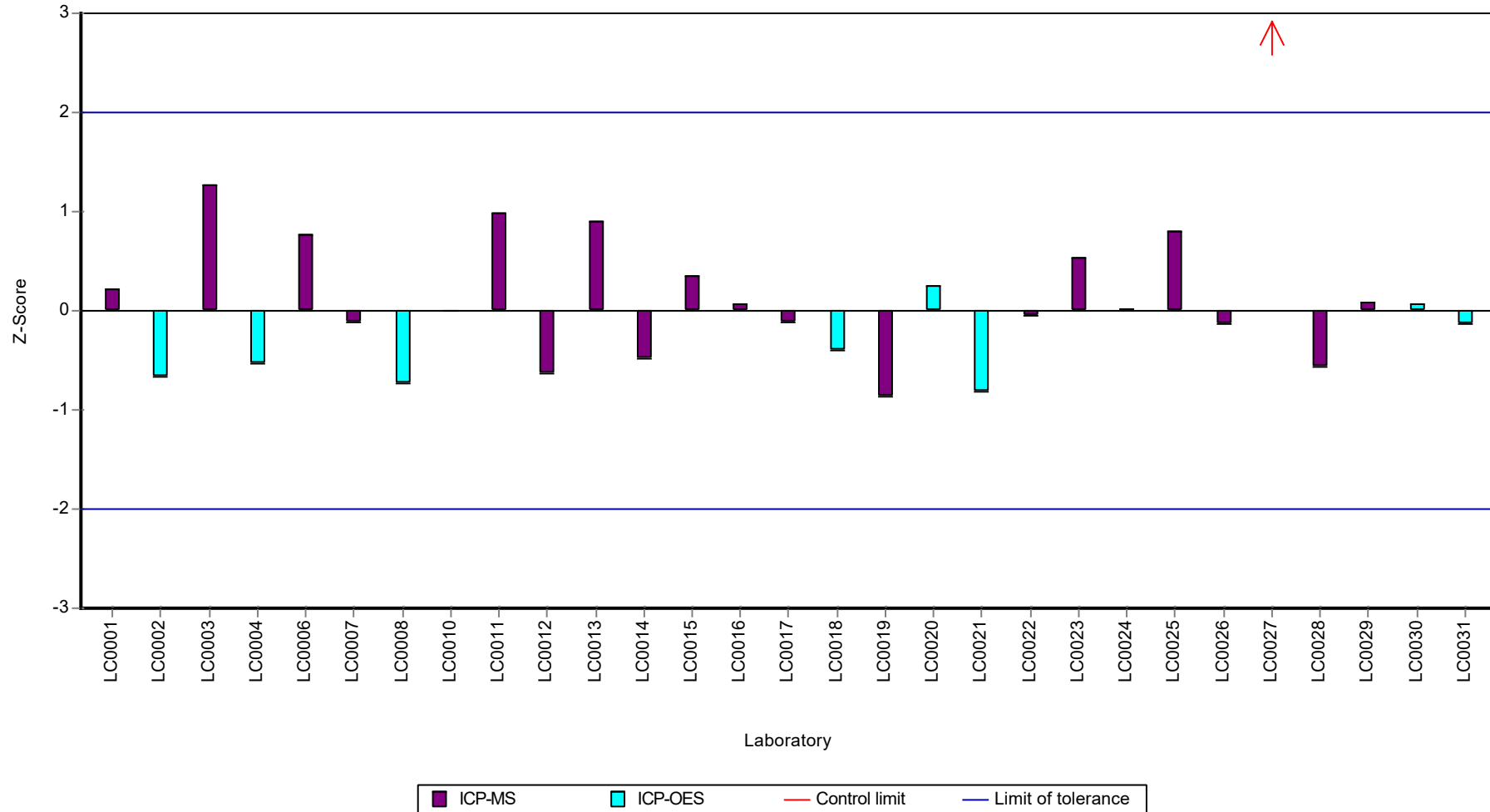
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Iron

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Lead

Parameter oriented report

M170 A

Lead

Unit	µg/l
Assigned value ± U (k=2)	1.22 ± 0.0465
Criterion	0.183 (15 %)
Minimum - Maximum	0.998 - 1.49
Control test value ± U (k=2)	1.19 ± 0.155

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.15	0.23	94.2	-0.39	
LC0002	-	-	-	-	
LC0003	1.27	0.076	104	0.27	
LC0004	< 3 (LOQ)	-	-	-	
LC0005	0.803	0.12	65.8	-2.28	H
LC0006	1.176	0.147	96.3	-0.25	
LC0007	1.4	0.026	115	0.98	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	1.17	0.234	95.8	-0.28	
LC0011	1.49	0.0039	122	1.47	
LC0012	0.998	0.1	81.7	-1.22	
LC0013	1.142	0.143	93.5	-0.43	
LC0014	1.2	0.24	98.3	-0.11	
LC0015	1.2	0.12	98.3	-0.11	
LC0016	1.15	0.04	94.2	-0.39	
LC0017	1.07	0.06	87.6	-0.82	
LC0018	-	-	-	-	
LC0019	1.176	0.176	96.3	-0.25	
LC0020	1.38	0.0365	113	0.87	
LC0021	1.63	0.25	134	2.23	H
LC0022	1.32	0.16	108	0.54	
LC0023	1.13	0.17	92.6	-0.5	
LC0024	1.12	0.1	91.7	-0.55	
LC0025	1.32	0.33	108	0.54	
LC0026	1.22	0.183	99.9	0.00	
LC0027	2	1	164	4.25	H
LC0028	1.3	0.104	106	0.43	
LC0029	1.216	0.1094	99.6	-0.03	
LC0030	1.25	0.14	102	0.16	
LC0031	1.232	0.185	101	0.06	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Lead

Characteristics of parameter

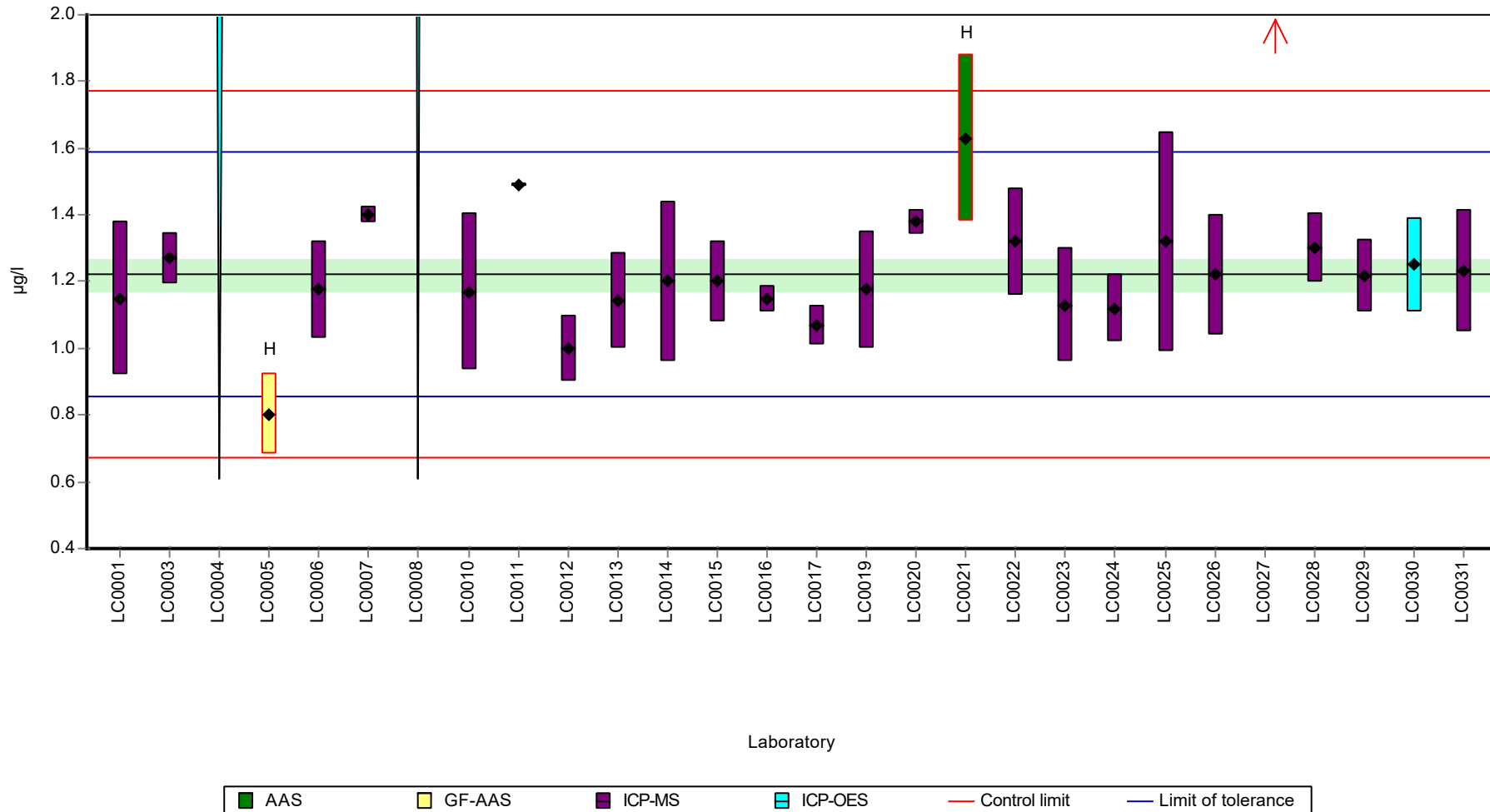
	all results	without outliers	Unit
Mean ± CI (99%)	1.25 ± 0.129	1.22 ± 0.0698	µg/l
Minimum	0.803	0.998	µg/l
Maximum	2	1.49	µg/l
Standard deviation	0.219	0.112	µg/l
rel. standard deviation	17.5	9.14	%
n	26	23	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Lead

Graphical presentation of results

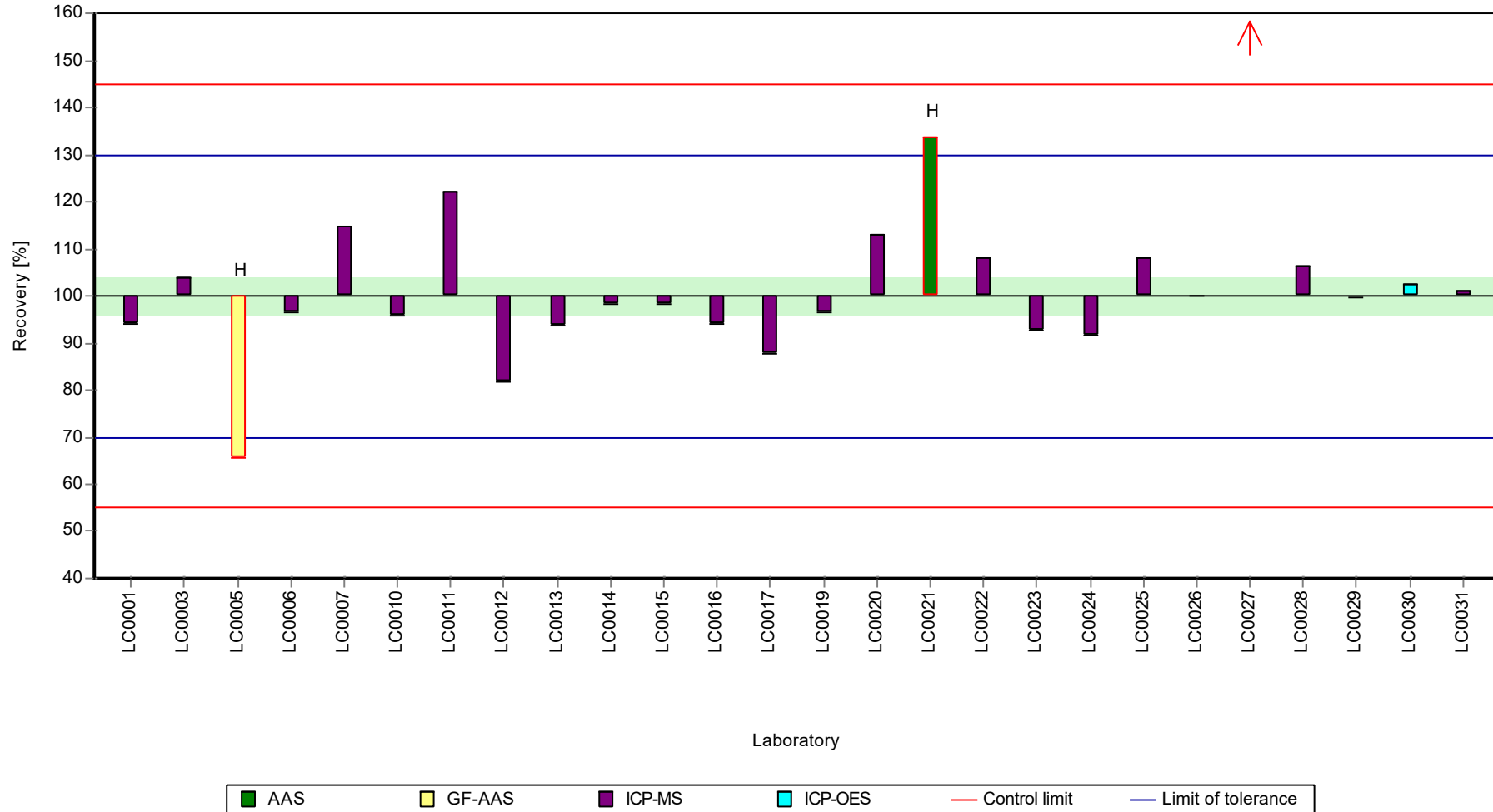
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Lead

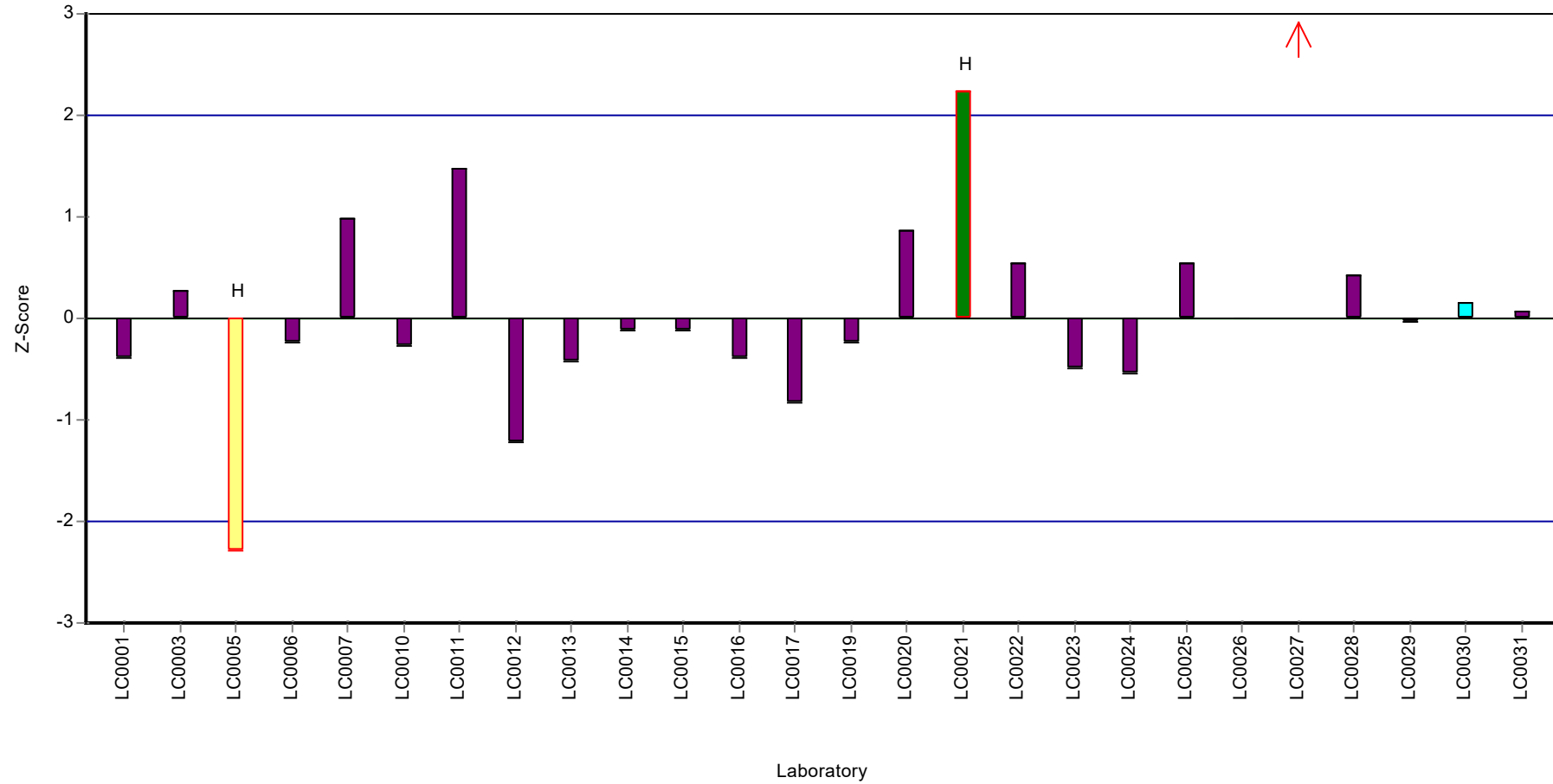
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Lead

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Lead

Parameter oriented report

M170 B

Lead

Unit	µg/l
Assigned value ± U (k=2)	3.92 ± 0.0984
Criterion	0.588 (15 %)
Minimum - Maximum	3.4 - 4.56
Control test value ± U (k=2)	3.99 ± 0.519

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.78	0.756	96.4	-0.24	
LC0002	-	-	-	-	
LC0003	4.11	0.25	105	0.32	
LC0004	4.69	0.47	120	1.31	H
LC0005	5.358	0.804	137	2.44	H
LC0006	3.767	0.4701	96.1	-0.26	
LC0007	4.23	0.026	108	0.52	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	3.84	0.769	97.9	-0.14	
LC0011	3.99	0.254	102	0.12	
LC0012	3.62	0.36	92.3	-0.51	
LC0013	3.4	0.425	86.7	-0.89	
LC0014	3.9	0.78	99.5	-0.04	
LC0015	3.9	0.39	99.5	-0.04	
LC0016	4.07	0.16	104	0.25	
LC0017	3.52	0.1	89.8	-0.68	
LC0018	-	-	-	-	
LC0019	3.679	0.552	93.8	-0.41	
LC0020	4.05	0.0323	103	0.22	
LC0021	4.56	0.68	116	1.09	
LC0022	4.03	0.48	103	0.18	
LC0023	3.74	0.56	95.4	-0.31	
LC0024	3.7	0.33	94.4	-0.38	
LC0025	4.17	1.1	106	0.42	
LC0026	3.98	0.597	101	0.1	
LC0027	4	1	102	0.13	
LC0028	4.1	0.328	105	0.3	
LC0029	3.935	0.9052	100	0.02	
LC0030	4.11	0.48	105	0.32	
LC0031	3.853	0.578	98.3	-0.12	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Lead

Characteristics of parameter

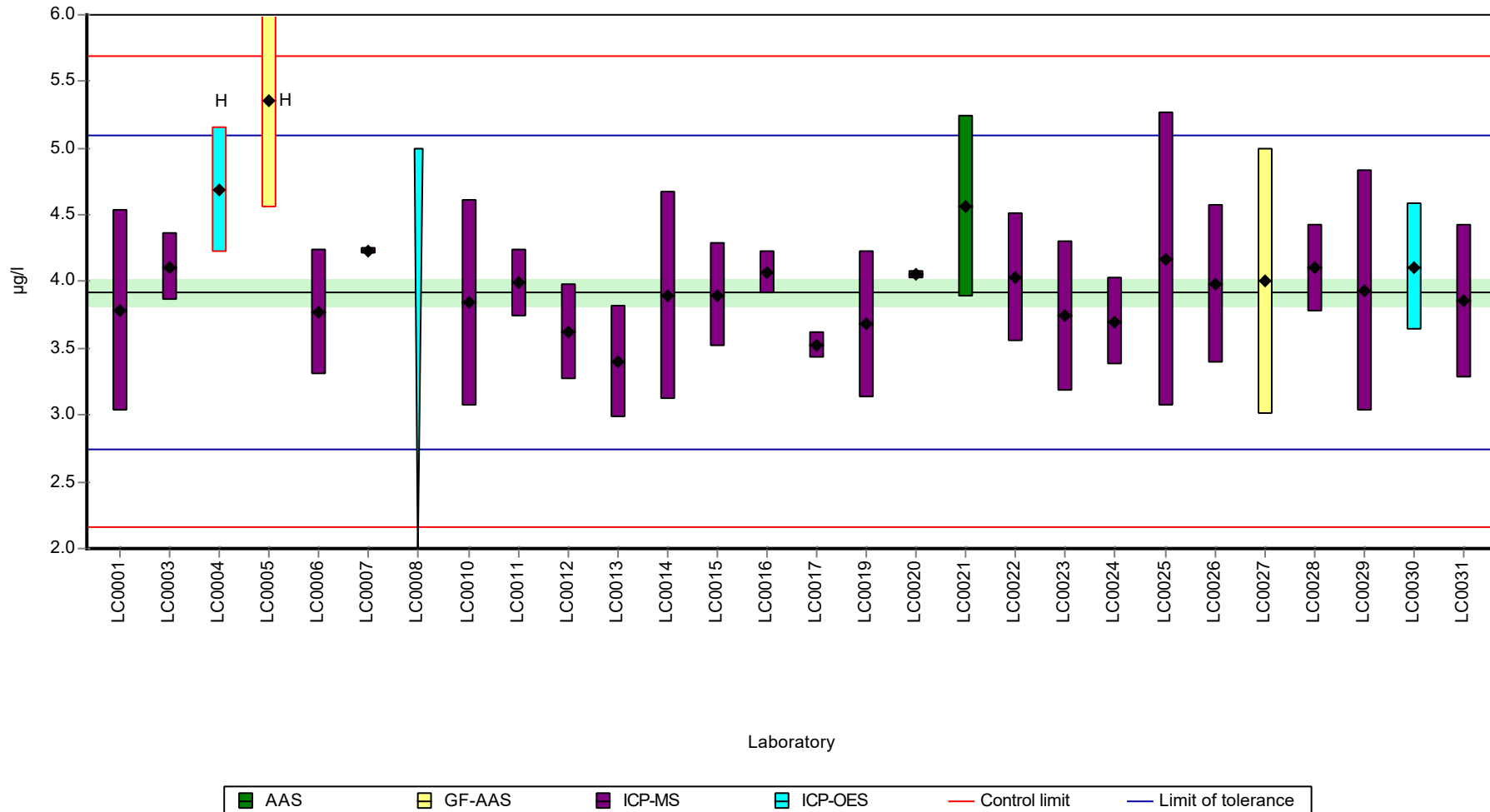
	all results	w ithout outliers	Unit
Mean ± CI (99%)	4 ± 0.224	3.92 ± 0.148	µg/l
Minimum	3.4	3.4	µg/l
Maximum	5.36	4.56	µg/l
Standard deviation	0.389	0.246	µg/l
rel. standard deviation	9.71	6.28	%
n	27	25	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Lead

Graphical presentation of results

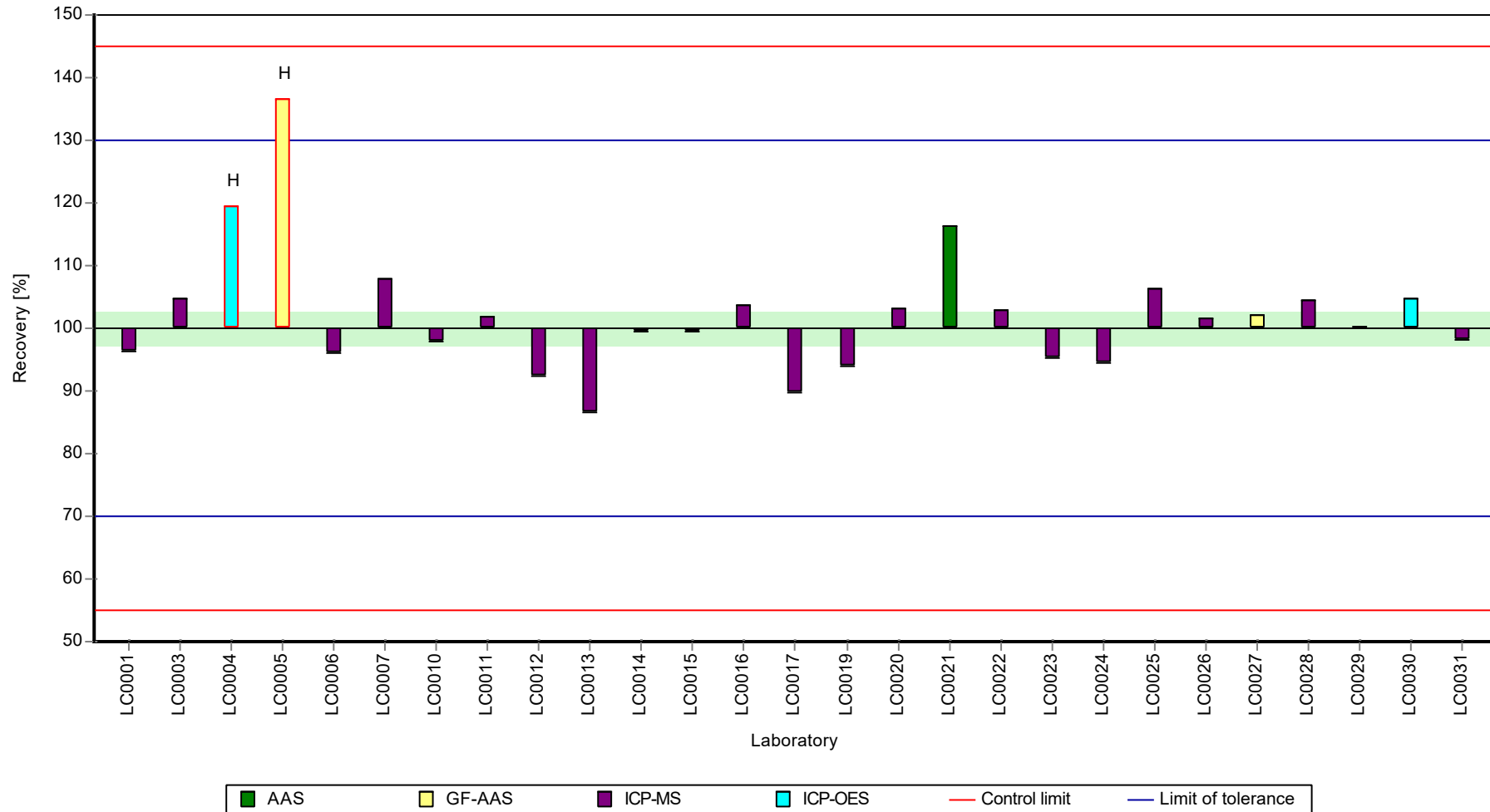
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Lead

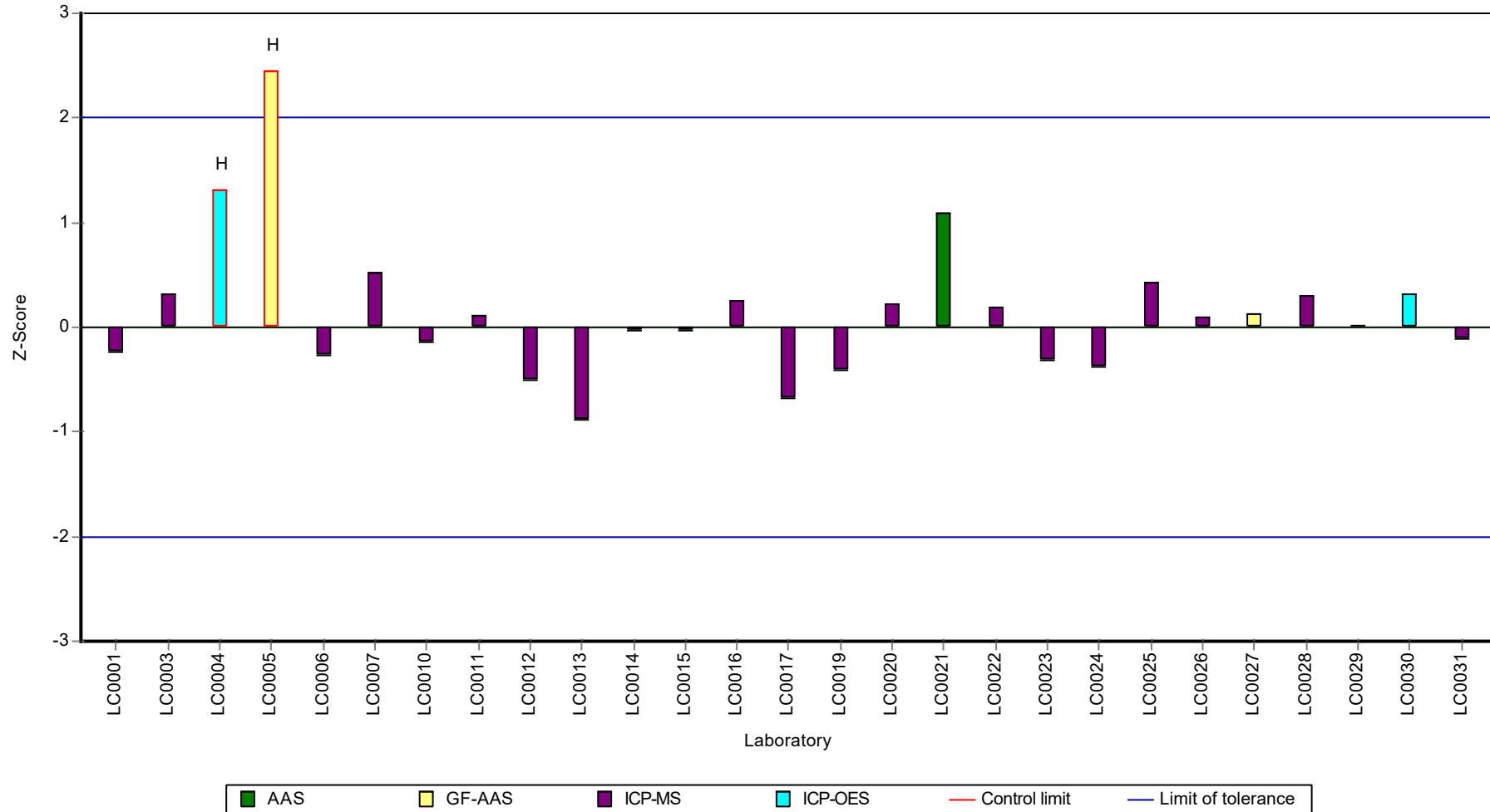
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Lead

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Manganese

Parameter oriented report

M170 A

Manganese

Unit	µg/l
Assigned value ± U (k=2)	17.3 ± 0.596
Criterion	1.24 (7.2 %)
Minimum - Maximum	14.9 - 21
Control test value ± U (k=2)	18.1 ± 1.63

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	17.4	2.61	101	0.09	
LC0002	15.6	2.5	90.2	-1.36	
LC0003	19.2	0.96	111	1.53	
LC0004	15.4	1.65	89.1	-1.52	
LC0005	14.868	2.23	86	-1.95	
LC0006	19.3	1.14	112	1.61	
LC0007	17.7	0.058	102	0.33	
LC0008	14.98	2.12117	86.6	-1.86	
LC0009	-	-	-	-	
LC0010	17.2	1.2	99.5	-0.07	
LC0011	14.97	0.63	86.6	-1.86	
LC0012	15.7	1.6	90.8	-1.28	
LC0013	19.72	2.37	114	1.95	
LC0014	17	3.4	98.3	-0.23	
LC0015	18.4	1.84	106	0.89	
LC0016	17.81	0.94	103	0.42	
LC0017	18.63	0.73	108	1.08	
LC0018	-	-	-	-	
LC0019	16.124	2.419	93.3	-0.94	
LC0020	16.9	0.175	97.7	-0.31	
LC0021	21	3.15	121	2.98	
LC0022	17.1	2.1	98.9	-0.15	
LC0023	18	2.69	104	0.57	
LC0024	16.7	1	96.6	-0.47	
LC0025	17.9	5.4	104	0.49	
LC0026	40400	6060	234000	32437.03	H
LC0027	27	8	156	7.8	H
LC0028	17	1.7	98.3	-0.23	
LC0029	18.8	2.068	109	1.21	
LC0030	16.6	0.79	96	-0.56	
LC0031	16.857	2.523	97.5	-0.35	

Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Manganese

Characteristics of parameter

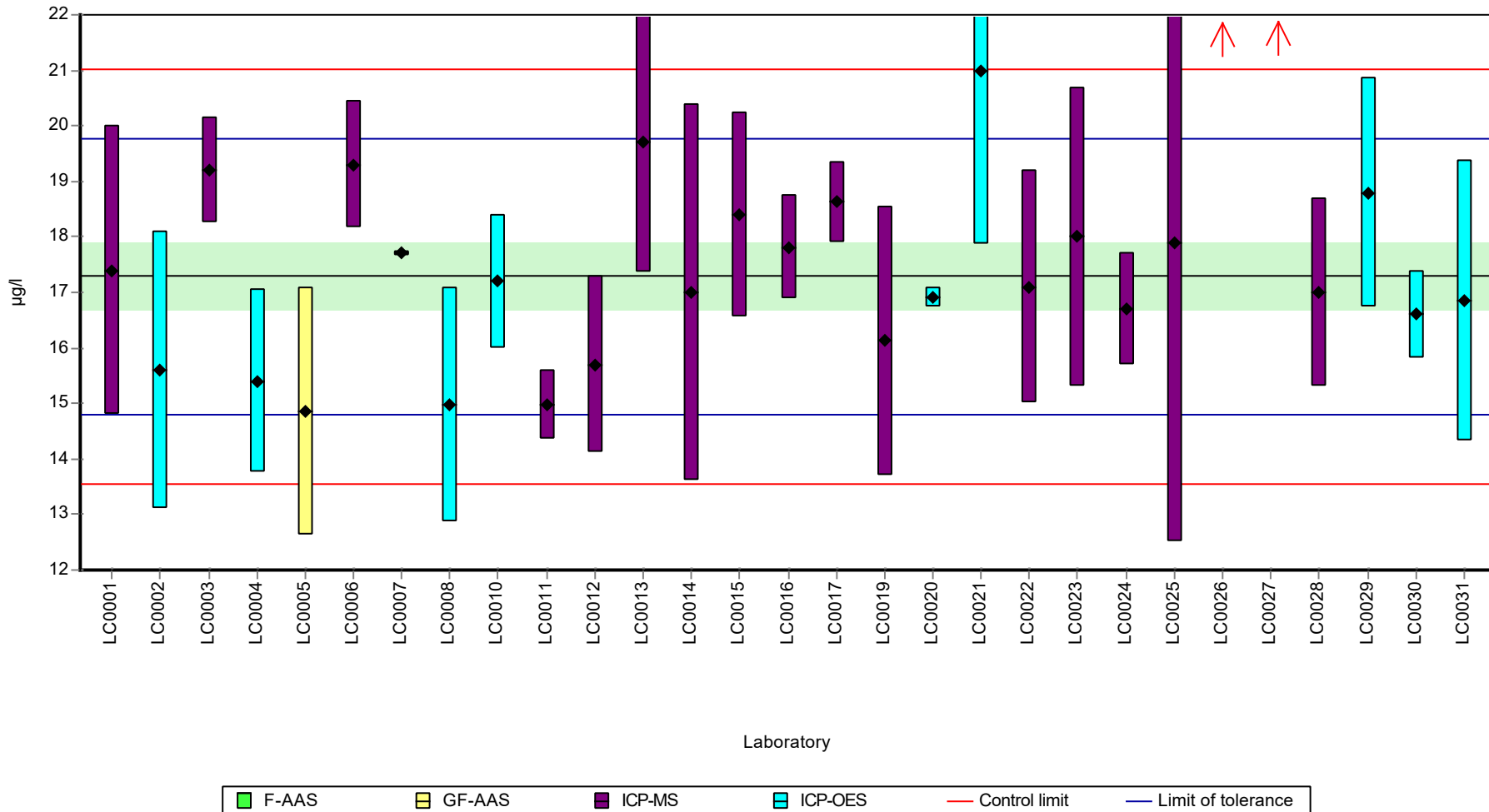
	all results	without outliers	Unit
Mean ± CI (99%)	1410 ± 4180	17.3 ± 0.894	µg/l
Minimum	14.9	14.9	µg/l
Maximum	40400	21	µg/l
Standard deviation	7500	1.55	µg/l
rel. standard deviation	532	8.95	%
n	29	27	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Manganese

Graphical presentation of results

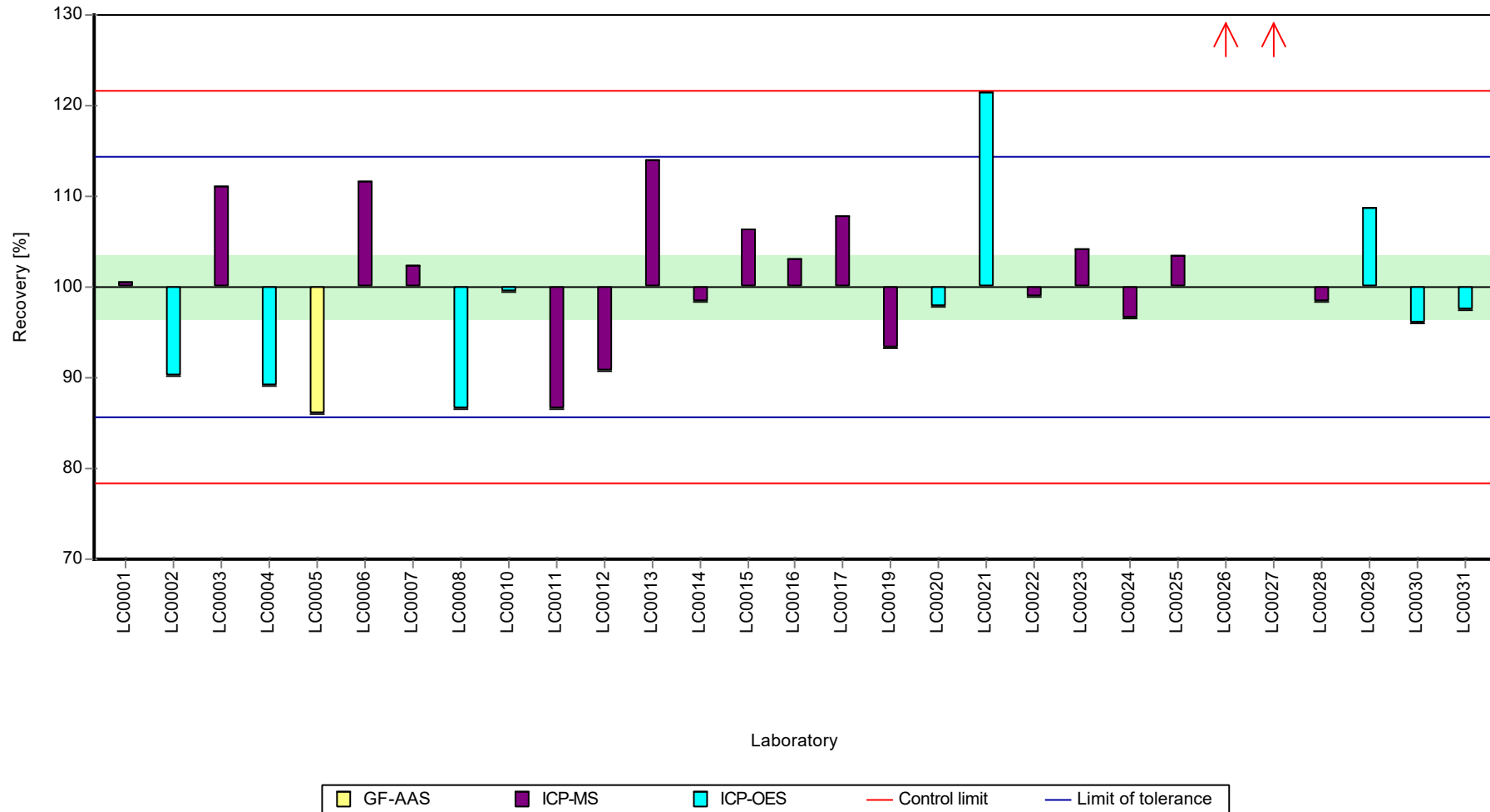
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Manganese

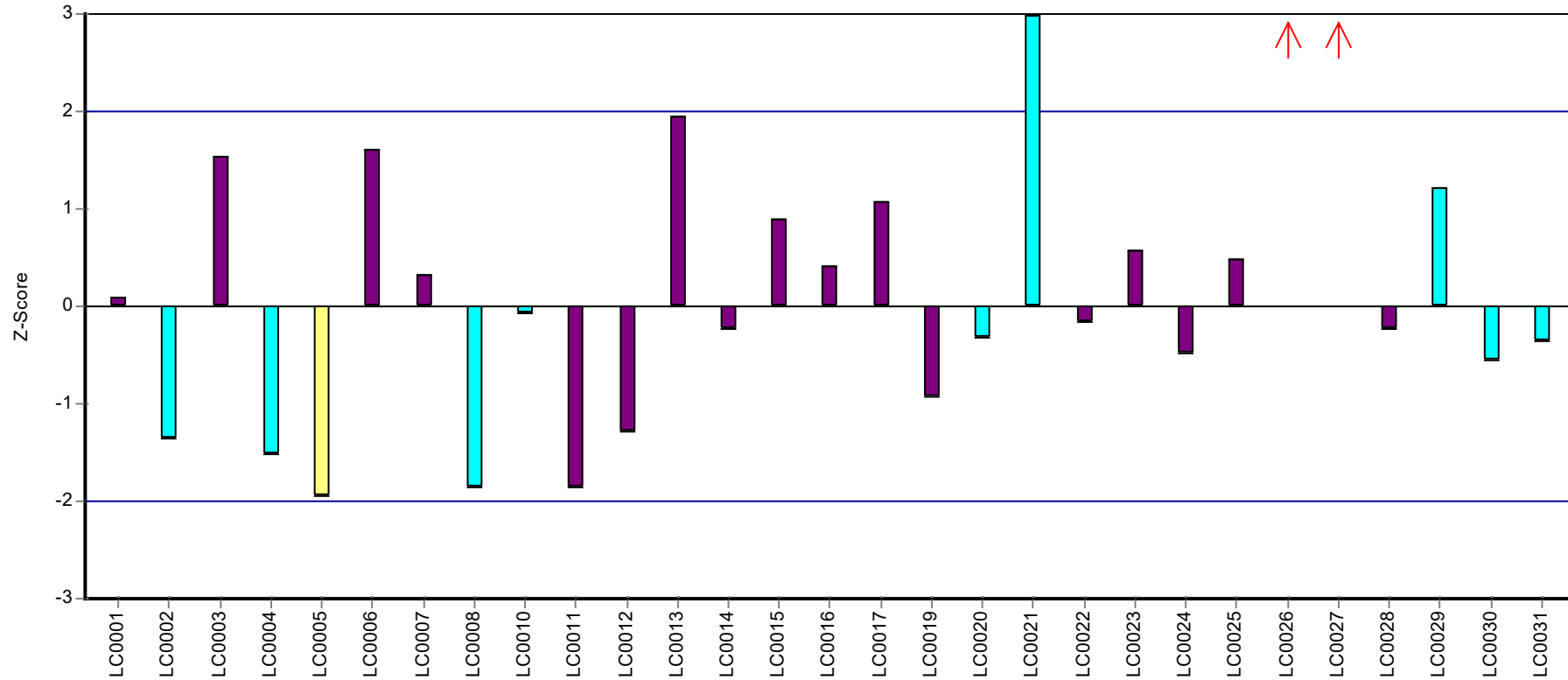
Recovery rate



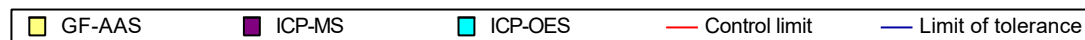
Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Manganese

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Manganese

Parameter oriented report

M170 B

Manganese

Unit	µg/l
Assigned value ± U (k=2)	21.5 ± 0.422
Criterion	1.55 (7.2 %)
Minimum - Maximum	19.7 - 24
Control test value ± U (k=2)	22.5 ± 2.02

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	21.6	3.24	101	0.08	
LC0002	19.7	3.2	91.8	-1.15	
LC0003	22	1.1	102	0.34	
LC0004	20.4	2.18	95	-0.69	
LC0005	16.871	2.531	78.6	-2.98	H
LC0006	23.8	1.41	111	1.51	
LC0007	22	0.231	102	0.34	
LC0008	19.74	2.79518	91.9	-1.12	
LC0009	-	-	-	-	
LC0010	21.2	1.49	98.7	-0.17	
LC0011	20.9	0.0183	97.3	-0.37	
LC0012	20.3	2	94.5	-0.76	
LC0013	24.03	2.88	112	1.66	
LC0014	21.5	4.3	100	0.02	
LC0015	22.4	2.24	104	0.6	
LC0016	21.76	1.15	101	0.19	
LC0017	21.98	1.11	102	0.33	
LC0018	-	-	-	-	
LC0019	19.944	2.992	92.9	-0.99	
LC0020	21.6	0.168	101	0.08	
LC0021	22.2	3.33	103	0.47	
LC0022	21	2.5	97.8	-0.3	
LC0023	22.6	3.39	105	0.73	
LC0024	21	1.3	97.8	-0.3	
LC0025	22.2	6.7	103	0.47	
LC0026	13400	2010	62400	8654.37	H
LC0027	27	8	126	3.58	H
LC0028	21	2.1	97.8	-0.3	
LC0029	20.69	2.276	96.4	-0.5	
LC0030	21.1	1	98.3	-0.24	
LC0031	21.587	3.238	101	0.08	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Manganese

Characteristics of parameter

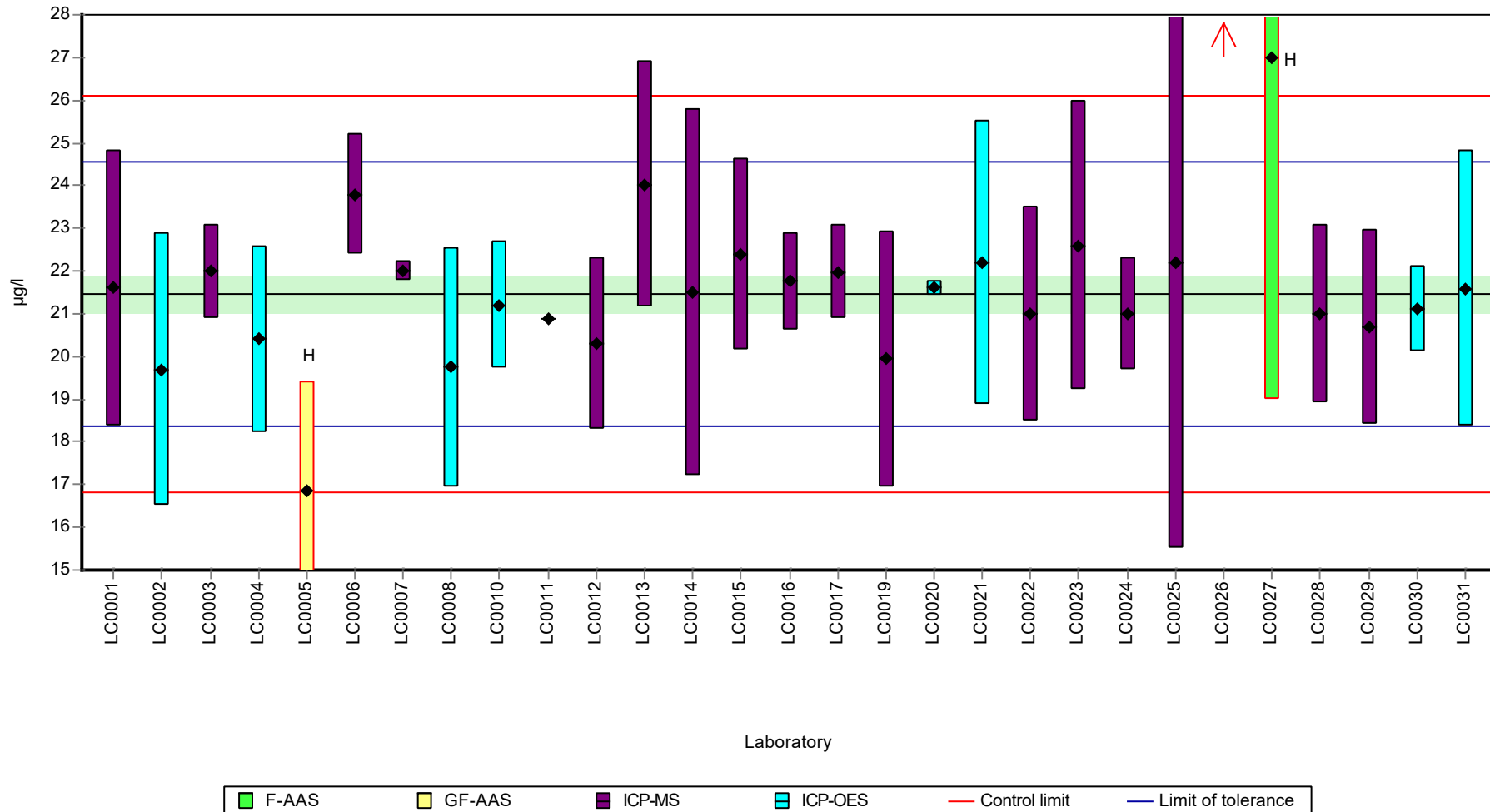
	all results	w ithout outliers	Unit
Mean ± CI (99%)	483 ± 1380	21.5 ± 0.633	µg/l
Minimum	16.9	19.7	µg/l
Maximum	13400	24	µg/l
Standard deviation	2480	1.08	µg/l
rel. standard deviation	515	5.01	%
n	29	26	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Manganese

Graphical presentation of results

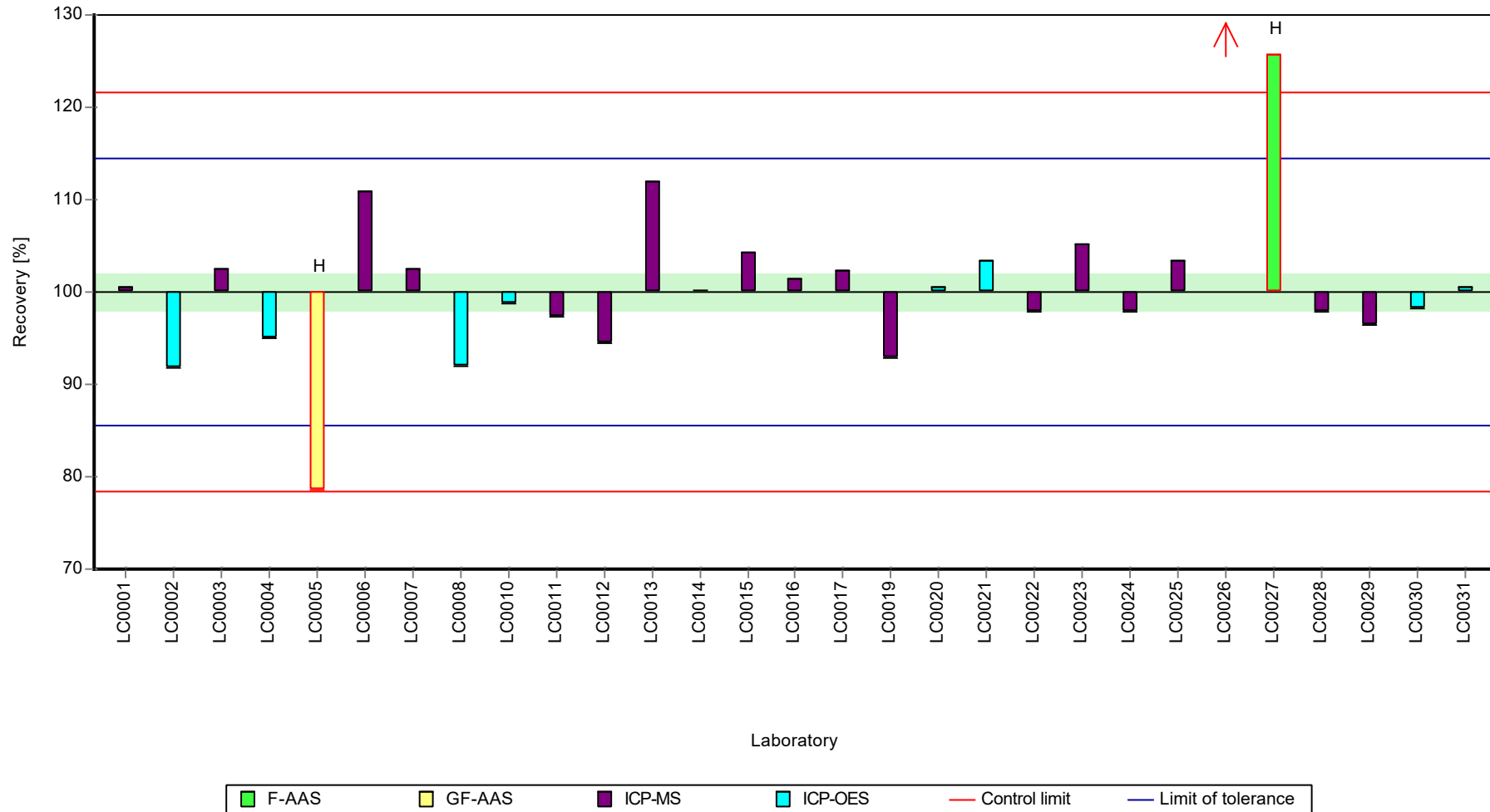
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Manganese

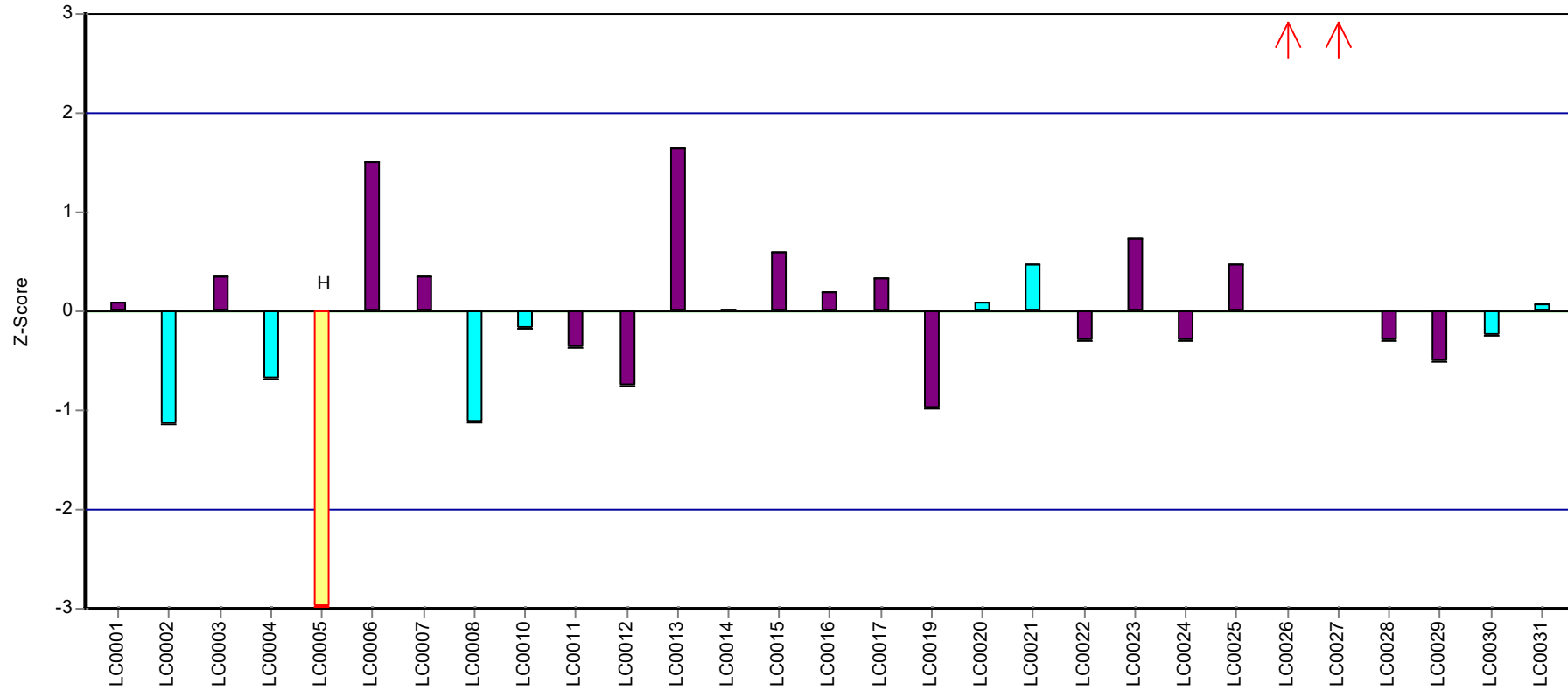
Recovery rate



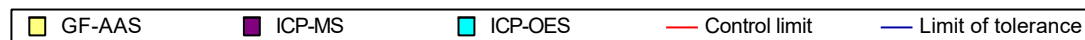
Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Manganese

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170AHG, Parameter: Mercury

Parameter oriented report

M170 A Hg

Mercury

Unit	µg/l
Assigned value ± U (k=2)	0.25 ± 0.00994
Criterion	0.0351 (14 %)
Minimum - Maximum	0.2 - 0.29
Control test value ± U (k=2)	0.267 ± 0.0481

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.2895	0.07238	116	1.11	
LC0002	-	-	-	-	
LC0003	0.221	0.015	88.3	-0.84	
LC0004	0.209	0.043	83.5	-1.18	
LC0005	0.2	0.03	79.9	-1.44	
LC0006	0.283	0.02	113	0.93	
LC0007	0.269	0.004	107	0.53	
LC0008	0.2526	0.05052	101	0.06	
LC0009	-	-	-	-	
LC0010	0.26	0.062	104	0.27	
LC0011	-	-	-	-	
LC0012	0.277	0.028	111	0.76	
LC0013	0.247	0.0247	98.6	-0.1	
LC0014	0.228	0.034	91	-0.64	
LC0015	0.25	0.025	99.8	-0.01	
LC0016	-	-	-	-	
LC0017	15.64	1.44	6250	438.96	H
LC0018	-	-	-	-	
LC0019	0.2484	0.0621	99.2	-0.06	
LC0020	0.239	0.00465	95.4	-0.33	
LC0021	-	-	-	-	
LC0022	0.275	0.061	110	0.7	
LC0023	0.246	0.037	98.2	-0.13	
LC0024	0.231	0.028	92.2	-0.55	
LC0025	< 0.3 (LOQ)	-	-	-	
LC0026	0.248	0.037	99	-0.07	
LC0027	0.27	0.1	108	0.56	
LC0028	0.272	0.0408	109	0.62	
LC0029	0.2438	0.04388	97.4	-0.19	
LC0030	0.25	0.046	99.8	-0.01	
LC0031	0.0891	0.0134	35.6	-4.6	H

Parameter oriented report Metals and trace elements
 M170

Sample: M170AHG, Parameter: Mercury

Characteristics of parameter

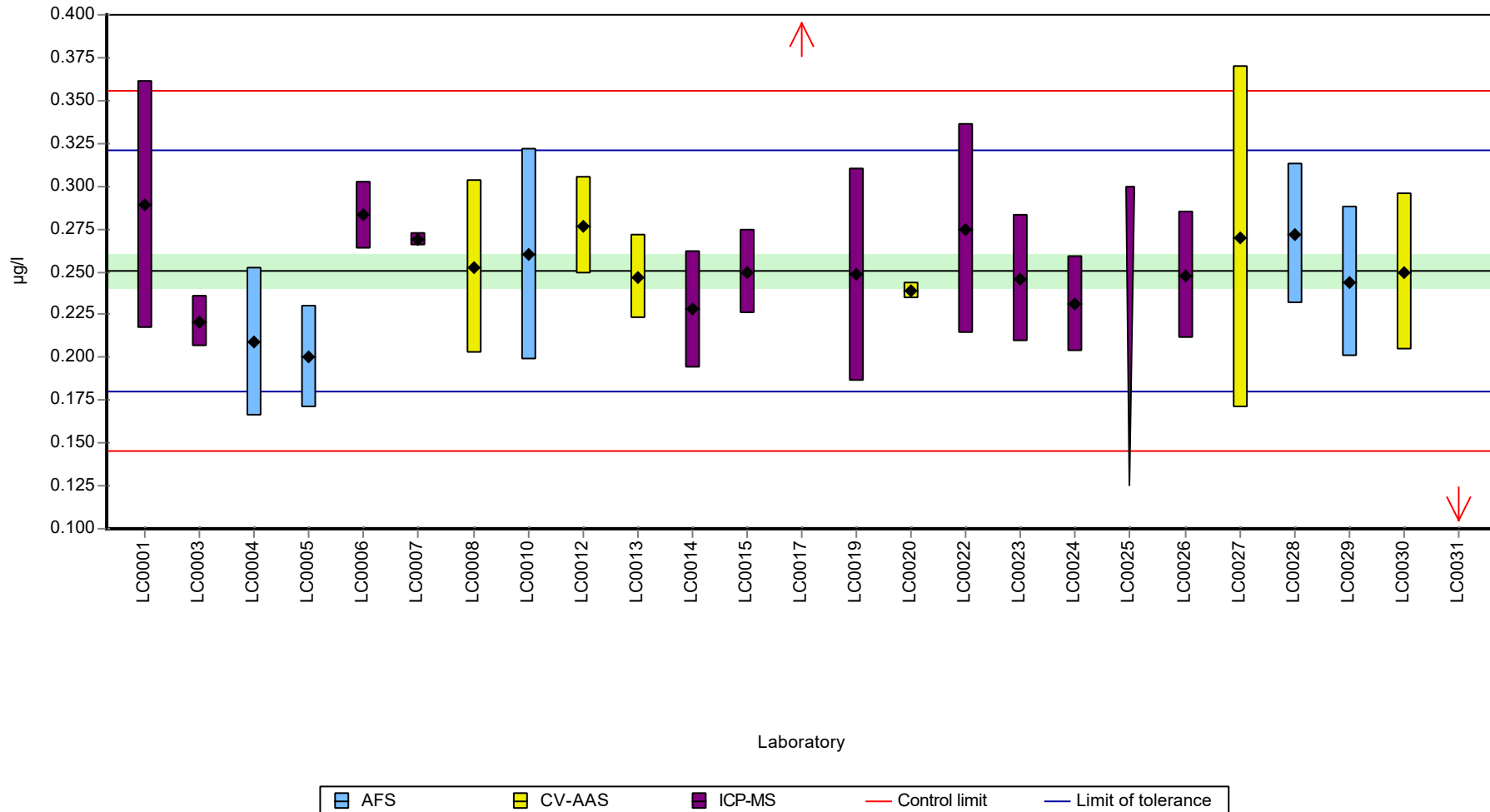
	all results	without outliers	Unit
Mean ± CI (99%)	0.885 ± 1.92	0.25 ± 0.0149	µg/l
Minimum	0.0891	0.2	µg/l
Maximum	15.6	0.29	µg/l
Standard deviation	3.14	0.0233	µg/l
rel. standard deviation	355	9.31	%
n	24	22	-

Parameter oriented report Metals and trace elements M170

Sample: M170AHG, Parameter: Mercury

Graphical presentation of results

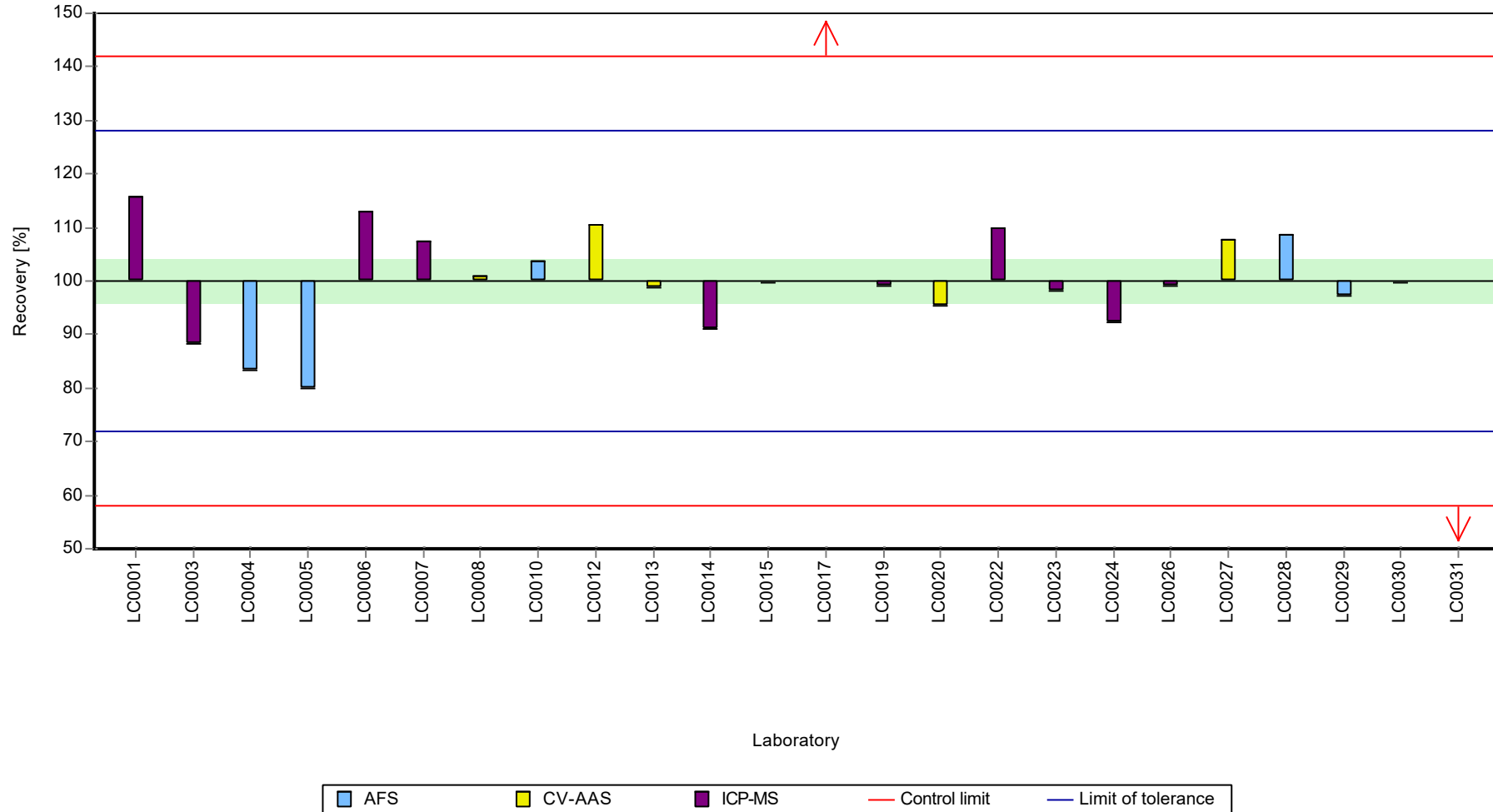
Results



Parameter oriented report Metals and trace elements M170

Sample: M170AHG, Parameter: Mercury

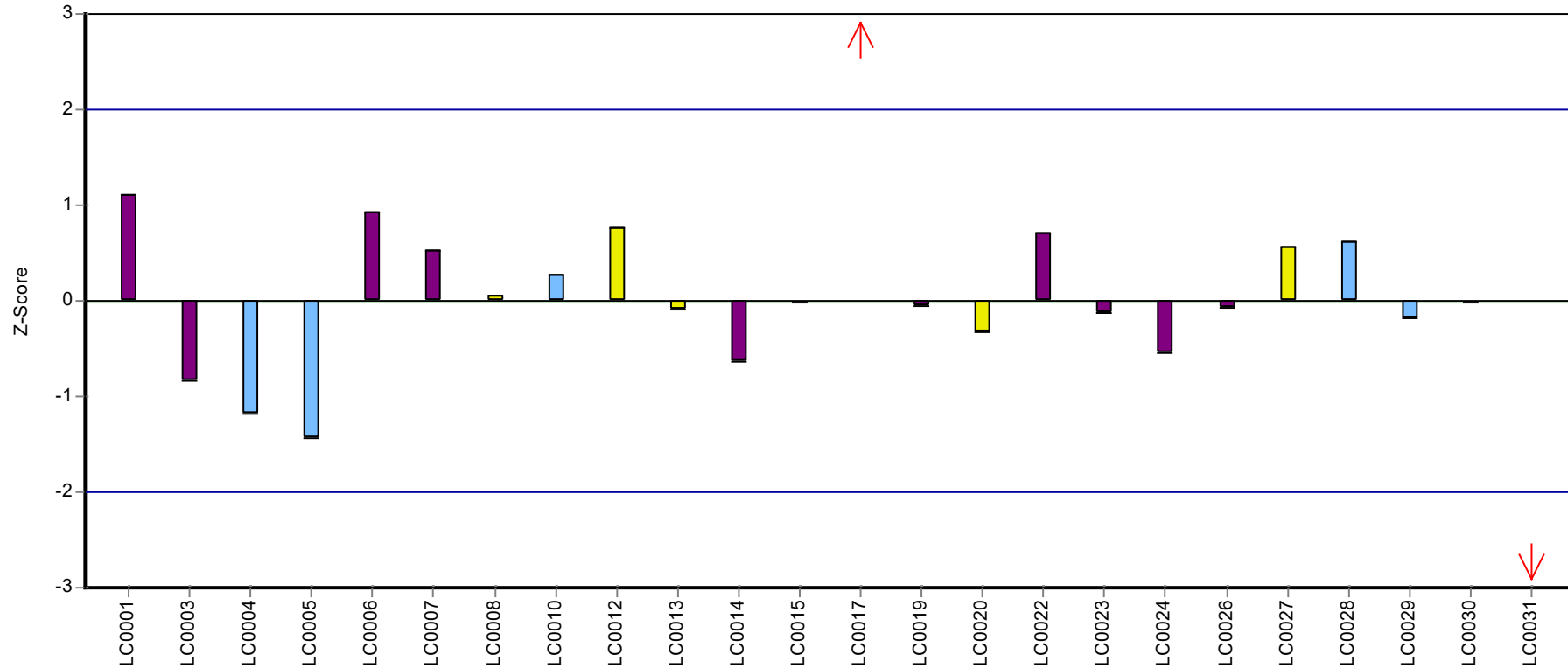
Recovery rate



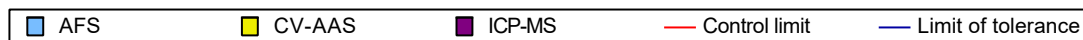
Parameter oriented report Metals and trace elements M170

Sample: M170AHG, Parameter: Mercury

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170BHG, Parameter: Mercury

Parameter oriented report

M170 B Hg

Mercury

Unit	µg/l
Assigned value ± U (k=2)	0.792 ± 0.0251
Criterion	0.111 (14 %)
Minimum - Maximum	0.67 - 0.893
Control test value ± U (k=2)	0.731 ± 0.132

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.8925	0.2231	113	0.9	
LC0002	-	-	-	-	
LC0003	0.739	0.052	93.3	-0.48	
LC0004	0.717	0.145	90.5	-0.68	
LC0005	0.819	0.123	103	0.24	
LC0006	0.889	0.062	112	0.87	
LC0007	0.802	0.01	101	0.09	
LC0008	0.8127	0.16254	103	0.18	
LC0009	-	-	-	-	
LC0010	0.872	0.209	110	0.72	
LC0011	-	-	-	-	
LC0012	0.836	0.084	106	0.39	
LC0013	0.729	0.0729	92	-0.57	
LC0014	0.688	0.1	86.8	-0.94	
LC0015	0.67	0.067	84.6	-1.1	
LC0016	-	-	-	-	
LC0017	52.34	7.04	6610	464.76	H
LC0018	-	-	-	-	
LC0019	0.789	0.1973	99.6	-0.03	
LC0020	0.774	0.0241	97.7	-0.16	
LC0021	-	-	-	-	
LC0022	0.864	0.19	109	0.65	
LC0023	0.77	0.12	97.2	-0.2	
LC0024	0.739	0.089	93.3	-0.48	
LC0025	0.831	0.25	105	0.35	
LC0026	0.796	0.119	100	0.03	
LC0027	0.83	0.25	105	0.34	
LC0028	0.801	0.12	101	0.08	
LC0029	0.7933	0.1428	100	0.01	
LC0030	0.768	0.14	96.9	-0.22	
LC0031	0.5573	0.0836	70.3	-2.12	H

Parameter oriented report Metals and trace elements
M170

Sample: M170BHG, Parameter: Mercury

Characteristics of parameter

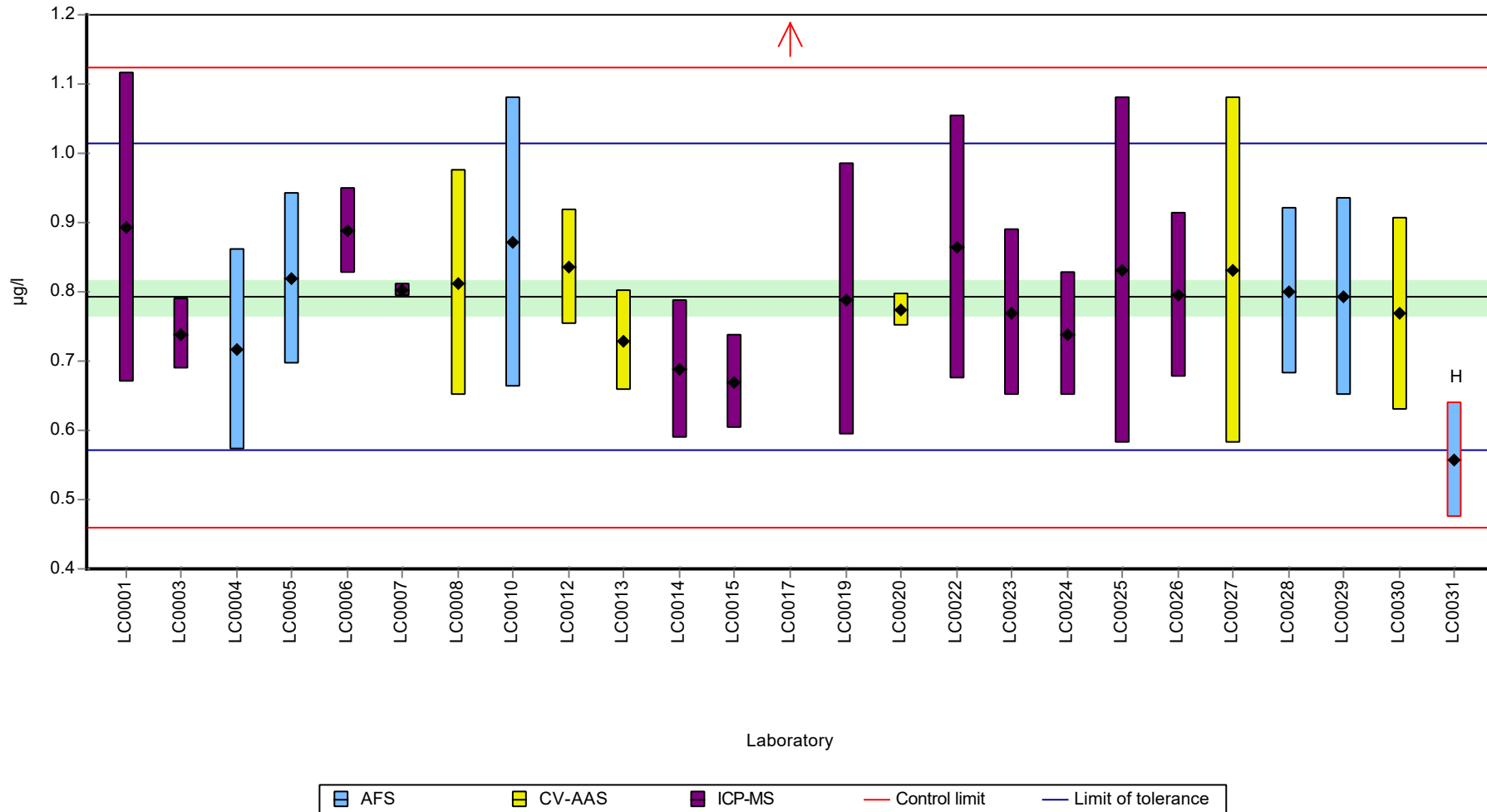
	all results	without outliers	Unit
Mean ± CI (99%)	2.84 ± 6.19	0.792 ± 0.0376	µg/l
Minimum	0.557	0.67	µg/l
Maximum	52.3	0.893	µg/l
Standard deviation	10.3	0.0602	µg/l
rel. standard deviation	362	7.6	%
n	25	23	-

Parameter oriented report Metals and trace elements M170

Sample: M170BHG, Parameter: Mercury

Graphical presentation of results

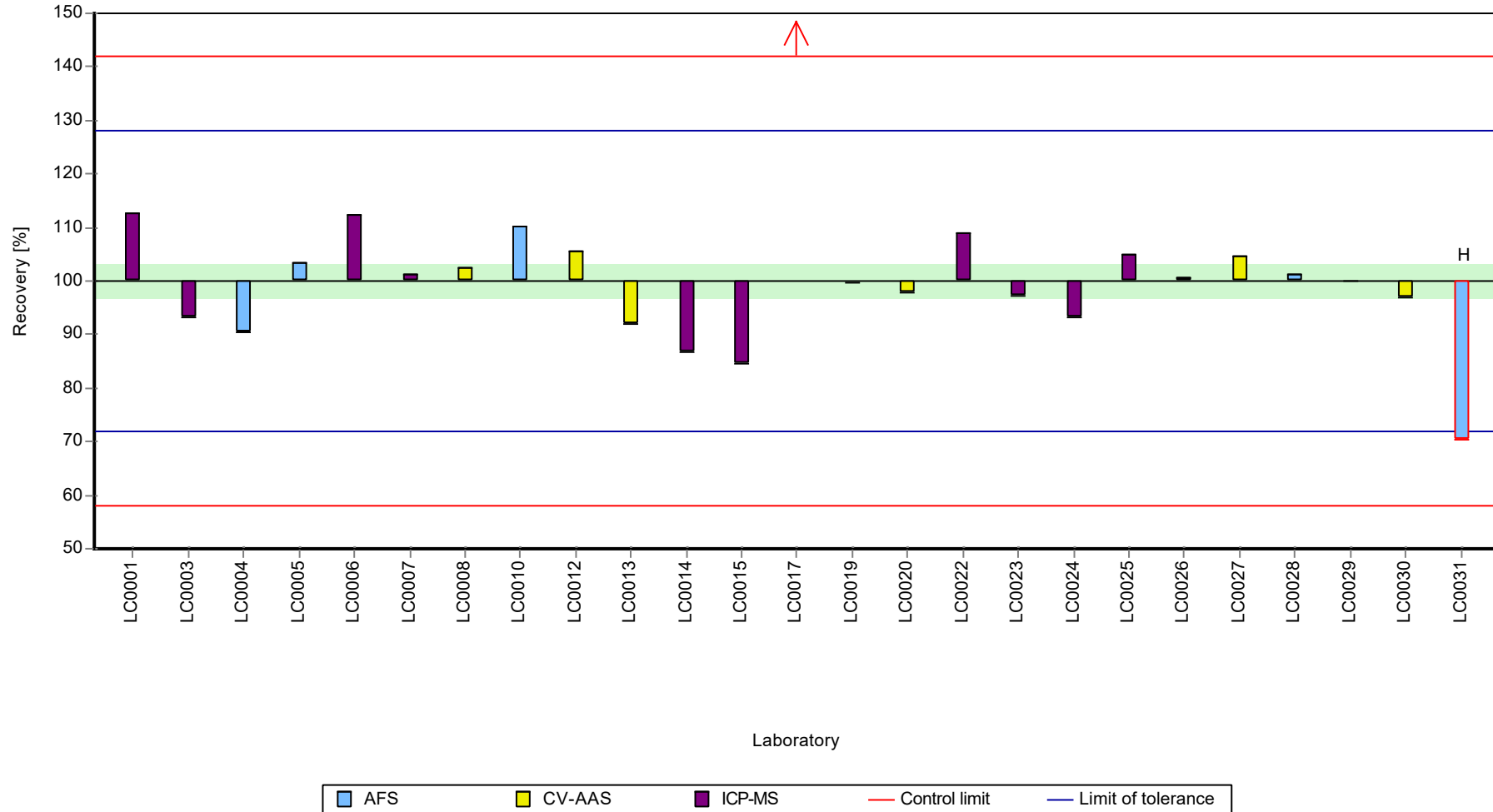
Results



Parameter oriented report Metals and trace elements M170

Sample: M170BHG, Parameter: Mercury

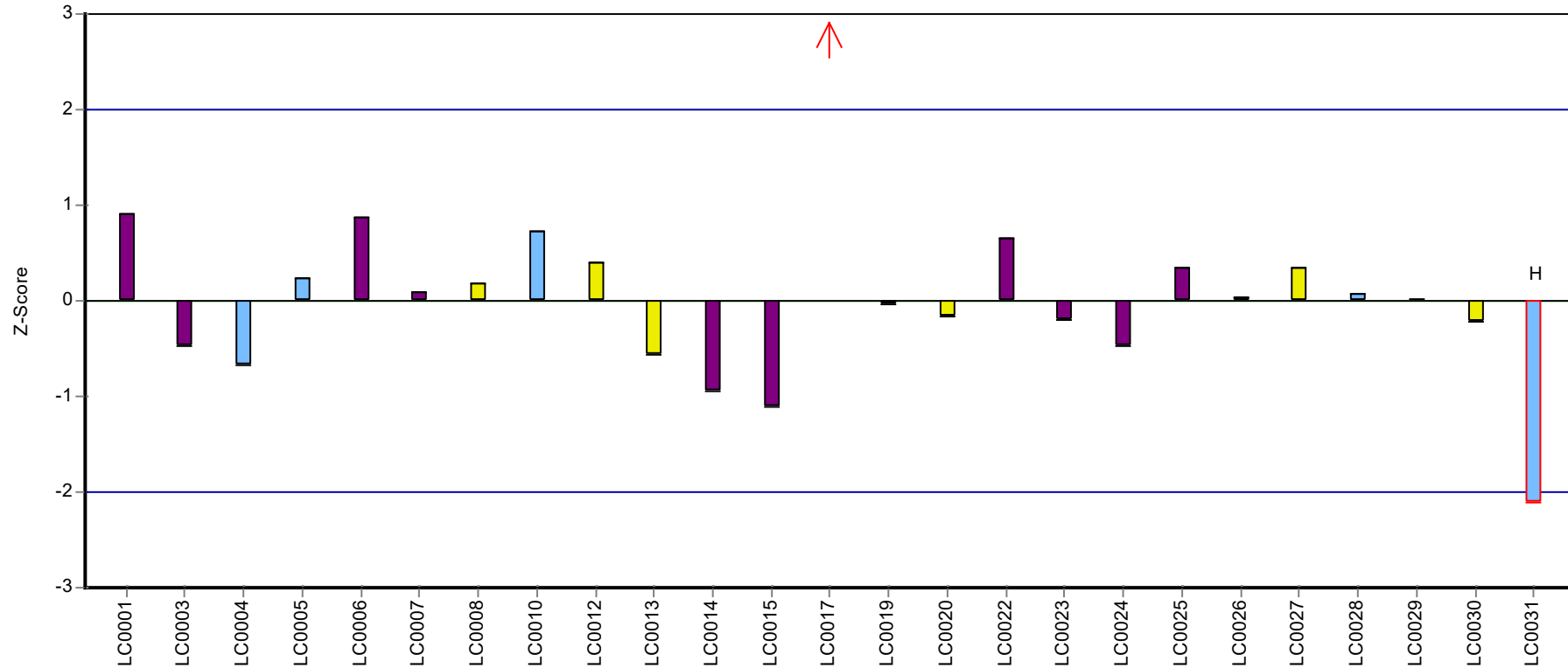
Recovery rate



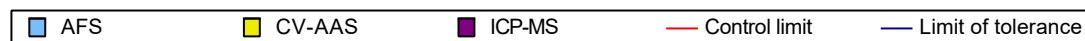
Parameter oriented report Metals and trace elements M170

Sample: M170BHG, Parameter: Mercury

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Nickel

Parameter oriented report

M170 A

Nickel

Unit	µg/l
Assigned value ± U (k=2)	2.17 ± 0.0698
Criterion	0.26 (12 %)
Minimum - Maximum	1.84 - 2.47
Control test value ± U (k=2)	2.52 ± 0.277

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.24	0.336	103	0.27	
LC0002	-	-	-	-	
LC0003	2.24	0.18	103	0.27	
LC0004	2.14	0.23	98.6	-0.12	
LC0005	2.291	0.344	106	0.46	
LC0006	2.47	0.176	114	1.15	
LC0007	2.24	0.04	103	0.27	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	2.15	0.236	99	-0.08	
LC0011	4.6	0.088	212	9.33	H
LC0012	2.07	0.21	95.4	-0.39	
LC0013	2.028	0.243	93.4	-0.55	
LC0014	2	0.4	92.1	-0.66	
LC0015	2.2	0.22	101	0.11	
LC0016	2.37	0.12	109	0.76	
LC0017	2.19	0.09	101	0.07	
LC0018	-	-	-	-	
LC0019	1.836	0.367	84.6	-1.29	
LC0020	2.42	0.0424	111	0.96	
LC0021	7.46	1.12	344	20.3	H
LC0022	2.35	0.26	108	0.69	
LC0023	2.13	0.32	98.1	-0.16	
LC0024	2.02	0.1	93.1	-0.58	
LC0025	2.14	0.54	98.6	-0.12	
LC0026	2.14	0.32	98.6	-0.12	
LC0027	3	1	138	3.18	H
LC0028	2.2	0.22	101	0.11	
LC0029	2.149	0.2364	99	-0.08	
LC0030	1.87	0.17	86.1	-1.15	
LC0031	2.354	0.353	108	0.7	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Nickel

Characteristics of parameter

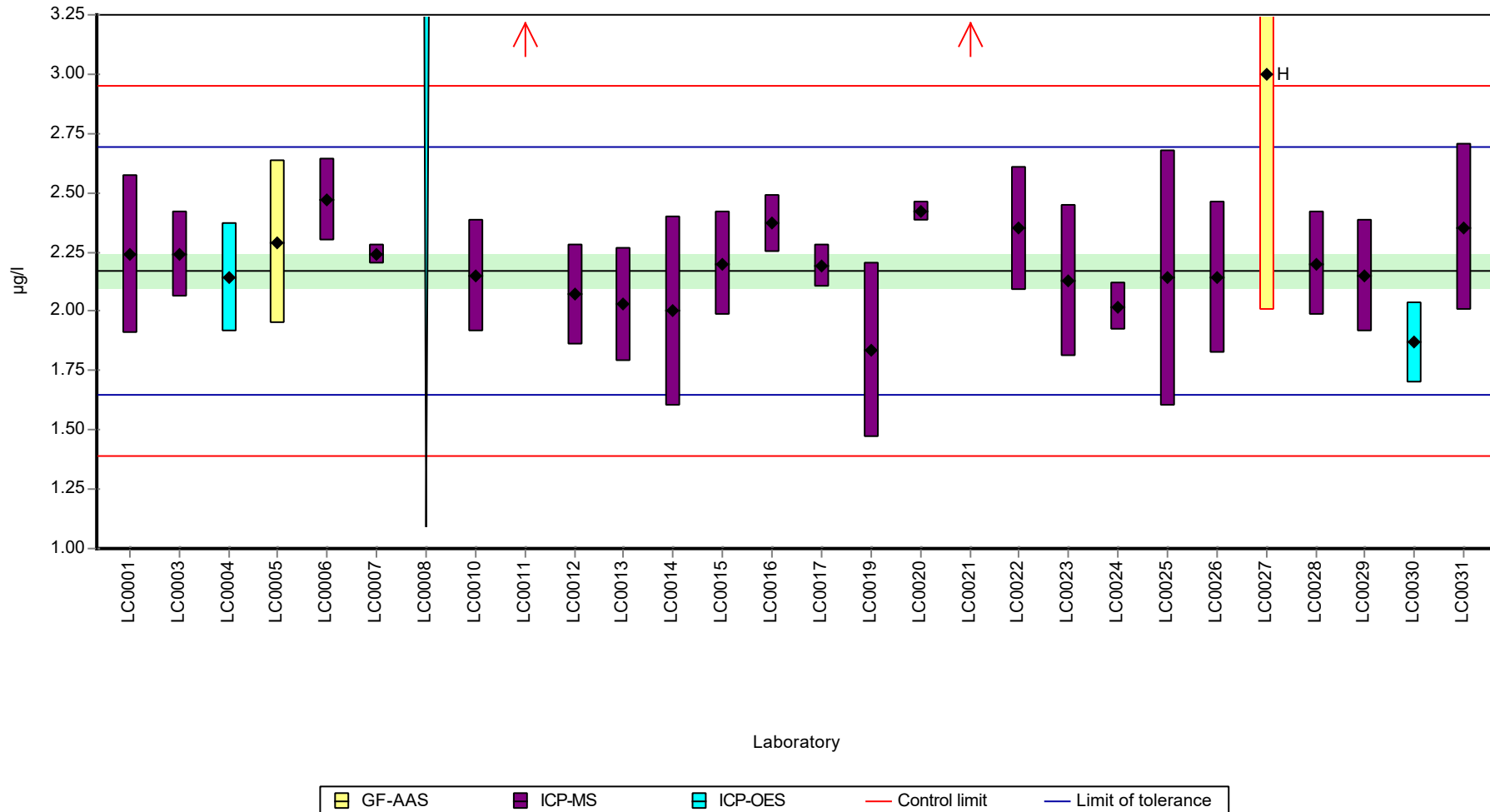
	all results	without outliers	Unit
Mean ± CI (99%)	2.49 ± 0.644	2.18 ± 0.097	µg/l
Minimum	1.84	1.84	µg/l
Maximum	7.46	2.47	µg/l
Standard deviation	1.12	0.158	µg/l
rel. standard deviation	44.8	7.28	%
n	27	24	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Nickel

Graphical presentation of results

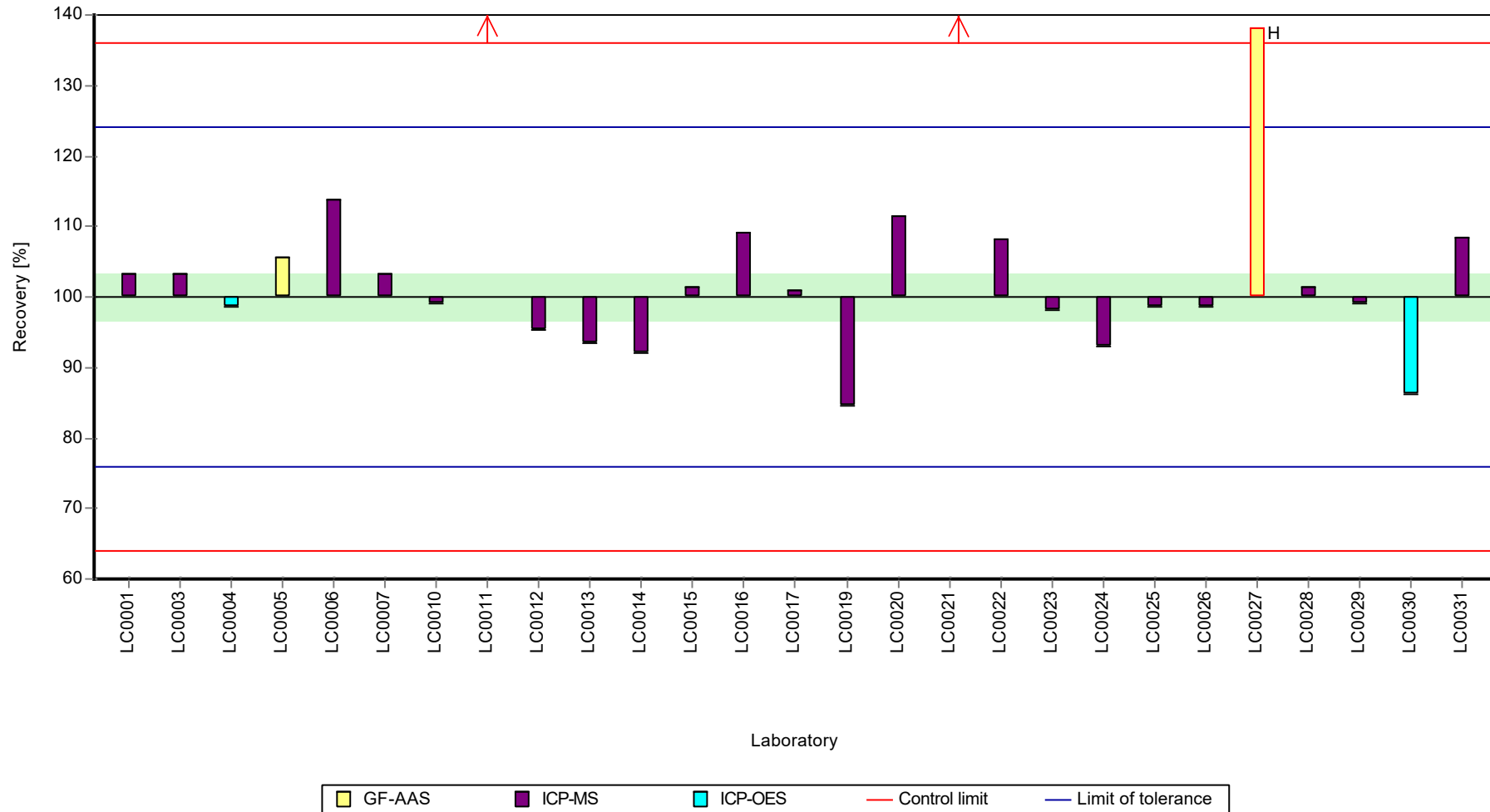
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Nickel

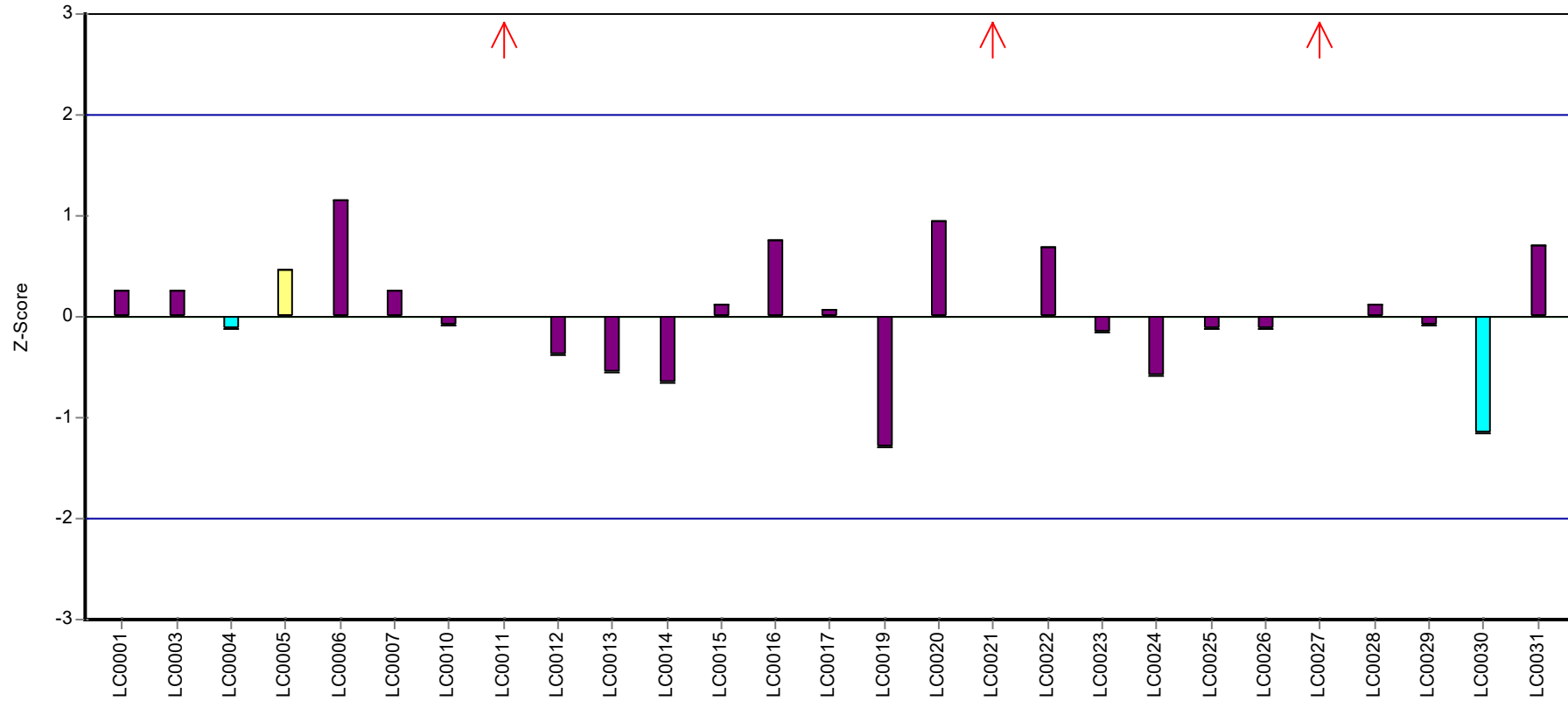
Recovery rate



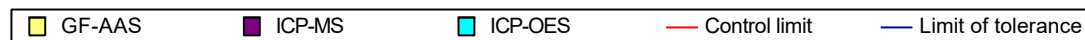
Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Nickel

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Nickel

Parameter oriented report

M170 B

Nickel

Unit	µg/l
Assigned value ± U (k=2)	16.7 ± 0.345
Criterion	2.01 (12 %)
Minimum - Maximum	15 - 18.6
Control test value ± U (k=2)	18.3 ± 2.01

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	16.8	2.52	101	0.04	
LC0002	-	-	-	-	
LC0003	17.6	1.4	105	0.44	
LC0004	17.1	1.82	102	0.19	
LC0005	17.269	2.59	103	0.28	
LC0006	17.93	1.28	107	0.61	
LC0007	17.4	0.321	104	0.34	
LC0008	15.56	3.01397	93.1	-0.58	
LC0009	-	-	-	-	
LC0010	16.2	1.78	96.9	-0.26	
LC0011	17.5	0.285	105	0.39	
LC0012	15.1	1.5	90.3	-0.8	
LC0013	18.6	2.23	111	0.94	
LC0014	15.5	3.1	92.7	-0.6	
LC0015	16.7	1.67	99.9	-0.01	
LC0016	17.3	0.9	104	0.29	
LC0017	16.26	0.77	97.3	-0.23	
LC0018	-	-	-	-	
LC0019	14.972	2.994	89.6	-0.87	
LC0020	17.8	0.847	107	0.54	
LC0021	15.9	2.39	95.1	-0.41	
LC0022	16.8	1.8	101	0.04	
LC0023	16.2	2.42	96.9	-0.26	
LC0024	16.2	0.81	96.9	-0.26	
LC0025	16.9	4.3	101	0.09	
LC0026	17.5	2.62	105	0.39	
LC0027	16	2	95.7	-0.36	
LC0028	16.2	1.62	96.9	-0.26	
LC0029	3.455	0.5183	20.7	-6.61	H
LC0030	16.6	1.5	99.3	-0.06	
LC0031	17.37	1.737	104	0.33	

Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Nickel

Characteristics of parameter

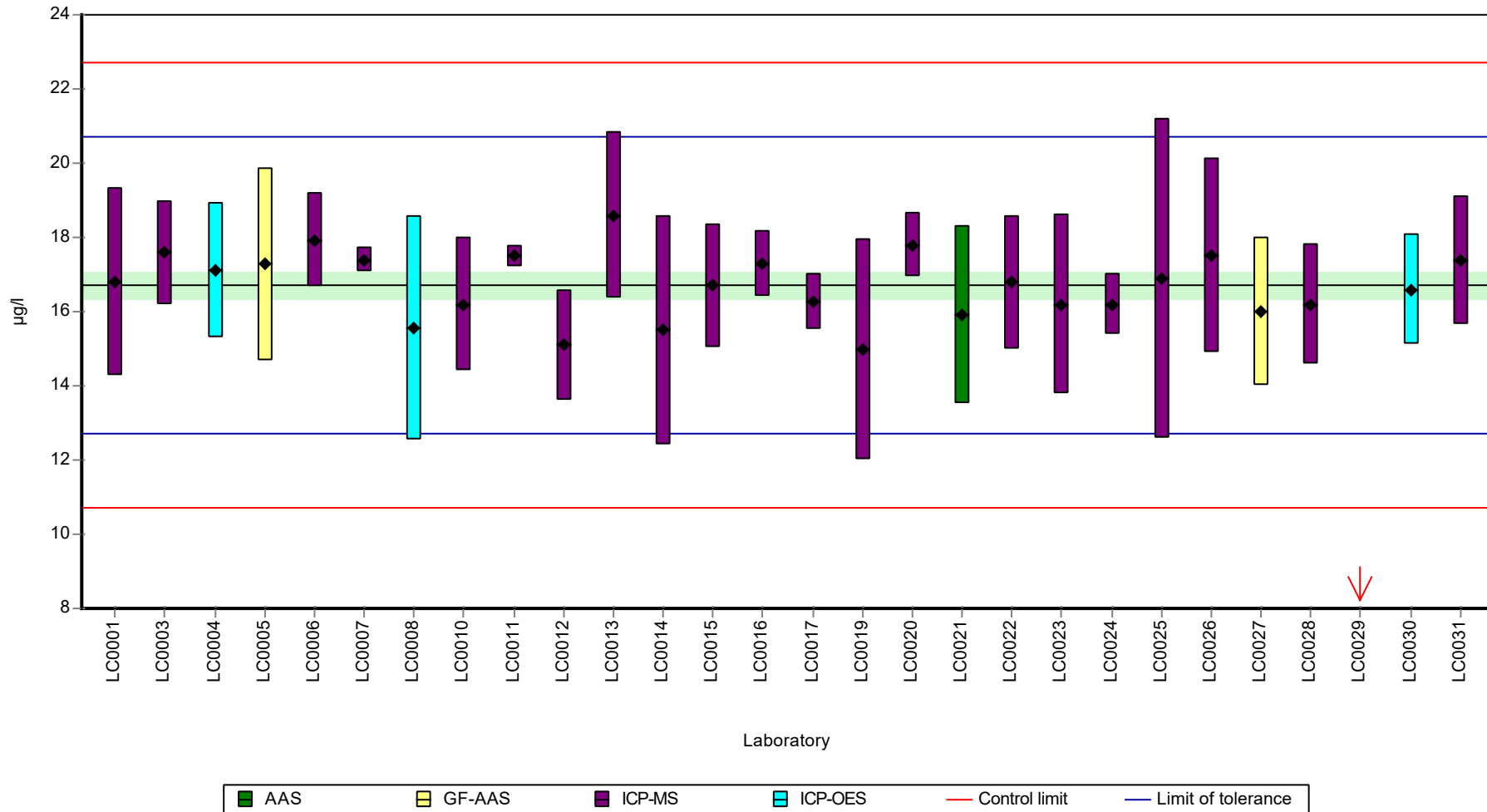
	all results	w ithout outliers	Unit
Mean ± CI (99%)	16.2 ± 1.51	16.7 ± 0.517	µg/l
Minimum	3.46	15	µg/l
Maximum	18.6	18.6	µg/l
Standard deviation	2.66	0.896	µg/l
rel. standard deviation	16.4	5.36	%
n	28	27	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Nickel

Graphical presentation of results

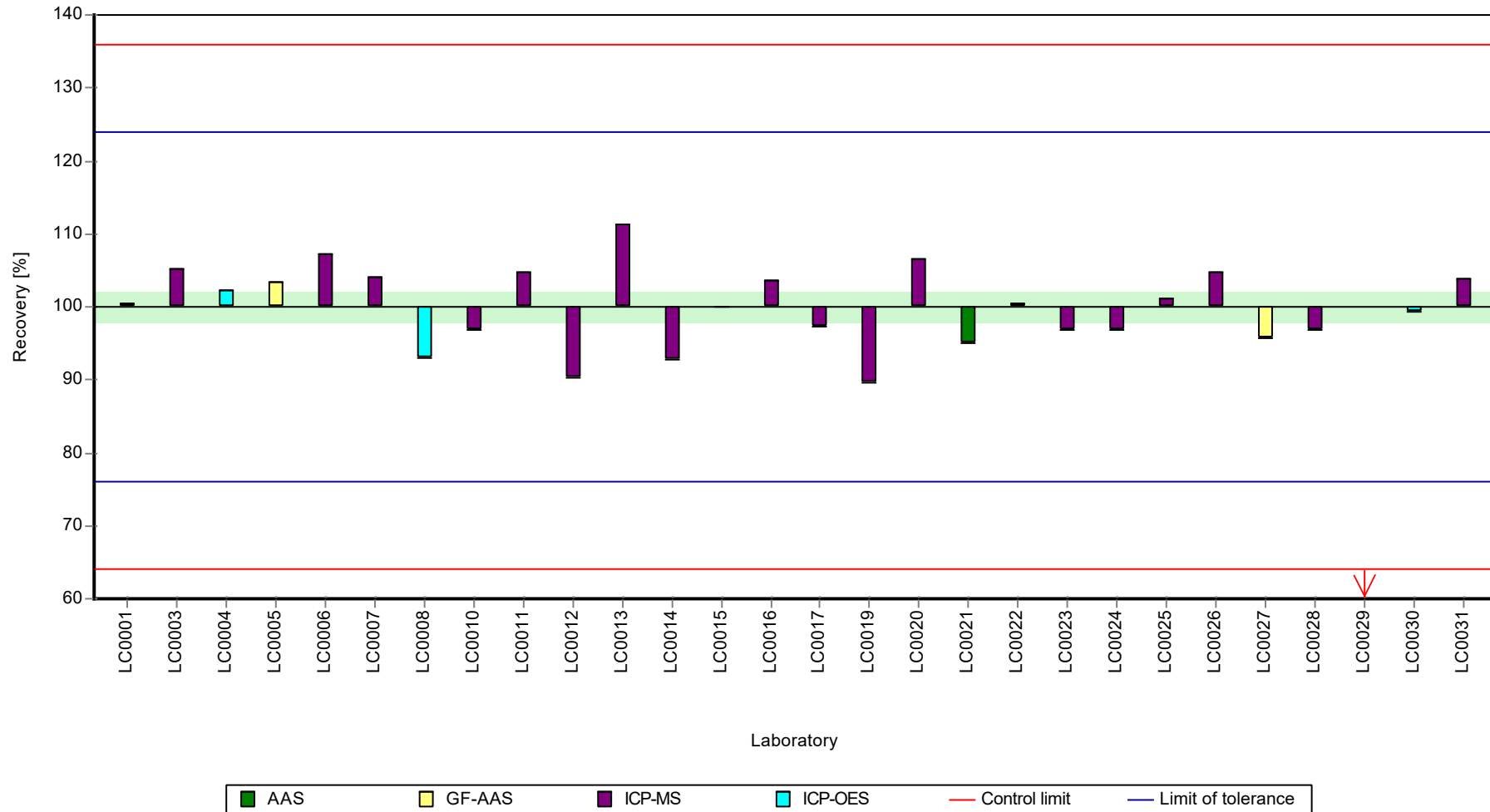
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Nickel

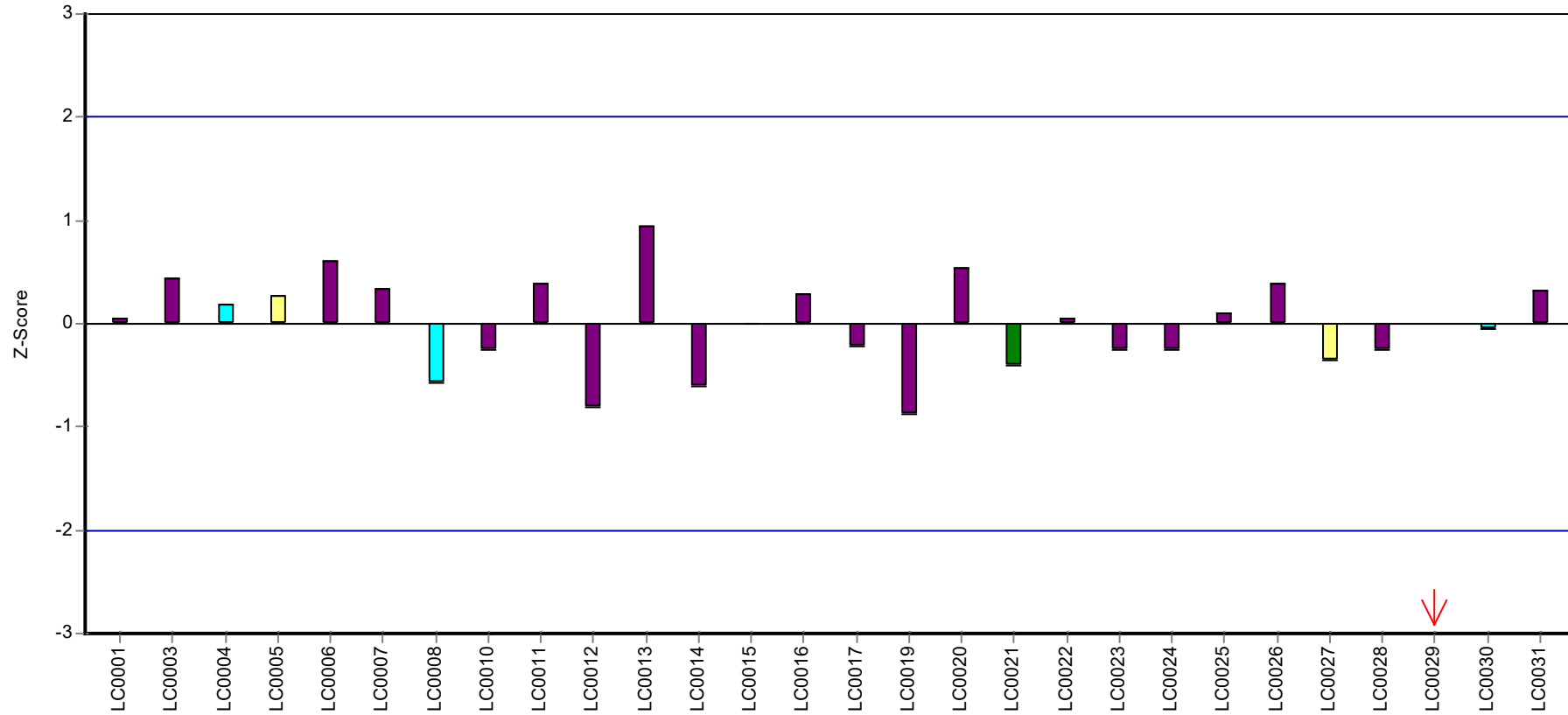
Recovery rate



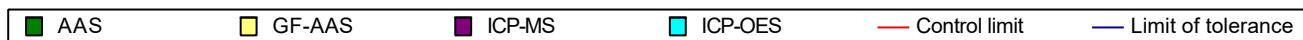
Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Nickel

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Selenium

Parameter oriented report

M170 A

Selenium

Unit	µg/l
Assigned value ± U (k=2)	4.24 ± 0.17
Criterion	0.509 (12 %)
Minimum - Maximum	3.51 - 5.19
Control test value ± U (k=2)	3.78 ± 0.567

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.96	0.99	93.3	-0.56	
LC0002	-	-	-	-	
LC0003	4.12	0.58	97.1	-0.24	
LC0004	< 6 (LOQ)	-	-	-	
LC0005	-	-	-	-	
LC0006	5.19	1.031	122	1.86	
LC0007	4	0.047	94.3	-0.48	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	4.36	0.698	103	0.23	
LC0011	5.49	0.109	129	2.45	H
LC0012	3.51	0.35	82.7	-1.44	
LC0013	4.235	0.593	99.8	-0.02	
LC0014	4.9	0.98	115	1.29	
LC0015	2.4	0.36	56.6	-3.62	H
LC0016	5.43	0.31	128	2.33	H
LC0017	4.05	0.24	95.5	-0.38	
LC0018	-	-	-	-	
LC0019	3.708	0.556	87.4	-1.05	
LC0020	4.22	0.0928	99.5	-0.05	
LC0021	4.71	0.71	111	0.92	
LC0022	4.02	0.6	94.7	-0.44	
LC0023	4.05	0.61	95.5	-0.38	
LC0024	3.9	0.43	91.9	-0.67	
LC0025	4.65	1.9	110	0.8	
LC0026	4.2	0.63	99	-0.08	
LC0027	-	-	-	-	
LC0028	4.3	0.645	101	0.11	
LC0029	4.277	0.3422	101	0.07	
LC0030	4.51	0.81	106	0.52	
LC0031	4.234	0.635	99.8	-0.02	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Selenium

Characteristics of parameter

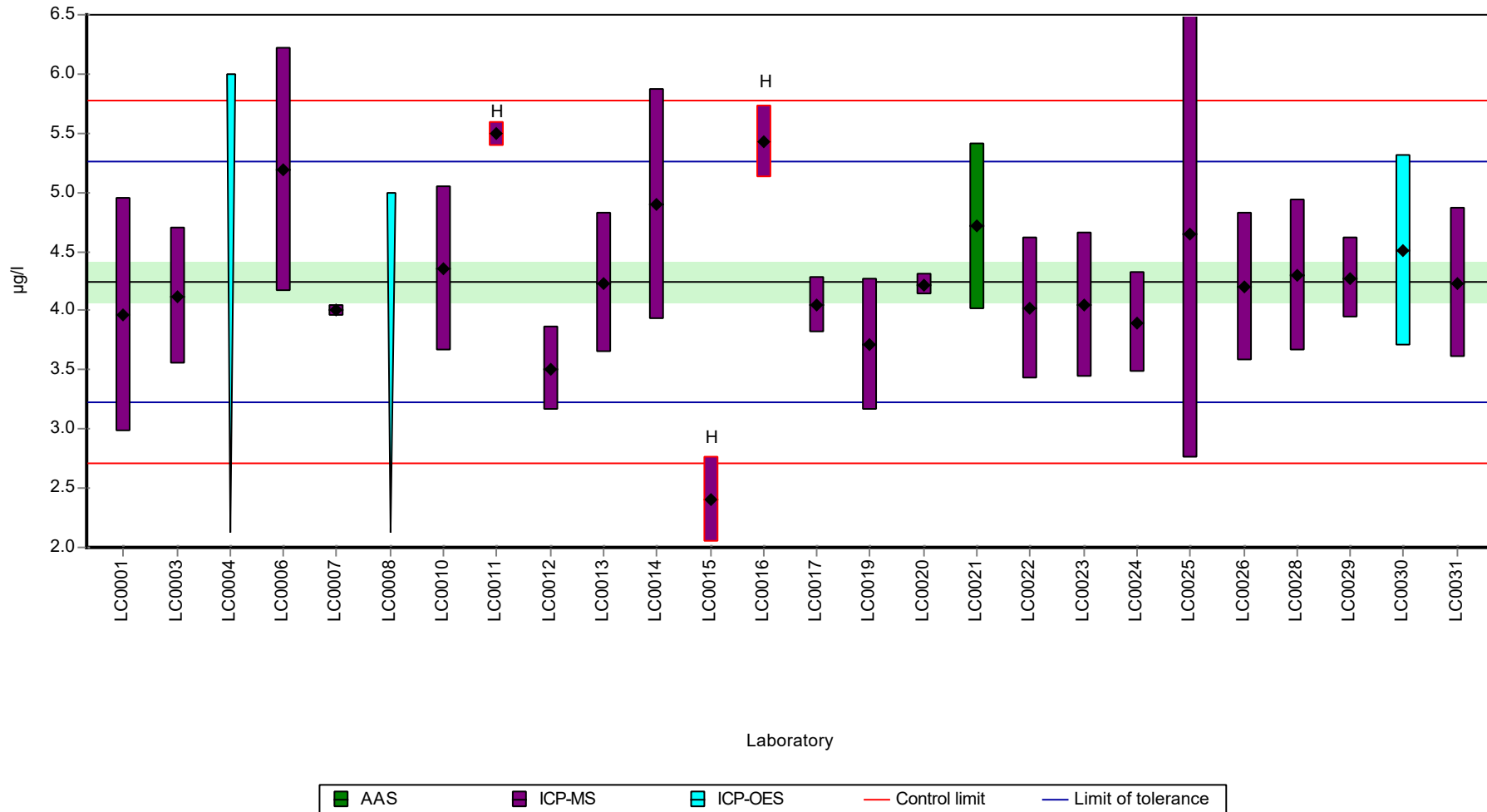
	all results	without outliers	Unit
Mean ± CI (99%)	4.27 ± 0.391	4.24 ± 0.255	µg/l
Minimum	2.4	3.51	µg/l
Maximum	5.49	5.19	µg/l
Standard deviation	0.638	0.389	µg/l
rel. standard deviation	15	9.16	%
n	24	21	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Selenium

Graphical presentation of results

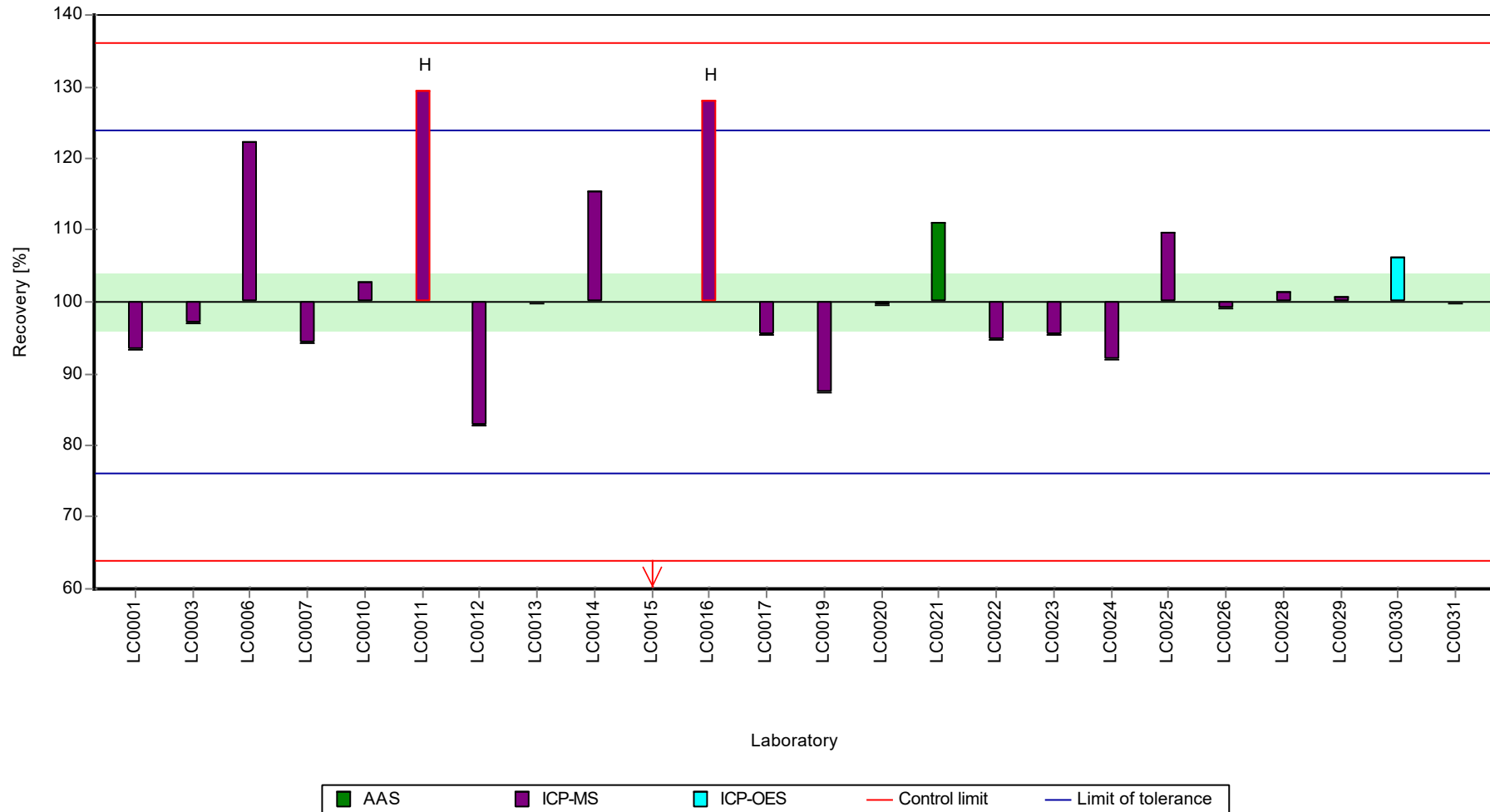
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Selenium

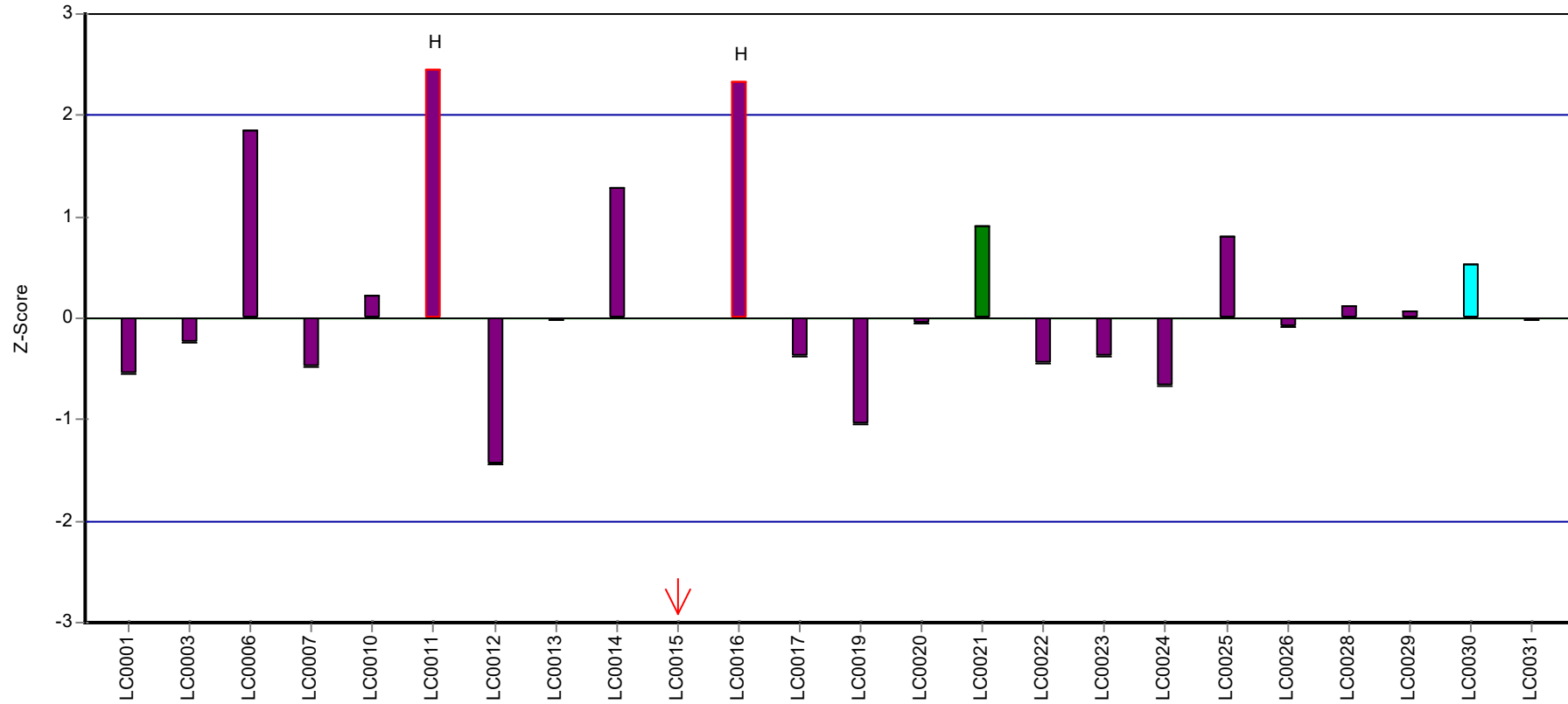
Recovery rate



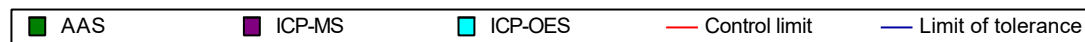
Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Selenium

Z-score



Laboratory



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Selenium

Parameter oriented report

M170 B

Selenium

Unit	µg/l
Assigned value ± U (k=2)	4.46 ± 0.123
Criterion	0.535 (12 %)
Minimum - Maximum	4.01 - 5.2
Control test value ± U (k=2)	4.47 ± 0.671

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.25	1.0625	95.2	-0.4	
LC0002	-	-	-	-	
LC0003	4.26	0.6	95.5	-0.38	
LC0004	< 6 (LOQ)	-	-	-	
LC0005	-	-	-	-	
LC0006	4.94	0.981	111	0.89	
LC0007	4.31	0.119	96.6	-0.28	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	4.77	0.764	107	0.57	
LC0011	5.2	0.0183	117	1.38	
LC0012	3.54	0.35	79.3	-1.72	H
LC0013	4.73	0.662	106	0.5	
LC0014	4.6	0.92	103	0.26	
LC0015	4.4	0.66	98.6	-0.12	
LC0016	5.6	0.32	125	2.12	H
LC0017	4.17	0.2	93.4	-0.55	
LC0018	-	-	-	-	
LC0019	4.005	0.601	89.8	-0.85	
LC0020	4.61	0.0921	103	0.28	
LC0021	2.9	0.44	65	-2.92	H
LC0022	4.17	0.63	93.4	-0.55	
LC0023	4.31	0.65	96.6	-0.28	
LC0024	4.45	0.49	99.7	-0.02	
LC0025	4.58	1.9	103	0.22	
LC0026	4.32	0.649	96.8	-0.27	
LC0027	-	-	-	-	
LC0028	4.5	0.675	101	0.07	
LC0029	4.466	0.6252	100	0.01	
LC0030	4.22	0.76	94.6	-0.45	
LC0031	4.447	0.667	99.7	-0.03	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Selenium

Characteristics of parameter

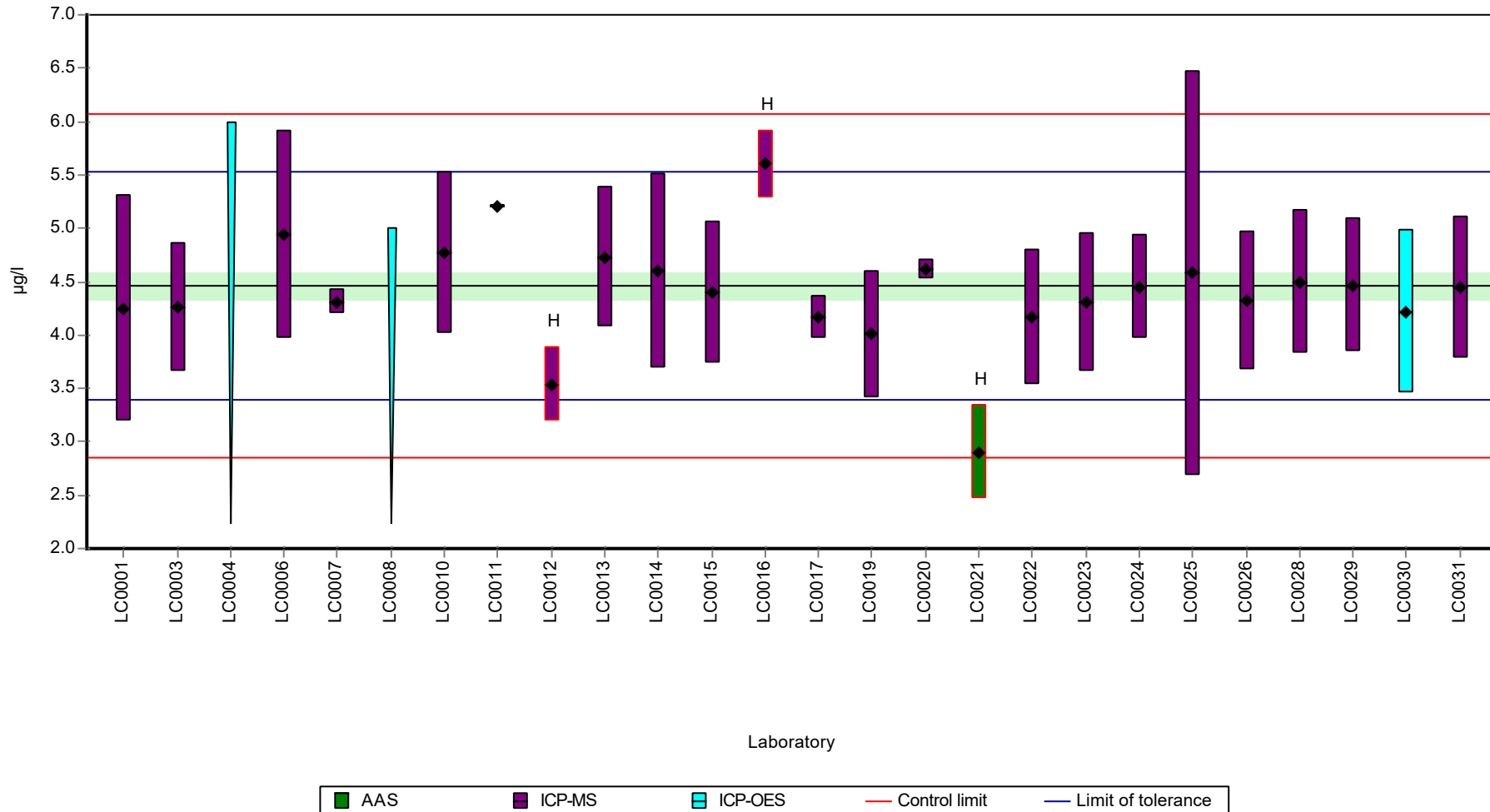
	all results	without outliers	Unit
Mean ± CI (99%)	4.41 ± 0.315	4.46 ± 0.185	µg/l
Minimum	2.9	4.01	µg/l
Maximum	5.6	5.2	µg/l
Standard deviation	0.515	0.282	µg/l
rel. standard deviation	11.7	6.32	%
n	24	21	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Selenium

Graphical presentation of results

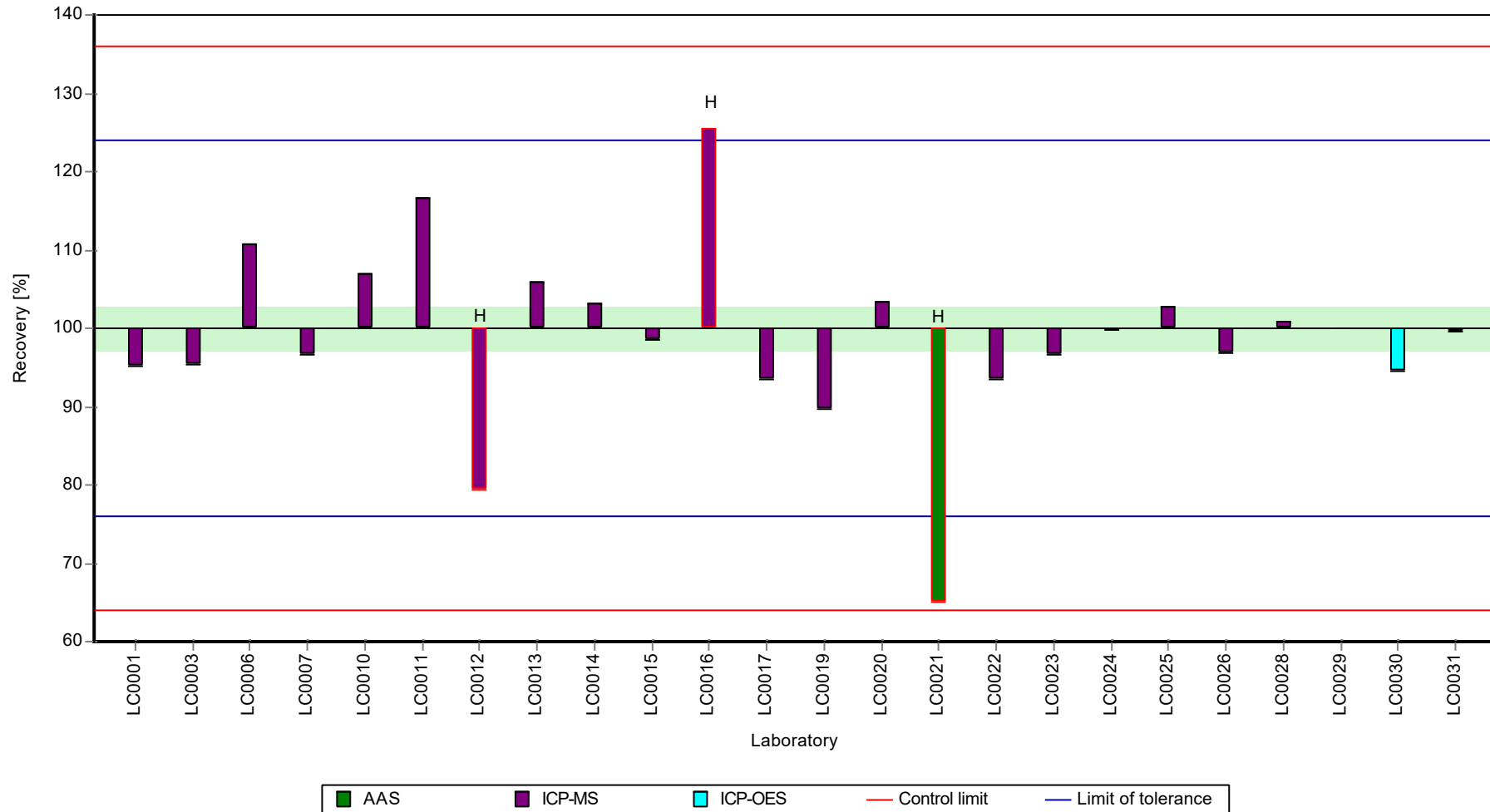
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Selenium

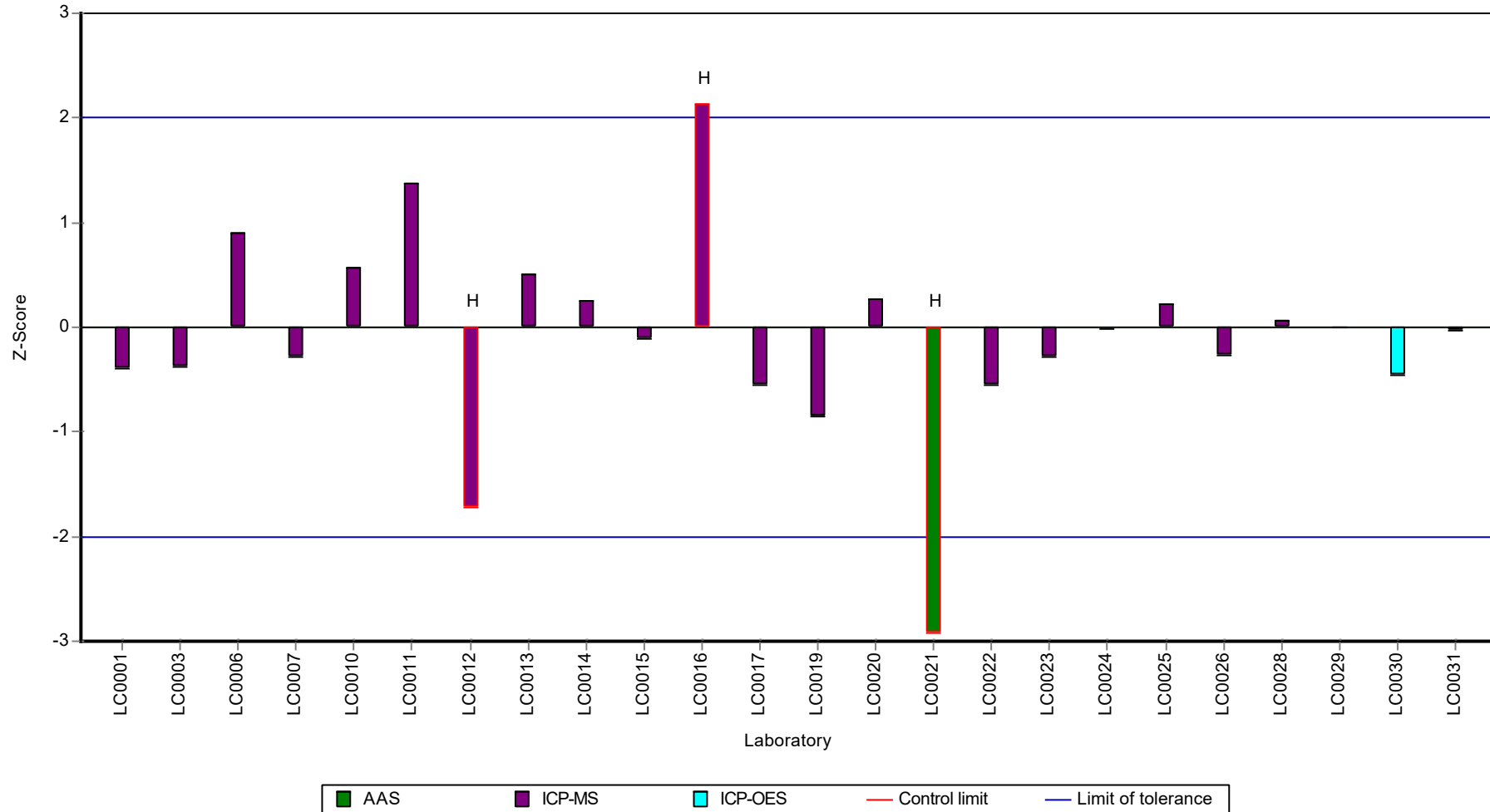
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Selenium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Uranium

Parameter oriented report

M170 A

Uranium

Unit	µg/l
Assigned value ± U (k=2)	1.18 ± 0.0201
Criterion	0.0777 (6.6 %)
Minimum - Maximum	1.09 - 1.23
Control test value ± U (k=2)	1.21 ± 0.121

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.14	0.171	96.8	-0.49	
LC0002	-	-	-	-	
LC0003	1.38	0.068	117	2.6	H
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	1.207	0.164	102	0.38	
LC0007	1.23	0.02	104	0.67	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	1.15	0.104	97.6	-0.36	
LC0011	1.46	0.014	124	3.63	H
LC0012	1.18	0.12	100	0.03	
LC0013	0.959	0.11	81.4	-2.81	H
LC0014	1.2	0.24	102	0.29	
LC0015	1.2	0.12	102	0.29	
LC0016	-	-	-	-	
LC0017	0.99	0.05	84.1	-2.42	H
LC0018	-	-	-	-	
LC0019	1.119	0.168	95	-0.76	
LC0020	1.23	0.0997	104	0.67	
LC0021	-	-	-	-	
LC0022	1.19	0.18	101	0.16	
LC0023	1.22	0.18	104	0.54	
LC0024	1.09	0.055	92.5	-1.13	
LC0025	1.15	0.35	97.6	-0.36	
LC0026	1.17	0.176	99.3	-0.1	
LC0027	-	-	-	-	
LC0028	1.22	0.061	104	0.54	
LC0029	1.132	0.1811	96.1	-0.59	
LC0030	2.09	0.31	177	11.73	H
LC0031	1.195	0.179	101	0.22	

Parameter oriented report Metals and trace elements
 M170

Sample: M170A, Parameter: Uranium

Characteristics of parameter

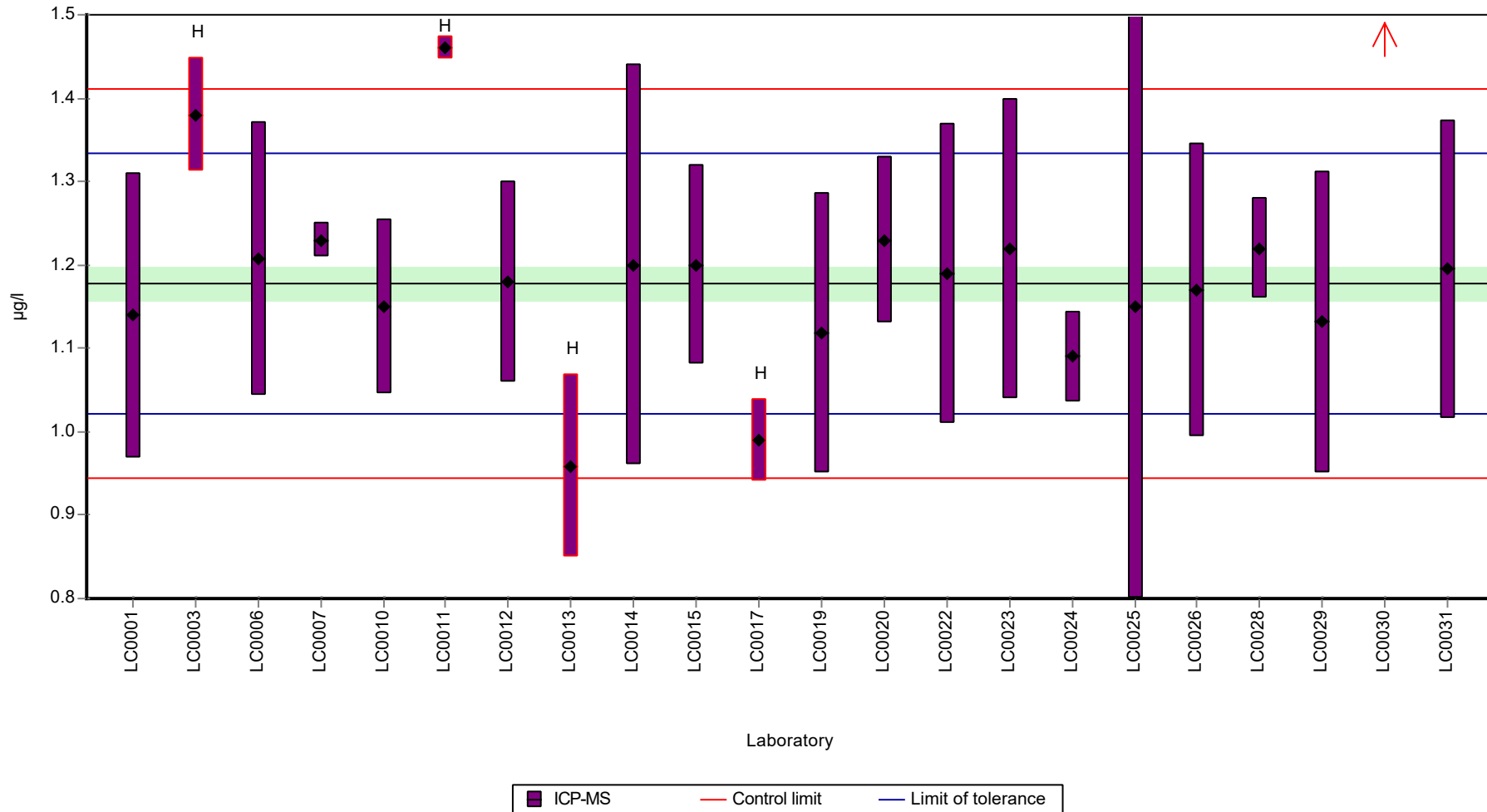
	all results	without outliers	Unit
Mean ± CI (99%)	1.22 ± 0.141	1.18 ± 0.0302	µg/l
Minimum	0.959	1.09	µg/l
Maximum	2.09	1.23	µg/l
Standard deviation	0.22	0.0415	µg/l
rel. standard deviation	18	3.53	%
n	22	17	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Uranium

Graphical presentation of results

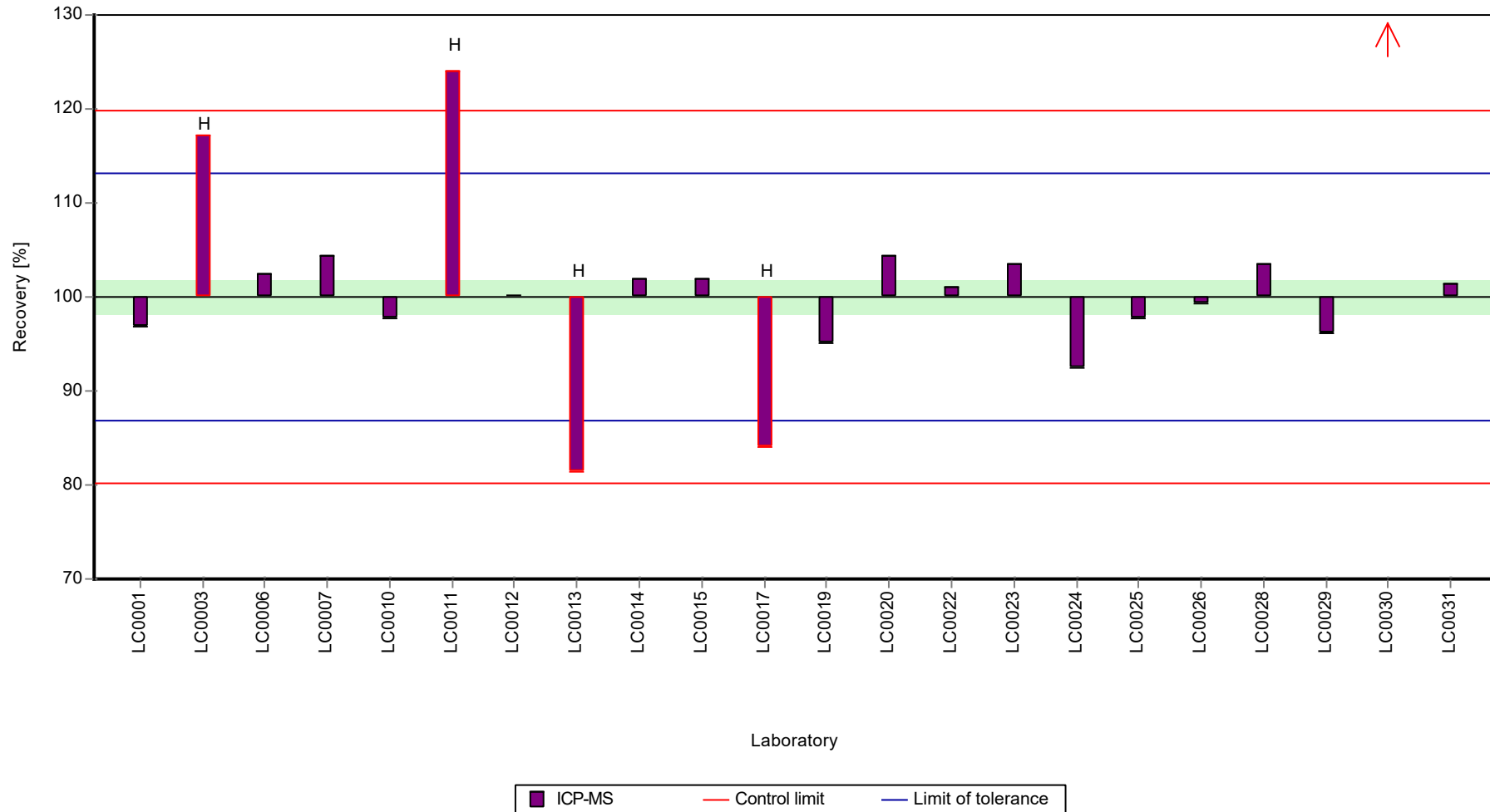
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Uranium

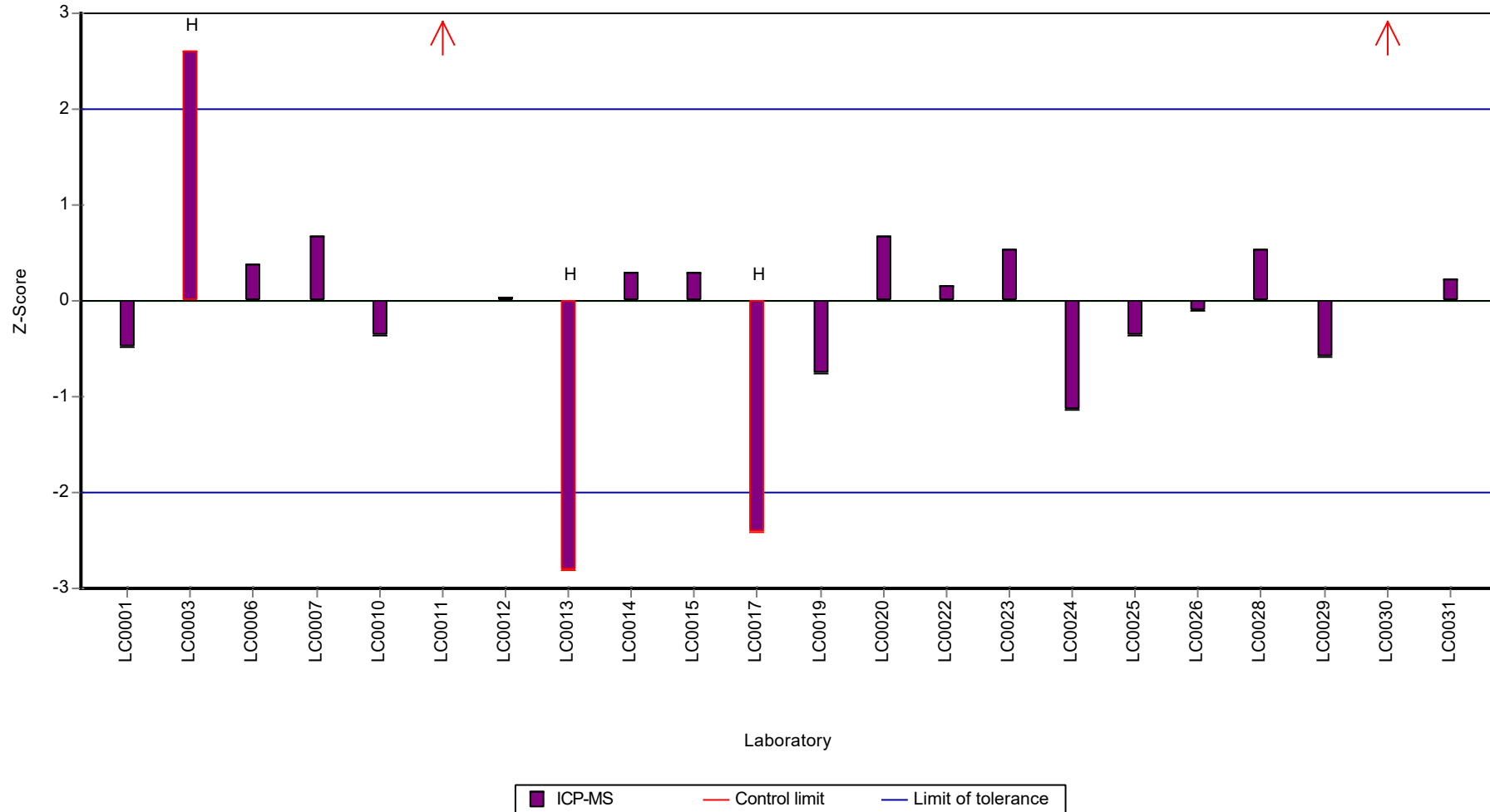
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Uranium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Uranium

Parameter oriented report

M170 B

Uranium

Unit	µg/l
Assigned value ± U (k=2)	1.83 ± 0.0526
Criterion	0.121 (6.6 %)
Minimum - Maximum	1.58 - 2.14
Control test value ± U (k=2)	1.93 ± 0.193

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.79	0.2685	97.8	-0.33	
LC0002	-	-	-	-	
LC0003	2.14	0.11	117	2.56	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	1.758	0.2389	96.1	-0.6	
LC0007	1.87	0.01	102	0.33	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	1.85	0.167	101	0.16	
LC0011	1.92	0.0908	105	0.74	
LC0012	1.92	0.19	105	0.74	
LC0013	1.4	0.161	76.5	-3.56	H
LC0014	1.68	0.34	91.8	-1.24	
LC0015	2	0.2	109	1.41	
LC0016	-	-	-	-	
LC0017	1.58	0.03	86.3	-2.07	
LC0018	-	-	-	-	
LC0019	1.755	0.263	95.9	-0.62	
LC0020	1.86	0.0959	102	0.25	
LC0021	-	-	-	-	
LC0022	1.84	0.28	101	0.08	
LC0023	1.89	0.28	103	0.5	
LC0024	1.75	0.088	95.6	-0.66	
LC0025	1.81	0.55	98.9	-0.17	
LC0026	1.85	0.277	101	0.16	
LC0027	-	-	-	-	
LC0028	1.88	0.094	103	0.41	
LC0029	1.716	0.2059	93.8	-0.95	
LC0030	1.69	0.25	92.3	-1.16	
LC0031	1.885	0.283	103	0.45	

Parameter oriented report Metals and trace elements
 M170

Sample: M170B, Parameter: Uranium

Characteristics of parameter

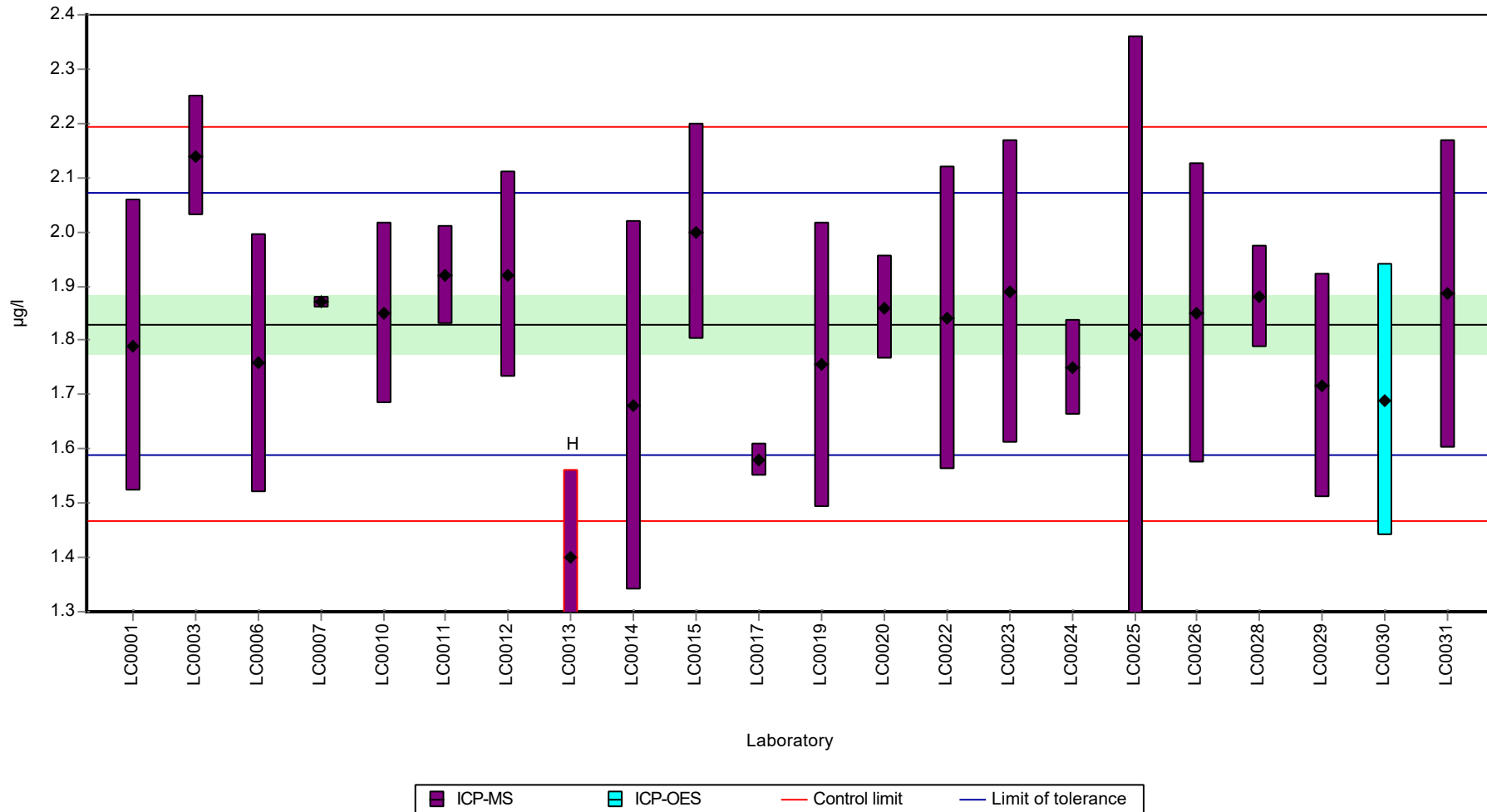
	all results	without outliers	Unit
Mean ± CI (99%)	1.81 ± 0.0954	1.83 ± 0.0789	µg/l
Minimum	1.4	1.58	µg/l
Maximum	2.14	2.14	µg/l
Standard deviation	0.149	0.121	µg/l
rel. standard deviation	8.24	6.59	%
n	22	21	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Uranium

Graphical presentation of results

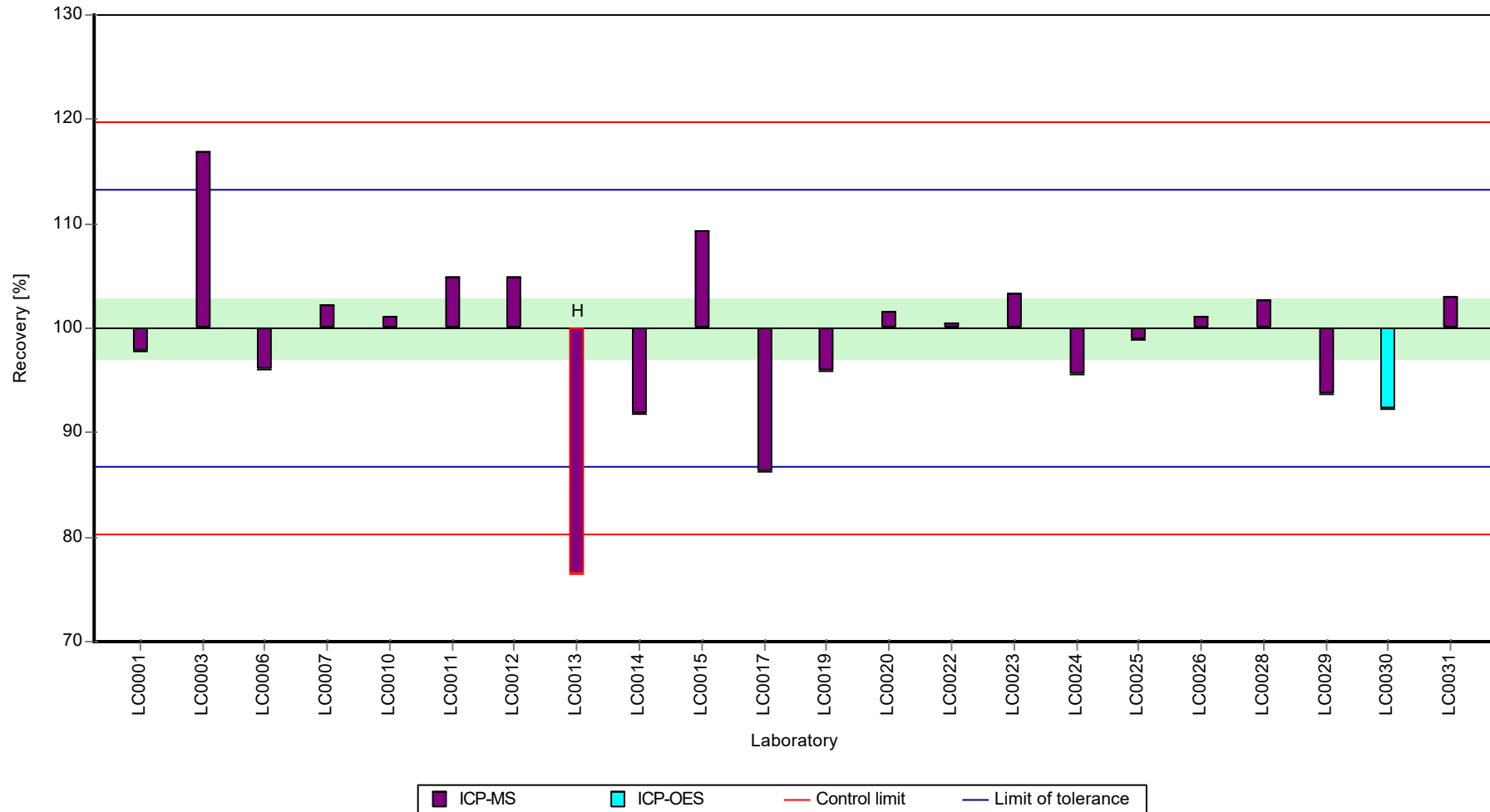
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Uranium

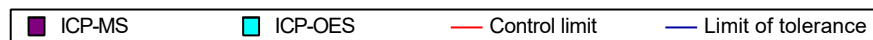
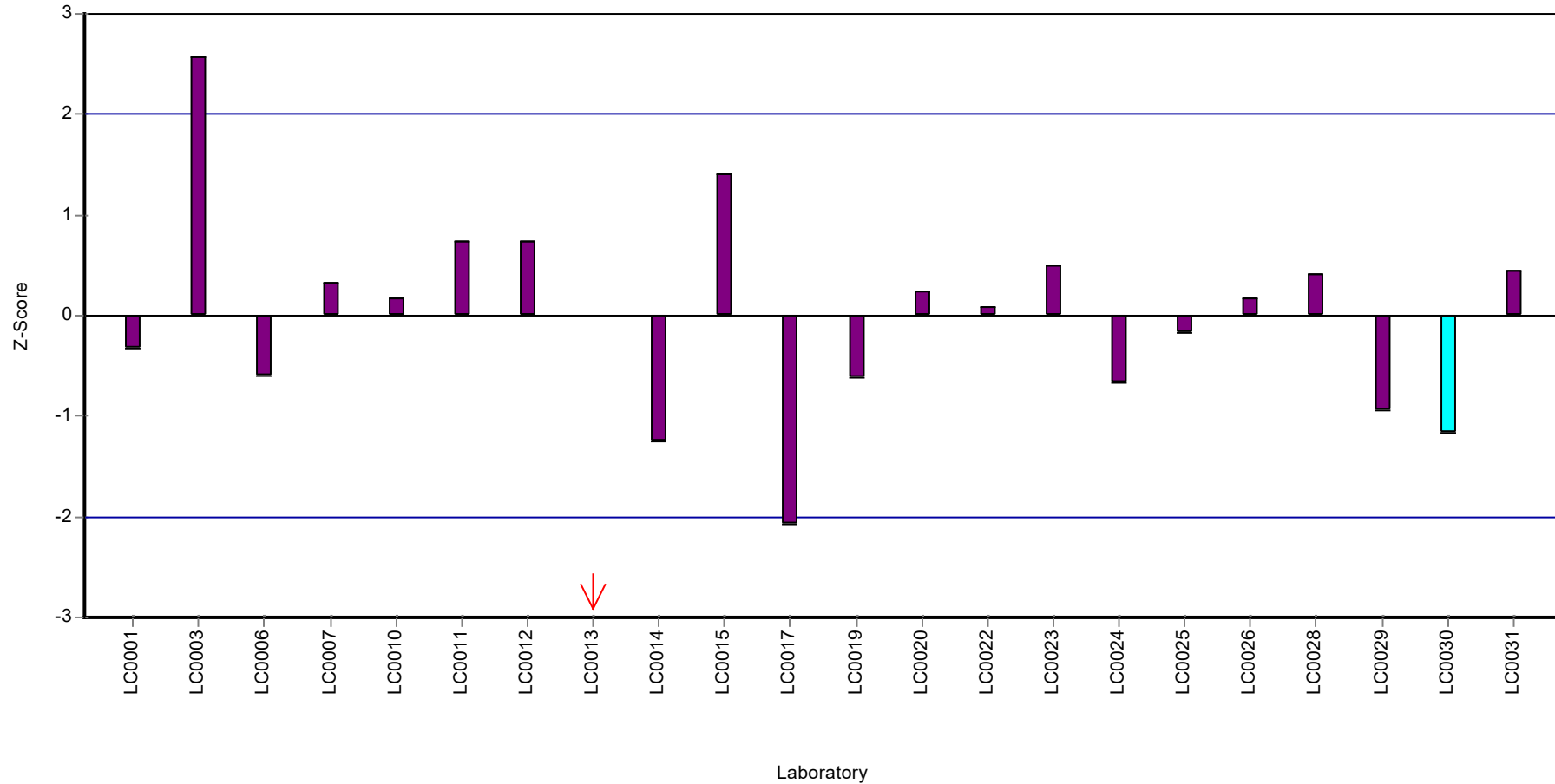
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Uranium

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Zinc

Parameter oriented report

M170 A

Zinc

Unit	µg/l
Assigned value ± U (k=2)	394 ± 13
Criterion	35.4 (9 %)
Minimum - Maximum	329 - 450
Control test value ± U (k=2)	369 ± 33.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	411	82.2	104	0.49	
LC0002	-	-	-	-	
LC0003	344	22	87.4	-1.4	
LC0004	372.6	61.1	94.7	-0.59	
LC0005	16.359	2.454	4.2	-10.65	H
LC0006	448.9	77.9	114	1.56	
LC0007	403	3.22	102	0.26	
LC0008	387.46	46.9989	98.4	-0.17	
LC0009	-	-	-	-	
LC0010	413	28.9	105	0.55	
LC0011	330.8	1.58	84	-1.77	
LC0012	441	44	112	1.34	
LC0013	441.1	72.78	112	1.34	
LC0014	383	77	97.3	-0.3	
LC0015	368	36.8	93.5	-0.72	
LC0016	409.63	20.32	104	0.45	
LC0017	404.6	26.39	103	0.31	
LC0018	399.15	87.8	101	0.16	
LC0019	362.854	54.428	92.2	-0.87	
LC0020	428	1.7	109	0.97	
LC0021	261	39.2	66.3	-3.74	H
LC0022	377	57	95.8	-0.47	
LC0023	329	49.4	83.6	-1.82	
LC0024	350	18	88.9	-1.23	
LC0025	413	104	105	0.55	
LC0026	400	59.9	102	0.18	
LC0027	450	45	114	1.59	
LC0028	408	40.8	104	0.41	
LC0029	362.6	50.76	92.1	-0.88	
LC0030	398	50	101	0.12	
LC0031	392.606	27.44	99.7	-0.03	

Parameter oriented report Metals and trace elements
M170

Sample: M170A, Parameter: Zinc

Characteristics of parameter

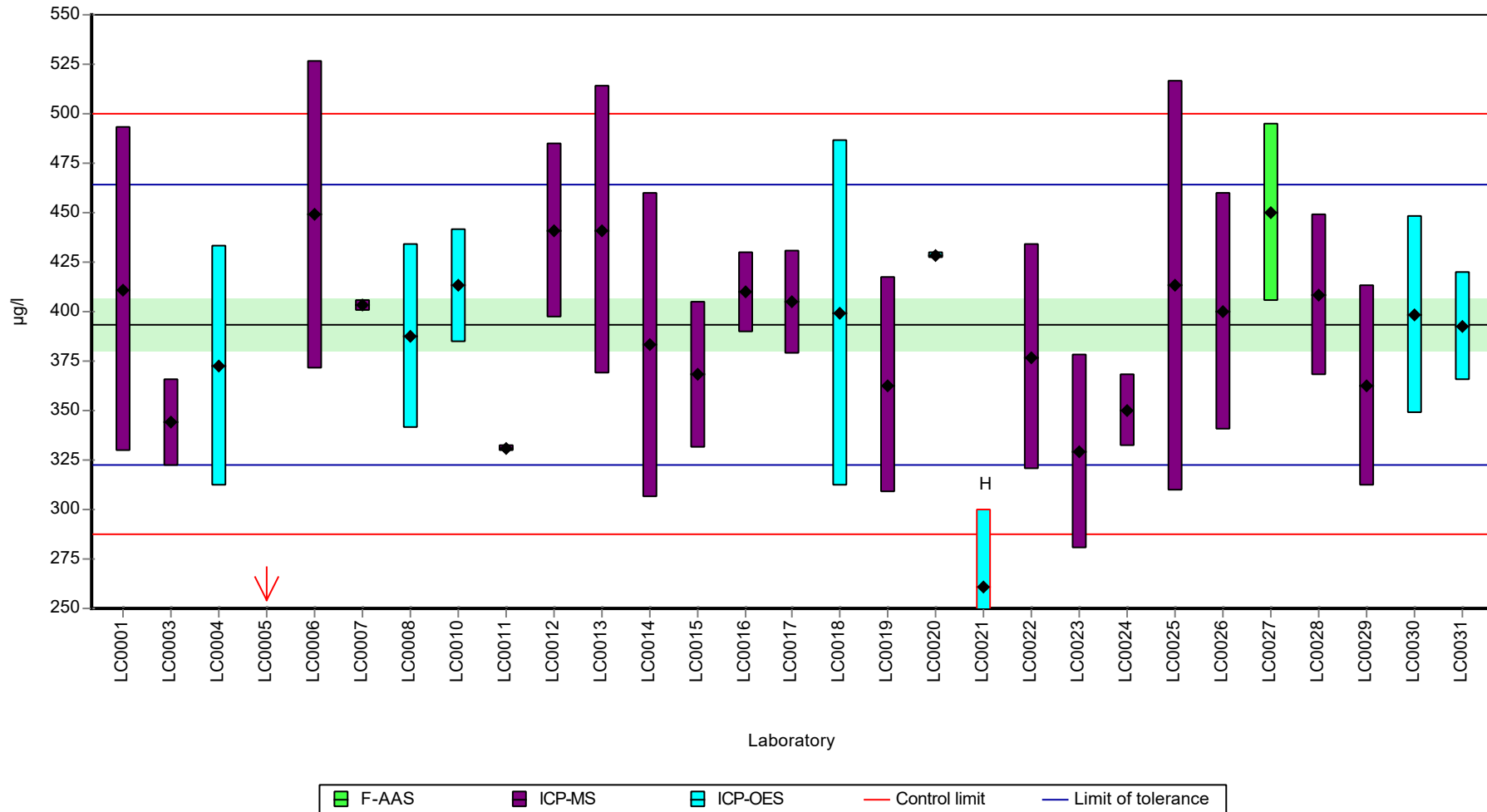
	all results	without outliers	Unit
Mean ± CI (99%)	376 ± 44.7	394 ± 19.5	µg/l
Minimum	16.4	329	µg/l
Maximum	450	450	µg/l
Standard deviation	80.3	33.8	µg/l
rel. standard deviation	21.4	8.58	%
n	29	27	-

Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Zinc

Graphical presentation of results

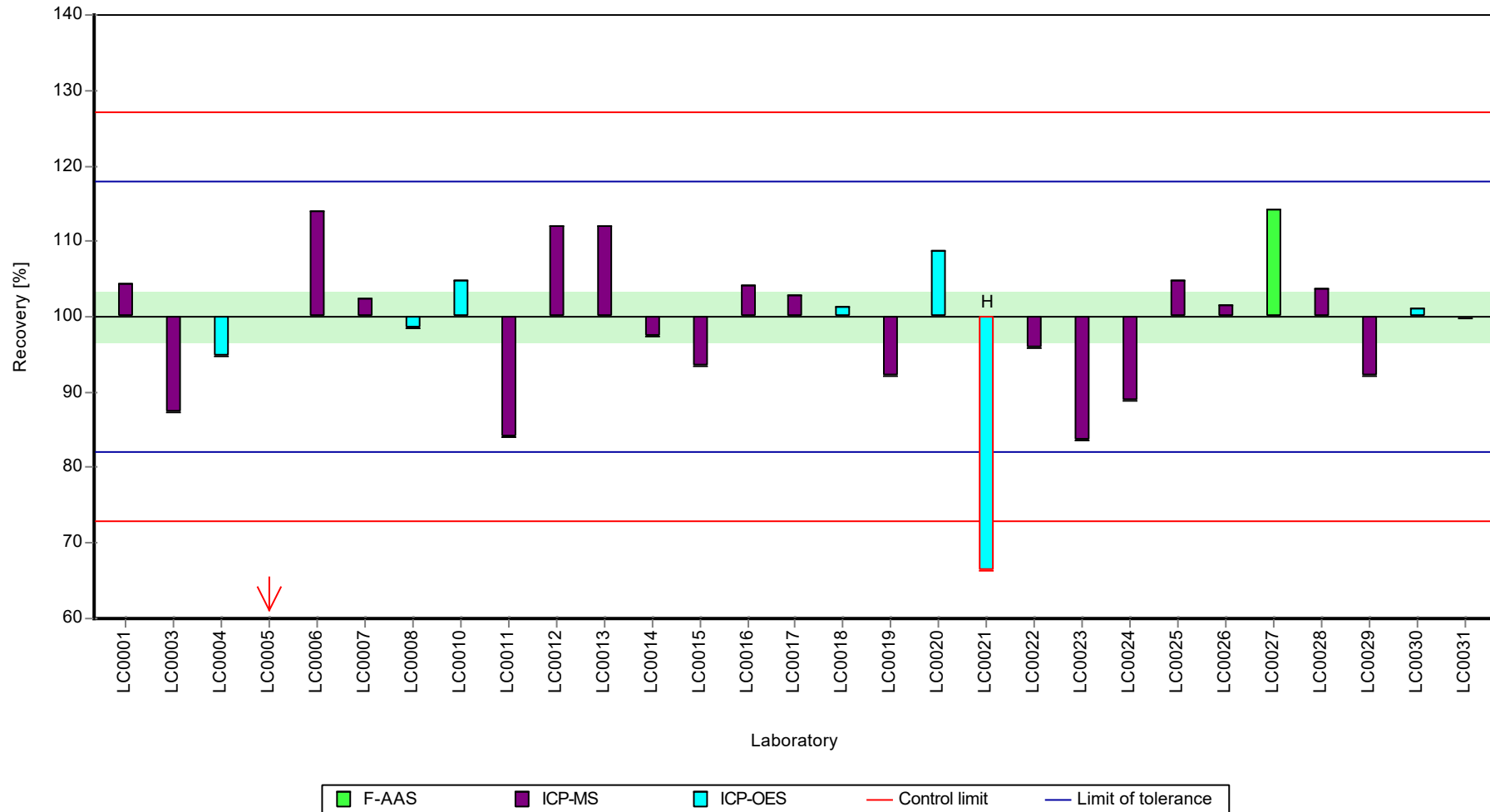
Results



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Zinc

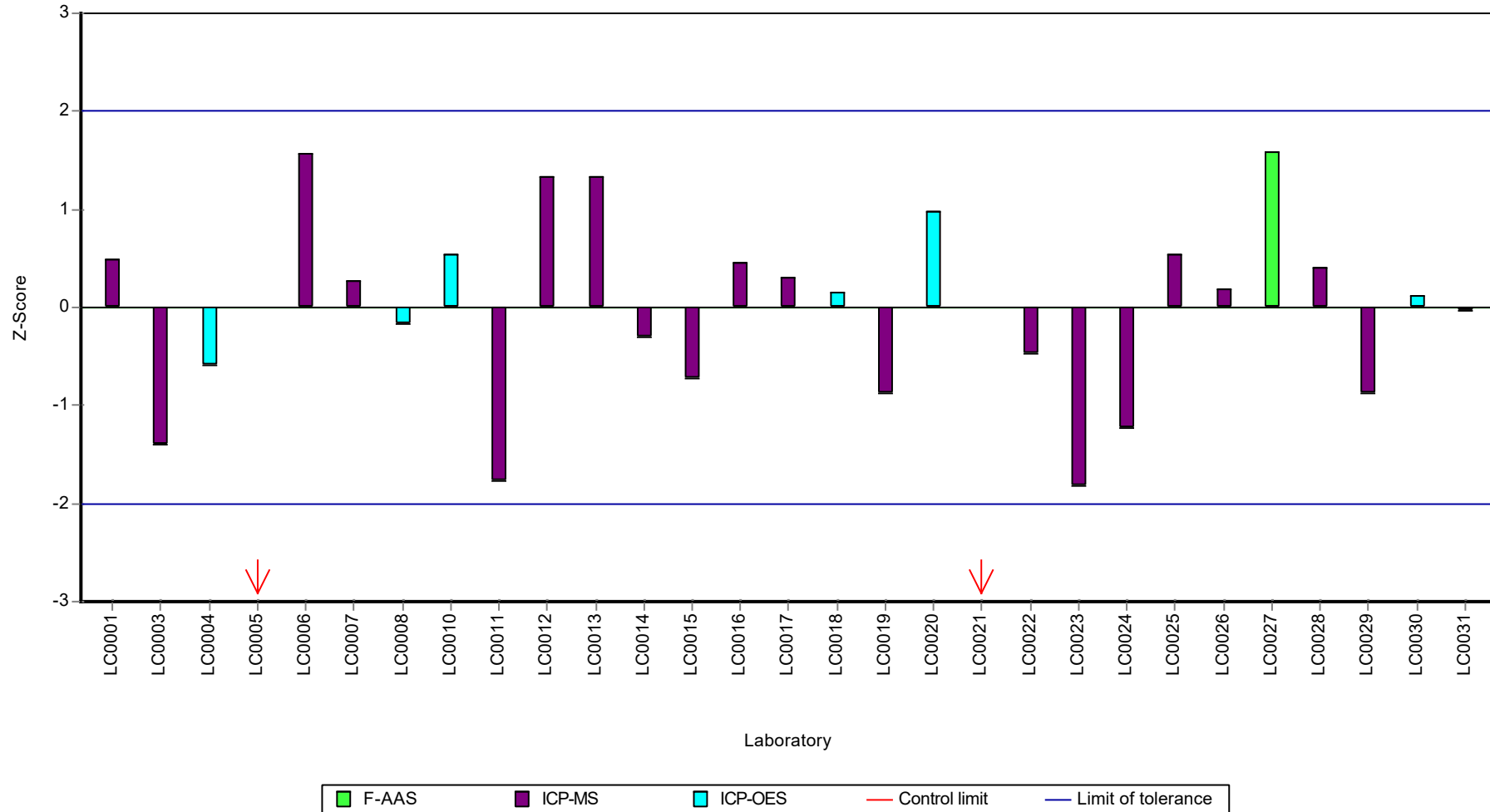
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170A, Parameter: Zinc

Z-score



Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Zinc

Parameter oriented report

M170 B

Zinc

Unit	µg/l
Assigned value ± U (k=2)	99.4 ± 2.59
Criterion	8.94 (9 %)
Minimum - Maximum	86.5 - 111
Control test value ± U (k=2)	94.9 ± 8.54

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	99.6	19.92	100	0.03	
LC0002	-	-	-	-	
LC0003	86.5	5.6	87	-1.44	
LC0004	93.5	15.3	94.1	-0.66	
LC0005	33.72	5.058	33.9	-7.34	H
LC0006	111.3	19.32	112	1.33	
LC0007	98.6	2.02	99.2	-0.09	
LC0008	96.93	11.75761	97.5	-0.27	
LC0009	-	-	-	-	
LC0010	101	7.1	102	0.18	
LC0011	98.6	1.48	99.2	-0.09	
LC0012	109	11	110	1.08	
LC0013	109.9	18.1	111	1.18	
LC0014	94.8	19	95.4	-0.51	
LC0015	106	10.6	107	0.74	
LC0016	108.51	5.38	109	1.02	
LC0017	99.58	6.46	100	0.02	
LC0018	92.5	20.4	93.1	-0.77	
LC0019	91.126	13.669	91.7	-0.92	
LC0020	107	1.67	108	0.85	
LC0021	88.3	13.25	88.9	-1.24	
LC0022	94.8	14	95.4	-0.51	
LC0023	92.9	13.9	93.5	-0.72	
LC0024	93.2	4.7	93.8	-0.69	
LC0025	102	26	103	0.29	
LC0026	102	15.2	103	0.29	
LC0027	111	10	112	1.3	
LC0028	96	9.6	96.6	-0.38	
LC0029	96.83	18.4	97.4	-0.28	
LC0030	100	13	101	0.07	
LC0031	101.019	7.071	102	0.18	

Parameter oriented report Metals and trace elements
M170

Sample: M170B, Parameter: Zinc

Characteristics of parameter

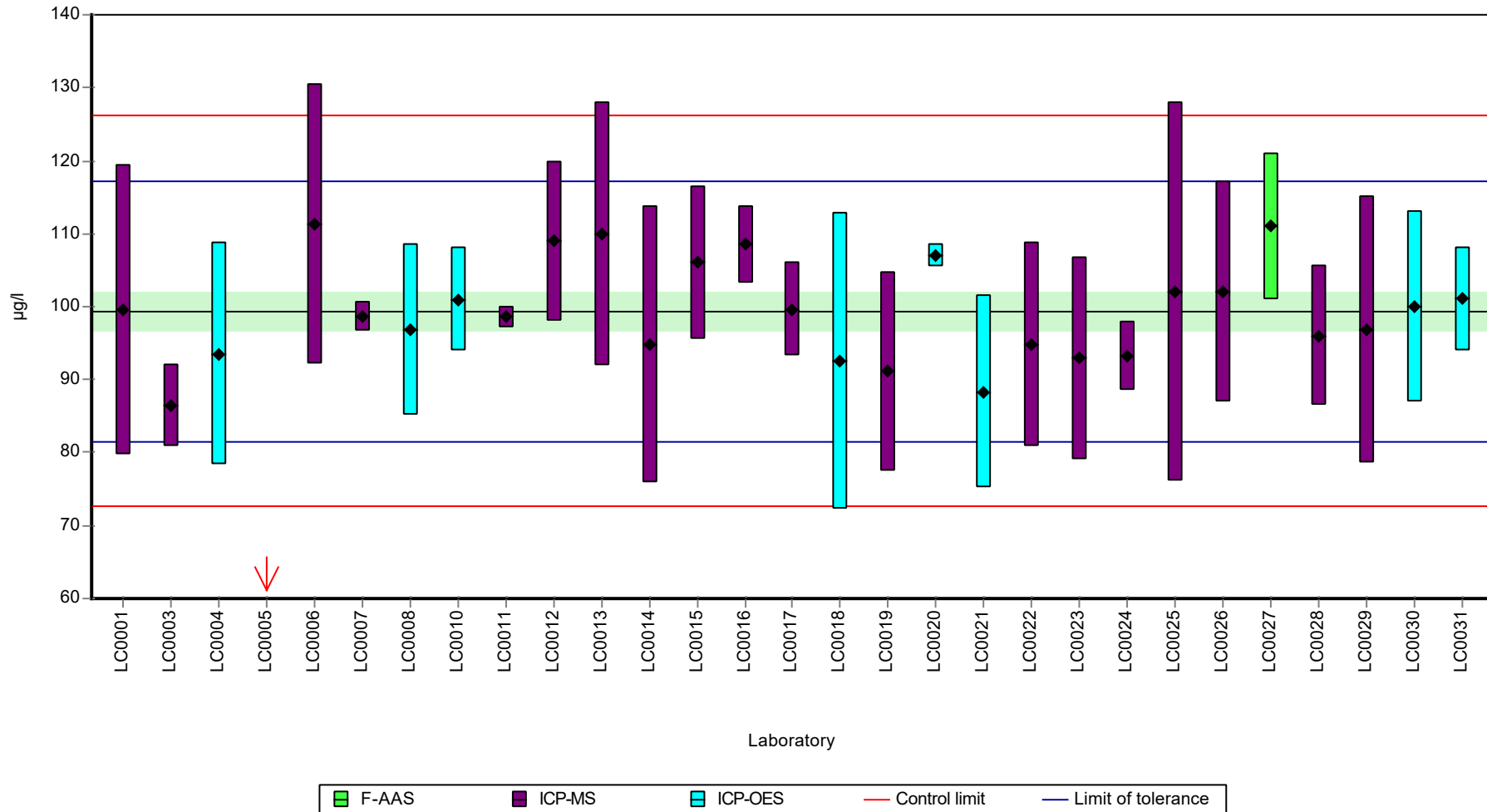
	all results	without outliers	Unit
Mean ± CI (99%)	97.1 ± 7.76	99.4 ± 3.89	µg/l
Minimum	33.7	86.5	µg/l
Maximum	111	111	µg/l
Standard deviation	13.9	6.86	µg/l
rel. standard deviation	14.3	6.9	%
n	29	28	-

Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Zinc

Graphical presentation of results

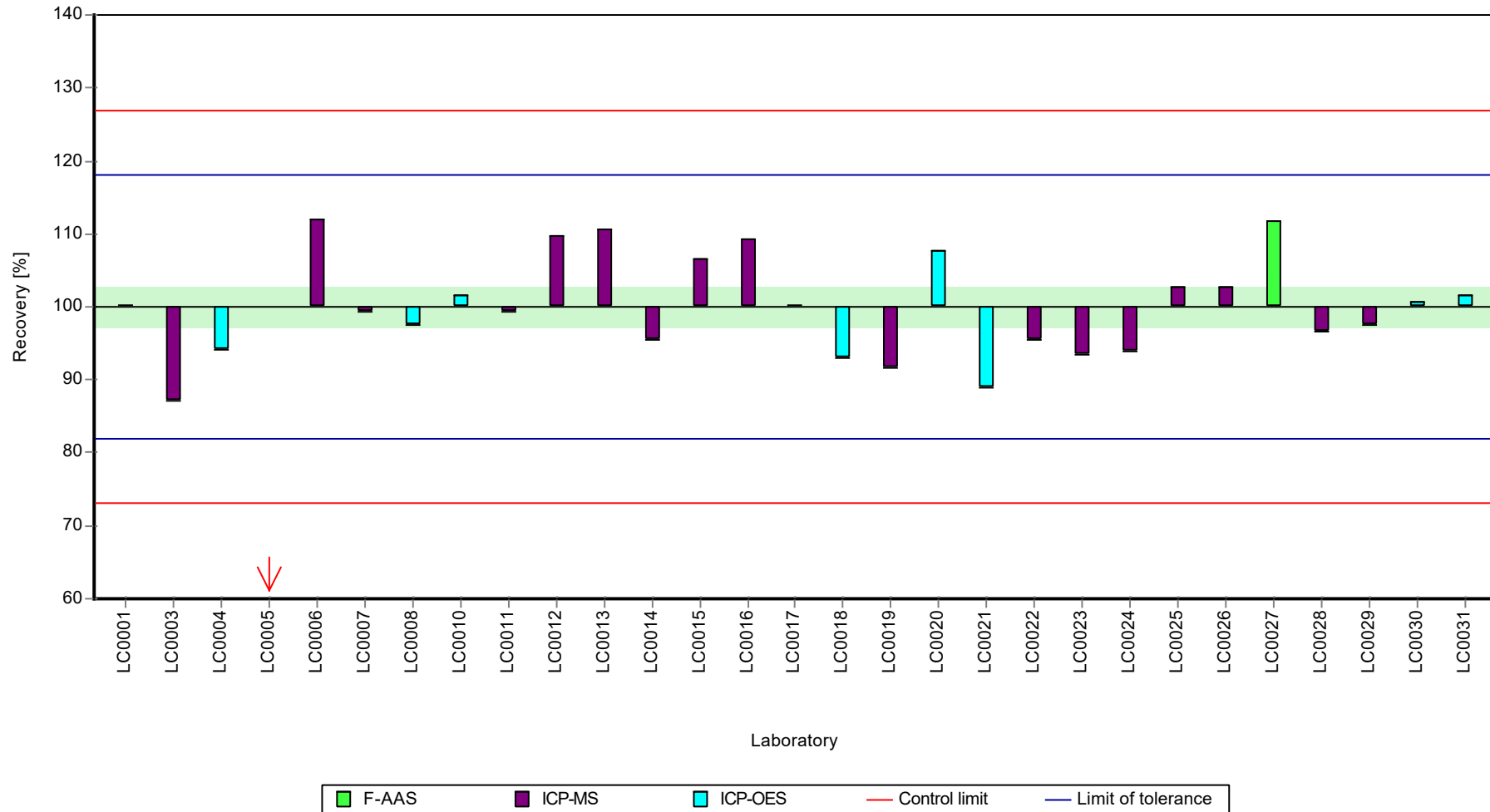
Results



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Zinc

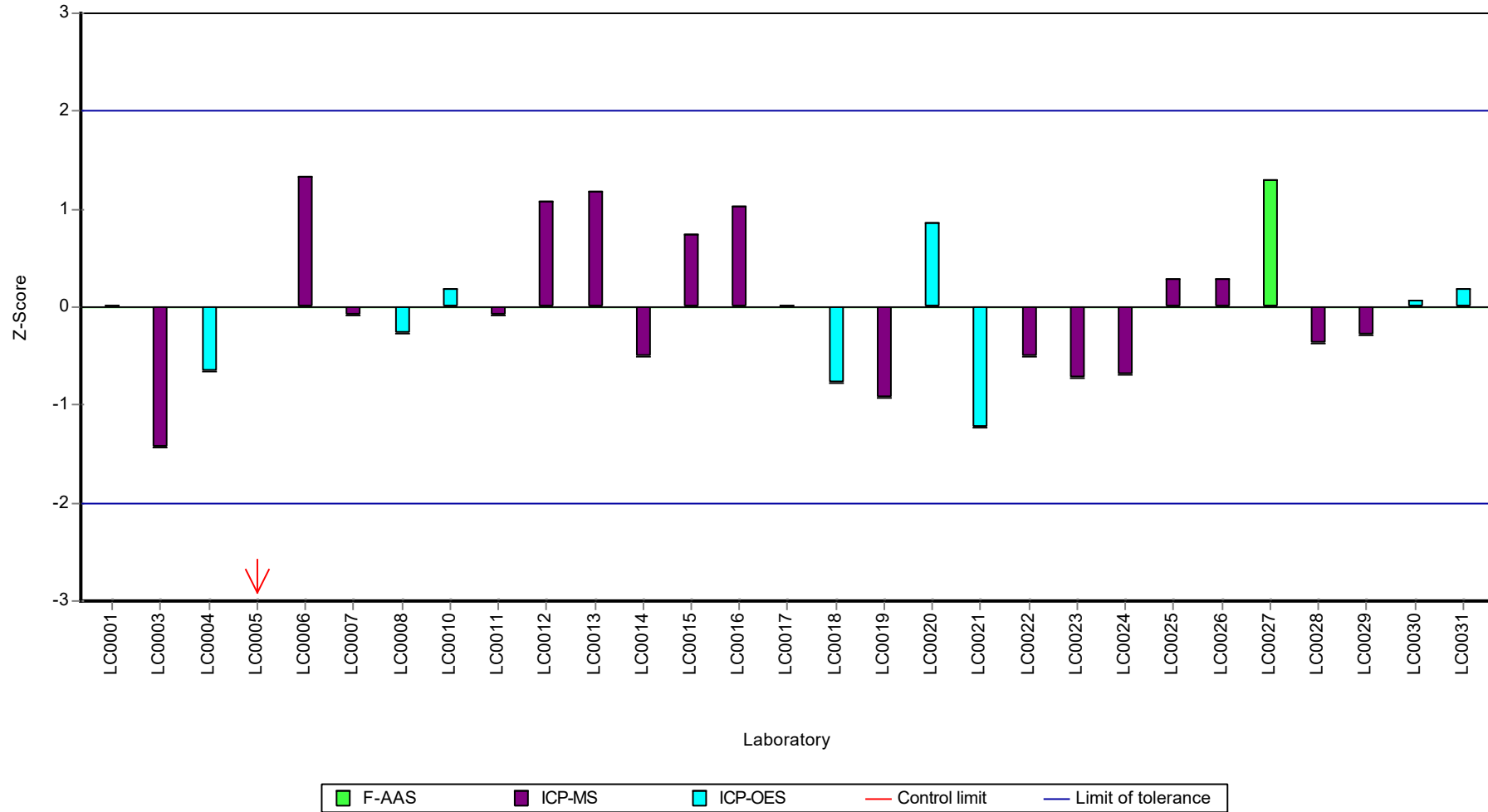
Recovery rate



Parameter oriented report Metals and trace elements M170

Sample: M170B, Parameter: Zinc

Z-score



E8. Labororientierte Auswertung / Laboratory oriented report

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	14.1 ± 2.115	1.34	105	0.55
Arsenic	µg/l	1.28 ± 0.0432	1.19 ± 0.238	0.166	93.2	-0.52
Cadmium	µg/l	0.423 ± 0.0105	0.442 ± 0.0663	0.0423	104	0.45
Chromium	µg/l	1.97 ± 0.0625	2.18 ± 0.327	0.168	111	1.24
Copper	µg/l	9.74 ± 0.205	9.64 ± 1.446	0.876	99	-0.11
Iron	µg/l	27.1 ± 1.21	27.2 ± 4.08	2.98	100	0.03
Lead	µg/l	1.22 ± 0.0465	1.15 ± 0.23	0.183	94.2	-0.39
Manganese	µg/l	17.3 ± 0.596	17.4 ± 2.61	1.24	101	0.09
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.336	0.26	103	0.27
Selenium	µg/l	4.24 ± 0.17	3.96 ± 0.99	0.509	93.3	-0.56
Uranium	µg/l	1.18 ± 0.0201	1.14 ± 0.171	0.0777	96.8	-0.49
Zinc	µg/l	394 ± 13	411 ± 82.2	35.4	104	0.49

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.2895 ± 0.07238	0.0351	116	1.11

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	66.7 ± 10.005	6.33	105	0.54
Arsenic	µg/l	5.14 ± 0.0899	4.99 ± 0.998	0.668	97	-0.23
Cadmium	µg/l	2.76 ± 0.0512	2.85 ± 0.4275	0.276	103	0.33
Chromium	µg/l	1.89 ± 0.0697	2.03 ± 0.3045	0.16	108	0.89
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.175	1.34	97.7	-0.25
Iron	µg/l	99.3 ± 2.38	101.7 ± 15.255	10.9	102	0.22
Lead	µg/l	3.92 ± 0.0984	3.78 ± 0.756	0.588	96.4	-0.24
Manganese	µg/l	21.5 ± 0.422	21.6 ± 3.24	1.55	101	0.08
Nickel	µg/l	16.7 ± 0.345	16.8 ± 2.52	2.01	101	0.04
Selenium	µg/l	4.46 ± 0.123	4.25 ± 1.0625	0.535	95.2	-0.40
Uranium	µg/l	1.83 ± 0.0526	1.79 ± 0.2685	0.121	97.8	-0.33

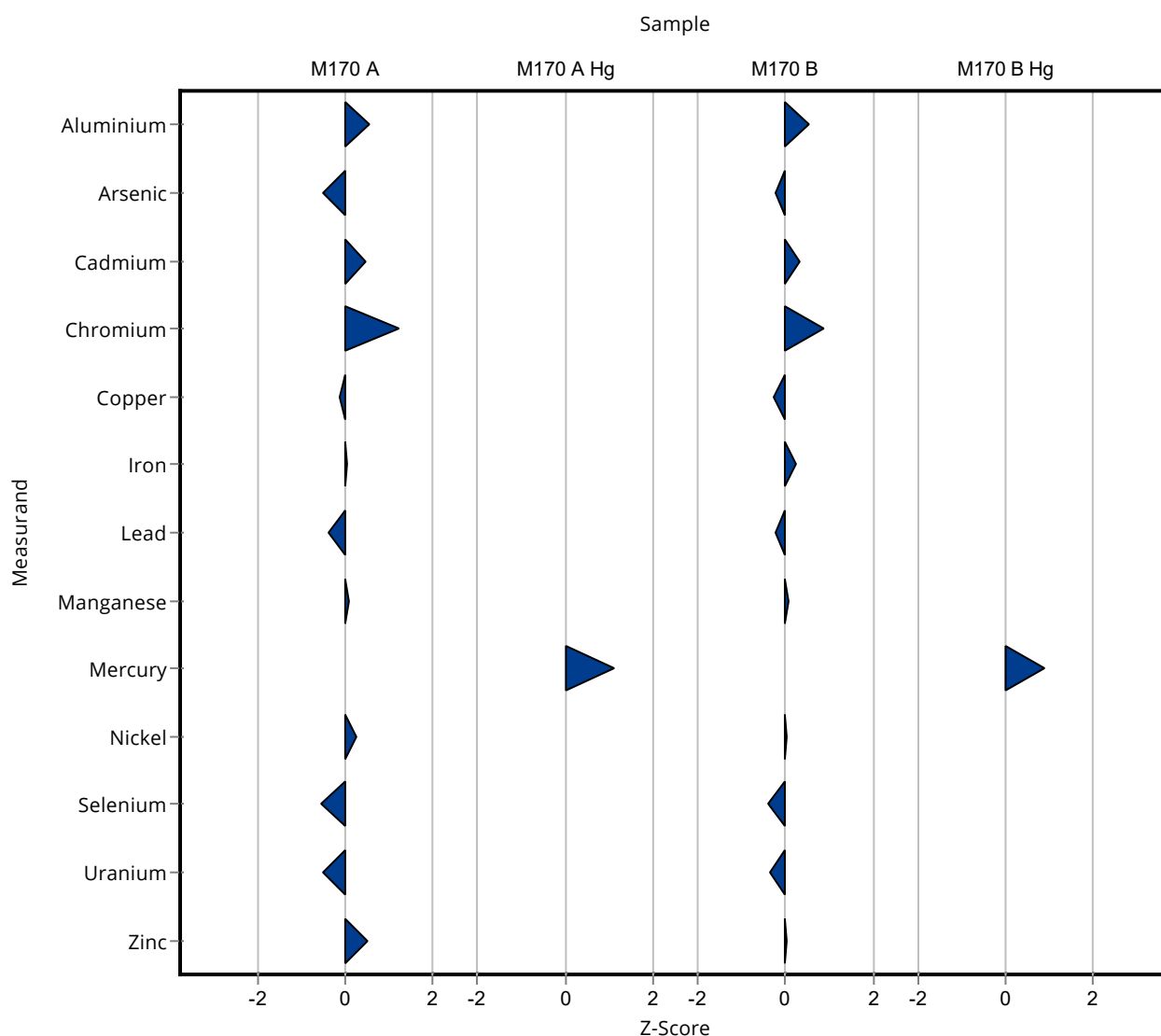
Summary of results Metals and trace elements M170

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	99.6 ± 19.92	8.94	100	0.03

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.8925 ± 0.2231	0.111	113	0.90



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	14.1 ± 2.115	1.34	105	0.17
Arsenic	µg/l	1.28 ± 0.0432	1.19 ± 0.238	0.166	93.2	-0.18
Cadmium	µg/l	0.423 ± 0.0105	0.442 ± 0.0663	0.0423	104	0.14
Chromium	µg/l	1.97 ± 0.0625	2.18 ± 0.327	0.168	111	0.32
Copper	µg/l	9.74 ± 0.205	9.64 ± 1.446	0.876	99	-0.03
Iron	µg/l	27.1 ± 1.21	27.2 ± 4.08	2.98	100	0.01
Lead	µg/l	1.22 ± 0.0465	1.15 ± 0.23	0.183	94.2	-0.15
Manganese	µg/l	17.3 ± 0.596	17.4 ± 2.61	1.24	101	0.02
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.336	0.26	103	0.10
Selenium	µg/l	4.24 ± 0.17	3.96 ± 0.99	0.509	93.3	-0.14
Uranium	µg/l	1.18 ± 0.0201	1.14 ± 0.171	0.0777	96.8	-0.11
Zinc	µg/l	394 ± 13	411 ± 82.2	35.4	104	0.11

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.2895 ± 0.07238	0.0351	116	0.27

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	66.7 ± 10.005	6.33	105	0.17
Arsenic	µg/l	5.14 ± 0.0899	4.99 ± 0.998	0.668	97	-0.08
Cadmium	µg/l	2.76 ± 0.0512	2.85 ± 0.4275	0.276	103	0.11
Chromium	µg/l	1.89 ± 0.0697	2.03 ± 0.3045	0.16	108	0.23
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.175	1.34	97.7	-0.08

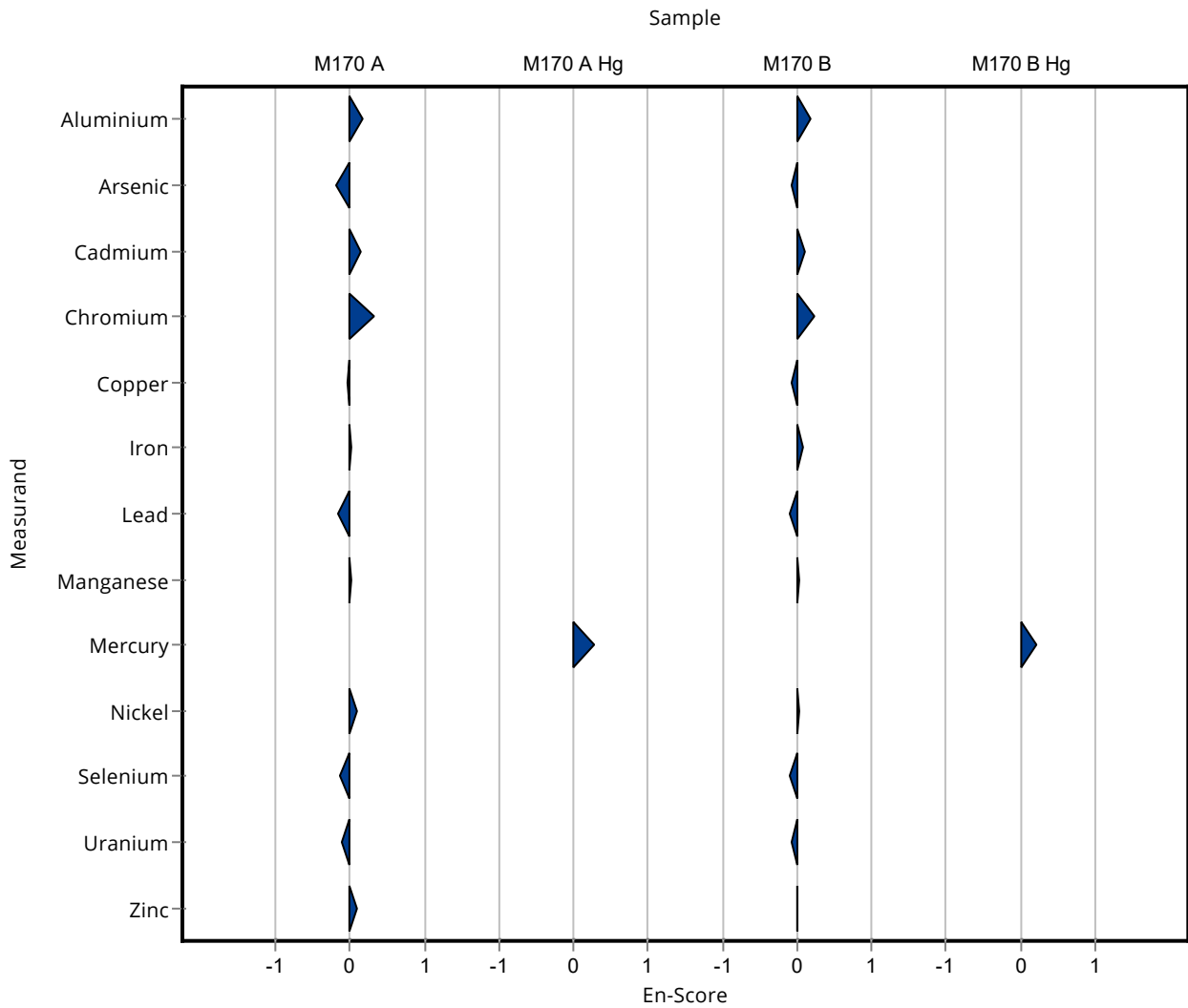
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	101.7 ± 15.255	10.9	102	0.08
Lead	µg/l	3.92 ± 0.0984	3.78 ± 0.756	0.588	96.4	-0.09
Manganese	µg/l	21.5 ± 0.422	21.6 ± 3.24	1.55	101	0.02
Nickel	µg/l	16.7 ± 0.345	16.8 ± 2.52	2.01	101	0.02
Selenium	µg/l	4.46 ± 0.123	4.25 ± 1.0625	0.535	95.2	-0.10
Uranium	µg/l	1.83 ± 0.0526	1.79 ± 0.2685	0.121	97.8	-0.07
Zinc	µg/l	99.4 ± 2.59	99.6 ± 19.92	8.94	100	0.01

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.8925 ± 0.2231	0.111	113	0.22



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	25.3 ± 6.3	1.34	189	8.93
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10 ± 1	0.876	103	0.30
Iron	µg/l	27.1 ± 1.21	23.4 ± 2.8	2.98	86.3	-1.24
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	15.6 ± 2.5	1.24	90.2	-1.36
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	- ± -	35.4	-	-

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	74 ± 18	6.33	117	1.69
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	14.8 ± 1.7	1.34	99.8	-0.03
Iron	µg/l	99.3 ± 2.38	92 ± 11	10.9	92.7	-0.66
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	19.7 ± 3.2	1.55	91.8	-1.15
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

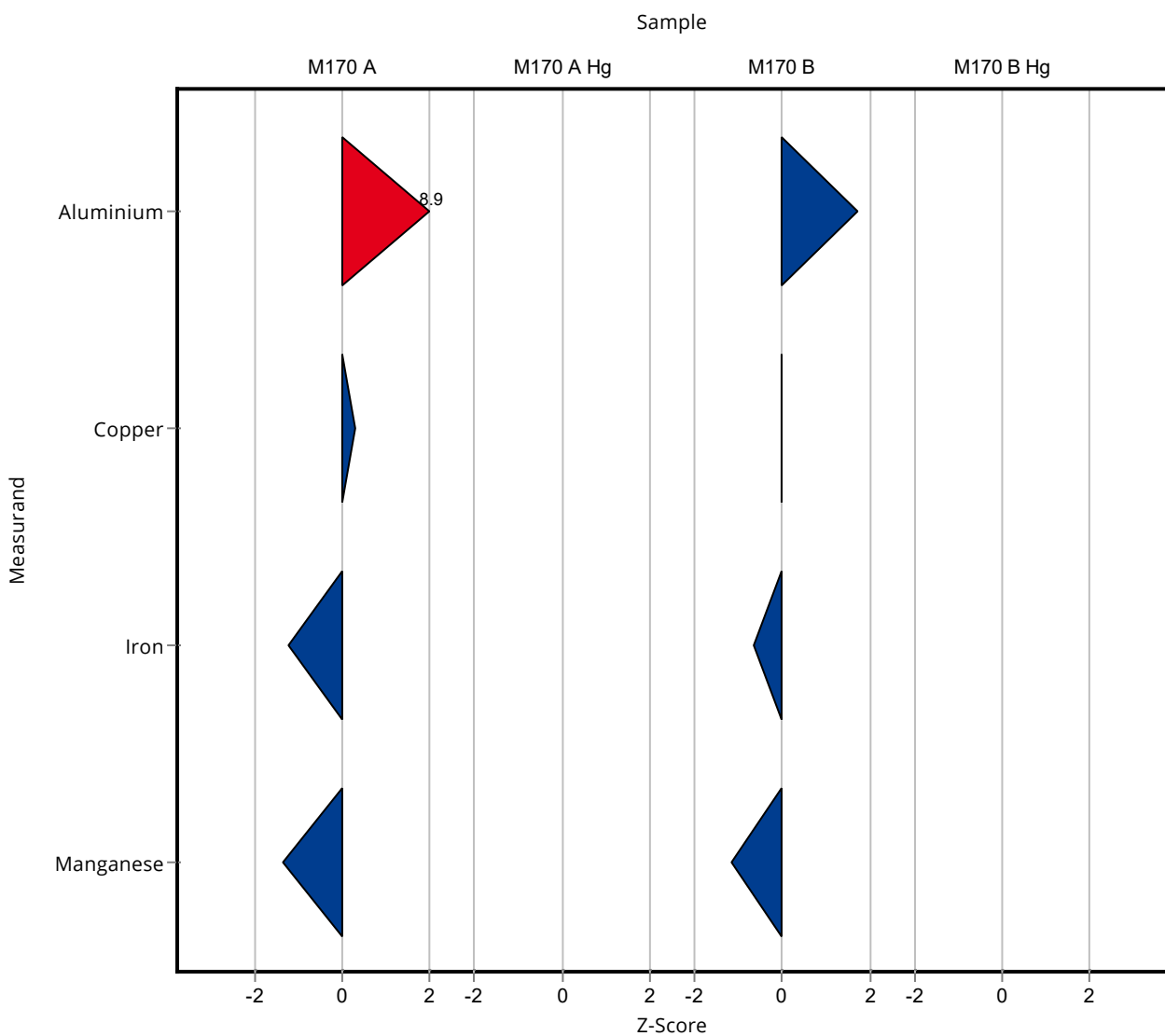
Summary of results Metals and trace elements M170

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	- ± -	8.94	-	-

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	25.3 ± 6.3	1.34	189	0.95
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10 ± 1	0.876	103	0.13
Iron	µg/l	27.1 ± 1.21	23.4 ± 2.8	2.98	86.3	-0.65
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	15.6 ± 2.5	1.24	90.2	-0.34
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	- ± -	35.4	-	-

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	74 ± 18	6.33	117	0.30
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	14.8 ± 1.7	1.34	99.8	-0.01

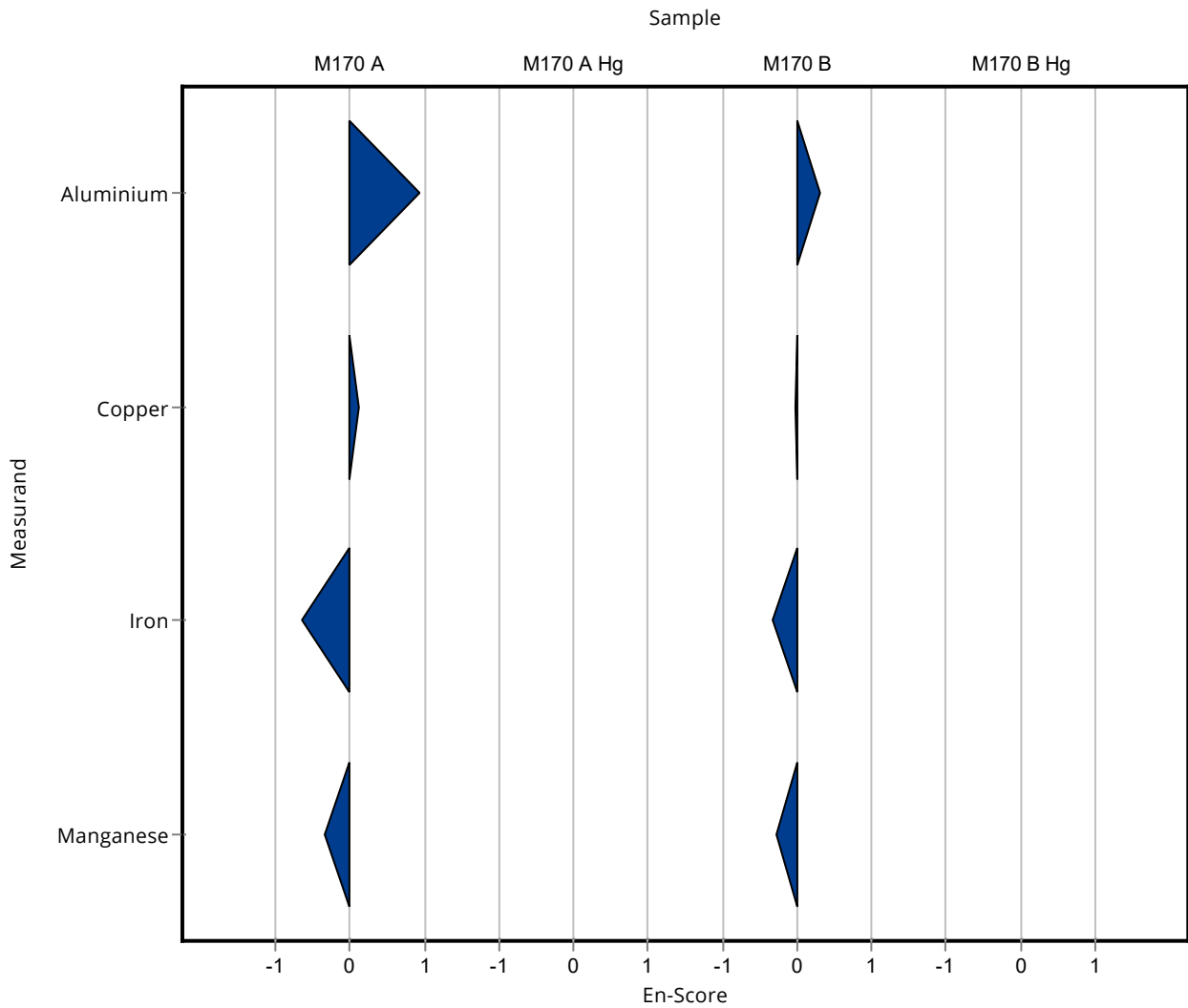
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	92 ± 11	10.9	92.7	-0.33
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	19.7 ± 3.2	1.55	91.8	-0.28
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	- ± -	8.94	-	-

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.8 ± 0.69	1.34	103	0.32
Arsenic	µg/l	1.28 ± 0.0432	1.37 ± 0.19	0.166	107	0.56
Cadmium	µg/l	0.423 ± 0.0105	0.421 ± 0.016	0.0423	99.5	-0.05
Chromium	µg/l	1.97 ± 0.0625	2.33 ± 0.14	0.168	118	2.13
Copper	µg/l	9.74 ± 0.205	9.8 ± 0.25	0.876	101	0.07
Iron	µg/l	27.1 ± 1.21	32.6 ± 2	2.98	120	1.84
Lead	µg/l	1.22 ± 0.0465	1.27 ± 0.076	0.183	104	0.27
Manganese	µg/l	17.3 ± 0.596	19.2 ± 0.96	1.24	111	1.53
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.18	0.26	103	0.27
Selenium	µg/l	4.24 ± 0.17	4.12 ± 0.58	0.509	97.1	-0.24
Uranium	µg/l	1.18 ± 0.0201	1.38 ± 0.068	0.0777	117	2.60
Zinc	µg/l	394 ± 13	344 ± 22	35.4	87.4	-1.40

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.221 ± 0.015	0.0351	88.3	-0.84

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	65.8 ± 3.3	6.33	104	0.40
Arsenic	µg/l	5.14 ± 0.0899	5.34 ± 0.75	0.668	104	0.30
Cadmium	µg/l	2.76 ± 0.0512	2.71 ± 0.11	0.276	98.2	-0.18
Chromium	µg/l	1.89 ± 0.0697	2.18 ± 0.13	0.16	115	1.82
Copper	µg/l	14.8 ± 0.283	14.7 ± 0.37	1.34	99.1	-0.10
Iron	µg/l	99.3 ± 2.38	113 ± 6.8	10.9	114	1.26
Lead	µg/l	3.92 ± 0.0984	4.11 ± 0.25	0.588	105	0.32
Manganese	µg/l	21.5 ± 0.422	22 ± 1.1	1.55	102	0.34
Nickel	µg/l	16.7 ± 0.345	17.6 ± 1.4	2.01	105	0.44
Selenium	µg/l	4.46 ± 0.123	4.26 ± 0.6	0.535	95.5	-0.38
Uranium	µg/l	1.83 ± 0.0526	2.14 ± 0.11	0.121	117	2.56

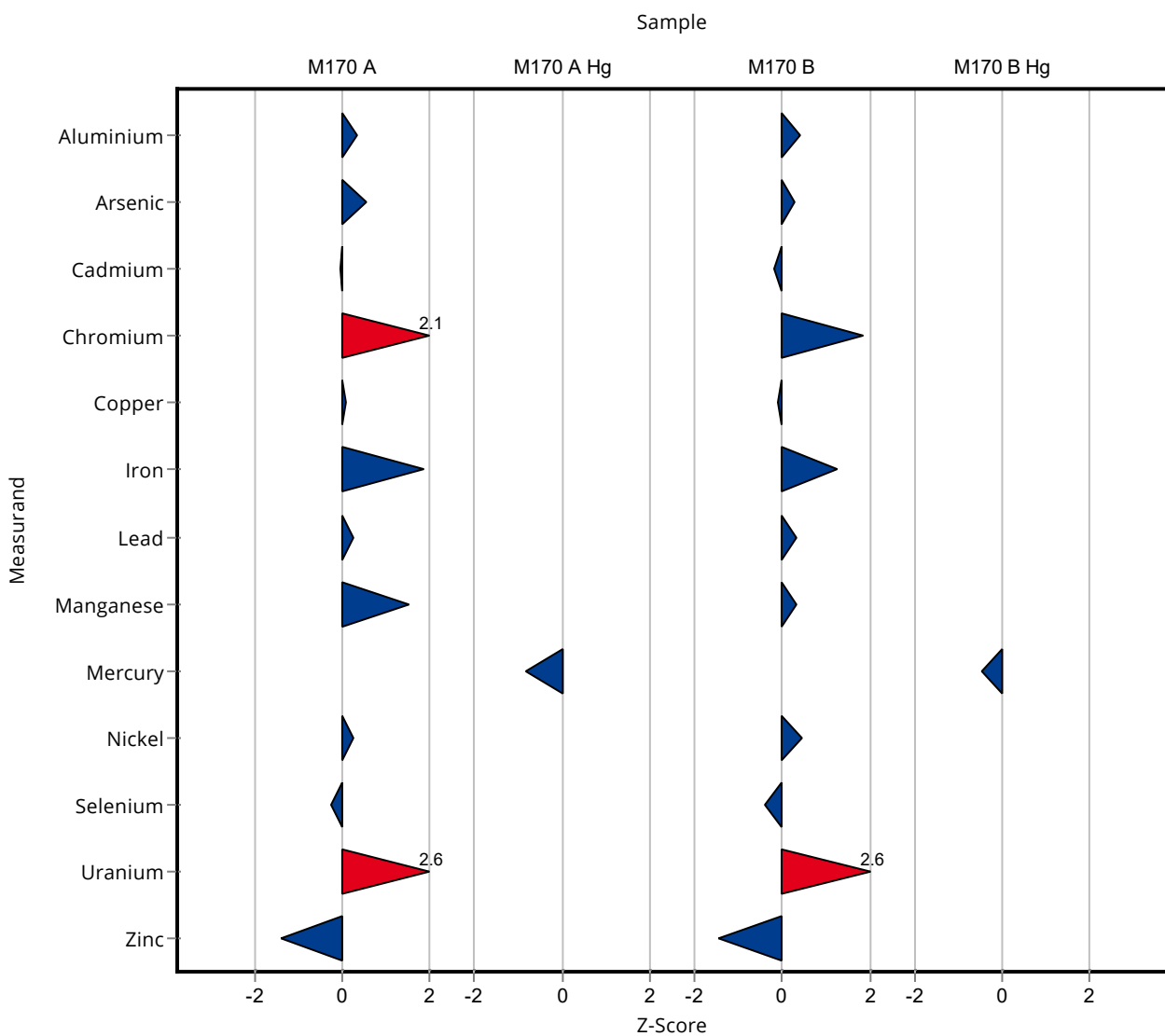
Summary of results Metals and trace elements M170

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	86.5 ± 5.6	8.94	87	-1.44

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.739 ± 0.052	0.111	93.3	-0.48



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.8 ± 0.69	1.34	103	0.29
Arsenic	µg/l	1.28 ± 0.0432	1.37 ± 0.19	0.166	107	0.24
Cadmium	µg/l	0.423 ± 0.0105	0.421 ± 0.016	0.0423	99.5	-0.06
Chromium	µg/l	1.97 ± 0.0625	2.33 ± 0.14	0.168	118	1.25
Copper	µg/l	9.74 ± 0.205	9.8 ± 0.25	0.876	101	0.12
Iron	µg/l	27.1 ± 1.21	32.6 ± 2	2.98	120	1.31
Lead	µg/l	1.22 ± 0.0465	1.27 ± 0.076	0.183	104	0.31
Manganese	µg/l	17.3 ± 0.596	19.2 ± 0.96	1.24	111	0.95
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.18	0.26	103	0.19
Selenium	µg/l	4.24 ± 0.17	4.12 ± 0.58	0.509	97.1	-0.10
Uranium	µg/l	1.18 ± 0.0201	1.38 ± 0.068	0.0777	117	1.47
Zinc	µg/l	394 ± 13	344 ± 22	35.4	87.4	-1.08

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.221 ± 0.015	0.0351	88.3	-0.93

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	65.8 ± 3.3	6.33	104	0.38
Arsenic	µg/l	5.14 ± 0.0899	5.34 ± 0.75	0.668	104	0.13
Cadmium	µg/l	2.76 ± 0.0512	2.71 ± 0.11	0.276	98.2	-0.22
Chromium	µg/l	1.89 ± 0.0697	2.18 ± 0.13	0.16	115	1.09
Copper	µg/l	14.8 ± 0.283	14.7 ± 0.37	1.34	99.1	-0.17

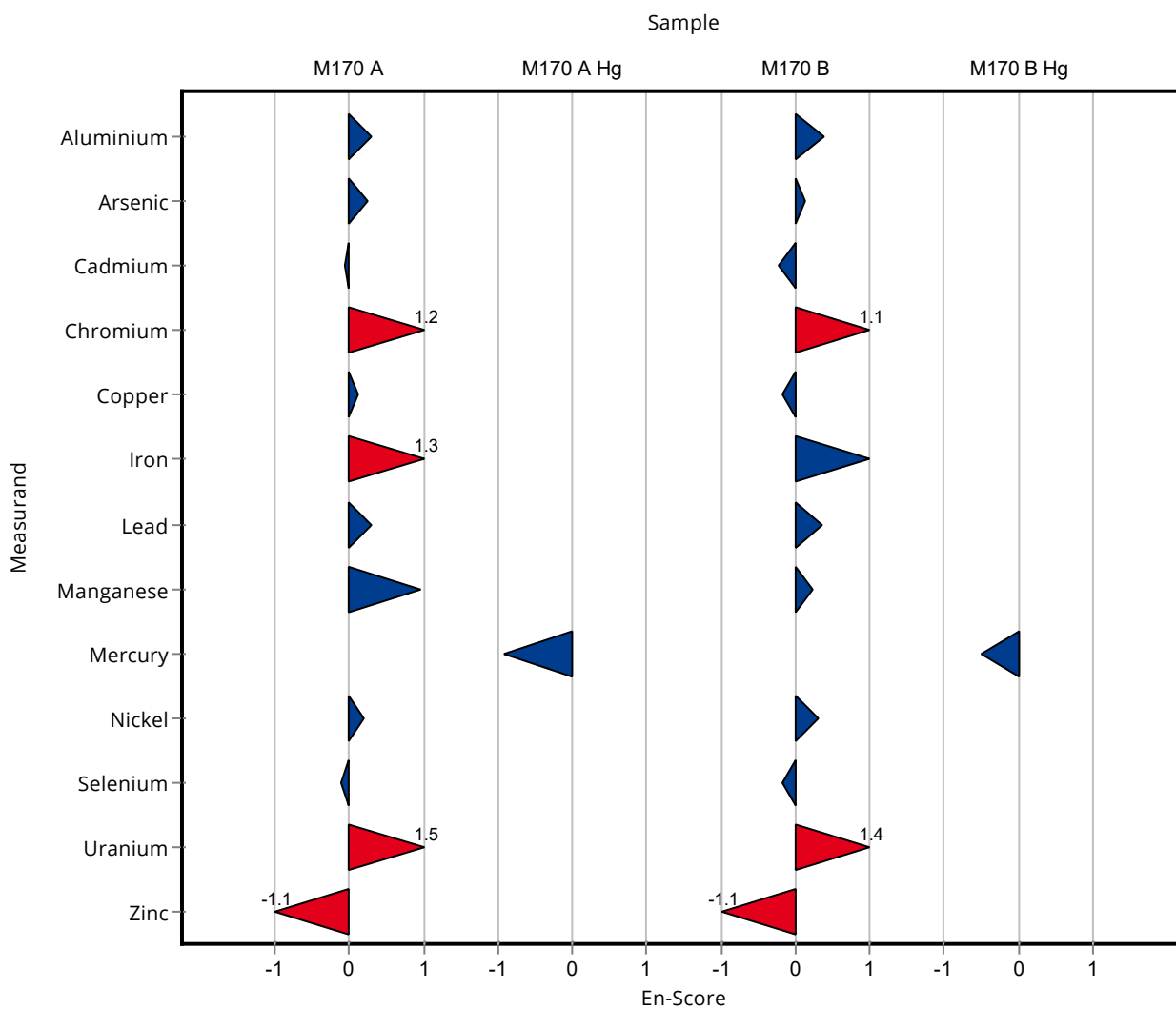
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	113 ± 6.8	10.9	114	1.00
Lead	µg/l	3.92 ± 0.0984	4.11 ± 0.25	0.588	105	0.37
Manganese	µg/l	21.5 ± 0.422	22 ± 1.1	1.55	102	0.24
Nickel	µg/l	16.7 ± 0.345	17.6 ± 1.4	2.01	105	0.31
Selenium	µg/l	4.46 ± 0.123	4.26 ± 0.6	0.535	95.5	-0.17
Uranium	µg/l	1.83 ± 0.0526	2.14 ± 0.11	0.121	117	1.37
Zinc	µg/l	99.4 ± 2.59	86.5 ± 5.6	8.94	87	-1.12

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.739 ± 0.052	0.111	93.3	-0.50



Summary of results Metals and trace elements M170

Labcode: LC0004

Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.63 ± 2.58	1.34	94.5	-0.55
Arsenic	µg/l	1.28 ± 0.0432	<3 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.46 ± 0.03	0.0423	109	0.87
Chromium	µg/l	1.97 ± 0.0625	1.89 ± 0.19	0.168	95.8	-0.49
Copper	µg/l	9.74 ± 0.205	9.35 ± 0.87	0.876	96	-0.44
Iron	µg/l	27.1 ± 1.21	23.5 ± 1.88	2.98	86.7	-1.21
Lead	µg/l	1.22 ± 0.0465	<3 (LOQ) ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	15.4 ± 1.65	1.24	89.1	-1.52
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.23	0.26	98.6	-0.12
Selenium	µg/l	4.24 ± 0.17	<6 (LOQ) ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	372.6 ± 61.1	35.4	94.7	-0.59

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.209 ± 0.043	0.0351	83.5	-1.18

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	59.2 ± 12.1	6.33	93.5	-0.65
Arsenic	µg/l	5.14 ± 0.0899	6.5 ± 1.2	0.668	126	2.03
Cadmium	µg/l	2.76 ± 0.0512	2.75 ± 0.18	0.276	99.7	-0.03
Chromium	µg/l	1.89 ± 0.0697	2.08 ± 0.21	0.16	110	1.20
Copper	µg/l	14.8 ± 0.283	15.5 ± 1.44	1.34	104	0.50
Iron	µg/l	99.3 ± 2.38	93.4 ± 7.47	10.9	94.1	-0.54
Lead	µg/l	3.92 ± 0.0984	4.69 ± 0.47	0.588	120	1.31
Manganese	µg/l	21.5 ± 0.422	20.4 ± 2.18	1.55	95	-0.69
Nickel	µg/l	16.7 ± 0.345	17.1 ± 1.82	2.01	102	0.19
Selenium	µg/l	4.46 ± 0.123	<6 (LOQ) ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

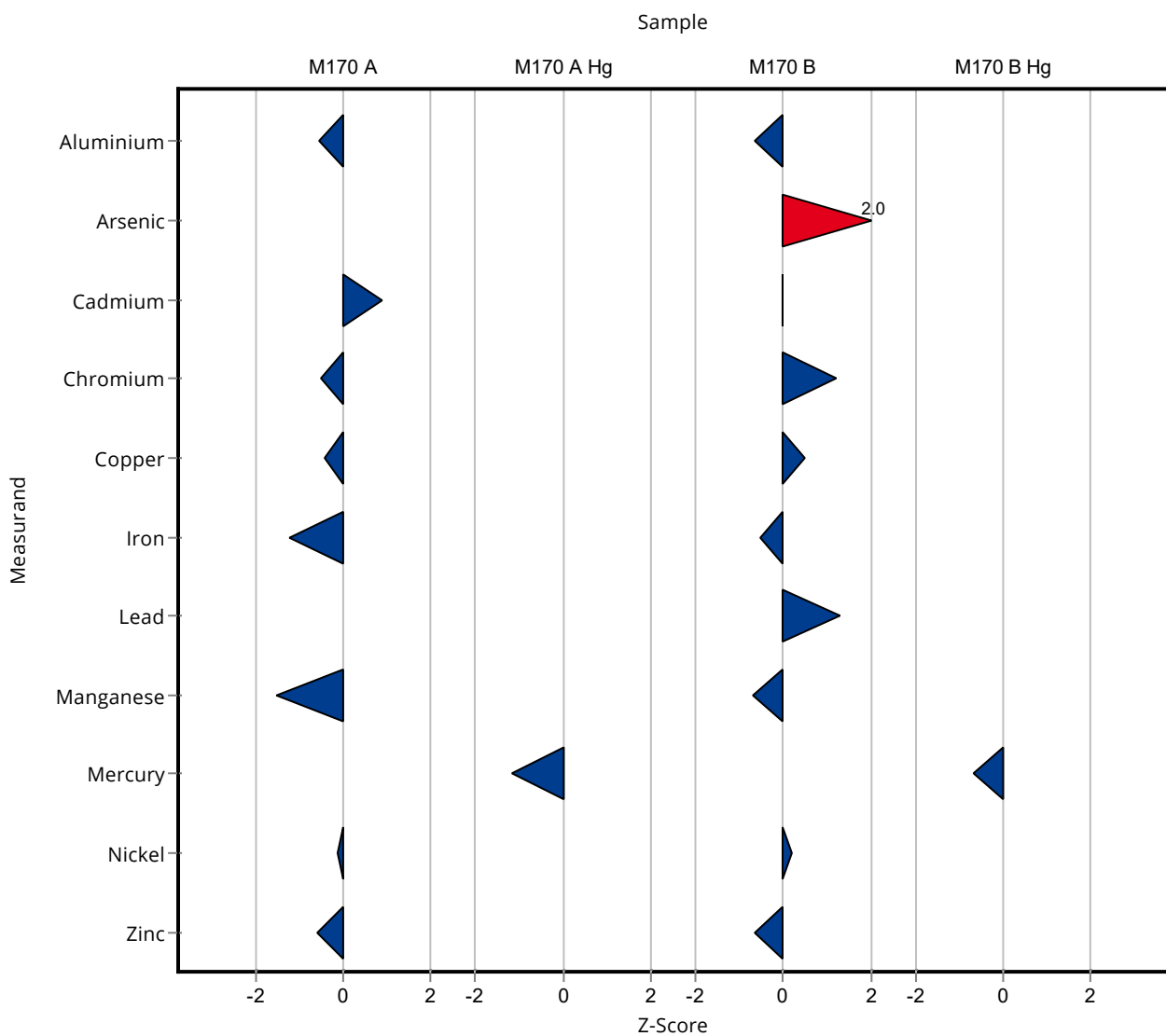
Summary of results Metals and trace elements M170

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	93.5 ± 15.3	8.94	94.1	-0.66

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.717 ± 0.145	0.111	90.5	-0.68



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.63 ± 2.58	1.34	94.5	-0.14
Arsenic	µg/l	1.28 ± 0.0432	<3 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.46 ± 0.03	0.0423	109	0.61
Chromium	µg/l	1.97 ± 0.0625	1.89 ± 0.19	0.168	95.8	-0.21
Copper	µg/l	9.74 ± 0.205	9.35 ± 0.87	0.876	96	-0.22
Iron	µg/l	27.1 ± 1.21	23.5 ± 1.88	2.98	86.7	-0.91
Lead	µg/l	1.22 ± 0.0465	<3 (LOQ) ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	15.4 ± 1.65	1.24	89.1	-0.56
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.23	0.26	98.6	-0.07
Selenium	µg/l	4.24 ± 0.17	<6 (LOQ) ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	372.6 ± 61.1	35.4	94.7	-0.17

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.209 ± 0.043	0.0351	83.5	-0.48

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	59.2 ± 12.1	6.33	93.5	-0.17
Arsenic	µg/l	5.14 ± 0.0899	6.5 ± 1.2	0.668	126	0.57
Cadmium	µg/l	2.76 ± 0.0512	2.75 ± 0.18	0.276	99.7	-0.03
Chromium	µg/l	1.89 ± 0.0697	2.08 ± 0.21	0.16	110	0.45
Copper	µg/l	14.8 ± 0.283	15.5 ± 1.44	1.34	104	0.23

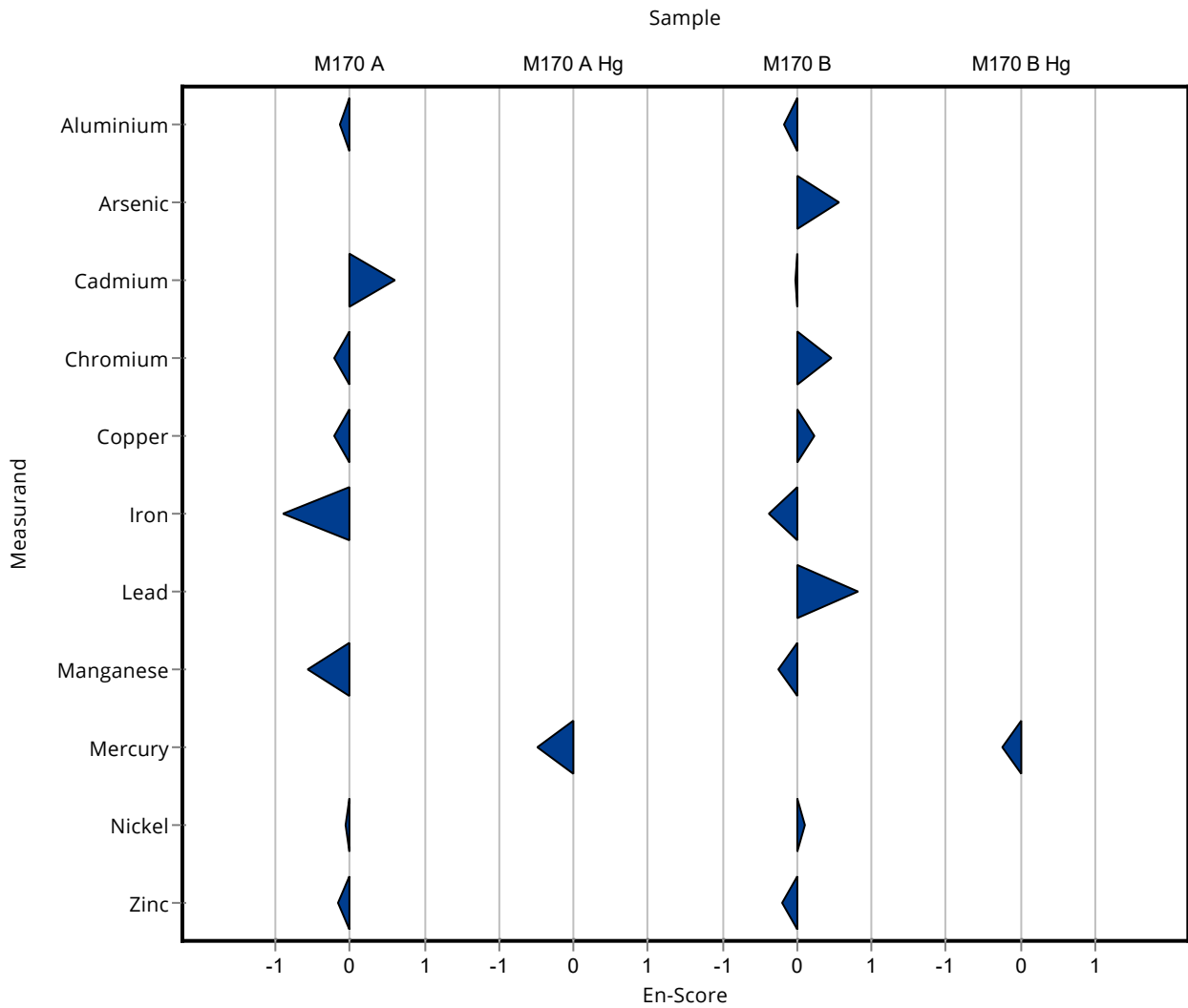
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	93.4 ± 7.47	10.9	94.1	-0.39
Lead	µg/l	3.92 ± 0.0984	4.69 ± 0.47	0.588	120	0.81
Manganese	µg/l	21.5 ± 0.422	20.4 ± 2.18	1.55	95	-0.24
Nickel	µg/l	16.7 ± 0.345	17.1 ± 1.82	2.01	102	0.11
Selenium	µg/l	4.46 ± 0.123	<6 (LOQ) ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	93.5 ± 15.3	8.94	94.1	-0.19

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.717 ± 0.145	0.111	90.5	-0.26



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	- ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.37 ± 0.056	0.0423	87.5	-1.25
Chromium	µg/l	1.97 ± 0.0625	2.086 ± 0.313	0.168	106	0.68
Copper	µg/l	9.74 ± 0.205	12.077 ± 1.812	0.876	124	2.67
Iron	µg/l	27.1 ± 1.21	- ± -	2.98	-	-
Lead	µg/l	1.22 ± 0.0465	0.803 ± 0.12	0.183	65.8	-2.28
Manganese	µg/l	17.3 ± 0.596	14.868 ± 2.23	1.24	86	-1.95
Nickel	µg/l	2.17 ± 0.0698	2.291 ± 0.344	0.26	106	0.46
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	16.359 ± 2.454	35.4	4.16	-10.65

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.2 ± 0.03	0.0351	79.9	-1.44

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	- ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	3.045 ± 0.457	0.276	110	1.03
Chromium	µg/l	1.89 ± 0.0697	2.053 ± 0.308	0.16	109	1.03
Copper	µg/l	14.8 ± 0.283	17.459 ± 2.619	1.34	118	1.97
Iron	µg/l	99.3 ± 2.38	- ± -	10.9	-	-
Lead	µg/l	3.92 ± 0.0984	5.358 ± 0.804	0.588	137	2.44
Manganese	µg/l	21.5 ± 0.422	16.871 ± 2.531	1.55	78.6	-2.98
Nickel	µg/l	16.7 ± 0.345	17.269 ± 2.59	2.01	103	0.28
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

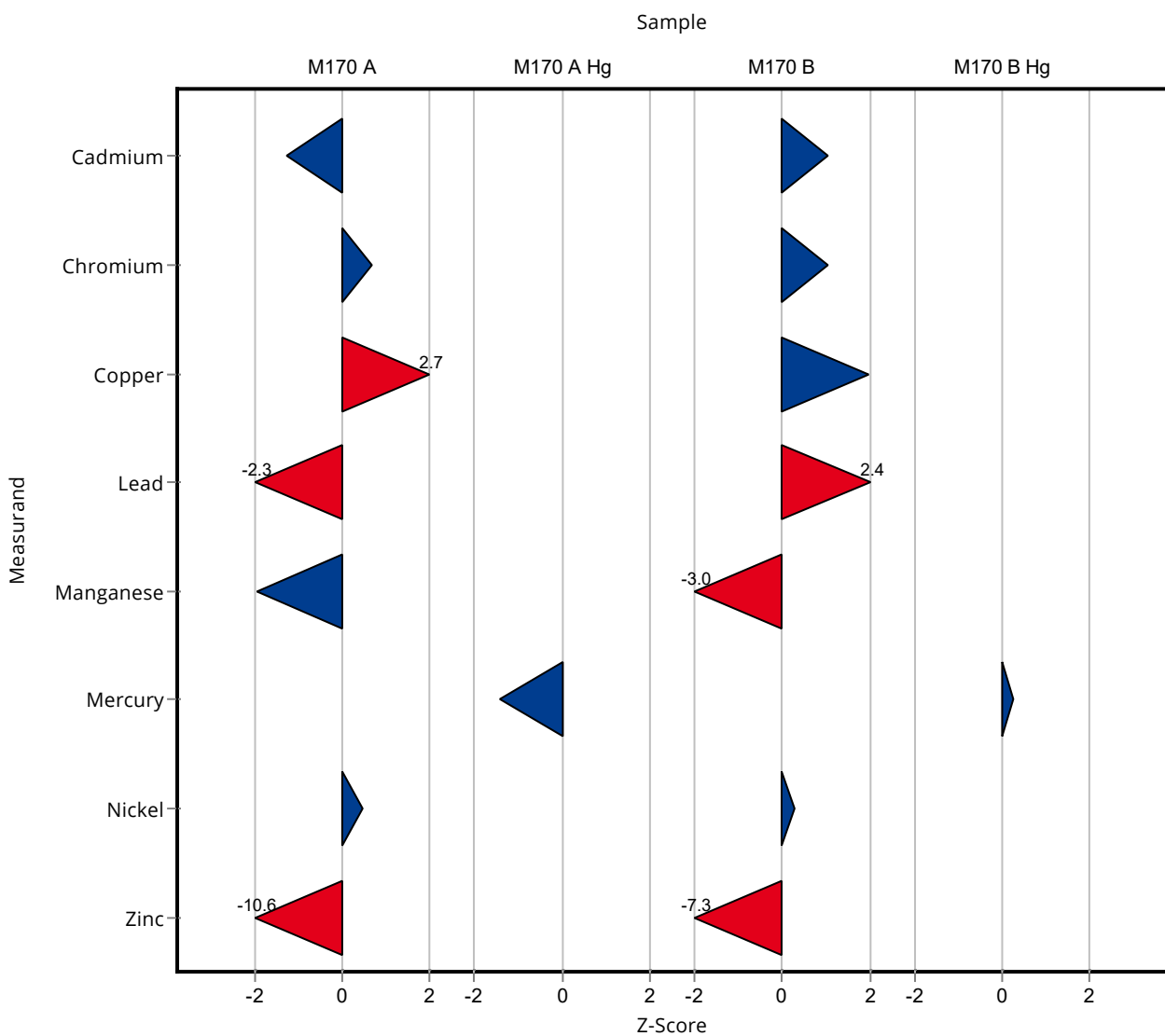
Summary of results Metals and trace elements M170

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	33.72 ± 5.058	8.94	33.9	-7.34

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.819 ± 0.123	0.111	103	0.24



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	- ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.37 ± 0.056	0.0423	87.5	-0.47
Chromium	µg/l	1.97 ± 0.0625	2.086 ± 0.313	0.168	106	0.18
Copper	µg/l	9.74 ± 0.205	12.077 ± 1.812	0.876	124	0.64
Iron	µg/l	27.1 ± 1.21	- ± -	2.98	-	-
Lead	µg/l	1.22 ± 0.0465	0.803 ± 0.12	0.183	65.8	-1.71
Manganese	µg/l	17.3 ± 0.596	14.868 ± 2.23	1.24	86	-0.54
Nickel	µg/l	2.17 ± 0.0698	2.291 ± 0.344	0.26	106	0.17
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	16.359 ± 2.454	35.4	4.16	-27.15

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.2 ± 0.03	0.0351	79.9	-0.83

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	- ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	3.045 ± 0.457	0.276	110	0.31
Chromium	µg/l	1.89 ± 0.0697	2.053 ± 0.308	0.16	109	0.27
Copper	µg/l	14.8 ± 0.283	17.459 ± 2.619	1.34	118	0.50

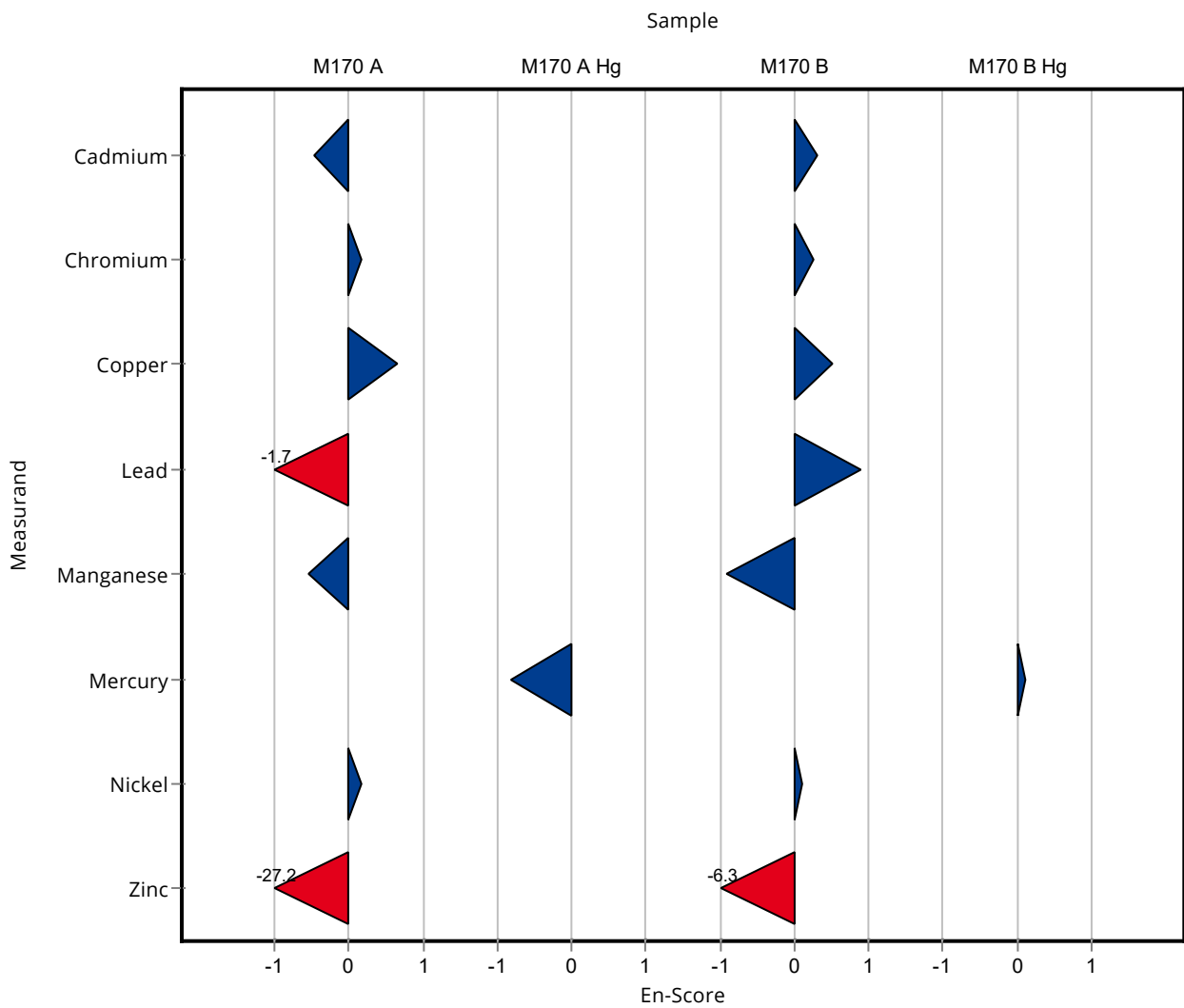
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	- ± -	10.9	-	-
Lead	µg/l	3.92 ± 0.0984	5.358 ± 0.804	0.588	137	0.89
Manganese	µg/l	21.5 ± 0.422	16.871 ± 2.531	1.55	78.6	-0.91
Nickel	µg/l	16.7 ± 0.345	17.269 ± 2.59	2.01	103	0.11
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	33.72 ± 5.058	8.94	33.9	-6.29

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.819 ± 0.123	0.111	103	0.11



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	11.8 ± 0.732	1.34	88.3	-1.17
Arsenic	µg/l	1.28 ± 0.0432	1.496 ± 0.181	0.166	117	1.32
Cadmium	µg/l	0.423 ± 0.0105	0.44 ± 0.047	0.0423	104	0.40
Chromium	µg/l	1.97 ± 0.0625	2.09 ± 0.245	0.168	106	0.70
Copper	µg/l	9.74 ± 0.205	10.03 ± 0.778	0.876	103	0.33
Iron	µg/l	27.1 ± 1.21	28.71 ± 1.91	2.98	106	0.54
Lead	µg/l	1.22 ± 0.0465	1.176 ± 0.147	0.183	96.3	-0.25
Manganese	µg/l	17.3 ± 0.596	19.3 ± 1.14	1.24	112	1.61
Nickel	µg/l	2.17 ± 0.0698	2.47 ± 0.176	0.26	114	1.15
Selenium	µg/l	4.24 ± 0.17	5.19 ± 1.031	0.509	122	1.86
Uranium	µg/l	1.18 ± 0.0201	1.207 ± 0.164	0.0777	102	0.38
Zinc	µg/l	394 ± 13	448.9 ± 77.9	35.4	114	1.56

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.283 ± 0.02	0.0351	113	0.93

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	62.2 ± 3.86	6.33	98.3	-0.17
Arsenic	µg/l	5.14 ± 0.0899	5.26 ± 0.637	0.668	102	0.18
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.3097	0.276	104	0.40
Chromium	µg/l	1.89 ± 0.0697	1.79 ± 0.2096	0.16	94.8	-0.61
Copper	µg/l	14.8 ± 0.283	15.74 ± 1.22	1.34	106	0.68
Iron	µg/l	99.3 ± 2.38	107.58 ± 7.15	10.9	108	0.76
Lead	µg/l	3.92 ± 0.0984	3.767 ± 0.4701	0.588	96.1	-0.26
Manganese	µg/l	21.5 ± 0.422	23.8 ± 1.41	1.55	111	1.51
Nickel	µg/l	16.7 ± 0.345	17.93 ± 1.28	2.01	107	0.61
Selenium	µg/l	4.46 ± 0.123	4.94 ± 0.981	0.535	111	0.89
Uranium	µg/l	1.83 ± 0.0526	1.758 ± 0.2389	0.121	96.1	-0.60

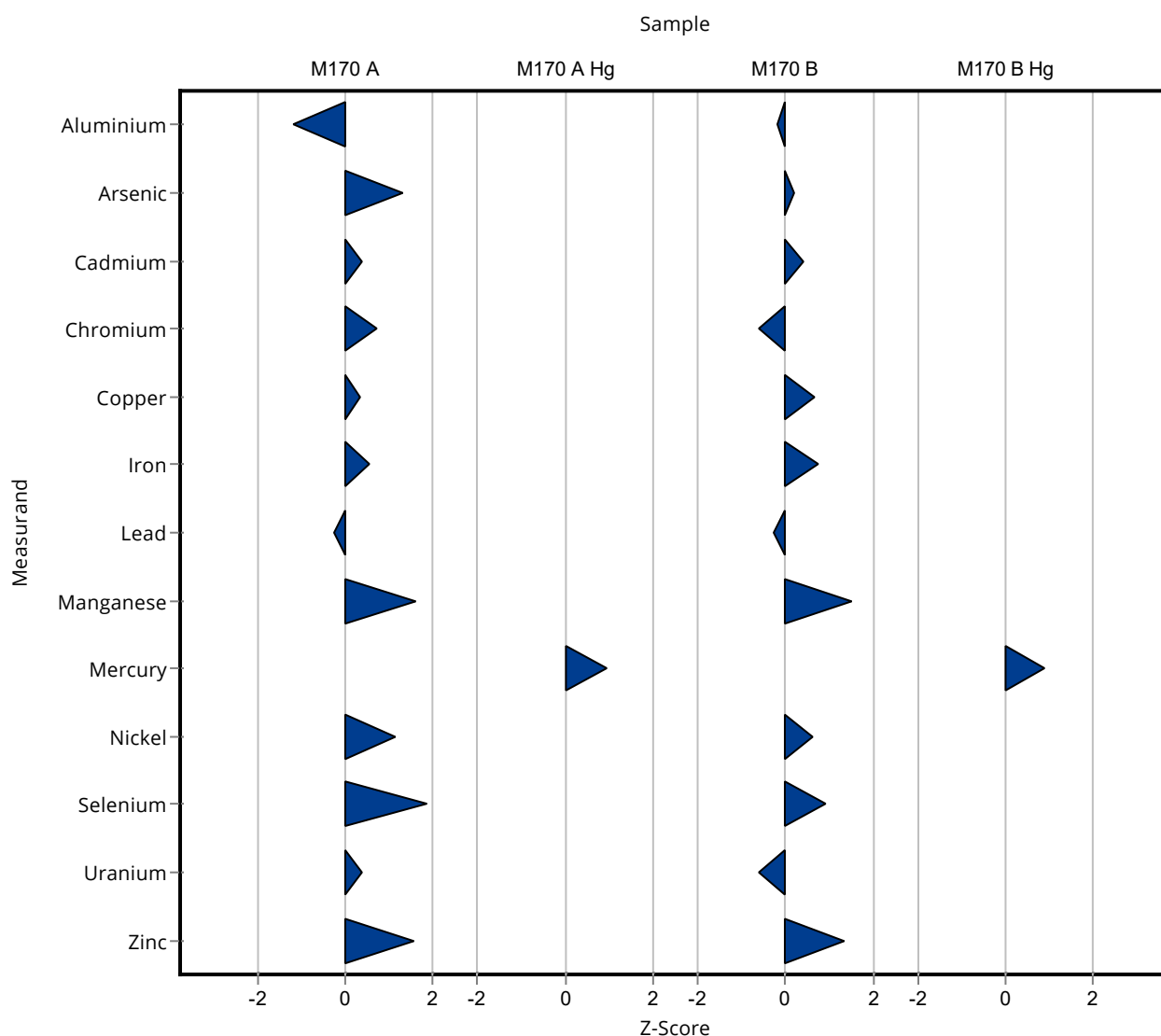
Summary of results Metals and trace elements M170

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	111.3 ± 19.32	8.94	112	1.33

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.889 ± 0.062	0.111	112	0.87



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	11.8 ± 0.732	1.34	88.3	-1.00
Arsenic	µg/l	1.28 ± 0.0432	1.496 ± 0.181	0.166	117	0.60
Cadmium	µg/l	0.423 ± 0.0105	0.44 ± 0.047	0.0423	104	0.18
Chromium	µg/l	1.97 ± 0.0625	2.09 ± 0.245	0.168	106	0.24
Copper	µg/l	9.74 ± 0.205	10.03 ± 0.778	0.876	103	0.19
Iron	µg/l	27.1 ± 1.21	28.71 ± 1.91	2.98	106	0.40
Lead	µg/l	1.22 ± 0.0465	1.176 ± 0.147	0.183	96.3	-0.15
Manganese	µg/l	17.3 ± 0.596	19.3 ± 1.14	1.24	112	0.85
Nickel	µg/l	2.17 ± 0.0698	2.47 ± 0.176	0.26	114	0.83
Selenium	µg/l	4.24 ± 0.17	5.19 ± 1.031	0.509	122	0.46
Uranium	µg/l	1.18 ± 0.0201	1.207 ± 0.164	0.0777	102	0.09
Zinc	µg/l	394 ± 13	448.9 ± 77.9	35.4	114	0.35

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.283 ± 0.02	0.0351	113	0.79

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	62.2 ± 3.86	6.33	98.3	-0.14
Arsenic	µg/l	5.14 ± 0.0899	5.26 ± 0.637	0.668	102	0.09
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.3097	0.276	104	0.18
Chromium	µg/l	1.89 ± 0.0697	1.79 ± 0.2096	0.16	94.8	-0.23
Copper	µg/l	14.8 ± 0.283	15.74 ± 1.22	1.34	106	0.37

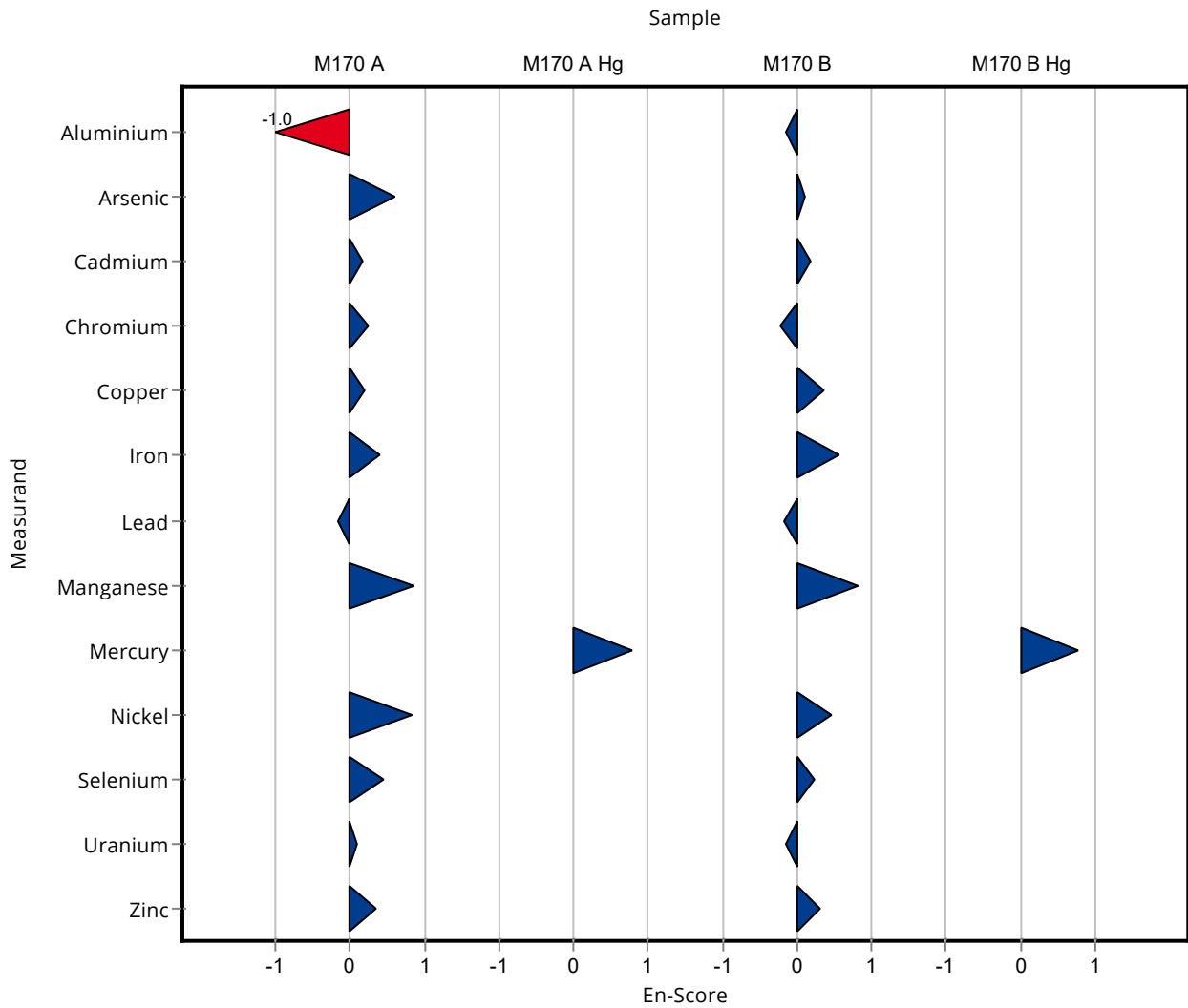
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	107.58 ± 7.15	10.9	108	0.57
Lead	µg/l	3.92 ± 0.0984	3.767 ± 0.4701	0.588	96.1	-0.16
Manganese	µg/l	21.5 ± 0.422	23.8 ± 1.41	1.55	111	0.82
Nickel	µg/l	16.7 ± 0.345	17.93 ± 1.28	2.01	107	0.47
Selenium	µg/l	4.46 ± 0.123	4.94 ± 0.981	0.535	111	0.24
Uranium	µg/l	1.83 ± 0.0526	1.758 ± 0.2389	0.121	96.1	-0.15
Zinc	µg/l	99.4 ± 2.59	111.3 ± 19.32	8.94	112	0.31

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.889 ± 0.062	0.111	112	0.76



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	14.8 ± 0.252	1.34	111	1.07
Arsenic	µg/l	1.28 ± 0.0432	1.3 ± 0.044	0.166	102	0.14
Cadmium	µg/l	0.423 ± 0.0105	0.453 ± 0.028	0.0423	107	0.71
Chromium	µg/l	1.97 ± 0.0625	2.06 ± 0.031	0.168	104	0.52
Copper	µg/l	9.74 ± 0.205	10 ± 0.058	0.876	103	0.30
Iron	µg/l	27.1 ± 1.21	27.7 ± 0.436	2.98	102	0.20
Lead	µg/l	1.22 ± 0.0465	1.4 ± 0.026	0.183	115	0.98
Manganese	µg/l	17.3 ± 0.596	17.7 ± 0.058	1.24	102	0.33
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.04	0.26	103	0.27
Selenium	µg/l	4.24 ± 0.17	4 ± 0.047	0.509	94.3	-0.48
Uranium	µg/l	1.18 ± 0.0201	1.23 ± 0.02	0.0777	104	0.67
Zinc	µg/l	394 ± 13	403 ± 3.22	35.4	102	0.26

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.269 ± 0.004	0.0351	107	0.53

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	65.7 ± 1.99	6.33	104	0.38
Arsenic	µg/l	5.14 ± 0.0899	5.28 ± 0.107	0.668	103	0.21
Cadmium	µg/l	2.76 ± 0.0512	2.74 ± 0.067	0.276	99.3	-0.07
Chromium	µg/l	1.89 ± 0.0697	1.89 ± 0.026	0.16	100	0.02
Copper	µg/l	14.8 ± 0.283	15.1 ± 0.091	1.34	102	0.20
Iron	µg/l	99.3 ± 2.38	97.9 ± 1.57	10.9	98.6	-0.12
Lead	µg/l	3.92 ± 0.0984	4.23 ± 0.026	0.588	108	0.52
Manganese	µg/l	21.5 ± 0.422	22 ± 0.231	1.55	102	0.34
Nickel	µg/l	16.7 ± 0.345	17.4 ± 0.321	2.01	104	0.34
Selenium	µg/l	4.46 ± 0.123	4.31 ± 0.119	0.535	96.6	-0.28
Uranium	µg/l	1.83 ± 0.0526	1.87 ± 0.01	0.121	102	0.33

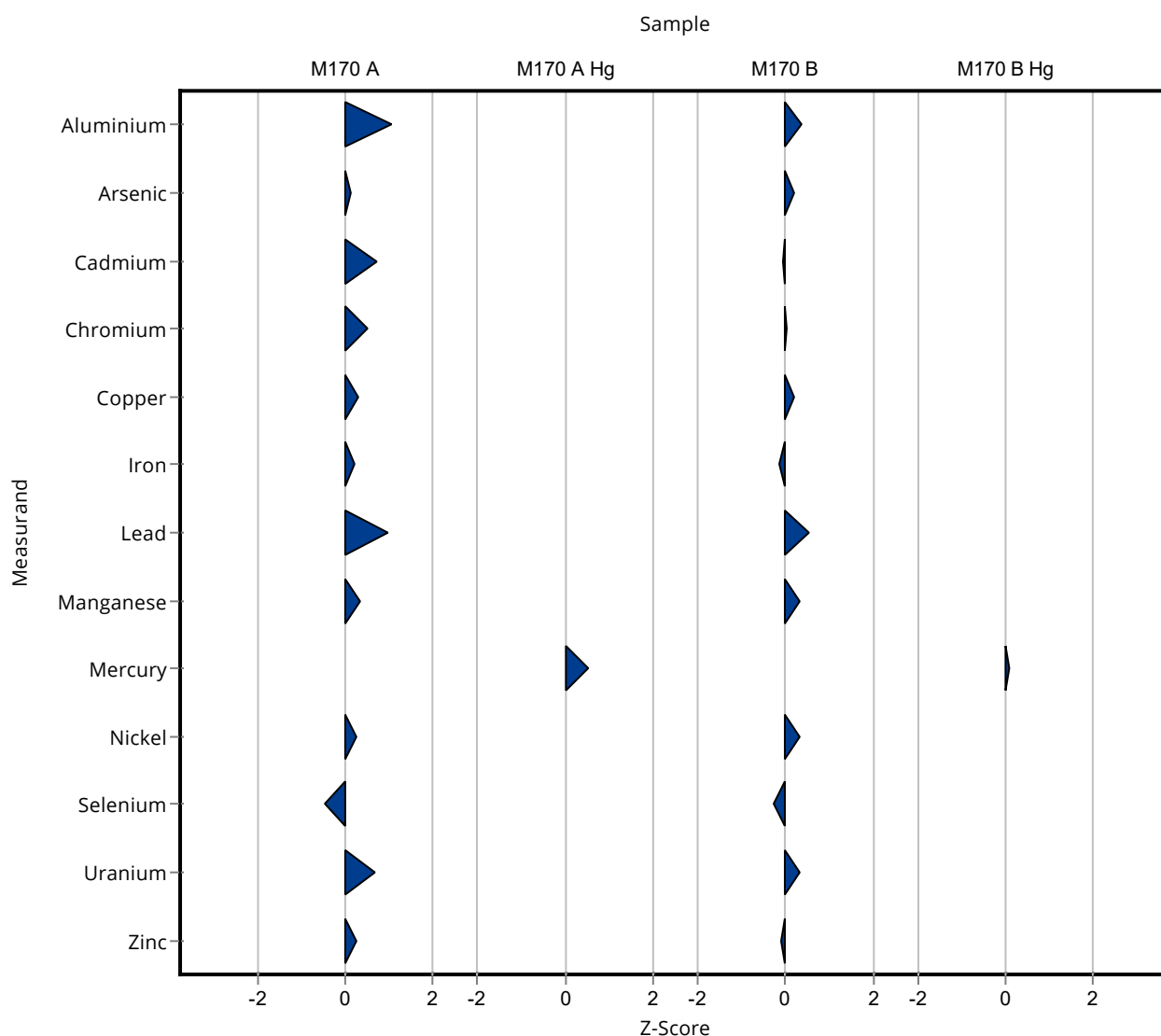
Summary of results Metals and trace elements M170

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	98.6 ± 2.02	8.94	99.2	-0.09

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.802 ± 0.01	0.111	101	0.09



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	14.8 ± 0.252	1.34	111	1.93
Arsenic	µg/l	1.28 ± 0.0432	1.3 ± 0.044	0.166	102	0.24
Cadmium	µg/l	0.423 ± 0.0105	0.453 ± 0.028	0.0423	107	0.52
Chromium	µg/l	1.97 ± 0.0625	2.06 ± 0.031	0.168	104	1.00
Copper	µg/l	9.74 ± 0.205	10 ± 0.058	0.876	103	1.11
Iron	µg/l	27.1 ± 1.21	27.7 ± 0.436	2.98	102	0.40
Lead	µg/l	1.22 ± 0.0465	1.4 ± 0.026	0.183	115	2.57
Manganese	µg/l	17.3 ± 0.596	17.7 ± 0.058	1.24	102	0.67
Nickel	µg/l	2.17 ± 0.0698	2.24 ± 0.04	0.26	103	0.65
Selenium	µg/l	4.24 ± 0.17	4 ± 0.047	0.509	94.3	-1.25
Uranium	µg/l	1.18 ± 0.0201	1.23 ± 0.02	0.0777	104	1.17
Zinc	µg/l	394 ± 13	403 ± 3.22	35.4	102	0.65

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.269 ± 0.004	0.0351	107	1.46

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	65.7 ± 1.99	6.33	104	0.59
Arsenic	µg/l	5.14 ± 0.0899	5.28 ± 0.107	0.668	103	0.59
Cadmium	µg/l	2.76 ± 0.0512	2.74 ± 0.067	0.276	99.3	-0.14
Chromium	µg/l	1.89 ± 0.0697	1.89 ± 0.026	0.16	100	0.03
Copper	µg/l	14.8 ± 0.283	15.1 ± 0.091	1.34	102	0.79

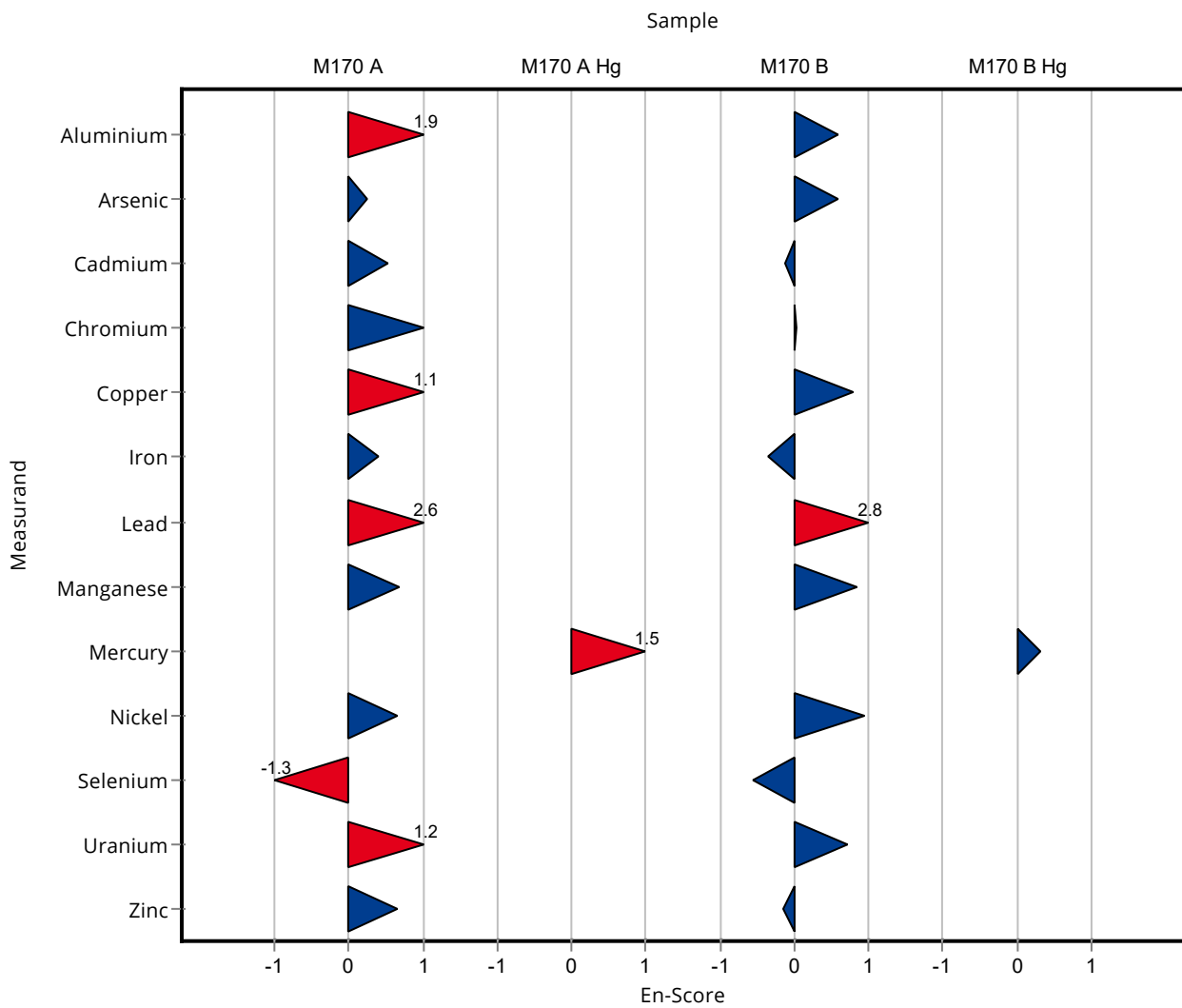
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	97.9 ± 1.57	10.9	98.6	-0.34
Lead	µg/l	3.92 ± 0.0984	4.23 ± 0.026	0.588	108	2.77
Manganese	µg/l	21.5 ± 0.422	22 ± 0.231	1.55	102	0.85
Nickel	µg/l	16.7 ± 0.345	17.4 ± 0.321	2.01	104	0.94
Selenium	µg/l	4.46 ± 0.123	4.31 ± 0.119	0.535	96.6	-0.57
Uranium	µg/l	1.83 ± 0.0526	1.87 ± 0.01	0.121	102	0.71
Zinc	µg/l	99.4 ± 2.59	98.6 ± 2.02	8.94	99.2	-0.16

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.802 ± 0.01	0.111	101	0.30



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	<100 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	<5 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	<5 (LOQ) ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	<5 (LOQ) ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10.07 ± 1.497409	0.876	103	0.38
Iron	µg/l	27.1 ± 1.21	20.69 ± 2.815909	2.98	76.3	-2.15
Lead	µg/l	1.22 ± 0.0465	<5 (LOQ) ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	14.98 ± 2.121168	1.24	86.6	-1.86
Nickel	µg/l	2.17 ± 0.0698	<5 (LOQ) ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	<5 (LOQ) ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	387.46 ± 46.998898	35.4	98.4	-0.17

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.2526 ± 0.05052	0.0351	101	0.06

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	<100 (LOQ) ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	5 ± 0.829	0.668	97.2	-0.21
Cadmium	µg/l	2.76 ± 0.0512	<5 (LOQ) ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	<5 (LOQ) ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	14.33 ± 2.130871	1.34	96.6	-0.38
Iron	µg/l	99.3 ± 2.38	91.19 ± 12.410959	10.9	91.9	-0.74
Lead	µg/l	3.92 ± 0.0984	<5 (LOQ) ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	19.74 ± 2.795184	1.55	91.9	-1.12
Nickel	µg/l	16.7 ± 0.345	15.56 ± 3.013972	2.01	93.1	-0.58
Selenium	µg/l	4.46 ± 0.123	<5 (LOQ) ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

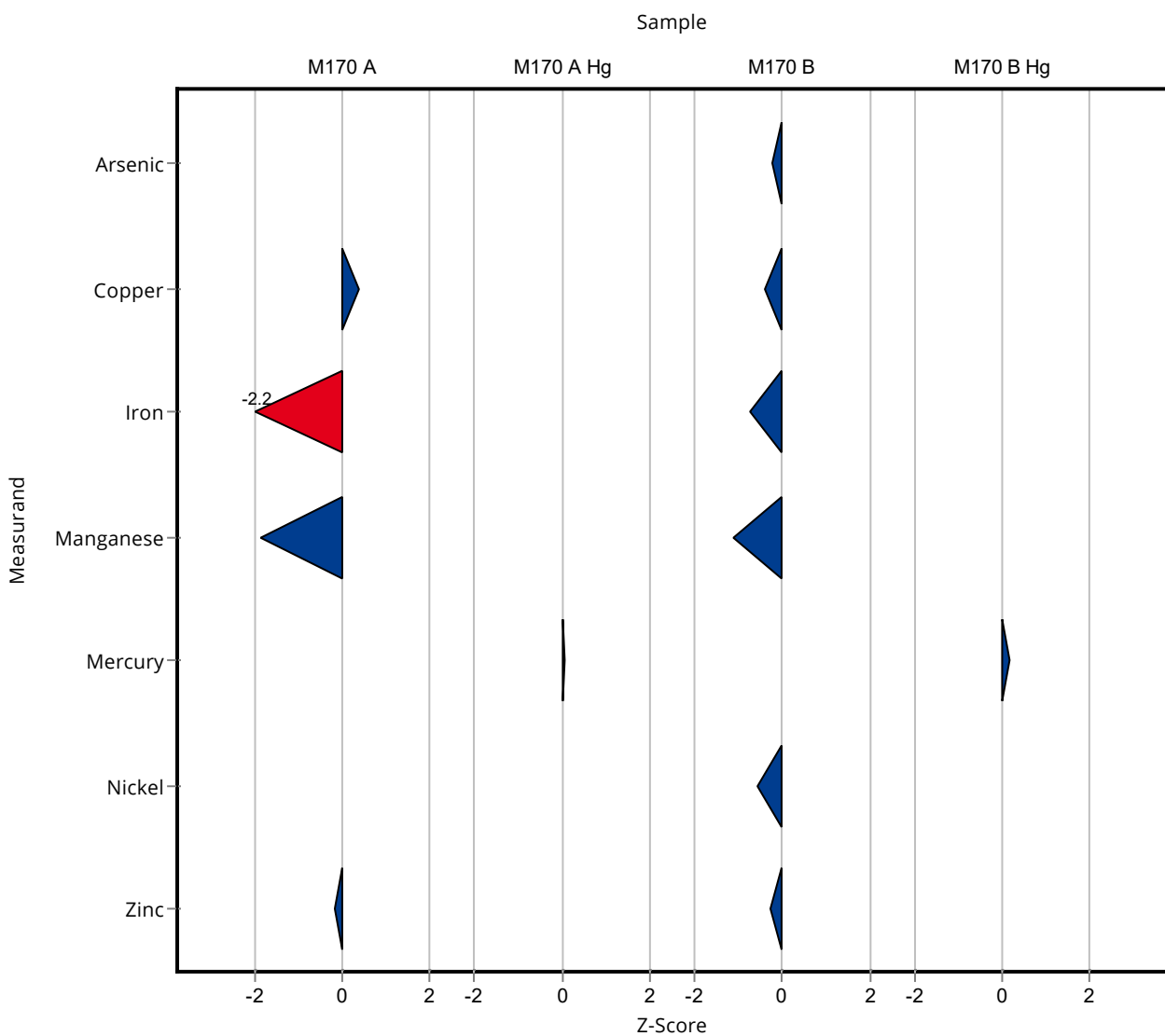
Summary of results Metals and trace elements M170

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	96.93 ± 11.757609	8.94	97.5	-0.27

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.8127 ± 0.16254	0.111	103	0.18



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	<100 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	<5 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	<5 (LOQ) ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	<5 (LOQ) ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10.07 ± 1.497409	0.876	103	0.11
Iron	µg/l	27.1 ± 1.21	20.69 ± 2.815909	2.98	76.3	-1.11
Lead	µg/l	1.22 ± 0.0465	<5 (LOQ) ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	14.98 ± 2.121168	1.24	86.6	-0.54
Nickel	µg/l	2.17 ± 0.0698	<5 (LOQ) ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	<5 (LOQ) ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	387.46 ± 46.998898	35.4	98.4	-0.07

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.2526 ± 0.05052	0.0351	101	0.02

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	<100 (LOQ) ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	5 ± 0.829	0.668	97.2	-0.09
Cadmium	µg/l	2.76 ± 0.0512	<5 (LOQ) ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	<5 (LOQ) ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	14.33 ± 2.130871	1.34	96.6	-0.12

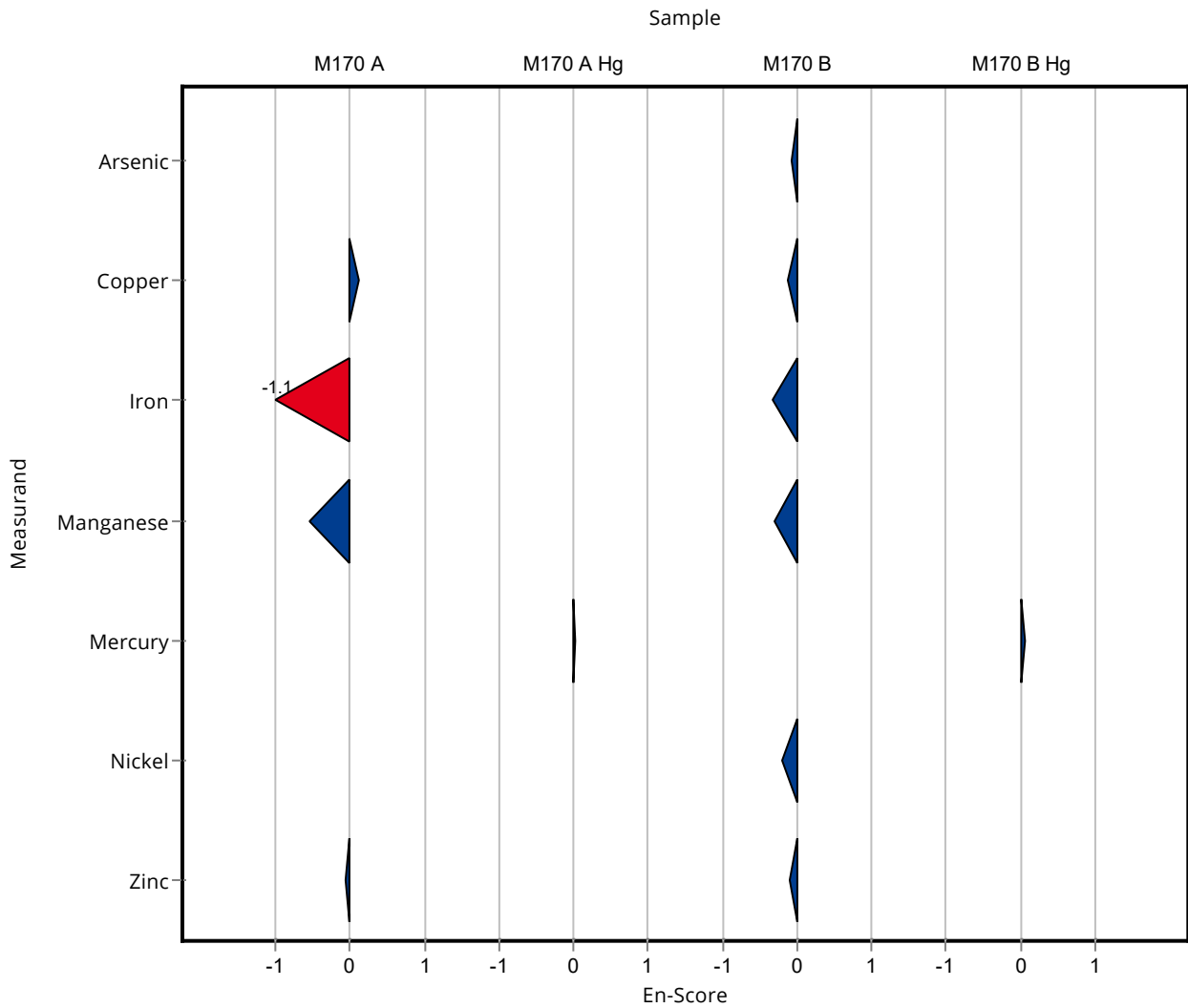
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	91.19 ± 12.410959	10.9	91.9	-0.32
Lead	µg/l	3.92 ± 0.0984	<5 (LOQ) ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	19.74 ± 2.795184	1.55	91.9	-0.31
Nickel	µg/l	16.7 ± 0.345	15.56 ± 3.013972	2.01	93.1	-0.19
Selenium	µg/l	4.46 ± 0.123	<5 (LOQ) ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	96.93 ± 11.757609	8.94	97.5	-0.10

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.8127 ± 0.16254	0.111	103	0.06



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	- ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	- ± -	0.876	-	-
Iron	µg/l	27.1 ± 1.21	- ± -	2.98	-	-
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	- ± -	1.24	-	-
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	- ± -	35.4	-	-

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	- ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	- ± -	1.34	-	-
Iron	µg/l	99.3 ± 2.38	- ± -	10.9	-	-
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	- ± -	1.55	-	-
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

Summary of results Metals and trace elements M170

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	- ± -	8.94	-	-

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-

Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	- ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	- ± -	0.876	-	-
Iron	µg/l	27.1 ± 1.21	- ± -	2.98	-	-
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	- ± -	1.24	-	-
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	- ± -	35.4	-	-

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	- ± -	6.33	-	-
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	- ± -	1.34	-	-

Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	- ± -	10.9	-	-
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	- ± -	1.55	-	-
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	- ± -	8.94	-	-

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-

Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.5 ± 2.62	1.34	93.5	-0.65
Arsenic	µg/l	1.28 ± 0.0432	1.26 ± 0.088	0.166	98.7	-0.10
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.021	0.0423	99.3	-0.07
Chromium	µg/l	1.97 ± 0.0625	2.07 ± 0.187	0.168	105	0.58
Copper	µg/l	9.74 ± 0.205	9.09 ± 1.18	0.876	93.4	-0.74
Iron	µg/l	27.1 ± 1.21	28.8 ± 3.17	2.98	106	0.57
Lead	µg/l	1.22 ± 0.0465	1.17 ± 0.234	0.183	95.8	-0.28
Manganese	µg/l	17.3 ± 0.596	17.2 ± 1.2	1.24	99.5	-0.07
Nickel	µg/l	2.17 ± 0.0698	2.15 ± 0.236	0.26	99	-0.08
Selenium	µg/l	4.24 ± 0.17	4.36 ± 0.698	0.509	103	0.23
Uranium	µg/l	1.18 ± 0.0201	1.15 ± 0.104	0.0777	97.6	-0.36
Zinc	µg/l	394 ± 13	413 ± 28.9	35.4	105	0.55

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.26 ± 0.062	0.0351	104	0.27

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	63 ± 13.2	6.33	99.5	-0.05
Arsenic	µg/l	5.14 ± 0.0899	5.22 ± 0.366	0.668	102	0.12
Cadmium	µg/l	2.76 ± 0.0512	2.81 ± 0.141	0.276	102	0.18
Chromium	µg/l	1.89 ± 0.0697	1.88 ± 0.169	0.16	99.6	-0.05
Copper	µg/l	14.8 ± 0.283	13.9 ± 1.81	1.34	93.7	-0.70
Iron	µg/l	99.3 ± 2.38	99.2 ± 10.9	10.9	99.9	-0.01
Lead	µg/l	3.92 ± 0.0984	3.84 ± 0.769	0.588	97.9	-0.14
Manganese	µg/l	21.5 ± 0.422	21.2 ± 1.49	1.55	98.7	-0.17
Nickel	µg/l	16.7 ± 0.345	16.2 ± 1.78	2.01	96.9	-0.26
Selenium	µg/l	4.46 ± 0.123	4.77 ± 0.764	0.535	107	0.57
Uranium	µg/l	1.83 ± 0.0526	1.85 ± 0.167	0.121	101	0.16

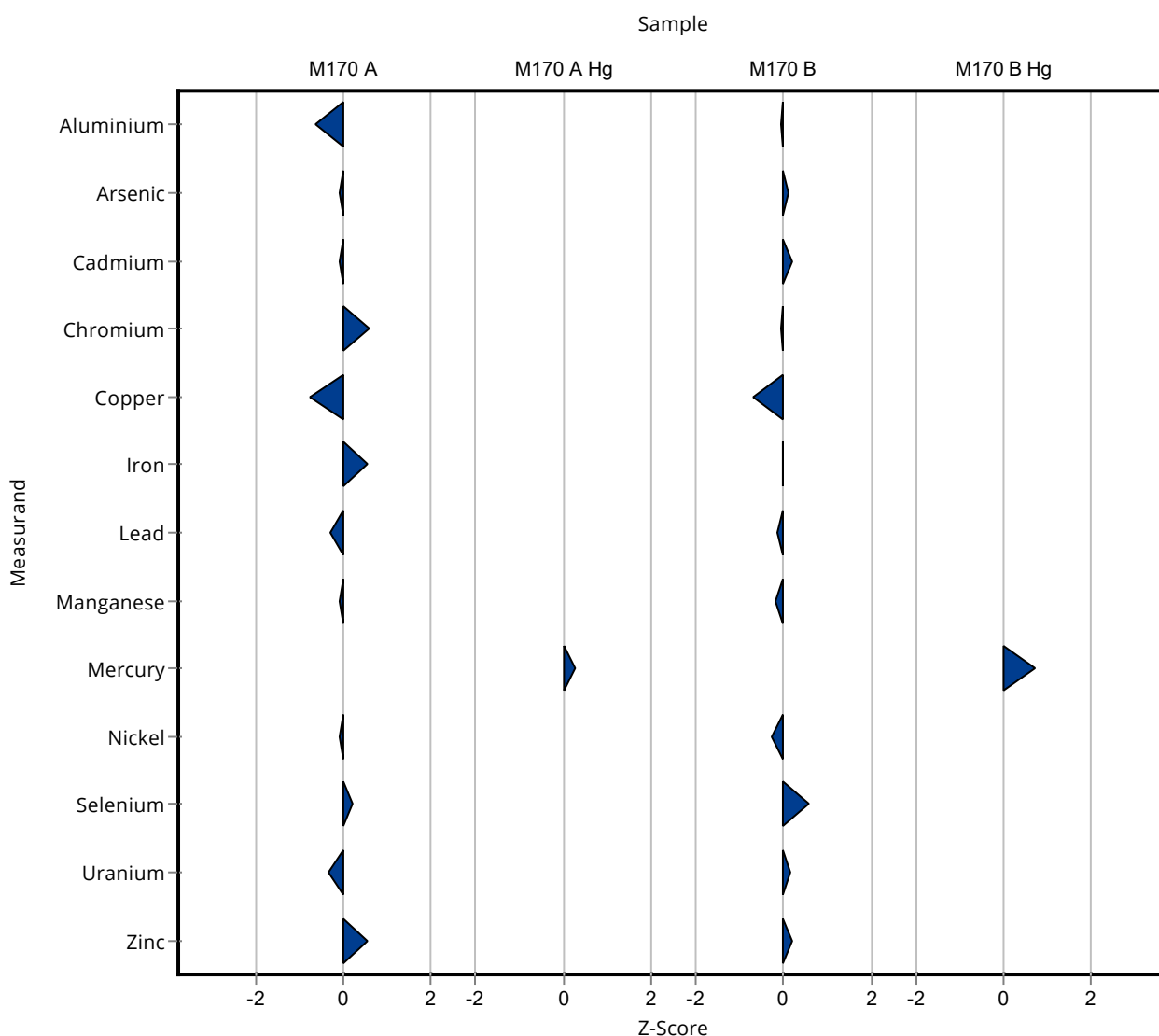
Summary of results Metals and trace elements M170

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	101 ± 7.1	8.94	102	0.18

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.872 ± 0.209	0.111	110	0.72



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.5 ± 2.62	1.34	93.5	-0.16
Arsenic	µg/l	1.28 ± 0.0432	1.26 ± 0.088	0.166	98.7	-0.09
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.021	0.0423	99.3	-0.07
Chromium	µg/l	1.97 ± 0.0625	2.07 ± 0.187	0.168	105	0.26
Copper	µg/l	9.74 ± 0.205	9.09 ± 1.18	0.876	93.4	-0.27
Iron	µg/l	27.1 ± 1.21	28.8 ± 3.17	2.98	106	0.26
Lead	µg/l	1.22 ± 0.0465	1.17 ± 0.234	0.183	95.8	-0.11
Manganese	µg/l	17.3 ± 0.596	17.2 ± 1.2	1.24	99.5	-0.04
Nickel	µg/l	2.17 ± 0.0698	2.15 ± 0.236	0.26	99	-0.04
Selenium	µg/l	4.24 ± 0.17	4.36 ± 0.698	0.509	103	0.08
Uranium	µg/l	1.18 ± 0.0201	1.15 ± 0.104	0.0777	97.6	-0.13
Zinc	µg/l	394 ± 13	413 ± 28.9	35.4	105	0.33

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.26 ± 0.062	0.0351	104	0.08

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	63 ± 13.2	6.33	99.5	-0.01
Arsenic	µg/l	5.14 ± 0.0899	5.22 ± 0.366	0.668	102	0.11
Cadmium	µg/l	2.76 ± 0.0512	2.81 ± 0.141	0.276	102	0.18
Chromium	µg/l	1.89 ± 0.0697	1.88 ± 0.169	0.16	99.6	-0.02
Copper	µg/l	14.8 ± 0.283	13.9 ± 1.81	1.34	93.7	-0.26

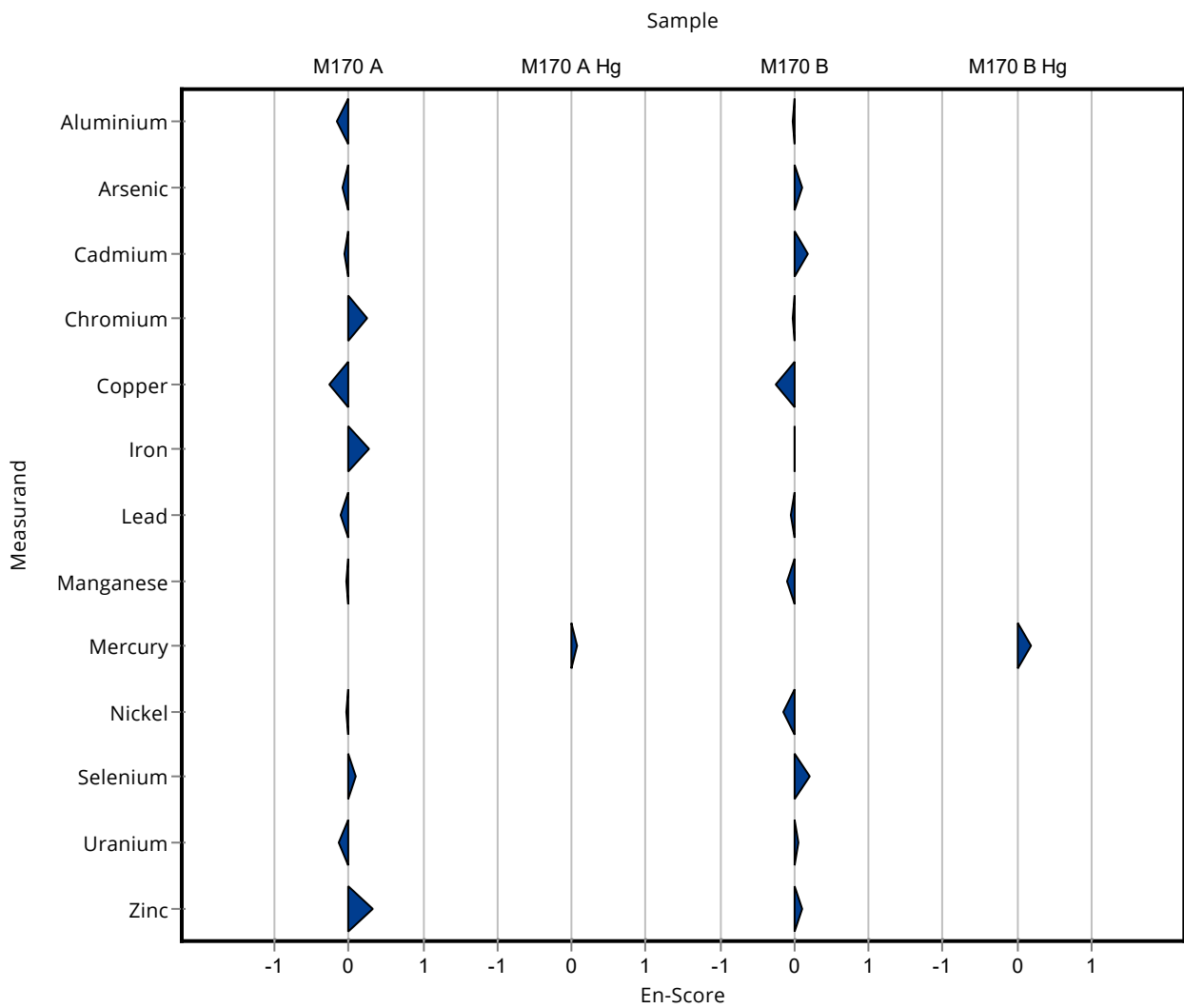
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	99.2 ± 10.9	10.9	99.9	0.00
Lead	µg/l	3.92 ± 0.0984	3.84 ± 0.769	0.588	97.9	-0.05
Manganese	µg/l	21.5 ± 0.422	21.2 ± 1.49	1.55	98.7	-0.09
Nickel	µg/l	16.7 ± 0.345	16.2 ± 1.78	2.01	96.9	-0.14
Selenium	µg/l	4.46 ± 0.123	4.77 ± 0.764	0.535	107	0.20
Uranium	µg/l	1.83 ± 0.0526	1.85 ± 0.167	0.121	101	0.06
Zinc	µg/l	99.4 ± 2.59	101 ± 7.1	8.94	102	0.11

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.872 ± 0.209	0.111	110	0.19



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	<10 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	1.7 ± 0.055	0.166	133	2.55
Cadmium	µg/l	0.423 ± 0.0105	0.45 ± 0.012	0.0423	106	0.64
Chromium	µg/l	1.97 ± 0.0625	4.21 ± 0.09	0.168	213	13.35
Copper	µg/l	9.74 ± 0.205	9.15 ± 0.146	0.876	94	-0.67
Iron	µg/l	27.1 ± 1.21	16.03 ± 0.192	2.98	59.1	-3.71
Lead	µg/l	1.22 ± 0.0465	1.49 ± 0.0039	0.183	122	1.47
Manganese	µg/l	17.3 ± 0.596	14.97 ± 0.63	1.24	86.6	-1.86
Nickel	µg/l	2.17 ± 0.0698	4.6 ± 0.088	0.26	212	9.33
Selenium	µg/l	4.24 ± 0.17	5.49 ± 0.109	0.509	129	2.45
Uranium	µg/l	1.18 ± 0.0201	1.46 ± 0.014	0.0777	124	3.63
Zinc	µg/l	394 ± 13	330.8 ± 1.58	35.4	84	-1.77

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	46.5 ± 1.39	6.33	73.5	-2.65
Arsenic	µg/l	5.14 ± 0.0899	5.48 ± 0.0301	0.668	107	0.51
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.076	0.276	104	0.40
Chromium	µg/l	1.89 ± 0.0697	3.03 ± 0.104	0.16	161	7.12
Copper	µg/l	14.8 ± 0.283	15 ± 0.262	1.34	101	0.12
Iron	µg/l	99.3 ± 2.38	110 ± 1.35	10.9	111	0.98
Lead	µg/l	3.92 ± 0.0984	3.99 ± 0.254	0.588	102	0.12
Manganese	µg/l	21.5 ± 0.422	20.9 ± 0.0183	1.55	97.3	-0.37
Nickel	µg/l	16.7 ± 0.345	17.5 ± 0.285	2.01	105	0.39
Selenium	µg/l	4.46 ± 0.123	5.2 ± 0.0183	0.535	117	1.38
Uranium	µg/l	1.83 ± 0.0526	1.92 ± 0.0908	0.121	105	0.74

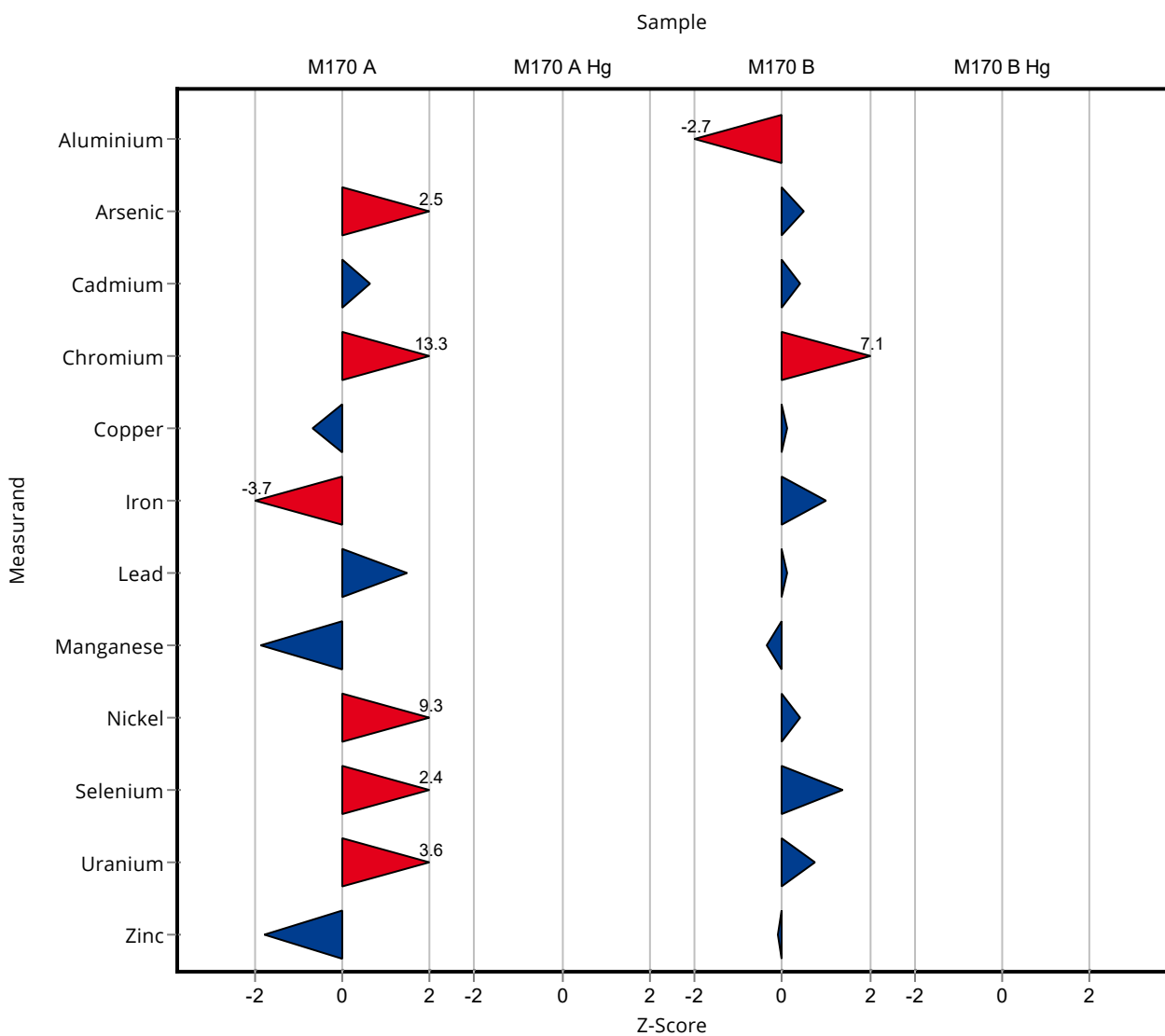
Summary of results Metals and trace elements M170

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	98.6 ± 1.48	8.94	99.2	-0.09

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	<10 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	1.7 ± 0.055	0.166	133	3.58
Cadmium	µg/l	0.423 ± 0.0105	0.45 ± 0.012	0.0423	106	1.03
Chromium	µg/l	1.97 ± 0.0625	4.21 ± 0.09	0.168	213	11.74
Copper	µg/l	9.74 ± 0.205	9.15 ± 0.146	0.876	94	-1.65
Iron	µg/l	27.1 ± 1.21	16.03 ± 0.192	2.98	59.1	-8.70
Lead	µg/l	1.22 ± 0.0465	1.49 ± 0.0039	0.183	122	5.71
Manganese	µg/l	17.3 ± 0.596	14.97 ± 0.63	1.24	86.6	-1.67
Nickel	µg/l	2.17 ± 0.0698	4.6 ± 0.088	0.26	212	12.83
Selenium	µg/l	4.24 ± 0.17	5.49 ± 0.109	0.509	129	4.51
Uranium	µg/l	1.18 ± 0.0201	1.46 ± 0.014	0.0777	124	8.18
Zinc	µg/l	394 ± 13	330.8 ± 1.58	35.4	84	-4.70

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	46.5 ± 1.39	6.33	73.5	-5.64
Arsenic	µg/l	5.14 ± 0.0899	5.48 ± 0.0301	0.668	107	3.12
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.076	0.276	104	0.69
Chromium	µg/l	1.89 ± 0.0697	3.03 ± 0.104	0.16	161	5.21
Copper	µg/l	14.8 ± 0.283	15 ± 0.262	1.34	101	0.28

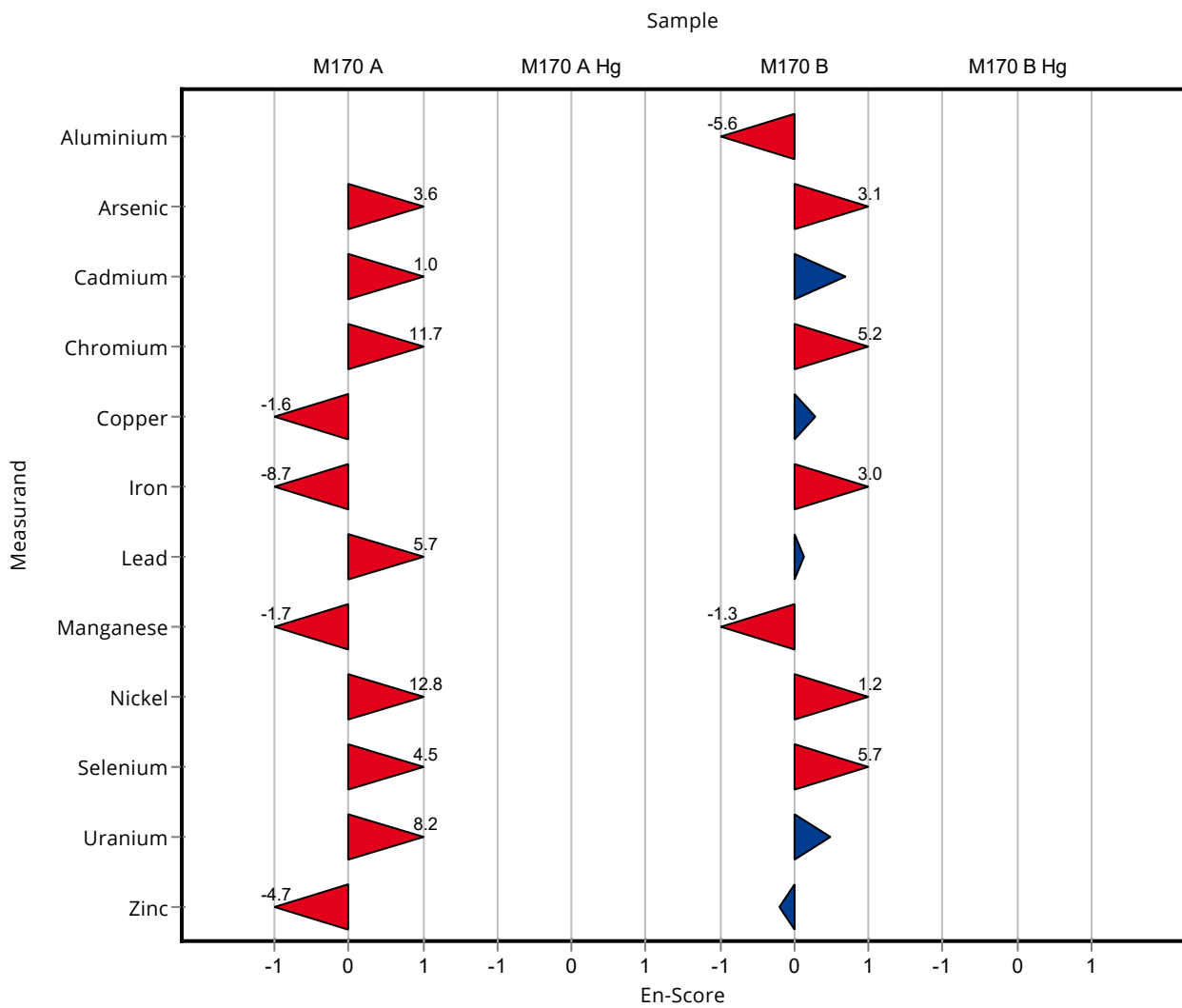
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	110 ± 1.35	10.9	111	2.98
Lead	µg/l	3.92 ± 0.0984	3.99 ± 0.254	0.588	102	0.13
Manganese	µg/l	21.5 ± 0.422	20.9 ± 0.0183	1.55	97.3	-1.35
Nickel	µg/l	16.7 ± 0.345	17.5 ± 0.285	2.01	105	1.18
Selenium	µg/l	4.46 ± 0.123	5.2 ± 0.0183	0.535	117	5.75
Uranium	µg/l	1.83 ± 0.0526	1.92 ± 0.0908	0.121	105	0.48
Zinc	µg/l	99.4 ± 2.59	98.6 ± 1.48	8.94	99.2	-0.20

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	11.7 ± 1.2	1.34	87.5	-1.25
Arsenic	µg/l	1.28 ± 0.0432	1.34 ± 0.13	0.166	105	0.38
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.042	0.0423	99.3	-0.07
Chromium	µg/l	1.97 ± 0.0625	1.7 ± 0.17	0.168	86.2	-1.62
Copper	µg/l	9.74 ± 0.205	8.34 ± 0.83	0.876	85.6	-1.59
Iron	µg/l	27.1 ± 1.21	33.1 ± 3.3	2.98	122	2.01
Lead	µg/l	1.22 ± 0.0465	0.998 ± 0.1	0.183	81.7	-1.22
Manganese	µg/l	17.3 ± 0.596	15.7 ± 1.6	1.24	90.8	-1.28
Nickel	µg/l	2.17 ± 0.0698	2.07 ± 0.21	0.26	95.4	-0.39
Selenium	µg/l	4.24 ± 0.17	3.51 ± 0.35	0.509	82.7	-1.44
Uranium	µg/l	1.18 ± 0.0201	1.18 ± 0.12	0.0777	100	0.03
Zinc	µg/l	394 ± 13	441 ± 44	35.4	112	1.34

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.277 ± 0.028	0.0351	111	0.76

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	62.5 ± 6.3	6.33	98.8	-0.12
Arsenic	µg/l	5.14 ± 0.0899	5.13 ± 0.51	0.668	99.8	-0.02
Cadmium	µg/l	2.76 ± 0.0512	2.83 ± 0.28	0.276	103	0.26
Chromium	µg/l	1.89 ± 0.0697	1.63 ± 0.16	0.16	86.4	-1.61
Copper	µg/l	14.8 ± 0.283	13.6 ± 1.4	1.34	91.7	-0.92
Iron	µg/l	99.3 ± 2.38	92.4 ± 9.2	10.9	93.1	-0.63
Lead	µg/l	3.92 ± 0.0984	3.62 ± 0.36	0.588	92.3	-0.51
Manganese	µg/l	21.5 ± 0.422	20.3 ± 2	1.55	94.5	-0.76
Nickel	µg/l	16.7 ± 0.345	15.1 ± 1.5	2.01	90.3	-0.80
Selenium	µg/l	4.46 ± 0.123	3.54 ± 0.35	0.535	79.3	-1.72
Uranium	µg/l	1.83 ± 0.0526	1.92 ± 0.19	0.121	105	0.74

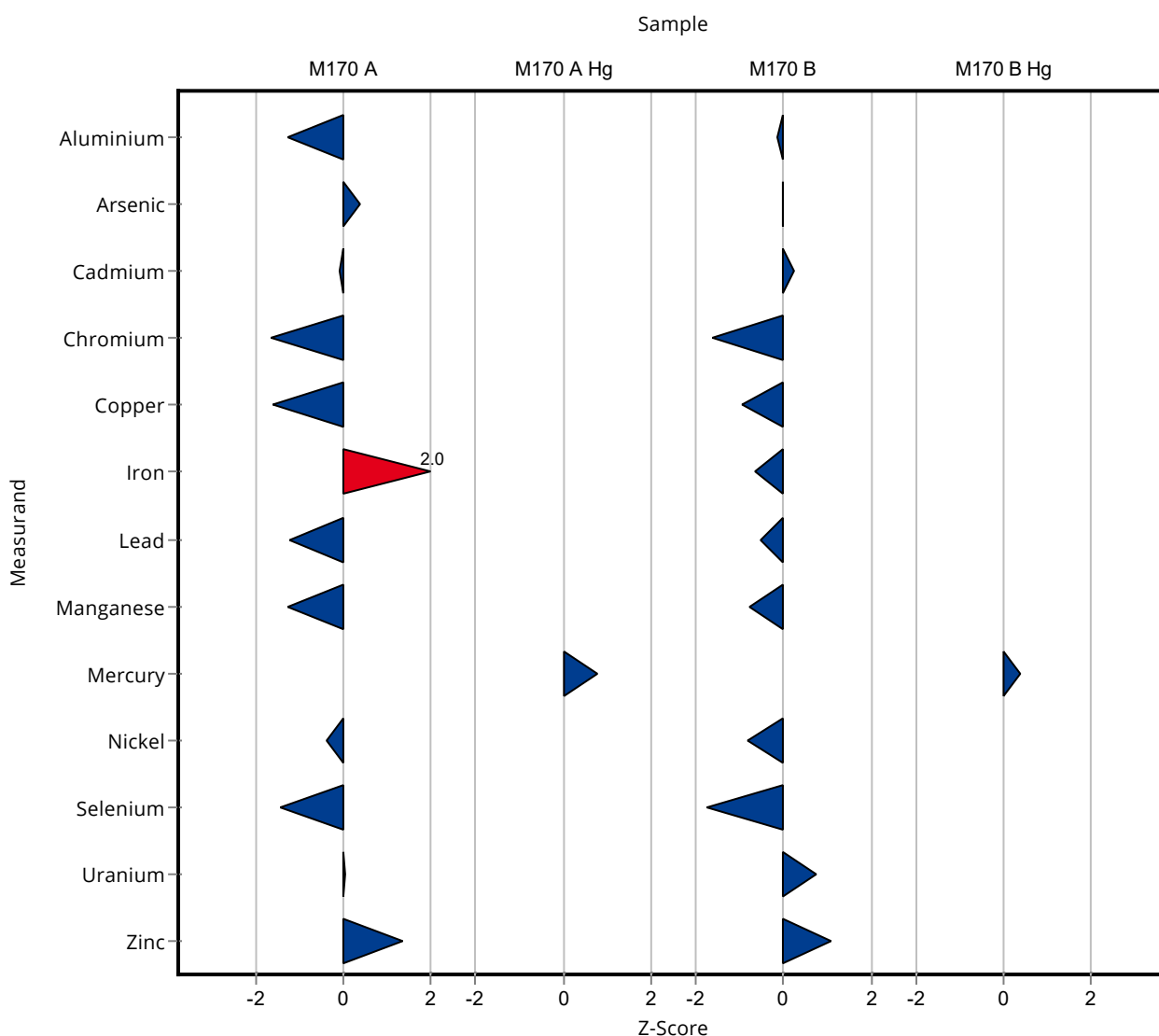
Summary of results Metals and trace elements M170

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	109 ± 11	8.94	110	1.08

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.836 ± 0.084	0.111	106	0.39



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	11.7 ± 1.2	1.34	87.5	-0.68
Arsenic	µg/l	1.28 ± 0.0432	1.34 ± 0.13	0.166	105	0.24
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.042	0.0423	99.3	-0.04
Chromium	µg/l	1.97 ± 0.0625	1.7 ± 0.17	0.168	86.2	-0.79
Copper	µg/l	9.74 ± 0.205	8.34 ± 0.83	0.876	85.6	-0.84
Iron	µg/l	27.1 ± 1.21	33.1 ± 3.3	2.98	122	0.89
Lead	µg/l	1.22 ± 0.0465	0.998 ± 0.1	0.183	81.7	-1.09
Manganese	µg/l	17.3 ± 0.596	15.7 ± 1.6	1.24	90.8	-0.49
Nickel	µg/l	2.17 ± 0.0698	2.07 ± 0.21	0.26	95.4	-0.24
Selenium	µg/l	4.24 ± 0.17	3.51 ± 0.35	0.509	82.7	-1.02
Uranium	µg/l	1.18 ± 0.0201	1.18 ± 0.12	0.0777	100	0.01
Zinc	µg/l	394 ± 13	441 ± 44	35.4	112	0.53

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.277 ± 0.028	0.0351	111	0.47

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	62.5 ± 6.3	6.33	98.8	-0.06
Arsenic	µg/l	5.14 ± 0.0899	5.13 ± 0.51	0.668	99.8	-0.01
Cadmium	µg/l	2.76 ± 0.0512	2.83 ± 0.28	0.276	103	0.13
Chromium	µg/l	1.89 ± 0.0697	1.63 ± 0.16	0.16	86.4	-0.79
Copper	µg/l	14.8 ± 0.283	13.6 ± 1.4	1.34	91.7	-0.44

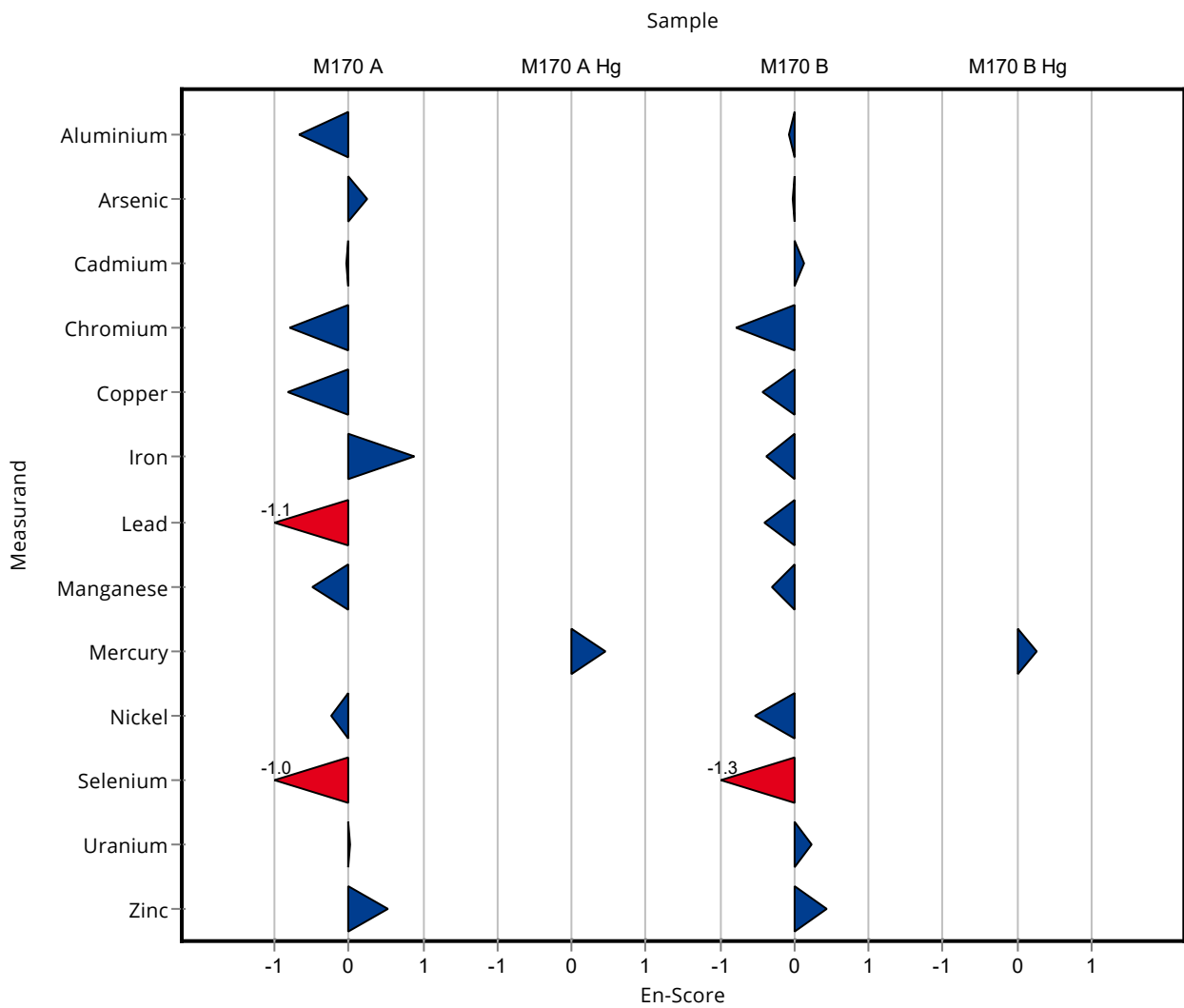
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	92.4 ± 9.2	10.9	93.1	-0.37
Lead	µg/l	3.92 ± 0.0984	3.62 ± 0.36	0.588	92.3	-0.41
Manganese	µg/l	21.5 ± 0.422	20.3 ± 2	1.55	94.5	-0.29
Nickel	µg/l	16.7 ± 0.345	15.1 ± 1.5	2.01	90.3	-0.53
Selenium	µg/l	4.46 ± 0.123	3.54 ± 0.35	0.535	79.3	-1.30
Uranium	µg/l	1.83 ± 0.0526	1.92 ± 0.19	0.121	105	0.23
Zinc	µg/l	99.4 ± 2.59	109 ± 11	8.94	110	0.43

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.836 ± 0.084	0.111	106	0.26



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.26 ± 1.5249	1.34	99.2	-0.08
Arsenic	µg/l	1.28 ± 0.0432	1.348 ± 0.195	0.166	106	0.43
Cadmium	µg/l	0.423 ± 0.0105	0.422 ± 0.058	0.0423	99.7	-0.03
Chromium	µg/l	1.97 ± 0.0625	1.588 ± 0.199	0.168	80.5	-2.29
Copper	µg/l	9.74 ± 0.205	10.63 ± 0.904	0.876	109	1.02
Iron	µg/l	27.1 ± 1.21	29.87 ± 3.73	2.98	110	0.93
Lead	µg/l	1.22 ± 0.0465	1.142 ± 0.143	0.183	93.5	-0.43
Manganese	µg/l	17.3 ± 0.596	19.72 ± 2.37	1.24	114	1.95
Nickel	µg/l	2.17 ± 0.0698	2.028 ± 0.243	0.26	93.4	-0.55
Selenium	µg/l	4.24 ± 0.17	4.235 ± 0.593	0.509	99.8	-0.02
Uranium	µg/l	1.18 ± 0.0201	0.959 ± 0.11	0.0777	81.4	-2.81
Zinc	µg/l	394 ± 13	441.1 ± 72.78	35.4	112	1.34

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.247 ± 0.0247	0.0351	98.6	-0.10

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	66.85 ± 7.69	6.33	106	0.56
Arsenic	µg/l	5.14 ± 0.0899	5.303 ± 0.769	0.668	103	0.24
Cadmium	µg/l	2.76 ± 0.0512	2.541 ± 0.318	0.276	92.1	-0.79
Chromium	µg/l	1.89 ± 0.0697	1.447 ± 0.181	0.16	76.7	-2.75
Copper	µg/l	14.8 ± 0.283	16.18 ± 1.38	1.34	109	1.01
Iron	µg/l	99.3 ± 2.38	109.1 ± 13.6	10.9	110	0.90
Lead	µg/l	3.92 ± 0.0984	3.4 ± 0.425	0.588	86.7	-0.89
Manganese	µg/l	21.5 ± 0.422	24.03 ± 2.88	1.55	112	1.66
Nickel	µg/l	16.7 ± 0.345	18.6 ± 2.23	2.01	111	0.94
Selenium	µg/l	4.46 ± 0.123	4.73 ± 0.662	0.535	106	0.50
Uranium	µg/l	1.83 ± 0.0526	1.4 ± 0.161	0.121	76.5	-3.56

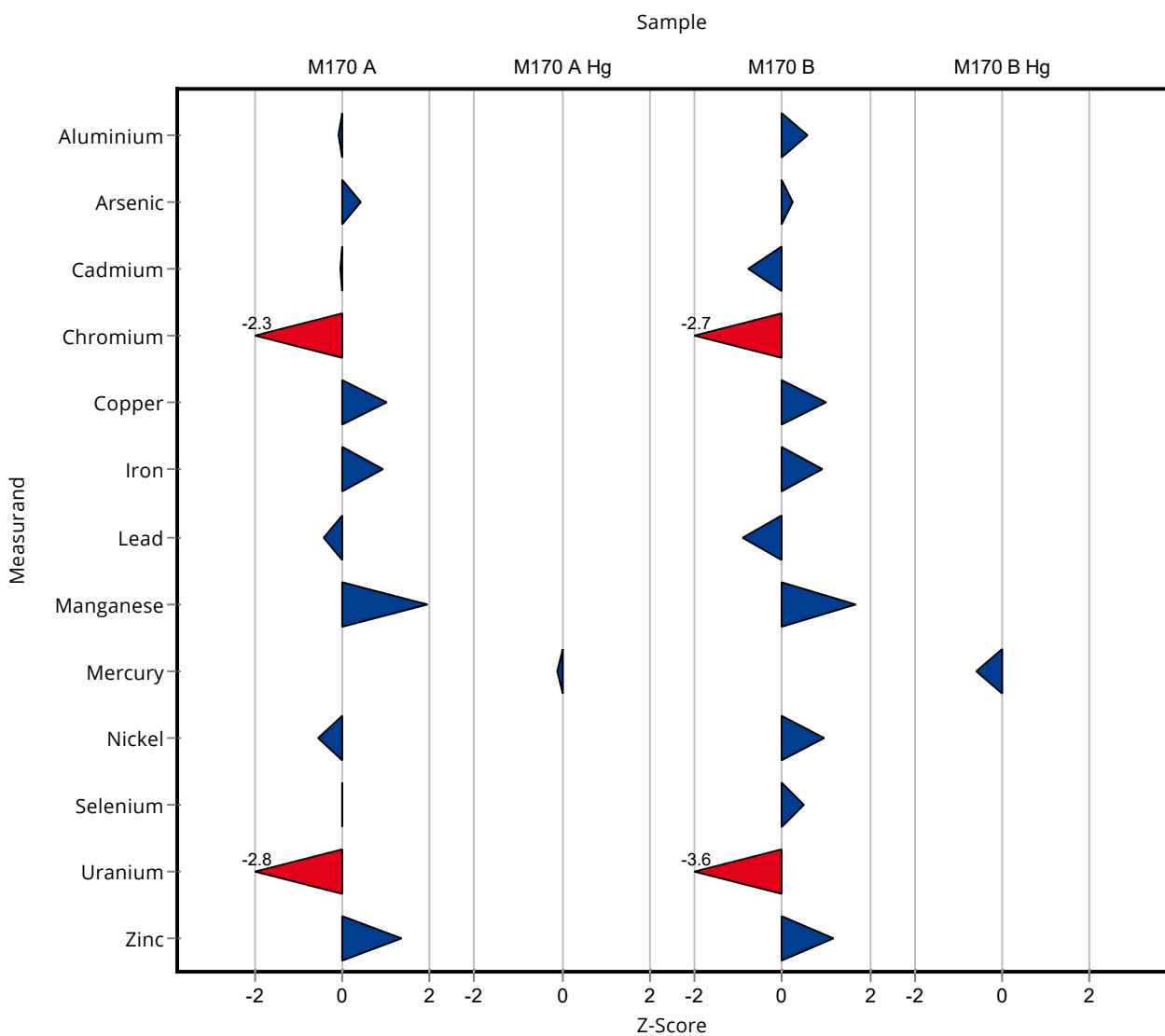
Summary of results Metals and trace elements M170

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	109.9 ± 18.1	8.94	111	1.18

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.729 ± 0.0729	0.111	92	-0.57



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.26 ± 1.5249	1.34	99.2	-0.03
Arsenic	µg/l	1.28 ± 0.0432	1.348 ± 0.195	0.166	106	0.18
Cadmium	µg/l	0.423 ± 0.0105	0.422 ± 0.058	0.0423	99.7	-0.01
Chromium	µg/l	1.97 ± 0.0625	1.588 ± 0.199	0.168	80.5	-0.95
Copper	µg/l	9.74 ± 0.205	10.63 ± 0.904	0.876	109	0.49
Iron	µg/l	27.1 ± 1.21	29.87 ± 3.73	2.98	110	0.37
Lead	µg/l	1.22 ± 0.0465	1.142 ± 0.143	0.183	93.5	-0.27
Manganese	µg/l	17.3 ± 0.596	19.72 ± 2.37	1.24	114	0.51
Nickel	µg/l	2.17 ± 0.0698	2.028 ± 0.243	0.26	93.4	-0.29
Selenium	µg/l	4.24 ± 0.17	4.235 ± 0.593	0.509	99.8	-0.01
Uranium	µg/l	1.18 ± 0.0201	0.959 ± 0.11	0.0777	81.4	-0.99
Zinc	µg/l	394 ± 13	441.1 ± 72.78	35.4	112	0.32

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.247 ± 0.0247	0.0351	98.6	-0.07

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	66.85 ± 7.69	6.33	106	0.23
Arsenic	µg/l	5.14 ± 0.0899	5.303 ± 0.769	0.668	103	0.10
Cadmium	µg/l	2.76 ± 0.0512	2.541 ± 0.318	0.276	92.1	-0.34
Chromium	µg/l	1.89 ± 0.0697	1.447 ± 0.181	0.16	76.7	-1.20
Copper	µg/l	14.8 ± 0.283	16.18 ± 1.38	1.34	109	0.49

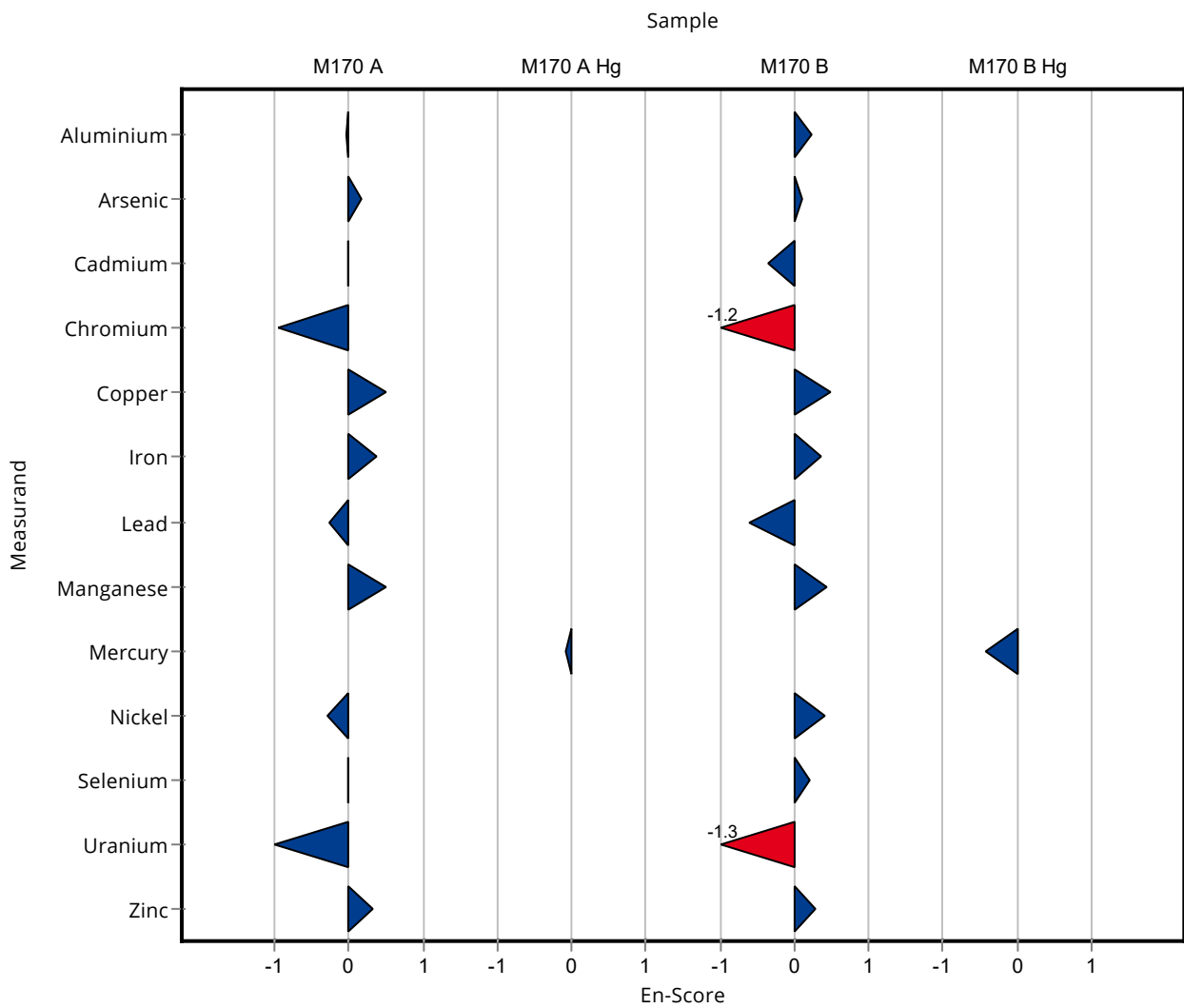
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	109.1 ± 13.6	10.9	110	0.36
Lead	µg/l	3.92 ± 0.0984	3.4 ± 0.425	0.588	86.7	-0.61
Manganese	µg/l	21.5 ± 0.422	24.03 ± 2.88	1.55	112	0.44
Nickel	µg/l	16.7 ± 0.345	18.6 ± 2.23	2.01	111	0.42
Selenium	µg/l	4.46 ± 0.123	4.73 ± 0.662	0.535	106	0.20
Uranium	µg/l	1.83 ± 0.0526	1.4 ± 0.161	0.121	76.5	-1.32
Zinc	µg/l	99.4 ± 2.59	109.9 ± 18.1	8.94	111	0.29

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.729 ± 0.0729	0.111	92	-0.43



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.5 ± 2.7	1.34	101	0.10
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.24	0.166	94	-0.46
Cadmium	µg/l	0.423 ± 0.0105	0.4 ± 0.08	0.0423	94.5	-0.55
Chromium	µg/l	1.97 ± 0.0625	1.88 ± 0.38	0.168	95.3	-0.55
Copper	µg/l	9.74 ± 0.205	9.43 ± 1.9	0.876	96.8	-0.35
Iron	µg/l	27.1 ± 1.21	23.5 ± 4.7	2.98	86.7	-1.21
Lead	µg/l	1.22 ± 0.0465	1.2 ± 0.24	0.183	98.3	-0.11
Manganese	µg/l	17.3 ± 0.596	17 ± 3.4	1.24	98.3	-0.23
Nickel	µg/l	2.17 ± 0.0698	2 ± 0.4	0.26	92.1	-0.66
Selenium	µg/l	4.24 ± 0.17	4.9 ± 0.98	0.509	115	1.29
Uranium	µg/l	1.18 ± 0.0201	1.2 ± 0.24	0.0777	102	0.29
Zinc	µg/l	394 ± 13	383 ± 77	35.4	97.3	-0.30

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.228 ± 0.034	0.0351	91	-0.64

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	65.8 ± 13	6.33	104	0.40
Arsenic	µg/l	5.14 ± 0.0899	4.88 ± 0.98	0.668	94.9	-0.39
Cadmium	µg/l	2.76 ± 0.0512	2.53 ± 0.51	0.276	91.7	-0.83
Chromium	µg/l	1.89 ± 0.0697	1.75 ± 0.35	0.16	92.7	-0.86
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.9	1.34	97.7	-0.25
Iron	µg/l	99.3 ± 2.38	94 ± 19	10.9	94.7	-0.48
Lead	µg/l	3.92 ± 0.0984	3.9 ± 0.78	0.588	99.5	-0.04
Manganese	µg/l	21.5 ± 0.422	21.5 ± 4.3	1.55	100	0.02
Nickel	µg/l	16.7 ± 0.345	15.5 ± 3.1	2.01	92.7	-0.60
Selenium	µg/l	4.46 ± 0.123	4.6 ± 0.92	0.535	103	0.26
Uranium	µg/l	1.83 ± 0.0526	1.68 ± 0.34	0.121	91.8	-1.24

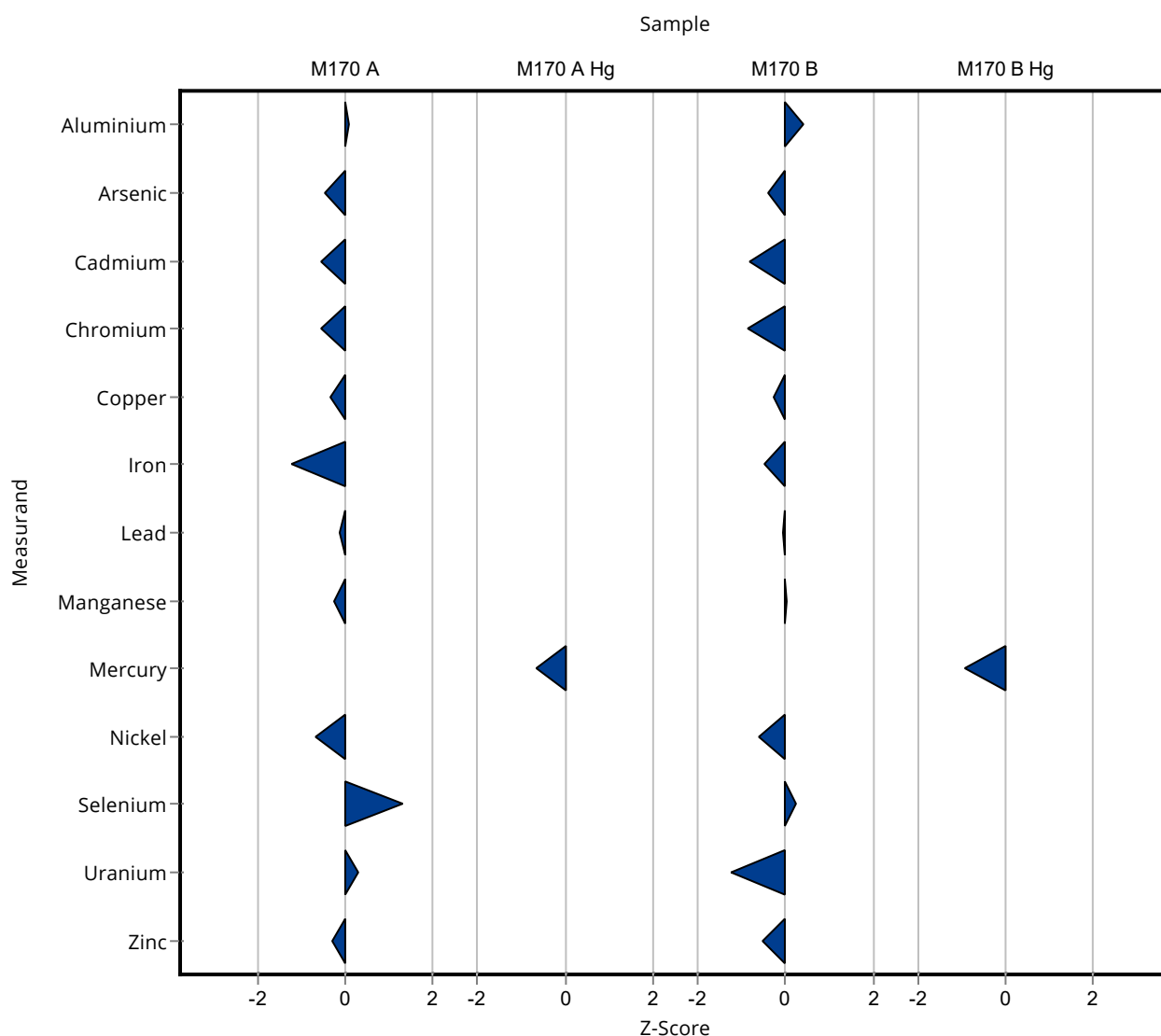
Summary of results Metals and trace elements M170

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	94.8 ± 19	8.94	95.4	-0.51

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.688 ± 0.1	0.111	86.8	-0.94



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.5 ± 2.7	1.34	101	0.02
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.24	0.166	94	-0.16
Cadmium	µg/l	0.423 ± 0.0105	0.4 ± 0.08	0.0423	94.5	-0.14
Chromium	µg/l	1.97 ± 0.0625	1.88 ± 0.38	0.168	95.3	-0.12
Copper	µg/l	9.74 ± 0.205	9.43 ± 1.9	0.876	96.8	-0.08
Iron	µg/l	27.1 ± 1.21	23.5 ± 4.7	2.98	86.7	-0.38
Lead	µg/l	1.22 ± 0.0465	1.2 ± 0.24	0.183	98.3	-0.04
Manganese	µg/l	17.3 ± 0.596	17 ± 3.4	1.24	98.3	-0.04
Nickel	µg/l	2.17 ± 0.0698	2 ± 0.4	0.26	92.1	-0.21
Selenium	µg/l	4.24 ± 0.17	4.9 ± 0.98	0.509	115	0.33
Uranium	µg/l	1.18 ± 0.0201	1.2 ± 0.24	0.0777	102	0.05
Zinc	µg/l	394 ± 13	383 ± 77	35.4	97.3	-0.07

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.228 ± 0.034	0.0351	91	-0.33

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	65.8 ± 13	6.33	104	0.10
Arsenic	µg/l	5.14 ± 0.0899	4.88 ± 0.98	0.668	94.9	-0.13
Cadmium	µg/l	2.76 ± 0.0512	2.53 ± 0.51	0.276	91.7	-0.22
Chromium	µg/l	1.89 ± 0.0697	1.75 ± 0.35	0.16	92.7	-0.20
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.9	1.34	97.7	-0.06

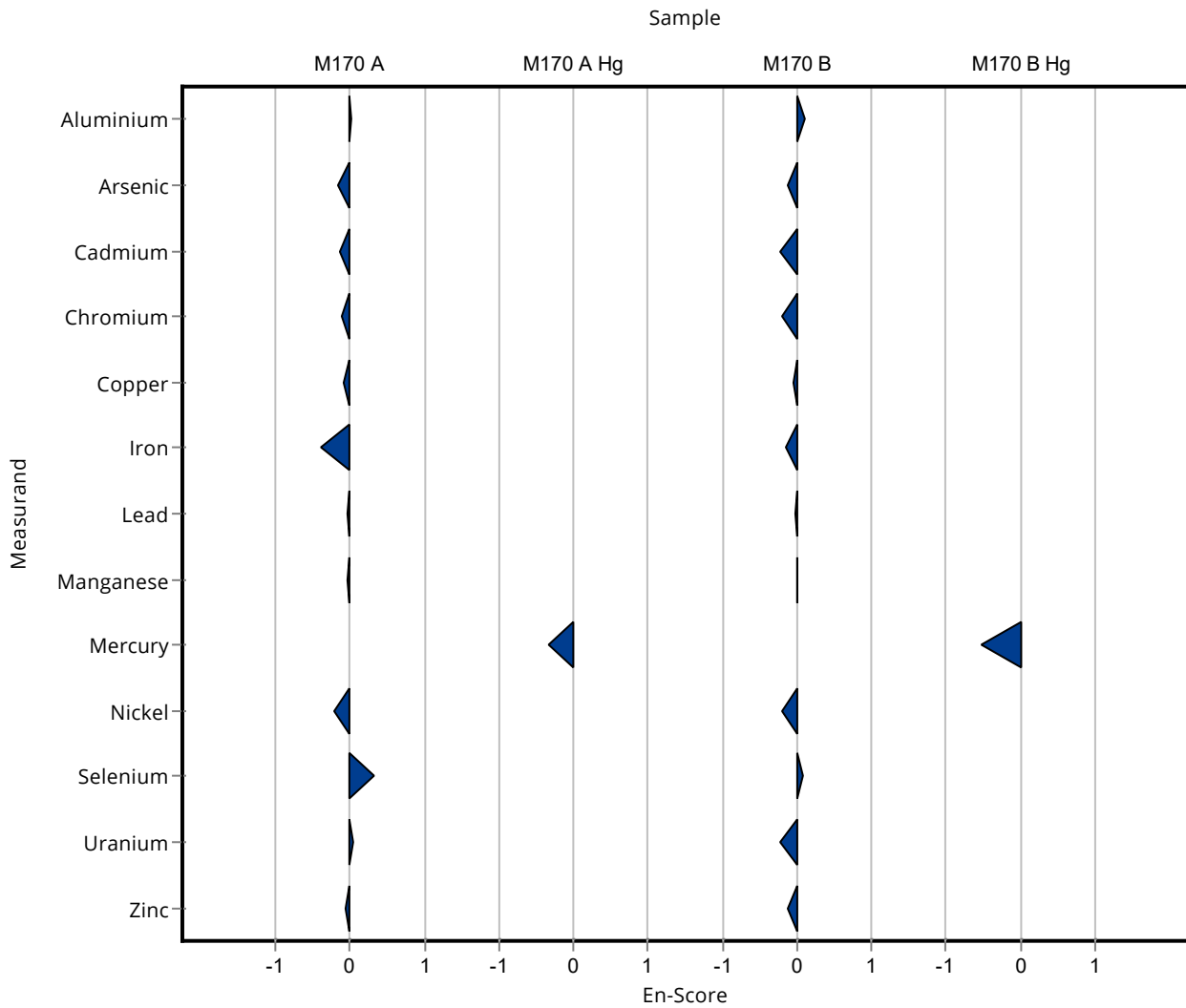
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	94 ± 19	10.9	94.7	-0.14
Lead	µg/l	3.92 ± 0.0984	3.9 ± 0.78	0.588	99.5	-0.01
Manganese	µg/l	21.5 ± 0.422	21.5 ± 4.3	1.55	100	0.00
Nickel	µg/l	16.7 ± 0.345	15.5 ± 3.1	2.01	92.7	-0.20
Selenium	µg/l	4.46 ± 0.123	4.6 ± 0.92	0.535	103	0.07
Uranium	µg/l	1.83 ± 0.0526	1.68 ± 0.34	0.121	91.8	-0.22
Zinc	µg/l	99.4 ± 2.59	94.8 ± 19	8.94	95.4	-0.12

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.688 ± 0.1	0.111	86.8	-0.52



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.9 ± 1.29	1.34	96.5	-0.35
Arsenic	µg/l	1.28 ± 0.0432	1.3 ± 0.2	0.166	102	0.14
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.042	0.0423	99.3	-0.07
Chromium	µg/l	1.97 ± 0.0625	2 ± 0.2	0.168	101	0.17
Copper	µg/l	9.74 ± 0.205	9.7 ± 0.97	0.876	99.6	-0.04
Iron	µg/l	27.1 ± 1.21	29.2 ± 2.92	2.98	108	0.70
Lead	µg/l	1.22 ± 0.0465	1.2 ± 0.12	0.183	98.3	-0.11
Manganese	µg/l	17.3 ± 0.596	18.4 ± 1.84	1.24	106	0.89
Nickel	µg/l	2.17 ± 0.0698	2.2 ± 0.22	0.26	101	0.11
Selenium	µg/l	4.24 ± 0.17	2.4 ± 0.36	0.509	56.6	-3.62
Uranium	µg/l	1.18 ± 0.0201	1.2 ± 0.12	0.0777	102	0.29
Zinc	µg/l	394 ± 13	368 ± 36.8	35.4	93.5	-0.72

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.25 ± 0.025	0.0351	99.8	-0.01

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	64.5 ± 6.45	6.33	102	0.19
Arsenic	µg/l	5.14 ± 0.0899	5.2 ± 0.78	0.668	101	0.09
Cadmium	µg/l	2.76 ± 0.0512	2.9 ± 0.29	0.276	105	0.51
Chromium	µg/l	1.89 ± 0.0697	1.9 ± 0.19	0.16	101	0.08
Copper	µg/l	14.8 ± 0.283	14.9 ± 1.49	1.34	100	0.05
Iron	µg/l	99.3 ± 2.38	103 ± 10.3	10.9	104	0.34
Lead	µg/l	3.92 ± 0.0984	3.9 ± 0.39	0.588	99.5	-0.04
Manganese	µg/l	21.5 ± 0.422	22.4 ± 2.24	1.55	104	0.60
Nickel	µg/l	16.7 ± 0.345	16.7 ± 1.67	2.01	99.9	-0.01
Selenium	µg/l	4.46 ± 0.123	4.4 ± 0.66	0.535	98.6	-0.12
Uranium	µg/l	1.83 ± 0.0526	2 ± 0.2	0.121	109	1.41

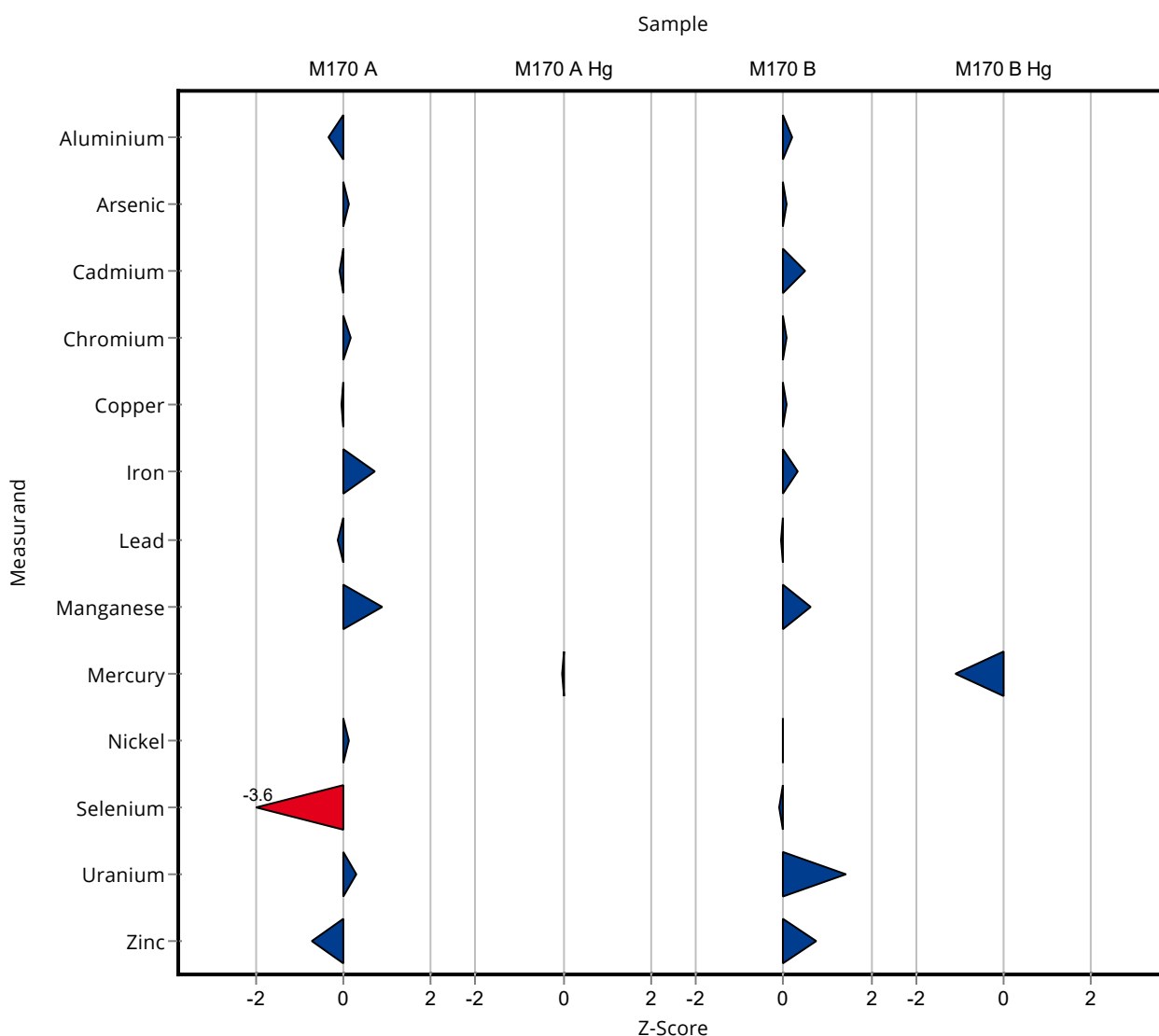
Summary of results Metals and trace elements M170

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	106 ± 10.6	8.94	107	0.74

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.67 ± 0.067	0.111	84.6	-1.10



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.9 ± 1.29	1.34	96.5	-0.18
Arsenic	µg/l	1.28 ± 0.0432	1.3 ± 0.2	0.166	102	0.06
Cadmium	µg/l	0.423 ± 0.0105	0.42 ± 0.042	0.0423	99.3	-0.04
Chromium	µg/l	1.97 ± 0.0625	2 ± 0.2	0.168	101	0.07
Copper	µg/l	9.74 ± 0.205	9.7 ± 0.97	0.876	99.6	-0.02
Iron	µg/l	27.1 ± 1.21	29.2 ± 2.92	2.98	108	0.35
Lead	µg/l	1.22 ± 0.0465	1.2 ± 0.12	0.183	98.3	-0.09
Manganese	µg/l	17.3 ± 0.596	18.4 ± 1.84	1.24	106	0.30
Nickel	µg/l	2.17 ± 0.0698	2.2 ± 0.22	0.26	101	0.07
Selenium	µg/l	4.24 ± 0.17	2.4 ± 0.36	0.509	56.6	-2.49
Uranium	µg/l	1.18 ± 0.0201	1.2 ± 0.12	0.0777	102	0.09
Zinc	µg/l	394 ± 13	368 ± 36.8	35.4	93.5	-0.34

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.25 ± 0.025	0.0351	99.8	-0.01

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	64.5 ± 6.45	6.33	102	0.09
Arsenic	µg/l	5.14 ± 0.0899	5.2 ± 0.78	0.668	101	0.04
Cadmium	µg/l	2.76 ± 0.0512	2.9 ± 0.29	0.276	105	0.24
Chromium	µg/l	1.89 ± 0.0697	1.9 ± 0.19	0.16	101	0.03
Copper	µg/l	14.8 ± 0.283	14.9 ± 1.49	1.34	100	0.02

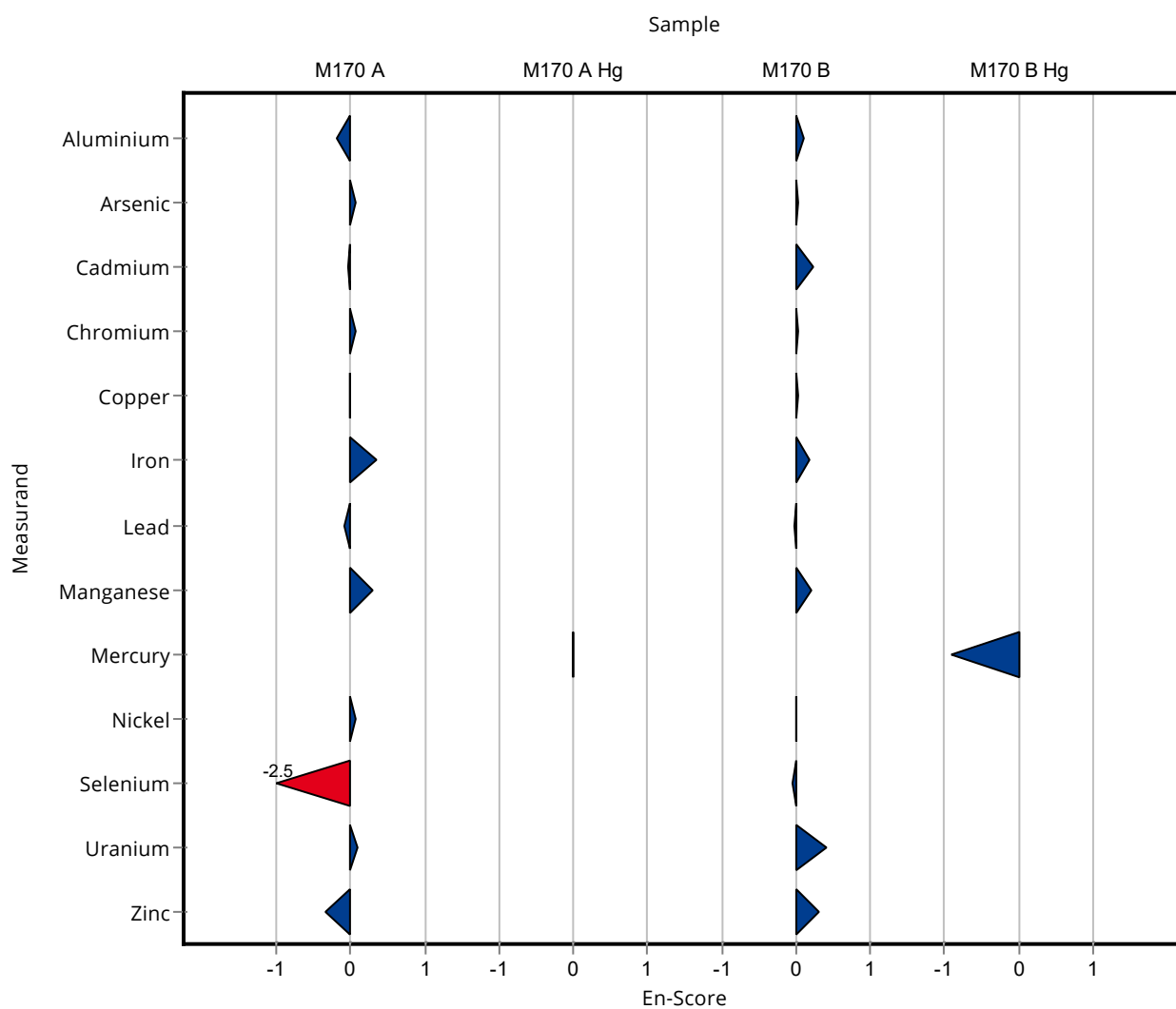
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	103 ± 10.3	10.9	104	0.18
Lead	µg/l	3.92 ± 0.0984	3.9 ± 0.39	0.588	99.5	-0.03
Manganese	µg/l	21.5 ± 0.422	22.4 ± 2.24	1.55	104	0.21
Nickel	µg/l	16.7 ± 0.345	16.7 ± 1.67	2.01	99.9	0.00
Selenium	µg/l	4.46 ± 0.123	4.4 ± 0.66	0.535	98.6	-0.05
Uranium	µg/l	1.83 ± 0.0526	2 ± 0.2	0.121	109	0.42
Zinc	µg/l	99.4 ± 2.59	106 ± 10.6	8.94	107	0.31

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.67 ± 0.067	0.111	84.6	-0.90



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.78 ± 0.62	1.34	95.6	-0.44
Arsenic	µg/l	1.28 ± 0.0432	1.43 ± 0.05	0.166	112	0.92
Cadmium	µg/l	0.423 ± 0.0105	0.39 ± 0.03	0.0423	92.2	-0.78
Chromium	µg/l	1.97 ± 0.0625	1.96 ± 0.1	0.168	99.4	-0.07
Copper	µg/l	9.74 ± 0.205	10.37 ± 0.71	0.876	106	0.72
Iron	µg/l	27.1 ± 1.21	29.63 ± 1.45	2.98	109	0.85
Lead	µg/l	1.22 ± 0.0465	1.15 ± 0.04	0.183	94.2	-0.39
Manganese	µg/l	17.3 ± 0.596	17.81 ± 0.94	1.24	103	0.42
Nickel	µg/l	2.17 ± 0.0698	2.37 ± 0.12	0.26	109	0.76
Selenium	µg/l	4.24 ± 0.17	5.43 ± 0.31	0.509	128	2.33
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	409.63 ± 20.32	35.4	104	0.45

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	60.96 ± 2.94	6.33	96.3	-0.37
Arsenic	µg/l	5.14 ± 0.0899	5.54 ± 0.19	0.668	108	0.60
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.2	0.276	104	0.40
Chromium	µg/l	1.89 ± 0.0697	2.01 ± 0.1	0.16	106	0.76
Copper	µg/l	14.8 ± 0.283	15.74 ± 1.07	1.34	106	0.68
Iron	µg/l	99.3 ± 2.38	99.99 ± 4.91	10.9	101	0.07
Lead	µg/l	3.92 ± 0.0984	4.07 ± 0.16	0.588	104	0.25
Manganese	µg/l	21.5 ± 0.422	21.76 ± 1.15	1.55	101	0.19
Nickel	µg/l	16.7 ± 0.345	17.3 ± 0.9	2.01	104	0.29
Selenium	µg/l	4.46 ± 0.123	5.6 ± 0.32	0.535	125	2.12
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

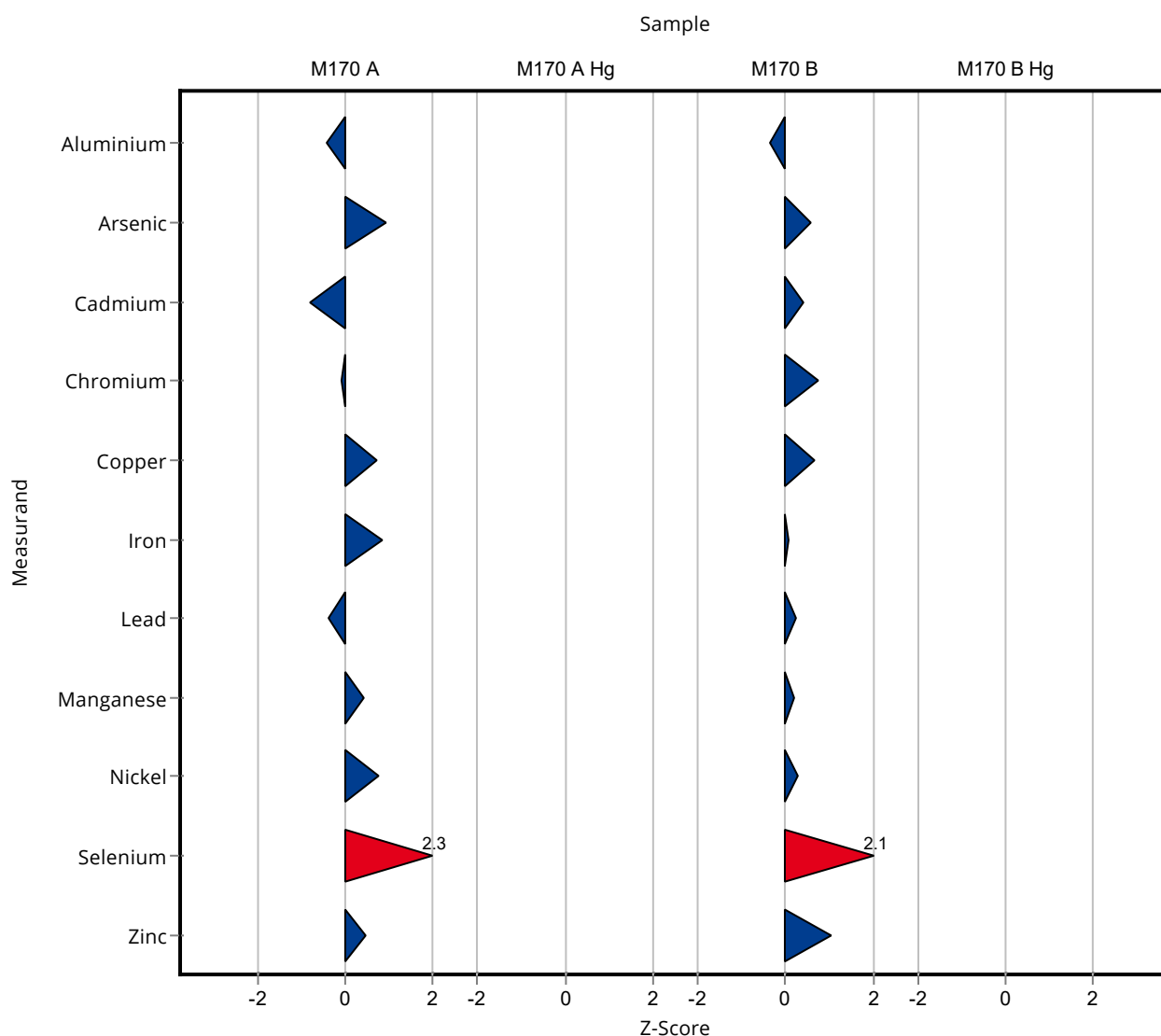
Summary of results Metals and trace elements M170

Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	108.51 ± 5.38	8.94	109	1.02

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.78 ± 0.62	1.34	95.6	-0.43
Arsenic	µg/l	1.28 ± 0.0432	1.43 ± 0.05	0.166	112	1.41
Cadmium	µg/l	0.423 ± 0.0105	0.39 ± 0.03	0.0423	92.2	-0.54
Chromium	µg/l	1.97 ± 0.0625	1.96 ± 0.1	0.168	99.4	-0.06
Copper	µg/l	9.74 ± 0.205	10.37 ± 0.71	0.876	106	0.44
Iron	µg/l	27.1 ± 1.21	29.63 ± 1.45	2.98	109	0.80
Lead	µg/l	1.22 ± 0.0465	1.15 ± 0.04	0.183	94.2	-0.77
Manganese	µg/l	17.3 ± 0.596	17.81 ± 0.94	1.24	103	0.26
Nickel	µg/l	2.17 ± 0.0698	2.37 ± 0.12	0.26	109	0.80
Selenium	µg/l	4.24 ± 0.17	5.43 ± 0.31	0.509	128	1.85
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	409.63 ± 20.32	35.4	104	0.37

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	60.96 ± 2.94	6.33	96.3	-0.39
Arsenic	µg/l	5.14 ± 0.0899	5.54 ± 0.19	0.668	108	1.02
Cadmium	µg/l	2.76 ± 0.0512	2.87 ± 0.2	0.276	104	0.27
Chromium	µg/l	1.89 ± 0.0697	2.01 ± 0.1	0.16	106	0.58
Copper	µg/l	14.8 ± 0.283	15.74 ± 1.07	1.34	106	0.42

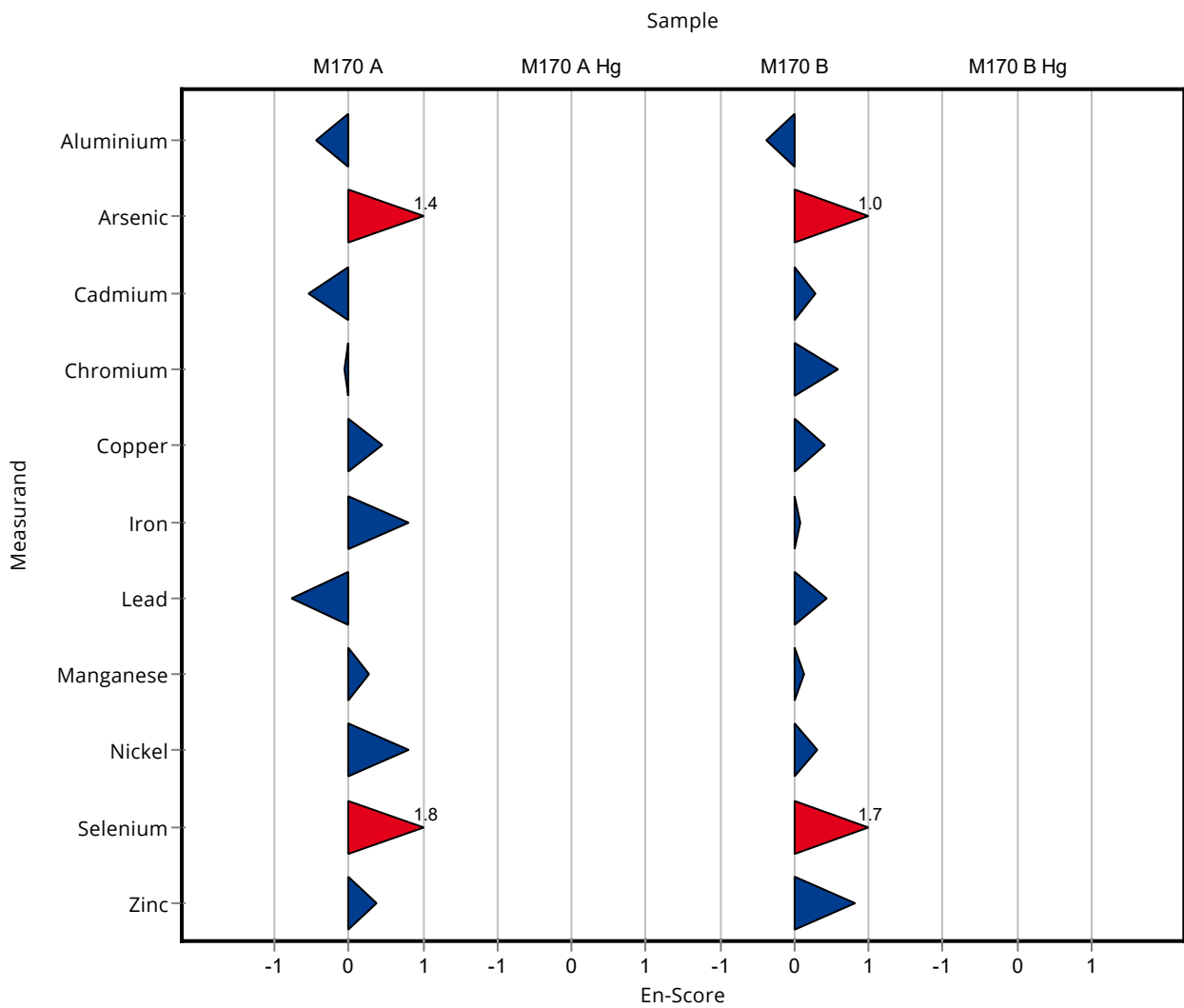
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	99.99 ± 4.91	10.9	101	0.07
Lead	µg/l	3.92 ± 0.0984	4.07 ± 0.16	0.588	104	0.44
Manganese	µg/l	21.5 ± 0.422	21.76 ± 1.15	1.55	101	0.12
Nickel	µg/l	16.7 ± 0.345	17.3 ± 0.9	2.01	104	0.32
Selenium	µg/l	4.46 ± 0.123	5.6 ± 0.32	0.535	125	1.75
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	108.51 ± 5.38	8.94	109	0.83

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	16.58 ± 1.87	1.34	124	2.40
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.05	0.166	94	-0.46
Cadmium	µg/l	0.423 ± 0.0105	0.36 ± 0.01	0.0423	85.1	-1.49
Chromium	µg/l	1.97 ± 0.0625	2.12 ± 0.12	0.168	107	0.88
Copper	µg/l	9.74 ± 0.205	9.85 ± 0.4	0.876	101	0.13
Iron	µg/l	27.1 ± 1.21	27.37 ± 1.24	2.98	101	0.09
Lead	µg/l	1.22 ± 0.0465	1.07 ± 0.06	0.183	87.6	-0.82
Manganese	µg/l	17.3 ± 0.596	18.63 ± 0.73	1.24	108	1.08
Nickel	µg/l	2.17 ± 0.0698	2.19 ± 0.09	0.26	101	0.07
Selenium	µg/l	4.24 ± 0.17	4.05 ± 0.24	0.509	95.5	-0.38
Uranium	µg/l	1.18 ± 0.0201	0.99 ± 0.05	0.0777	84.1	-2.42
Zinc	µg/l	394 ± 13	404.6 ± 26.39	35.4	103	0.31

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	15.64 ± 1.44	0.0351	6250	438.96

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	66.83 ± 4.77	6.33	106	0.56
Arsenic	µg/l	5.14 ± 0.0899	4.9 ± 0.24	0.668	95.3	-0.36
Cadmium	µg/l	2.76 ± 0.0512	2.58 ± 0.09	0.276	93.5	-0.65
Chromium	µg/l	1.89 ± 0.0697	1.94 ± 0.11	0.16	103	0.33
Copper	µg/l	14.8 ± 0.283	14.41 ± 0.63	1.34	97.1	-0.32
Iron	µg/l	99.3 ± 2.38	97.9 ± 7.48	10.9	98.6	-0.12
Lead	µg/l	3.92 ± 0.0984	3.52 ± 0.1	0.588	89.8	-0.68
Manganese	µg/l	21.5 ± 0.422	21.98 ± 1.11	1.55	102	0.33
Nickel	µg/l	16.7 ± 0.345	16.26 ± 0.77	2.01	97.3	-0.23
Selenium	µg/l	4.46 ± 0.123	4.17 ± 0.2	0.535	93.4	-0.55
Uranium	µg/l	1.83 ± 0.0526	1.58 ± 0.03	0.121	86.3	-2.07

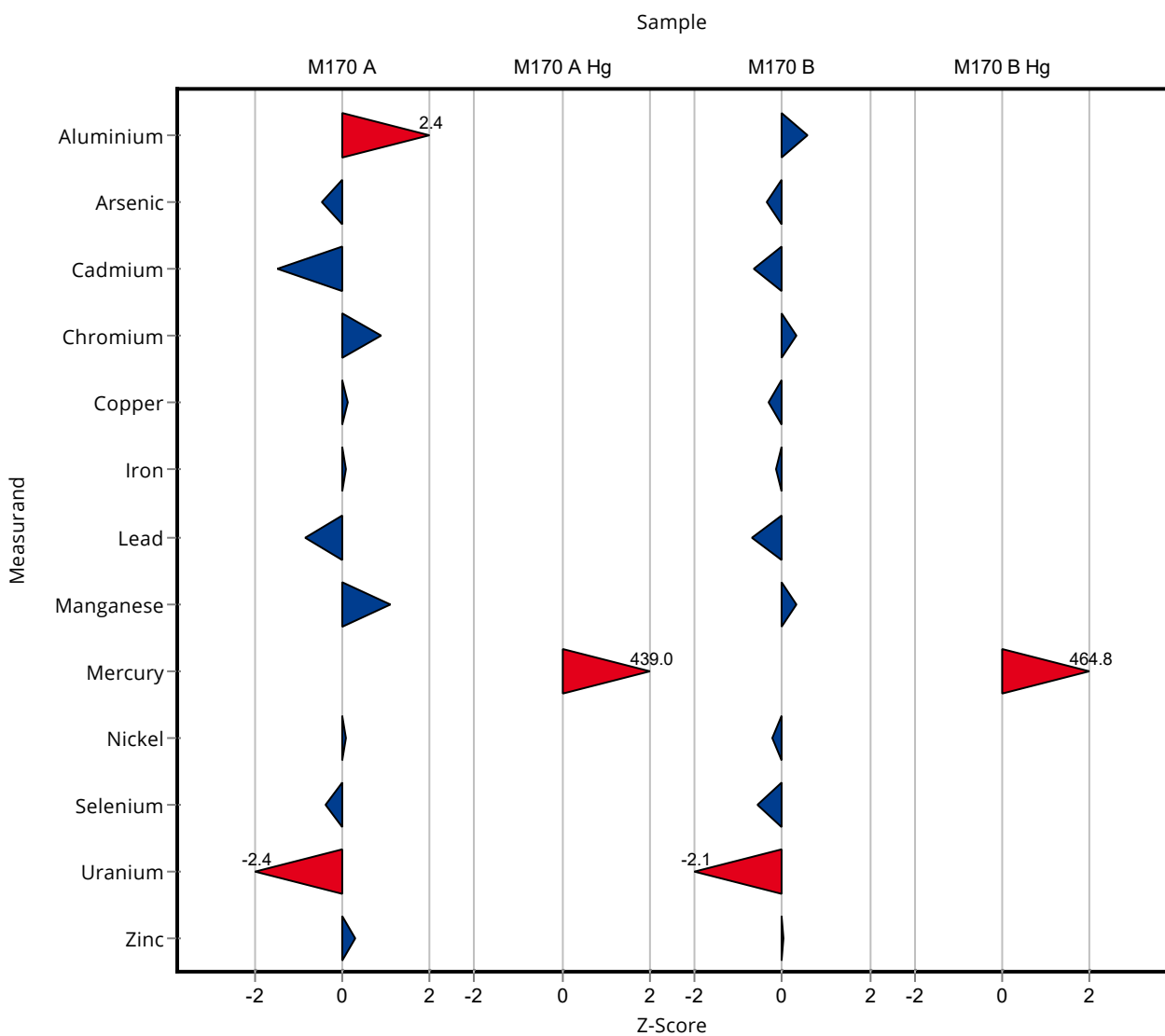
Summary of results Metals and trace elements M170

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	99.58 ± 6.46	8.94	100	0.02

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	52.34 ± 7.04	0.111	6610	464.76



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	16.58 ± 1.87	1.34	124	0.85
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.05	0.166	94	-0.70
Cadmium	µg/l	0.423 ± 0.0105	0.36 ± 0.01	0.0423	85.1	-2.80
Chromium	µg/l	1.97 ± 0.0625	2.12 ± 0.12	0.168	107	0.60
Copper	µg/l	9.74 ± 0.205	9.85 ± 0.4	0.876	101	0.14
Iron	µg/l	27.1 ± 1.21	27.37 ± 1.24	2.98	101	0.10
Lead	µg/l	1.22 ± 0.0465	1.07 ± 0.06	0.183	87.6	-1.17
Manganese	µg/l	17.3 ± 0.596	18.63 ± 0.73	1.24	108	0.85
Nickel	µg/l	2.17 ± 0.0698	2.19 ± 0.09	0.26	101	0.10
Selenium	µg/l	4.24 ± 0.17	4.05 ± 0.24	0.509	95.5	-0.38
Uranium	µg/l	1.18 ± 0.0201	0.99 ± 0.05	0.0777	84.1	-1.84
Zinc	µg/l	394 ± 13	404.6 ± 26.39	35.4	103	0.20

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	15.64 ± 1.44	0.0351	6250	5.34

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	66.83 ± 4.77	6.33	106	0.37
Arsenic	µg/l	5.14 ± 0.0899	4.9 ± 0.24	0.668	95.3	-0.50
Cadmium	µg/l	2.76 ± 0.0512	2.58 ± 0.09	0.276	93.5	-0.96
Chromium	µg/l	1.89 ± 0.0697	1.94 ± 0.11	0.16	103	0.23
Copper	µg/l	14.8 ± 0.283	14.41 ± 0.63	1.34	97.1	-0.33

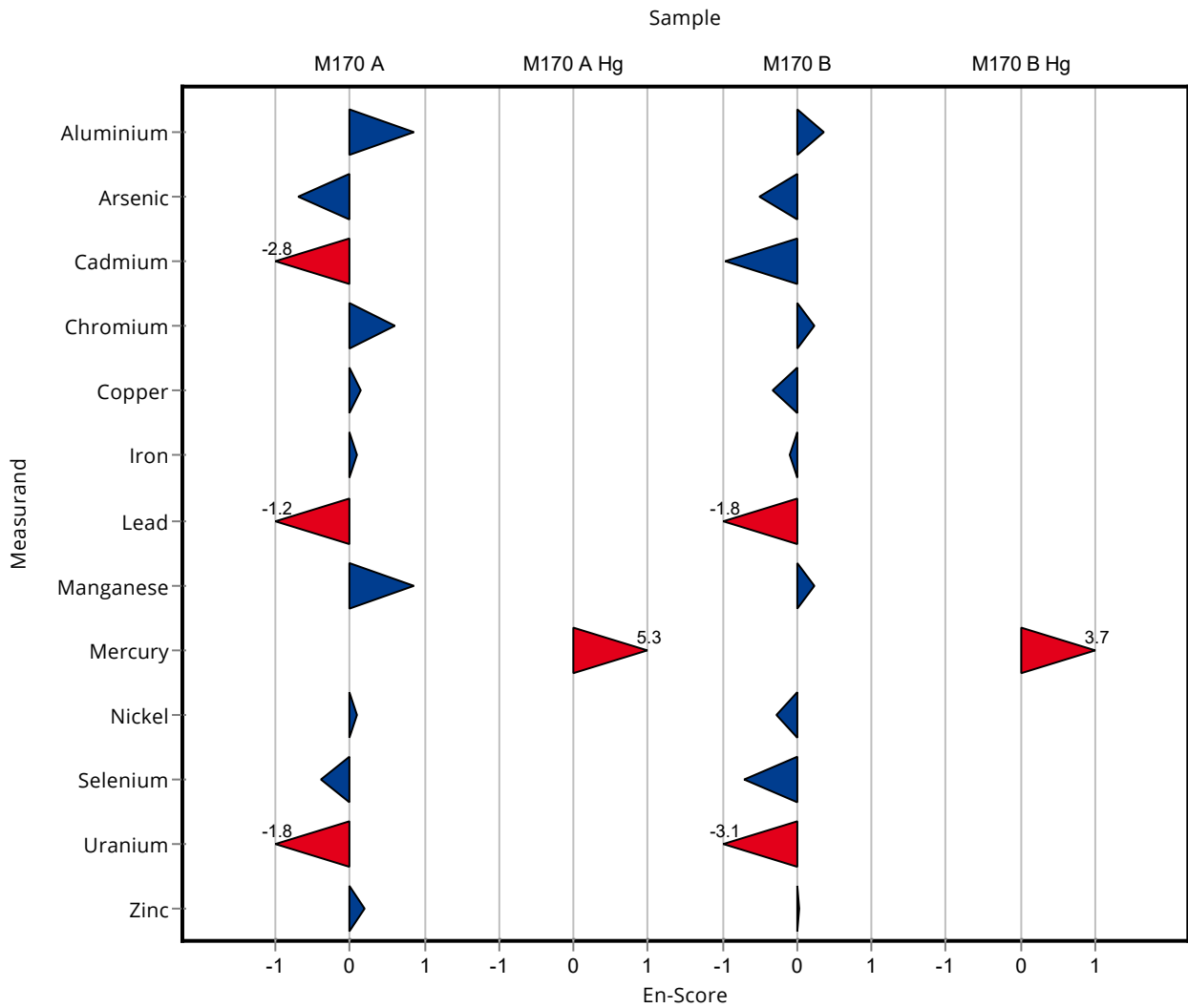
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	97.9 ± 7.48	10.9	98.6	-0.09
Lead	µg/l	3.92 ± 0.0984	3.52 ± 0.1	0.588	89.8	-1.80
Manganese	µg/l	21.5 ± 0.422	21.98 ± 1.11	1.55	102	0.23
Nickel	µg/l	16.7 ± 0.345	16.26 ± 0.77	2.01	97.3	-0.29
Selenium	µg/l	4.46 ± 0.123	4.17 ± 0.2	0.535	93.4	-0.70
Uranium	µg/l	1.83 ± 0.0526	1.58 ± 0.03	0.121	86.3	-3.14
Zinc	µg/l	99.4 ± 2.59	99.58 ± 6.46	8.94	100	0.02

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	52.34 ± 7.04	0.111	6610	3.66



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	16.5 ± 3.3	1.34	123	2.34
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10.5 ± 2.1	0.876	108	0.87
Iron	µg/l	27.1 ± 1.21	24.8 ± 3.8	2.98	91.5	-0.77
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	- ± -	1.24	-	-
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	399.15 ± 87.8	35.4	101	0.16

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	67.95 ± 13.6	6.33	107	0.74
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	15.4 ± 3.4	1.34	104	0.42
Iron	µg/l	99.3 ± 2.38	94.85 ± 11.4	10.9	95.6	-0.40
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	- ± -	1.55	-	-
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

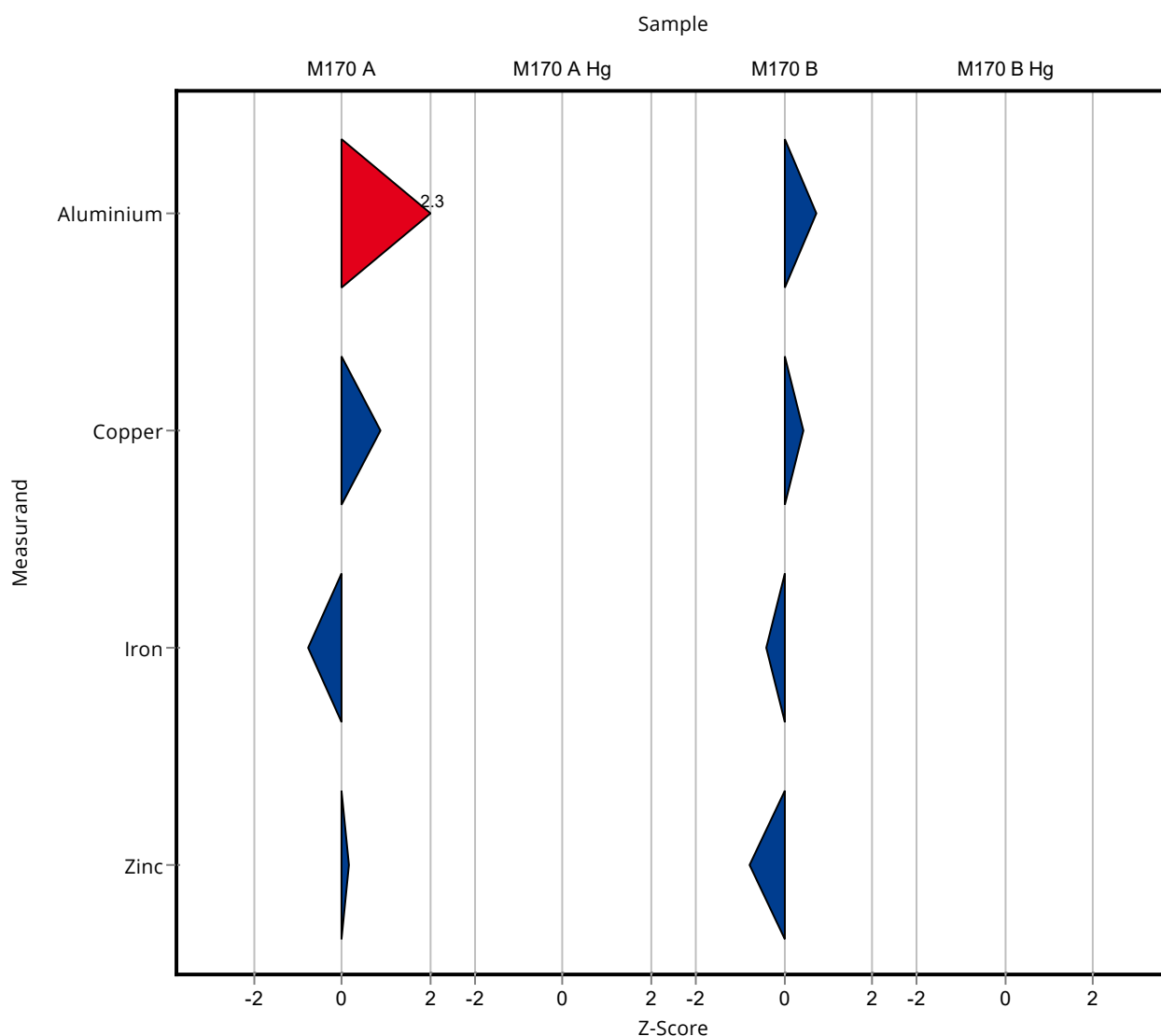
Summary of results Metals and trace elements M170

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	92.5 ± 20.4	8.94	93.1	-0.77

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	16.5 ± 3.3	1.34	123	0.47
Arsenic	µg/l	1.28 ± 0.0432	- ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	- ± -	0.0423	-	-
Chromium	µg/l	1.97 ± 0.0625	- ± -	0.168	-	-
Copper	µg/l	9.74 ± 0.205	10.5 ± 2.1	0.876	108	0.18
Iron	µg/l	27.1 ± 1.21	24.8 ± 3.8	2.98	91.5	-0.30
Lead	µg/l	1.22 ± 0.0465	- ± -	0.183	-	-
Manganese	µg/l	17.3 ± 0.596	- ± -	1.24	-	-
Nickel	µg/l	2.17 ± 0.0698	- ± -	0.26	-	-
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	399.15 ± 87.8	35.4	101	0.03

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	67.95 ± 13.6	6.33	107	0.17
Arsenic	µg/l	5.14 ± 0.0899	- ± -	0.668	-	-
Cadmium	µg/l	2.76 ± 0.0512	- ± -	0.276	-	-
Chromium	µg/l	1.89 ± 0.0697	- ± -	0.16	-	-
Copper	µg/l	14.8 ± 0.283	15.4 ± 3.4	1.34	104	0.08

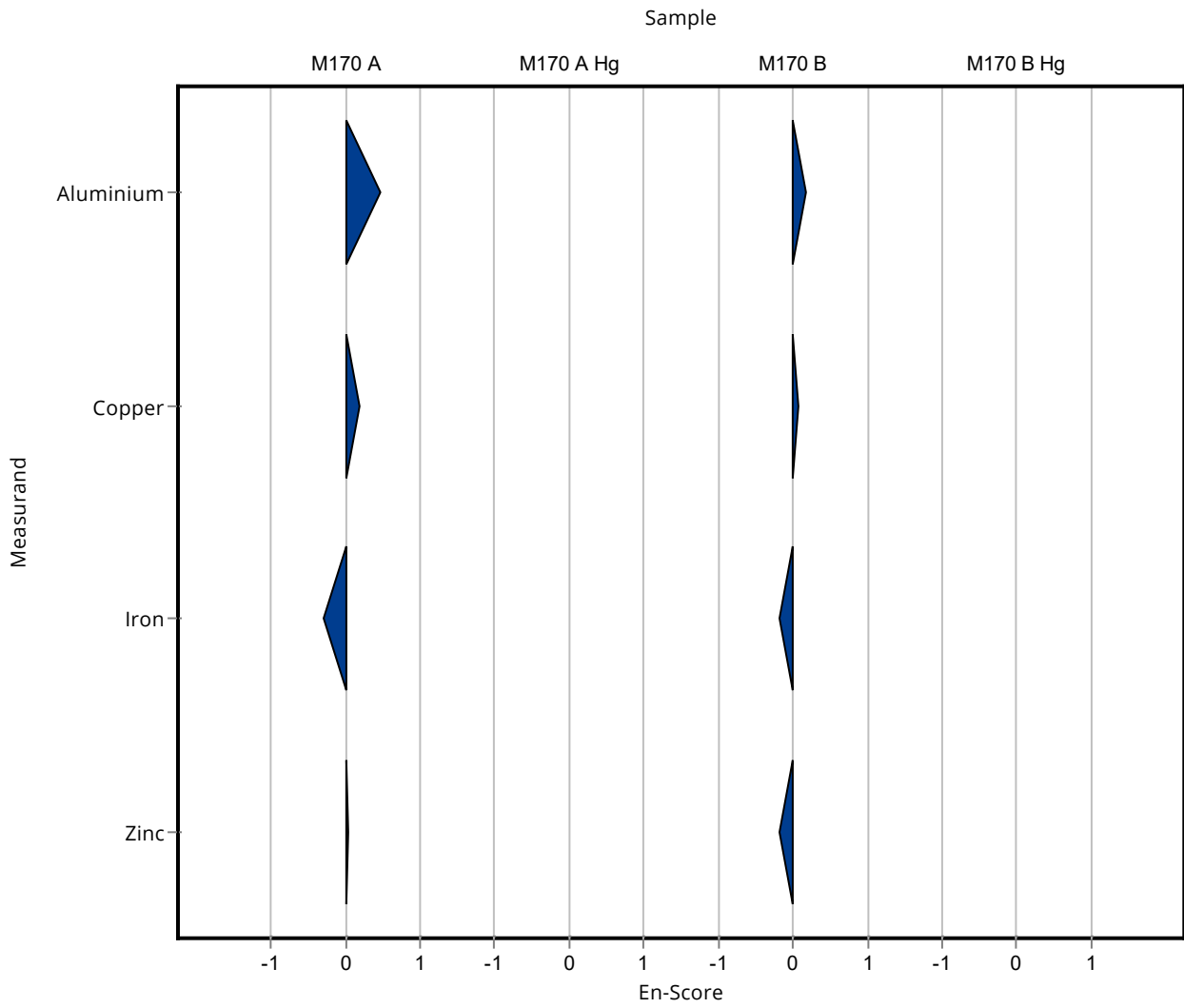
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	94.85 ± 11.4	10.9	95.6	-0.19
Lead	µg/l	3.92 ± 0.0984	- ± -	0.588	-	-
Manganese	µg/l	21.5 ± 0.422	- ± -	1.55	-	-
Nickel	µg/l	16.7 ± 0.345	- ± -	2.01	-	-
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	92.5 ± 20.4	8.94	93.1	-0.17

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	11.805 ± 2.951	1.34	88.3	-1.17
Arsenic	µg/l	1.28 ± 0.0432	1.116 ± 0.223	0.166	87.4	-0.97
Cadmium	µg/l	0.423 ± 0.0105	0.416 ± 0.042	0.0423	98.3	-0.17
Chromium	µg/l	1.97 ± 0.0625	1.889 ± 0.283	0.168	95.8	-0.50
Copper	µg/l	9.74 ± 0.205	8.803 ± 1.761	0.876	90.4	-1.07
Iron	µg/l	27.1 ± 1.21	24.053 ± 4.811	2.98	88.7	-1.02
Lead	µg/l	1.22 ± 0.0465	1.176 ± 0.176	0.183	96.3	-0.25
Manganese	µg/l	17.3 ± 0.596	16.124 ± 2.419	1.24	93.3	-0.94
Nickel	µg/l	2.17 ± 0.0698	1.836 ± 0.367	0.26	84.6	-1.29
Selenium	µg/l	4.24 ± 0.17	3.708 ± 0.556	0.509	87.4	-1.05
Uranium	µg/l	1.18 ± 0.0201	1.119 ± 0.168	0.0777	95	-0.76
Zinc	µg/l	394 ± 13	362.854 ± 54.428	35.4	92.2	-0.87

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.2484 ± 0.0621	0.0351	99.2	-0.06

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	58.934 ± 14.734	6.33	93.1	-0.69
Arsenic	µg/l	5.14 ± 0.0899	4.634 ± 0.927	0.668	90.1	-0.76
Cadmium	µg/l	2.76 ± 0.0512	2.637 ± 0.264	0.276	95.6	-0.44
Chromium	µg/l	1.89 ± 0.0697	1.696 ± 0.254	0.16	89.9	-1.19
Copper	µg/l	14.8 ± 0.283	13.305 ± 2.661	1.34	89.7	-1.15
Iron	µg/l	99.3 ± 2.38	89.818 ± 17.964	10.9	90.5	-0.86
Lead	µg/l	3.92 ± 0.0984	3.679 ± 0.552	0.588	93.8	-0.41
Manganese	µg/l	21.5 ± 0.422	19.944 ± 2.992	1.55	92.9	-0.99
Nickel	µg/l	16.7 ± 0.345	14.972 ± 2.994	2.01	89.6	-0.87
Selenium	µg/l	4.46 ± 0.123	4.005 ± 0.601	0.535	89.8	-0.85
Uranium	µg/l	1.83 ± 0.0526	1.755 ± 0.263	0.121	95.9	-0.62

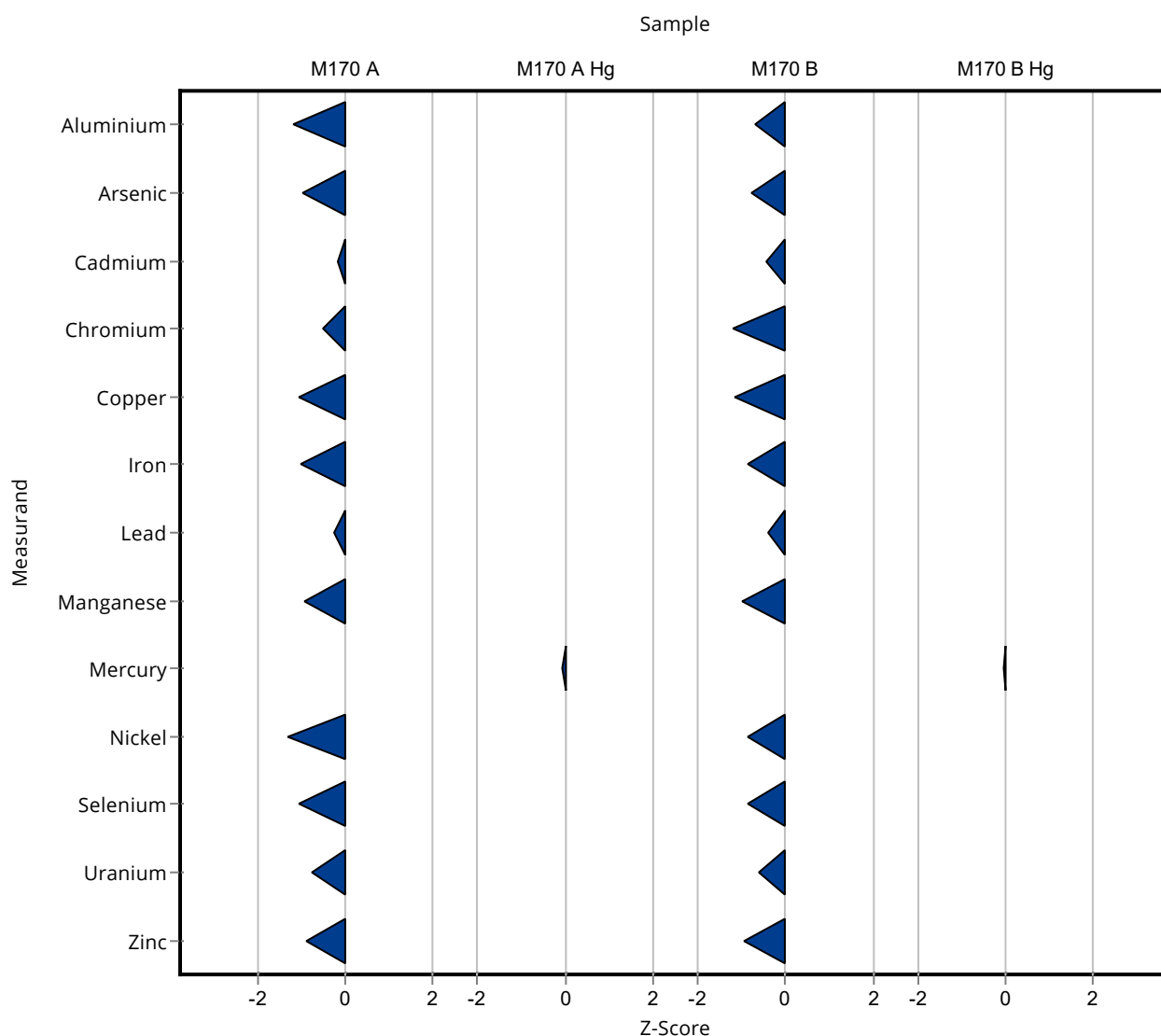
Summary of results Metals and trace elements M170

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	91.126 ± 13.669	8.94	91.7	-0.92

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.789 ± 0.1973	0.111	99.6	-0.03



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	11.805 ± 2.951	1.34	88.3	-0.26
Arsenic	µg/l	1.28 ± 0.0432	1.116 ± 0.223	0.166	87.4	-0.36
Cadmium	µg/l	0.423 ± 0.0105	0.416 ± 0.042	0.0423	98.3	-0.08
Chromium	µg/l	1.97 ± 0.0625	1.889 ± 0.283	0.168	95.8	-0.15
Copper	µg/l	9.74 ± 0.205	8.803 ± 1.761	0.876	90.4	-0.26
Iron	µg/l	27.1 ± 1.21	24.053 ± 4.811	2.98	88.7	-0.31
Lead	µg/l	1.22 ± 0.0465	1.176 ± 0.176	0.183	96.3	-0.13
Manganese	µg/l	17.3 ± 0.596	16.124 ± 2.419	1.24	93.3	-0.24
Nickel	µg/l	2.17 ± 0.0698	1.836 ± 0.367	0.26	84.6	-0.45
Selenium	µg/l	4.24 ± 0.17	3.708 ± 0.556	0.509	87.4	-0.48
Uranium	µg/l	1.18 ± 0.0201	1.119 ± 0.168	0.0777	95	-0.17
Zinc	µg/l	394 ± 13	362.854 ± 54.428	35.4	92.2	-0.28

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.2484 ± 0.0621	0.0351	99.2	-0.02

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	58.934 ± 14.734	6.33	93.1	-0.15
Arsenic	µg/l	5.14 ± 0.0899	4.634 ± 0.927	0.668	90.1	-0.27
Cadmium	µg/l	2.76 ± 0.0512	2.637 ± 0.264	0.276	95.6	-0.23
Chromium	µg/l	1.89 ± 0.0697	1.696 ± 0.254	0.16	89.9	-0.37
Copper	µg/l	14.8 ± 0.283	13.305 ± 2.661	1.34	89.7	-0.29

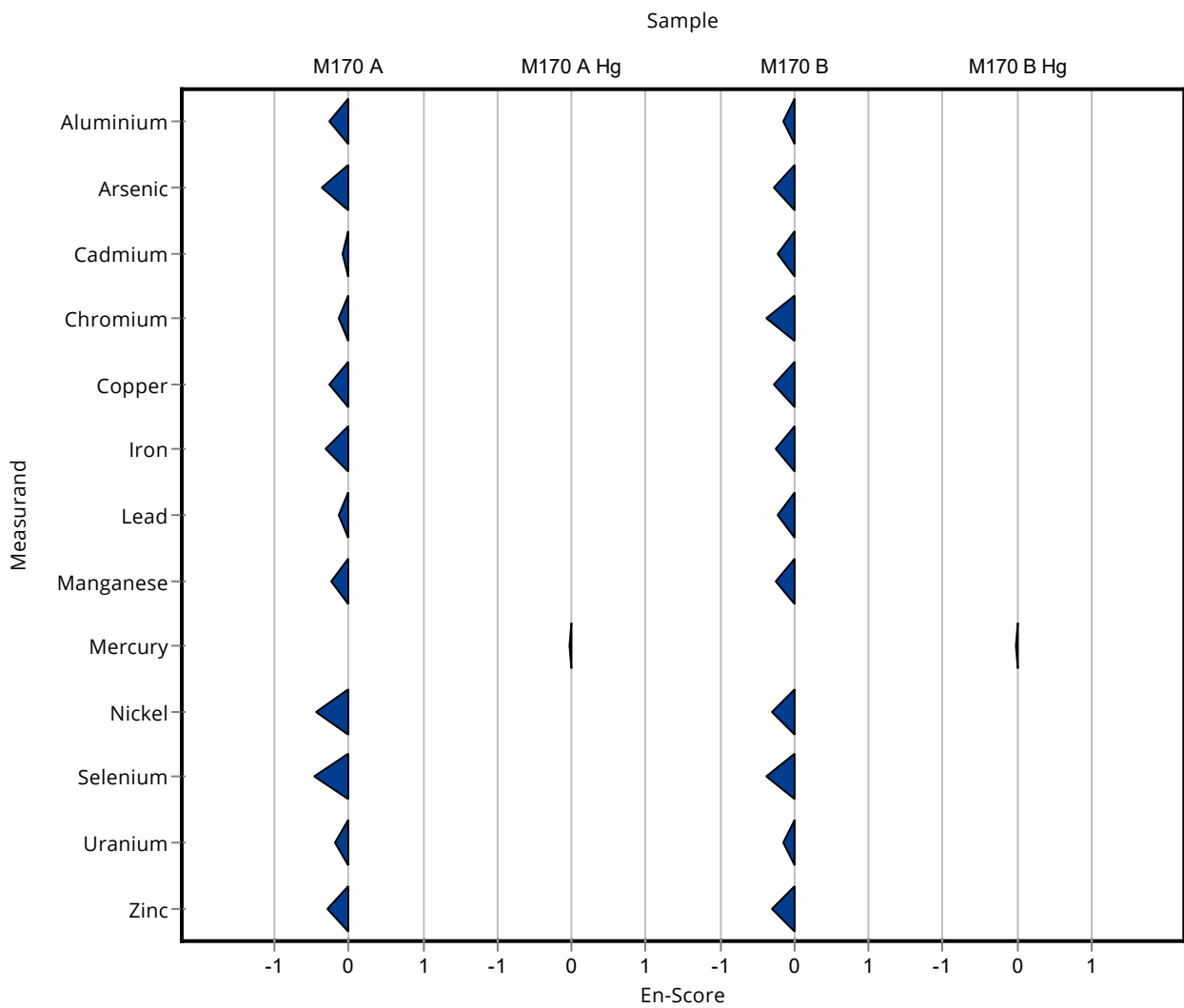
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	89.818 ± 17.964	10.9	90.5	-0.26
Lead	µg/l	3.92 ± 0.0984	3.679 ± 0.552	0.588	93.8	-0.22
Manganese	µg/l	21.5 ± 0.422	19.944 ± 2.992	1.55	92.9	-0.25
Nickel	µg/l	16.7 ± 0.345	14.972 ± 2.994	2.01	89.6	-0.29
Selenium	µg/l	4.46 ± 0.123	4.005 ± 0.601	0.535	89.8	-0.38
Uranium	µg/l	1.83 ± 0.0526	1.755 ± 0.263	0.121	95.9	-0.14
Zinc	µg/l	99.4 ± 2.59	91.126 ± 13.669	8.94	91.7	-0.30

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.789 ± 0.1973	0.111	99.6	-0.01



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	<10 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	1.35 ± 0.0423	0.166	106	0.44
Cadmium	µg/l	0.423 ± 0.0105	0.432 ± 0.00548	0.0423	102	0.21
Chromium	µg/l	1.97 ± 0.0625	2.06 ± 0.151	0.168	104	0.52
Copper	µg/l	9.74 ± 0.205	10.3 ± 0.139	0.876	106	0.64
Iron	µg/l	27.1 ± 1.21	26.6 ± 0.784	2.98	98.1	-0.17
Lead	µg/l	1.22 ± 0.0465	1.38 ± 0.0365	0.183	113	0.87
Manganese	µg/l	17.3 ± 0.596	16.9 ± 0.175	1.24	97.7	-0.31
Nickel	µg/l	2.17 ± 0.0698	2.42 ± 0.0424	0.26	111	0.96
Selenium	µg/l	4.24 ± 0.17	4.22 ± 0.0928	0.509	99.5	-0.05
Uranium	µg/l	1.18 ± 0.0201	1.23 ± 0.0997	0.0777	104	0.67
Zinc	µg/l	394 ± 13	428 ± 1.7	35.4	109	0.97

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.239 ± 0.00465	0.0351	95.4	-0.33

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	61.9 ± 1.67	6.33	97.8	-0.22
Arsenic	µg/l	5.14 ± 0.0899	5.31 ± 0.0365	0.668	103	0.25
Cadmium	µg/l	2.76 ± 0.0512	2.9 ± 0.0273	0.276	105	0.51
Chromium	µg/l	1.89 ± 0.0697	2.1 ± 0.151	0.16	111	1.32
Copper	µg/l	14.8 ± 0.283	15.5 ± 0.226	1.34	104	0.50
Iron	µg/l	99.3 ± 2.38	102 ± 0.881	10.9	103	0.25
Lead	µg/l	3.92 ± 0.0984	4.05 ± 0.0323	0.588	103	0.22
Manganese	µg/l	21.5 ± 0.422	21.6 ± 0.168	1.55	101	0.08
Nickel	µg/l	16.7 ± 0.345	17.8 ± 0.847	2.01	107	0.54
Selenium	µg/l	4.46 ± 0.123	4.61 ± 0.0921	0.535	103	0.28
Uranium	µg/l	1.83 ± 0.0526	1.86 ± 0.0959	0.121	102	0.25

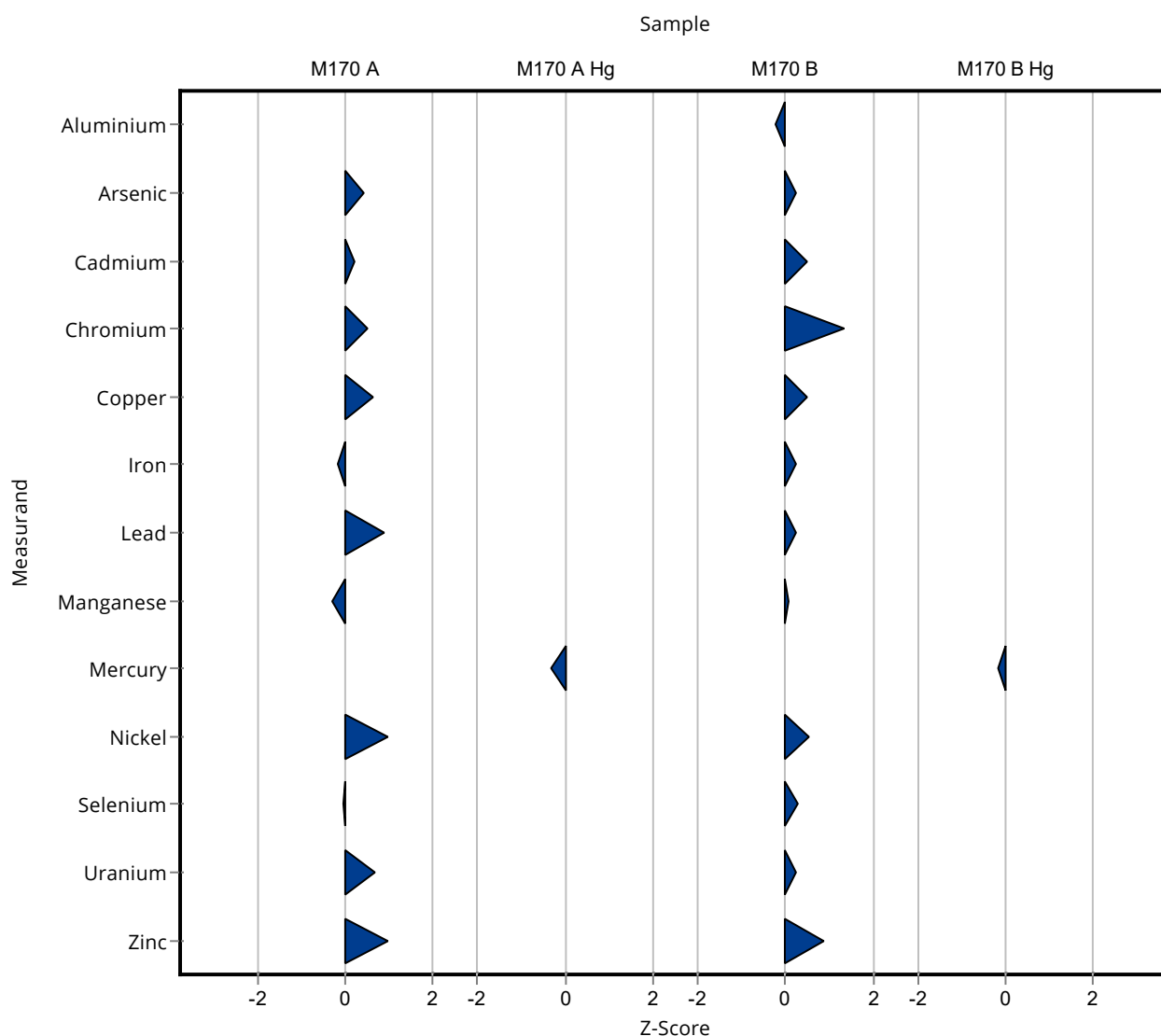
Summary of results Metals and trace elements M170

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	107 ± 1.67	8.94	108	0.85

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.774 ± 0.0241	0.111	97.7	-0.16



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	<10 (LOQ) ± -	1.34	-	-
Arsenic	µg/l	1.28 ± 0.0432	1.35 ± 0.0423	0.166	106	0.77
Cadmium	µg/l	0.423 ± 0.0105	0.432 ± 0.00548	0.0423	102	0.59
Chromium	µg/l	1.97 ± 0.0625	2.06 ± 0.151	0.168	104	0.28
Copper	µg/l	9.74 ± 0.205	10.3 ± 0.139	0.876	106	1.63
Iron	µg/l	27.1 ± 1.21	26.6 ± 0.784	2.98	98.1	-0.25
Lead	µg/l	1.22 ± 0.0465	1.38 ± 0.0365	0.183	113	1.84
Manganese	µg/l	17.3 ± 0.596	16.9 ± 0.175	1.24	97.7	-0.57
Nickel	µg/l	2.17 ± 0.0698	2.42 ± 0.0424	0.26	111	2.27
Selenium	µg/l	4.24 ± 0.17	4.22 ± 0.0928	0.509	99.5	-0.09
Uranium	µg/l	1.18 ± 0.0201	1.23 ± 0.0997	0.0777	104	0.26
Zinc	µg/l	394 ± 13	428 ± 1.7	35.4	109	2.56

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.239 ± 0.00465	0.0351	95.4	-0.84

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	61.9 ± 1.67	6.33	97.8	-0.40
Arsenic	µg/l	5.14 ± 0.0899	5.31 ± 0.0365	0.668	103	1.45
Cadmium	µg/l	2.76 ± 0.0512	2.9 ± 0.0273	0.276	105	1.88
Chromium	µg/l	1.89 ± 0.0697	2.1 ± 0.151	0.16	111	0.69
Copper	µg/l	14.8 ± 0.283	15.5 ± 0.226	1.34	104	1.25

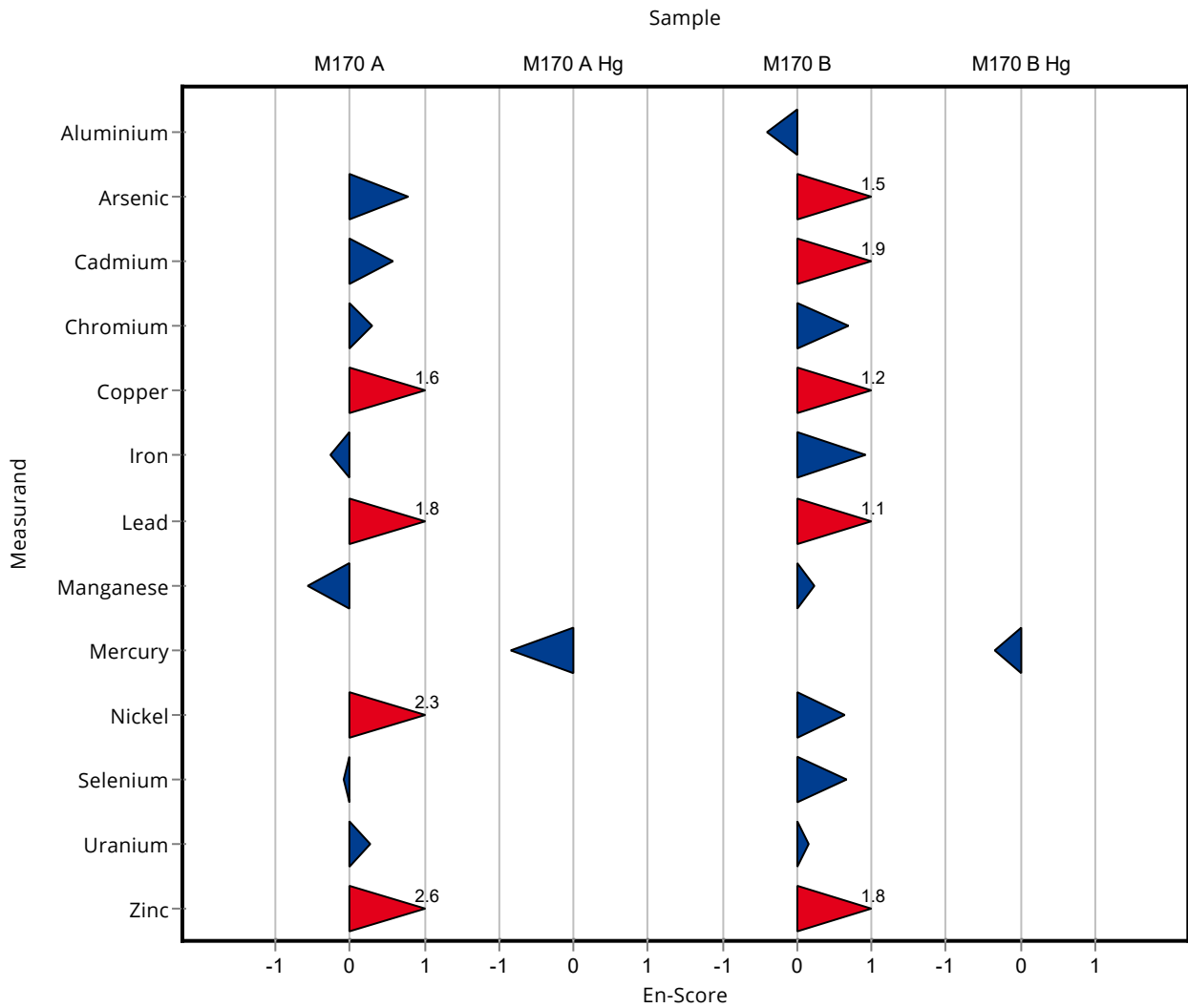
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	102 ± 0.881	10.9	103	0.93
Lead	µg/l	3.92 ± 0.0984	4.05 ± 0.0323	0.588	103	1.09
Manganese	µg/l	21.5 ± 0.422	21.6 ± 0.168	1.55	101	0.24
Nickel	µg/l	16.7 ± 0.345	17.8 ± 0.847	2.01	107	0.63
Selenium	µg/l	4.46 ± 0.123	4.61 ± 0.0921	0.535	103	0.67
Uranium	µg/l	1.83 ± 0.0526	1.86 ± 0.0959	0.121	102	0.15
Zinc	µg/l	99.4 ± 2.59	107 ± 1.67	8.94	108	1.80

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.774 ± 0.0241	0.111	97.7	-0.34



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	80.9 ± 12.1	1.34	605	50.52
Arsenic	µg/l	1.28 ± 0.0432	0.363 ± 0.05	0.166	28.4	-5.51
Cadmium	µg/l	0.423 ± 0.0105	0.896 ± 0.14	0.0423	212	11.18
Chromium	µg/l	1.97 ± 0.0625	3.61 ± 0.54	0.168	183	9.77
Copper	µg/l	9.74 ± 0.205	9.78 ± 1.47	0.876	100	0.05
Iron	µg/l	27.1 ± 1.21	26.4 ± 3.96	2.98	97.4	-0.24
Lead	µg/l	1.22 ± 0.0465	1.63 ± 0.25	0.183	134	2.23
Manganese	µg/l	17.3 ± 0.596	21 ± 3.15	1.24	121	2.98
Nickel	µg/l	2.17 ± 0.0698	7.46 ± 1.12	0.26	344	20.30
Selenium	µg/l	4.24 ± 0.17	4.71 ± 0.71	0.509	111	0.92
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	261 ± 39.2	35.4	66.3	-3.74

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	145 ± 21.8	6.33	229	12.91
Arsenic	µg/l	5.14 ± 0.0899	5.29 ± 0.79	0.668	103	0.22
Cadmium	µg/l	2.76 ± 0.0512	3.99 ± 0.6	0.276	145	4.46
Chromium	µg/l	1.89 ± 0.0697	1.71 ± 0.26	0.16	90.6	-1.11
Copper	µg/l	14.8 ± 0.283	15.3 ± 2.3	1.34	103	0.35
Iron	µg/l	99.3 ± 2.38	90.3 ± 13.55	10.9	91	-0.82
Lead	µg/l	3.92 ± 0.0984	4.56 ± 0.68	0.588	116	1.09
Manganese	µg/l	21.5 ± 0.422	22.2 ± 3.33	1.55	103	0.47
Nickel	µg/l	16.7 ± 0.345	15.9 ± 2.39	2.01	95.1	-0.41
Selenium	µg/l	4.46 ± 0.123	2.9 ± 0.44	0.535	65	-2.92
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

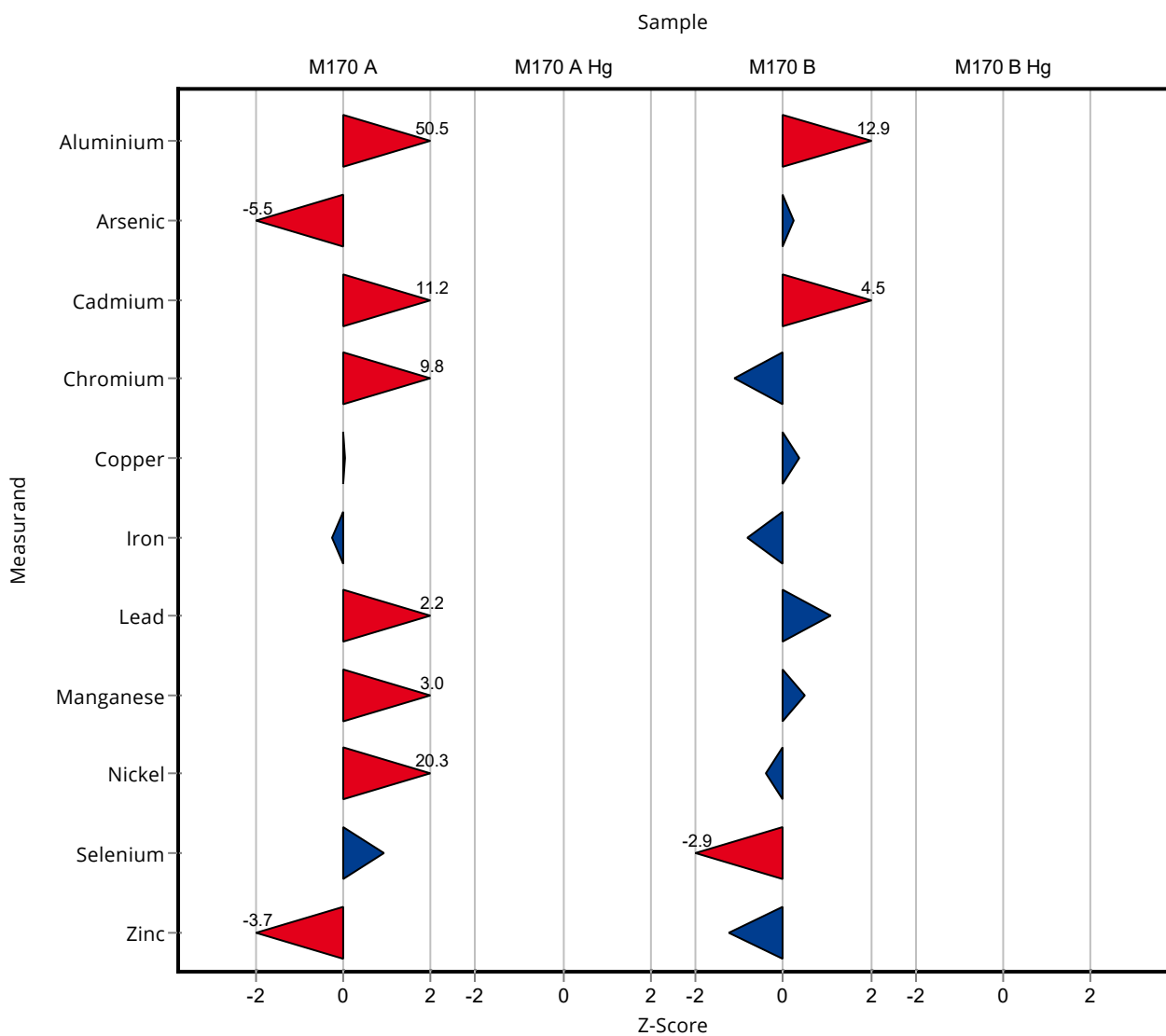
Summary of results Metals and trace elements M170

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	88.3 ± 13.25	8.94	88.9	-1.24

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	80.9 ± 12.1	1.34	605	2.79
Arsenic	µg/l	1.28 ± 0.0432	0.363 ± 0.05	0.166	28.4	-8.39
Cadmium	µg/l	0.423 ± 0.0105	0.896 ± 0.14	0.0423	212	1.69
Chromium	µg/l	1.97 ± 0.0625	3.61 ± 0.54	0.168	183	1.51
Copper	µg/l	9.74 ± 0.205	9.78 ± 1.47	0.876	100	0.01
Iron	µg/l	27.1 ± 1.21	26.4 ± 3.96	2.98	97.4	-0.09
Lead	µg/l	1.22 ± 0.0465	1.63 ± 0.25	0.183	134	0.81
Manganese	µg/l	17.3 ± 0.596	21 ± 3.15	1.24	121	0.59
Nickel	µg/l	2.17 ± 0.0698	7.46 ± 1.12	0.26	344	2.36
Selenium	µg/l	4.24 ± 0.17	4.71 ± 0.71	0.509	111	0.33
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	261 ± 39.2	35.4	66.3	-1.67

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	- ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	145 ± 21.8	6.33	229	1.87
Arsenic	µg/l	5.14 ± 0.0899	5.29 ± 0.79	0.668	103	0.09
Cadmium	µg/l	2.76 ± 0.0512	3.99 ± 0.6	0.276	145	1.02
Chromium	µg/l	1.89 ± 0.0697	1.71 ± 0.26	0.16	90.6	-0.34
Copper	µg/l	14.8 ± 0.283	15.3 ± 2.3	1.34	103	0.10

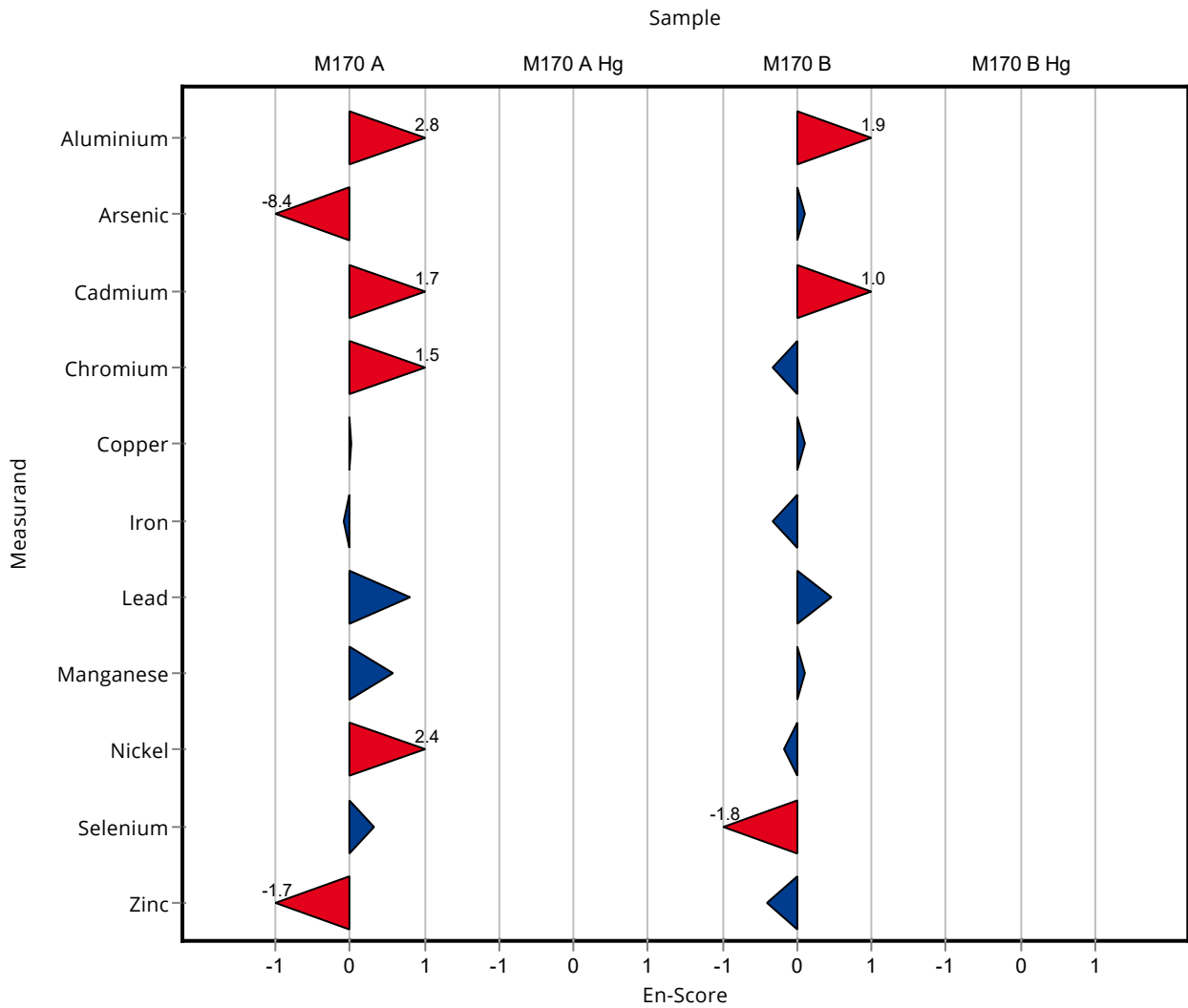
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	90.3 ± 13.55	10.9	91	-0.33
Lead	µg/l	3.92 ± 0.0984	4.56 ± 0.68	0.588	116	0.47
Manganese	µg/l	21.5 ± 0.422	22.2 ± 3.33	1.55	103	0.11
Nickel	µg/l	16.7 ± 0.345	15.9 ± 2.39	2.01	95.1	-0.17
Selenium	µg/l	4.46 ± 0.123	2.9 ± 0.44	0.535	65	-1.76
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	88.3 ± 13.25	8.94	88.9	-0.42

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	- ± -	0.111	-	-



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.5 ± 4	1.34	101	0.10
Arsenic	µg/l	1.28 ± 0.0432	1.21 ± 0.18	0.166	94.8	-0.40
Cadmium	µg/l	0.423 ± 0.0105	0.447 ± 0.054	0.0423	106	0.57
Chromium	µg/l	1.97 ± 0.0625	1.84 ± 0.28	0.168	93.3	-0.79
Copper	µg/l	9.74 ± 0.205	10 ± 1.2	0.876	103	0.30
Iron	µg/l	27.1 ± 1.21	26.3 ± 3.9	2.98	97	-0.27
Lead	µg/l	1.22 ± 0.0465	1.32 ± 0.16	0.183	108	0.54
Manganese	µg/l	17.3 ± 0.596	17.1 ± 2.1	1.24	98.9	-0.15
Nickel	µg/l	2.17 ± 0.0698	2.35 ± 0.26	0.26	108	0.69
Selenium	µg/l	4.24 ± 0.17	4.02 ± 0.6	0.509	94.7	-0.44
Uranium	µg/l	1.18 ± 0.0201	1.19 ± 0.18	0.0777	101	0.16
Zinc	µg/l	394 ± 13	377 ± 57	35.4	95.8	-0.47

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.275 ± 0.061	0.0351	110	0.70

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	63.9 ± 13	6.33	101	0.10
Arsenic	µg/l	5.14 ± 0.0899	5.03 ± 0.75	0.668	97.8	-0.17
Cadmium	µg/l	2.76 ± 0.0512	2.81 ± 0.34	0.276	102	0.18
Chromium	µg/l	1.89 ± 0.0697	1.79 ± 0.27	0.16	94.8	-0.61
Copper	µg/l	14.8 ± 0.283	15 ± 1.8	1.34	101	0.12
Iron	µg/l	99.3 ± 2.38	98.8 ± 15	10.9	99.5	-0.04
Lead	µg/l	3.92 ± 0.0984	4.03 ± 0.48	0.588	103	0.18
Manganese	µg/l	21.5 ± 0.422	21 ± 2.5	1.55	97.8	-0.30
Nickel	µg/l	16.7 ± 0.345	16.8 ± 1.8	2.01	101	0.04
Selenium	µg/l	4.46 ± 0.123	4.17 ± 0.63	0.535	93.4	-0.55
Uranium	µg/l	1.83 ± 0.0526	1.84 ± 0.28	0.121	101	0.08

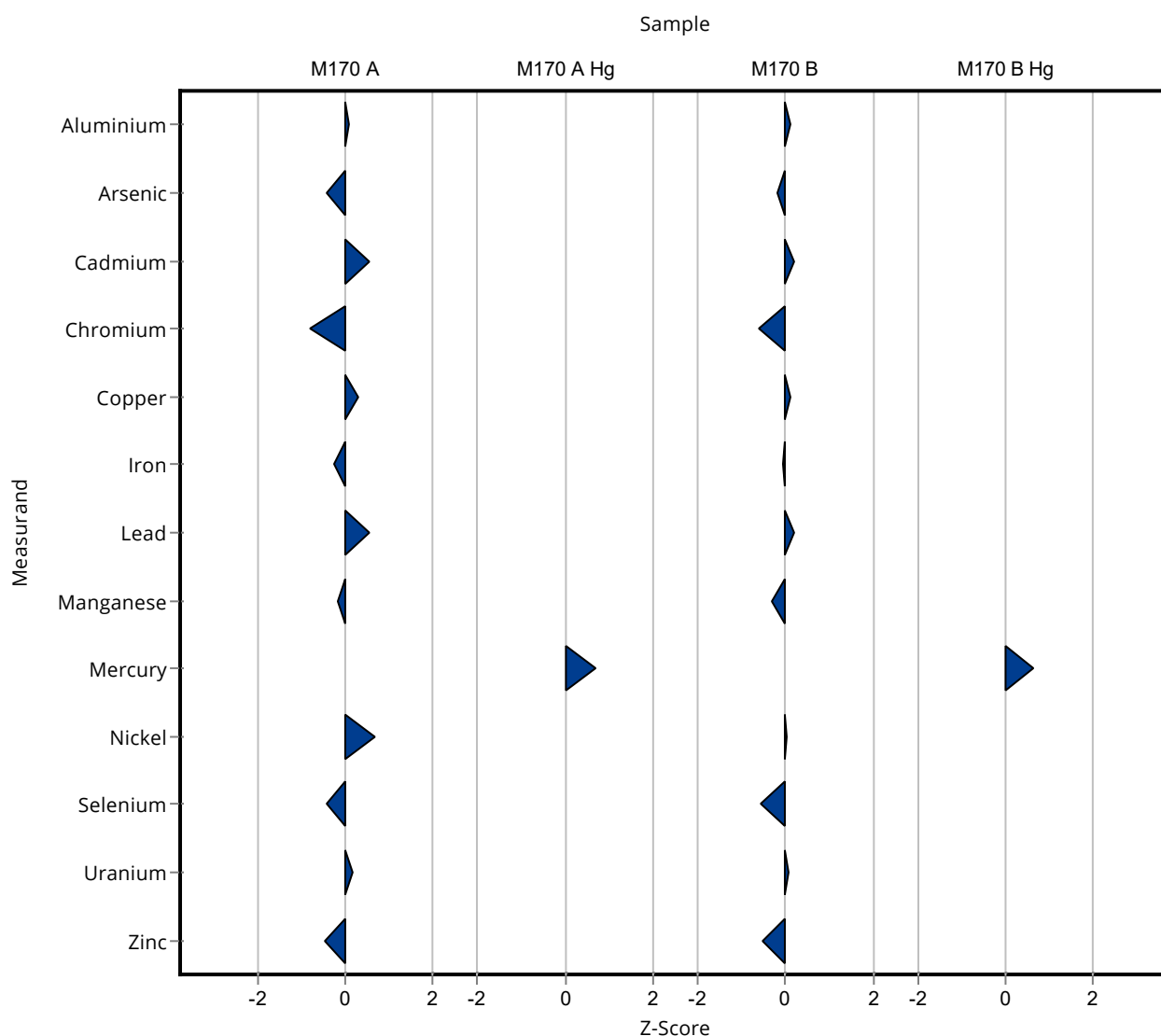
Summary of results Metals and trace elements M170

Labcode: LC0022

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	94.8 ± 14	8.94	95.4	-0.51

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.864 ± 0.19	0.111	109	0.65



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.5 ± 4	1.34	101	0.02
Arsenic	µg/l	1.28 ± 0.0432	1.21 ± 0.18	0.166	94.8	-0.18
Cadmium	µg/l	0.423 ± 0.0105	0.447 ± 0.054	0.0423	106	0.22
Chromium	µg/l	1.97 ± 0.0625	1.84 ± 0.28	0.168	93.3	-0.23
Copper	µg/l	9.74 ± 0.205	10 ± 1.2	0.876	103	0.11
Iron	µg/l	27.1 ± 1.21	26.3 ± 3.9	2.98	97	-0.10
Lead	µg/l	1.22 ± 0.0465	1.32 ± 0.16	0.183	108	0.31
Manganese	µg/l	17.3 ± 0.596	17.1 ± 2.1	1.24	98.9	-0.05
Nickel	µg/l	2.17 ± 0.0698	2.35 ± 0.26	0.26	108	0.34
Selenium	µg/l	4.24 ± 0.17	4.02 ± 0.6	0.509	94.7	-0.18
Uranium	µg/l	1.18 ± 0.0201	1.19 ± 0.18	0.0777	101	0.03
Zinc	µg/l	394 ± 13	377 ± 57	35.4	95.8	-0.15

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.275 ± 0.061	0.0351	110	0.20

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	63.9 ± 13	6.33	101	0.02
Arsenic	µg/l	5.14 ± 0.0899	5.03 ± 0.75	0.668	97.8	-0.07
Cadmium	µg/l	2.76 ± 0.0512	2.81 ± 0.34	0.276	102	0.07
Chromium	µg/l	1.89 ± 0.0697	1.79 ± 0.27	0.16	94.8	-0.18
Copper	µg/l	14.8 ± 0.283	15 ± 1.8	1.34	101	0.05

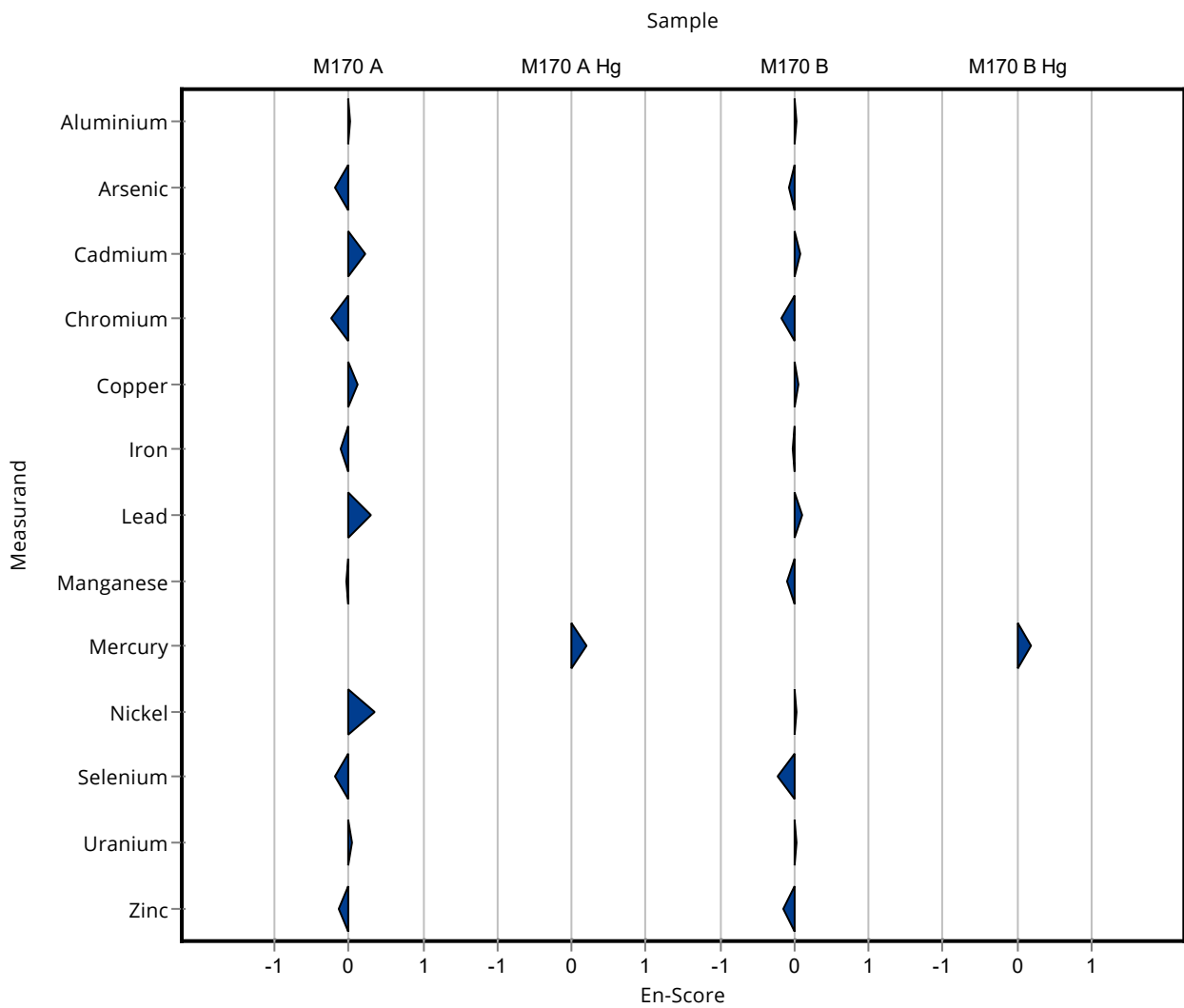
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0022

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	98.8 ± 15	10.9	99.5	-0.02
Lead	µg/l	3.92 ± 0.0984	4.03 ± 0.48	0.588	103	0.11
Manganese	µg/l	21.5 ± 0.422	21 ± 2.5	1.55	97.8	-0.09
Nickel	µg/l	16.7 ± 0.345	16.8 ± 1.8	2.01	101	0.02
Selenium	µg/l	4.46 ± 0.123	4.17 ± 0.63	0.535	93.4	-0.23
Uranium	µg/l	1.83 ± 0.0526	1.84 ± 0.28	0.121	101	0.02
Zinc	µg/l	99.4 ± 2.59	94.8 ± 14	8.94	95.4	-0.16

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.864 ± 0.19	0.111	109	0.19



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	14.7 ± 2.21	1.34	110	1.00
Arsenic	µg/l	1.28 ± 0.0432	1.24 ± 0.19	0.166	97.1	-0.22
Cadmium	µg/l	0.423 ± 0.0105	0.382 ± 0.057	0.0423	90.3	-0.97
Chromium	µg/l	1.97 ± 0.0625	2 ± 0.3	0.168	101	0.17
Copper	µg/l	9.74 ± 0.205	9.61 ± 1.44	0.876	98.7	-0.15
Iron	µg/l	27.1 ± 1.21	29.6 ± 4.44	2.98	109	0.84
Lead	µg/l	1.22 ± 0.0465	1.13 ± 0.17	0.183	92.6	-0.50
Manganese	µg/l	17.3 ± 0.596	18 ± 2.69	1.24	104	0.57
Nickel	µg/l	2.17 ± 0.0698	2.13 ± 0.32	0.26	98.1	-0.16
Selenium	µg/l	4.24 ± 0.17	4.05 ± 0.61	0.509	95.5	-0.38
Uranium	µg/l	1.18 ± 0.0201	1.22 ± 0.18	0.0777	104	0.54
Zinc	µg/l	394 ± 13	329 ± 49.4	35.4	83.6	-1.82

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.246 ± 0.037	0.0351	98.2	-0.13

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	64.1 ± 9.61	6.33	101	0.13
Arsenic	µg/l	5.14 ± 0.0899	4.98 ± 0.75	0.668	96.9	-0.24
Cadmium	µg/l	2.76 ± 0.0512	2.58 ± 0.39	0.276	93.5	-0.65
Chromium	µg/l	1.89 ± 0.0697	1.93 ± 0.29	0.16	102	0.26
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.17	1.34	97.7	-0.25
Iron	µg/l	99.3 ± 2.38	105 ± 15.7	10.9	106	0.53
Lead	µg/l	3.92 ± 0.0984	3.74 ± 0.56	0.588	95.4	-0.31
Manganese	µg/l	21.5 ± 0.422	22.6 ± 3.39	1.55	105	0.73
Nickel	µg/l	16.7 ± 0.345	16.2 ± 2.42	2.01	96.9	-0.26
Selenium	µg/l	4.46 ± 0.123	4.31 ± 0.65	0.535	96.6	-0.28
Uranium	µg/l	1.83 ± 0.0526	1.89 ± 0.28	0.121	103	0.50

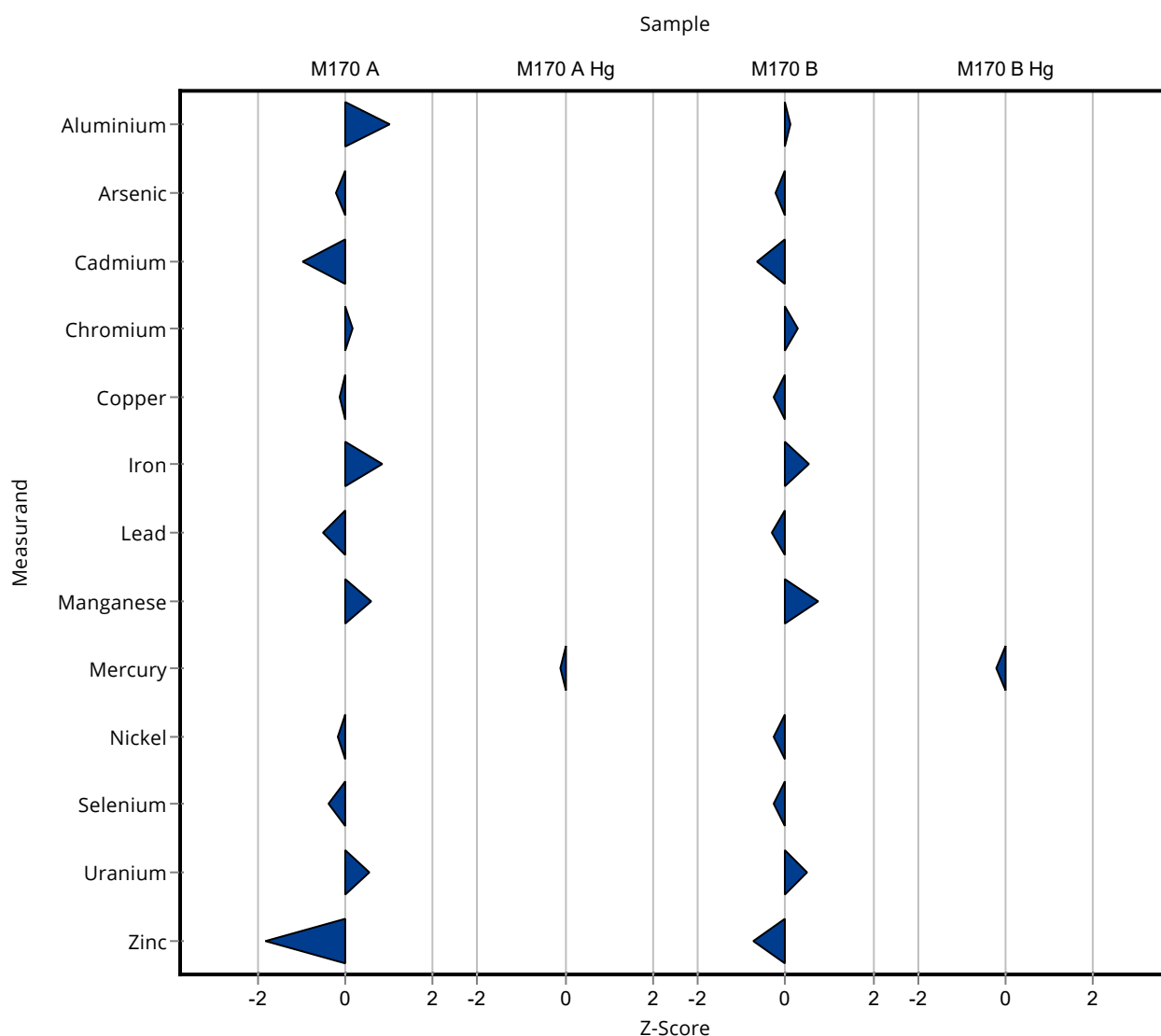
Summary of results Metals and trace elements M170

Labcode: LC0023

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	92.9 ± 13.9	8.94	93.5	-0.72

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.77 ± 0.12	0.111	97.2	-0.20



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	14.7 ± 2.21	1.34	110	0.30
Arsenic	µg/l	1.28 ± 0.0432	1.24 ± 0.19	0.166	97.1	-0.10
Cadmium	µg/l	0.423 ± 0.0105	0.382 ± 0.057	0.0423	90.3	-0.36
Chromium	µg/l	1.97 ± 0.0625	2 ± 0.3	0.168	101	0.05
Copper	µg/l	9.74 ± 0.205	9.61 ± 1.44	0.876	98.7	-0.04
Iron	µg/l	27.1 ± 1.21	29.6 ± 4.44	2.98	109	0.28
Lead	µg/l	1.22 ± 0.0465	1.13 ± 0.17	0.183	92.6	-0.26
Manganese	µg/l	17.3 ± 0.596	18 ± 2.69	1.24	104	0.13
Nickel	µg/l	2.17 ± 0.0698	2.13 ± 0.32	0.26	98.1	-0.06
Selenium	µg/l	4.24 ± 0.17	4.05 ± 0.61	0.509	95.5	-0.16
Uranium	µg/l	1.18 ± 0.0201	1.22 ± 0.18	0.0777	104	0.12
Zinc	µg/l	394 ± 13	329 ± 49.4	35.4	83.6	-0.65

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.246 ± 0.037	0.0351	98.2	-0.06

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	64.1 ± 9.61	6.33	101	0.04
Arsenic	µg/l	5.14 ± 0.0899	4.98 ± 0.75	0.668	96.9	-0.11
Cadmium	µg/l	2.76 ± 0.0512	2.58 ± 0.39	0.276	93.5	-0.23
Chromium	µg/l	1.89 ± 0.0697	1.93 ± 0.29	0.16	102	0.07
Copper	µg/l	14.8 ± 0.283	14.5 ± 2.17	1.34	97.7	-0.08

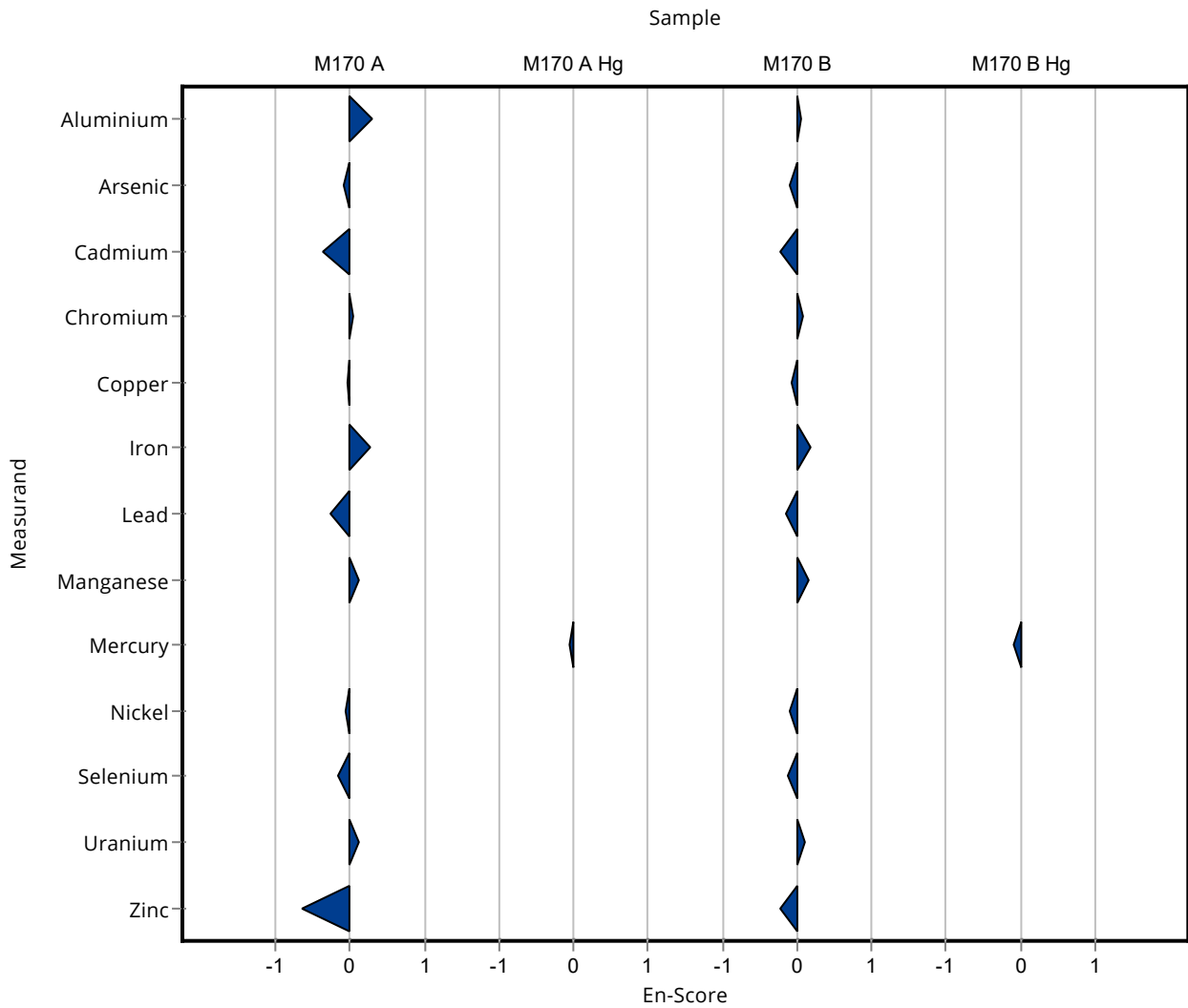
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0023

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	105 ± 15.7	10.9	106	0.18
Lead	µg/l	3.92 ± 0.0984	3.74 ± 0.56	0.588	95.4	-0.16
Manganese	µg/l	21.5 ± 0.422	22.6 ± 3.39	1.55	105	0.17
Nickel	µg/l	16.7 ± 0.345	16.2 ± 2.42	2.01	96.9	-0.11
Selenium	µg/l	4.46 ± 0.123	4.31 ± 0.65	0.535	96.6	-0.12
Uranium	µg/l	1.83 ± 0.0526	1.89 ± 0.28	0.121	103	0.11
Zinc	µg/l	99.4 ± 2.59	92.9 ± 13.9	8.94	93.5	-0.23

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.77 ± 0.12	0.111	97.2	-0.09



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.3 ± 0.67	1.34	99.5	-0.05
Arsenic	µg/l	1.28 ± 0.0432	1.23 ± 0.074	0.166	96.3	-0.28
Cadmium	µg/l	0.423 ± 0.0105	0.41 ± 0.016	0.0423	96.9	-0.31
Chromium	µg/l	1.97 ± 0.0625	1.85 ± 0.17	0.168	93.8	-0.73
Copper	µg/l	9.74 ± 0.205	9.17 ± 0.55	0.876	94.2	-0.65
Iron	µg/l	27.1 ± 1.21	32.7 ± 1.6	2.98	121	1.88
Lead	µg/l	1.22 ± 0.0465	1.12 ± 0.1	0.183	91.7	-0.55
Manganese	µg/l	17.3 ± 0.596	16.7 ± 1	1.24	96.6	-0.47
Nickel	µg/l	2.17 ± 0.0698	2.02 ± 0.1	0.26	93.1	-0.58
Selenium	µg/l	4.24 ± 0.17	3.9 ± 0.43	0.509	91.9	-0.67
Uranium	µg/l	1.18 ± 0.0201	1.09 ± 0.055	0.0777	92.5	-1.13
Zinc	µg/l	394 ± 13	350 ± 18	35.4	88.9	-1.23

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.231 ± 0.028	0.0351	92.2	-0.55

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	62.4 ± 3.12	6.33	98.6	-0.14
Arsenic	µg/l	5.14 ± 0.0899	5.1 ± 0.31	0.668	99.2	-0.06
Cadmium	µg/l	2.76 ± 0.0512	2.64 ± 0.11	0.276	95.7	-0.43
Chromium	µg/l	1.89 ± 0.0697	1.8 ± 0.16	0.16	95.4	-0.55
Copper	µg/l	14.8 ± 0.283	14.4 ± 0.86	1.34	97.1	-0.33
Iron	µg/l	99.3 ± 2.38	99.4 ± 5	10.9	100	0.01
Lead	µg/l	3.92 ± 0.0984	3.7 ± 0.33	0.588	94.4	-0.38
Manganese	µg/l	21.5 ± 0.422	21 ± 1.3	1.55	97.8	-0.30
Nickel	µg/l	16.7 ± 0.345	16.2 ± 0.81	2.01	96.9	-0.26
Selenium	µg/l	4.46 ± 0.123	4.45 ± 0.49	0.535	99.7	-0.02
Uranium	µg/l	1.83 ± 0.0526	1.75 ± 0.088	0.121	95.6	-0.66

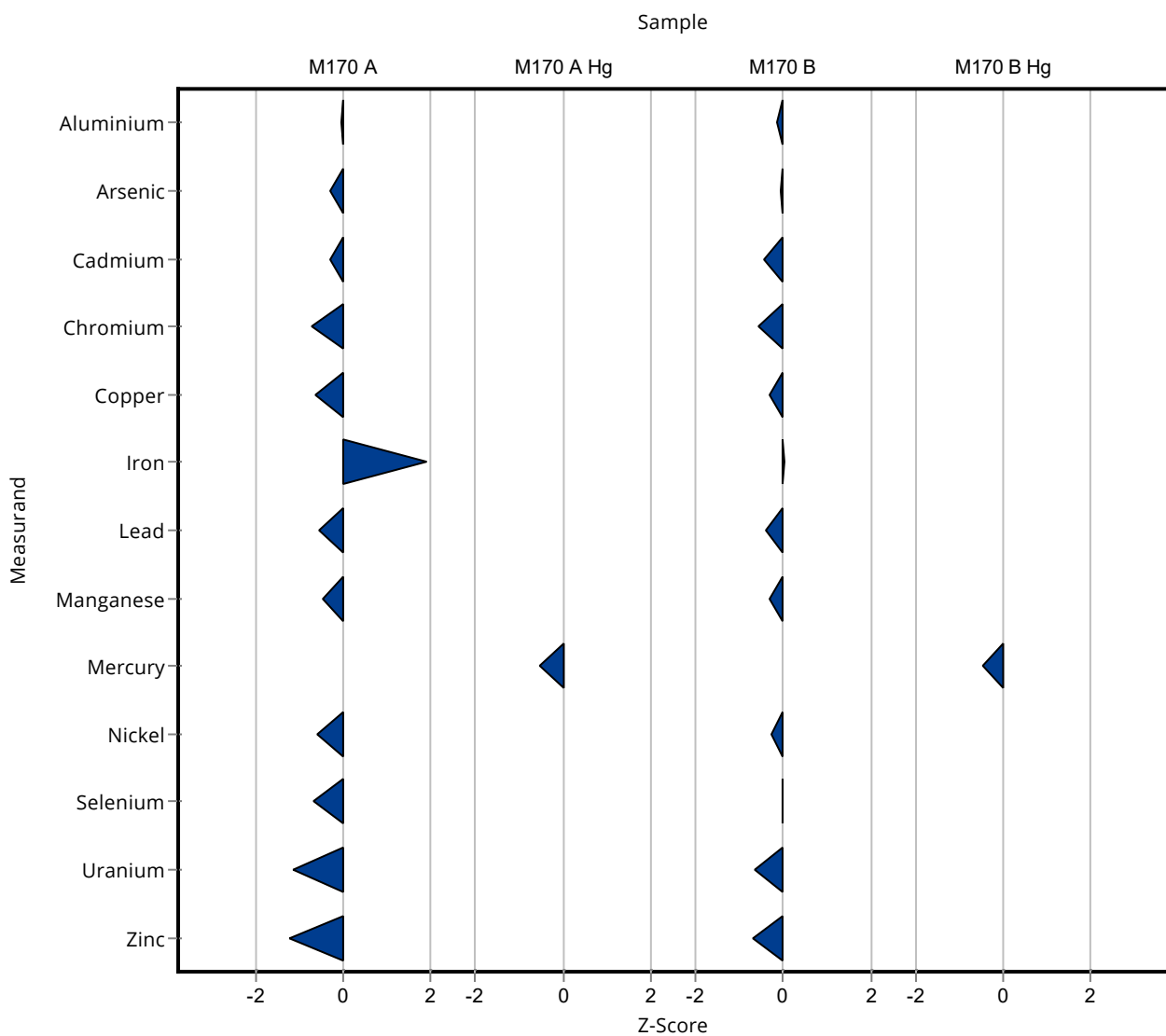
Summary of results Metals and trace elements M170

Labcode: LC0024

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	93.2 ± 4.7	8.94	93.8	-0.69

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.739 ± 0.089	0.111	93.3	-0.48



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.3 ± 0.67	1.34	99.5	-0.05
Arsenic	µg/l	1.28 ± 0.0432	1.23 ± 0.074	0.166	96.3	-0.30
Cadmium	µg/l	0.423 ± 0.0105	0.41 ± 0.016	0.0423	96.9	-0.39
Chromium	µg/l	1.97 ± 0.0625	1.85 ± 0.17	0.168	93.8	-0.35
Copper	µg/l	9.74 ± 0.205	9.17 ± 0.55	0.876	94.2	-0.51
Iron	µg/l	27.1 ± 1.21	32.7 ± 1.6	2.98	121	1.63
Lead	µg/l	1.22 ± 0.0465	1.12 ± 0.1	0.183	91.7	-0.49
Manganese	µg/l	17.3 ± 0.596	16.7 ± 1	1.24	96.6	-0.28
Nickel	µg/l	2.17 ± 0.0698	2.02 ± 0.1	0.26	93.1	-0.71
Selenium	µg/l	4.24 ± 0.17	3.9 ± 0.43	0.509	91.9	-0.39
Uranium	µg/l	1.18 ± 0.0201	1.09 ± 0.055	0.0777	92.5	-0.79
Zinc	µg/l	394 ± 13	350 ± 18	35.4	88.9	-1.14

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.231 ± 0.028	0.0351	92.2	-0.34

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	62.4 ± 3.12	6.33	98.6	-0.14
Arsenic	µg/l	5.14 ± 0.0899	5.1 ± 0.31	0.668	99.2	-0.07
Cadmium	µg/l	2.76 ± 0.0512	2.64 ± 0.11	0.276	95.7	-0.53
Chromium	µg/l	1.89 ± 0.0697	1.8 ± 0.16	0.16	95.4	-0.27
Copper	µg/l	14.8 ± 0.283	14.4 ± 0.86	1.34	97.1	-0.25

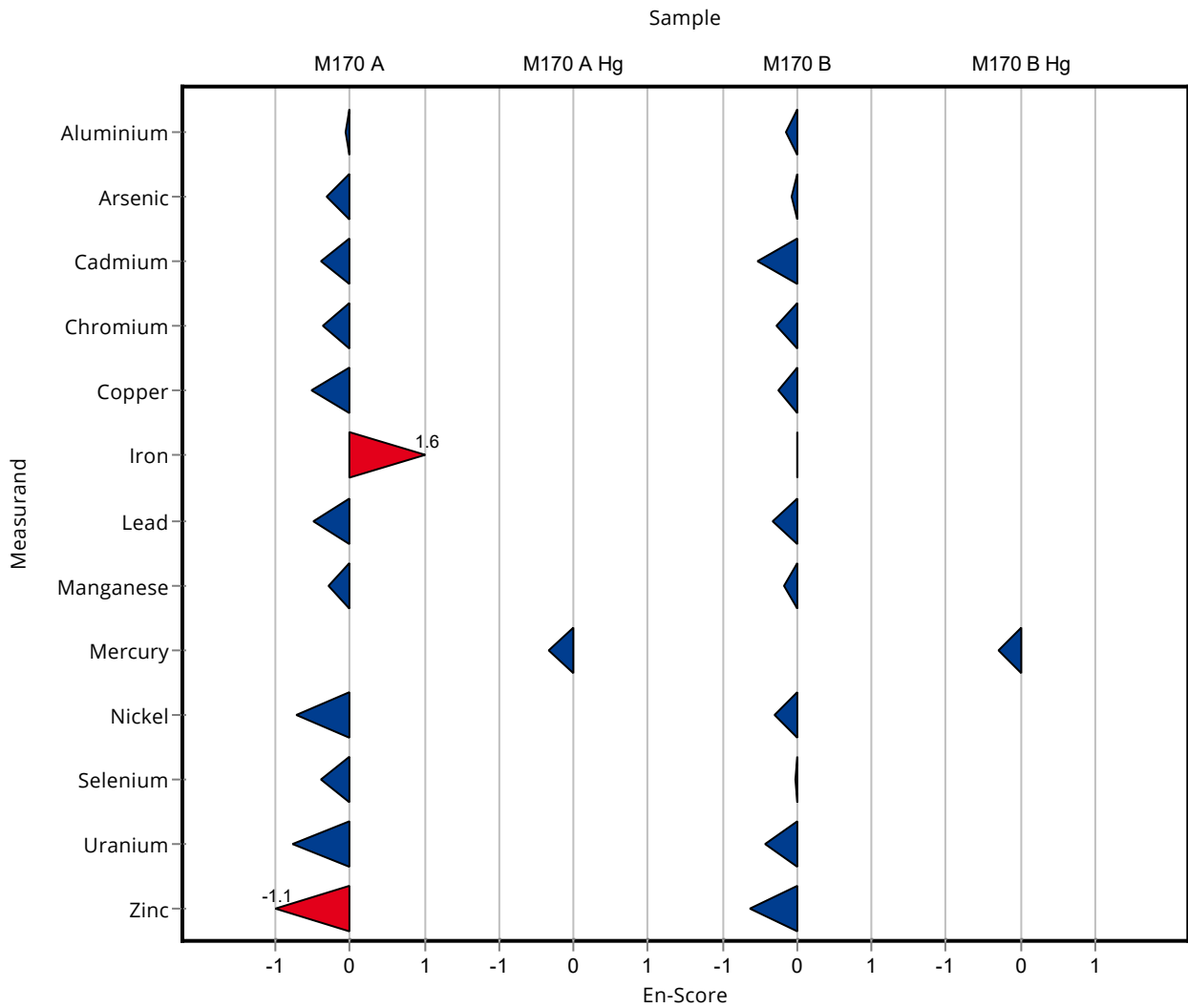
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0024

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	99.4 ± 5	10.9	100	0.01
Lead	µg/l	3.92 ± 0.0984	3.7 ± 0.33	0.588	94.4	-0.33
Manganese	µg/l	21.5 ± 0.422	21 ± 1.3	1.55	97.8	-0.18
Nickel	µg/l	16.7 ± 0.345	16.2 ± 0.81	2.01	96.9	-0.31
Selenium	µg/l	4.46 ± 0.123	4.45 ± 0.49	0.535	99.7	-0.01
Uranium	µg/l	1.83 ± 0.0526	1.75 ± 0.088	0.121	95.6	-0.44
Zinc	µg/l	99.4 ± 2.59	93.2 ± 4.7	8.94	93.8	-0.63

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.739 ± 0.089	0.111	93.3	-0.30



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13.1 ± 3.3	1.34	98	-0.20
Arsenic	µg/l	1.28 ± 0.0432	1.27 ± 0.38	0.166	99.5	-0.04
Cadmium	µg/l	0.423 ± 0.0105	0.46 ± 0.12	0.0423	109	0.87
Chromium	µg/l	1.97 ± 0.0625	2.05 ± 0.62	0.168	104	0.46
Copper	µg/l	9.74 ± 0.205	10.6 ± 2.7	0.876	109	0.98
Iron	µg/l	27.1 ± 1.21	28.5 ± 8.6	2.98	105	0.47
Lead	µg/l	1.22 ± 0.0465	1.32 ± 0.33	0.183	108	0.54
Manganese	µg/l	17.3 ± 0.596	17.9 ± 5.4	1.24	104	0.49
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.54	0.26	98.6	-0.12
Selenium	µg/l	4.24 ± 0.17	4.65 ± 1.9	0.509	110	0.80
Uranium	µg/l	1.18 ± 0.0201	1.15 ± 0.35	0.0777	97.6	-0.36
Zinc	µg/l	394 ± 13	413 ± 104	35.4	105	0.55

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	<0.3 (LOQ) ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	63.7 ± 16	6.33	101	0.07
Arsenic	µg/l	5.14 ± 0.0899	5.21 ± 1.6	0.668	101	0.10
Cadmium	µg/l	2.76 ± 0.0512	2.88 ± 0.72	0.276	104	0.44
Chromium	µg/l	1.89 ± 0.0697	2.21 ± 0.67	0.16	117	2.01
Copper	µg/l	14.8 ± 0.283	15.9 ± 4	1.34	107	0.80
Iron	µg/l	99.3 ± 2.38	108 ± 33	10.9	109	0.80
Lead	µg/l	3.92 ± 0.0984	4.17 ± 1.1	0.588	106	0.42
Manganese	µg/l	21.5 ± 0.422	22.2 ± 6.7	1.55	103	0.47
Nickel	µg/l	16.7 ± 0.345	16.9 ± 4.3	2.01	101	0.09
Selenium	µg/l	4.46 ± 0.123	4.58 ± 1.9	0.535	103	0.22
Uranium	µg/l	1.83 ± 0.0526	1.81 ± 0.55	0.121	98.9	-0.17

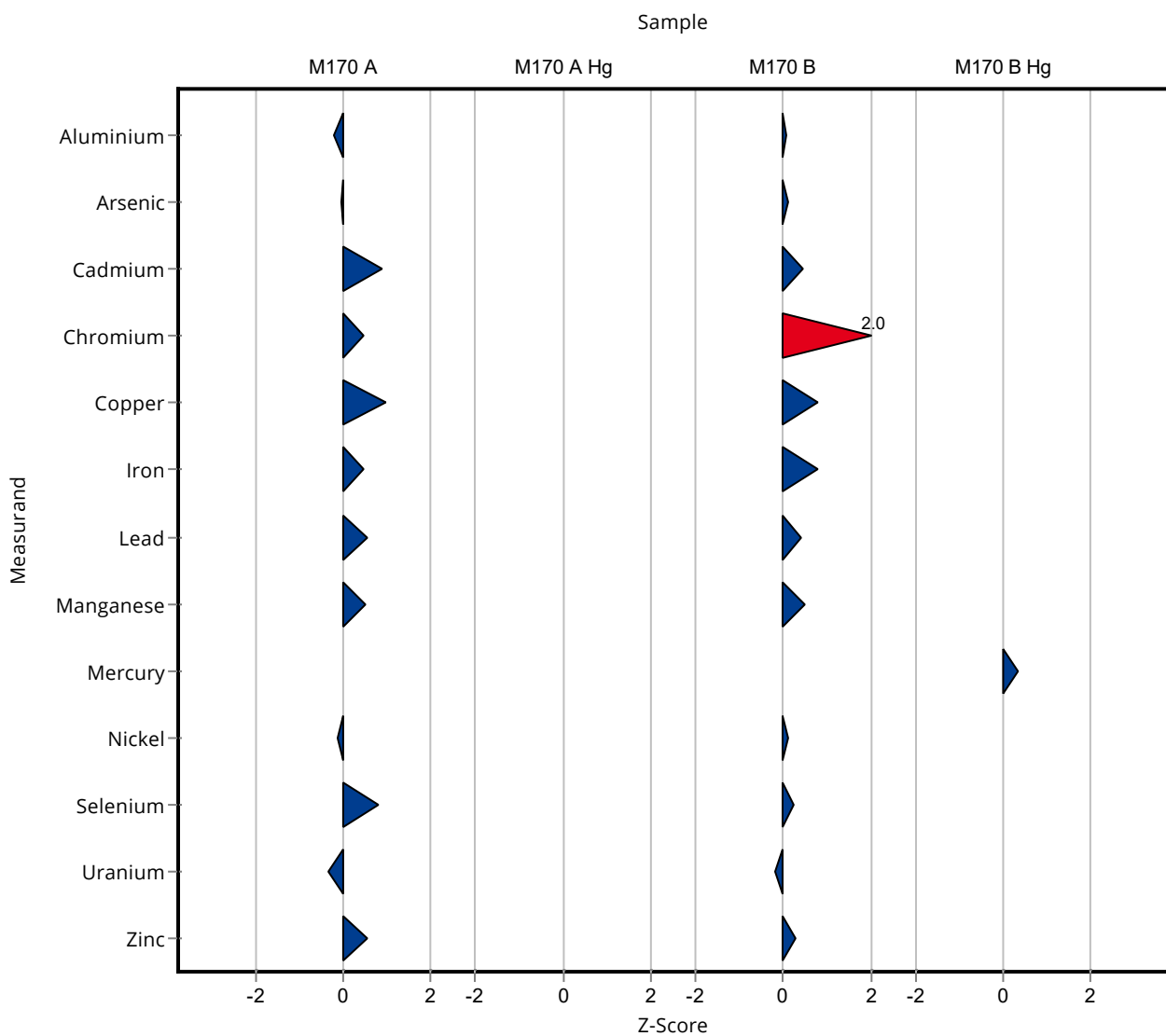
Summary of results Metals and trace elements M170

Labcode: LC0025

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	102 ± 26	8.94	103	0.29

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.831 ± 0.25	0.111	105	0.35



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13.1 ± 3.3	1.34	98	-0.04
Arsenic	µg/l	1.28 ± 0.0432	1.27 ± 0.38	0.166	99.5	-0.01
Cadmium	µg/l	0.423 ± 0.0105	0.46 ± 0.12	0.0423	109	0.15
Chromium	µg/l	1.97 ± 0.0625	2.05 ± 0.62	0.168	104	0.06
Copper	µg/l	9.74 ± 0.205	10.6 ± 2.7	0.876	109	0.16
Iron	µg/l	27.1 ± 1.21	28.5 ± 8.6	2.98	105	0.08
Lead	µg/l	1.22 ± 0.0465	1.32 ± 0.33	0.183	108	0.15
Manganese	µg/l	17.3 ± 0.596	17.9 ± 5.4	1.24	104	0.06
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.54	0.26	98.6	-0.03
Selenium	µg/l	4.24 ± 0.17	4.65 ± 1.9	0.509	110	0.11
Uranium	µg/l	1.18 ± 0.0201	1.15 ± 0.35	0.0777	97.6	-0.04
Zinc	µg/l	394 ± 13	413 ± 104	35.4	105	0.09

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	<0.3 (LOQ) ± -	0.0351	-	-

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	63.7 ± 16	6.33	101	0.01
Arsenic	µg/l	5.14 ± 0.0899	5.21 ± 1.6	0.668	101	0.02
Cadmium	µg/l	2.76 ± 0.0512	2.88 ± 0.72	0.276	104	0.08
Chromium	µg/l	1.89 ± 0.0697	2.21 ± 0.67	0.16	117	0.24
Copper	µg/l	14.8 ± 0.283	15.9 ± 4	1.34	107	0.13

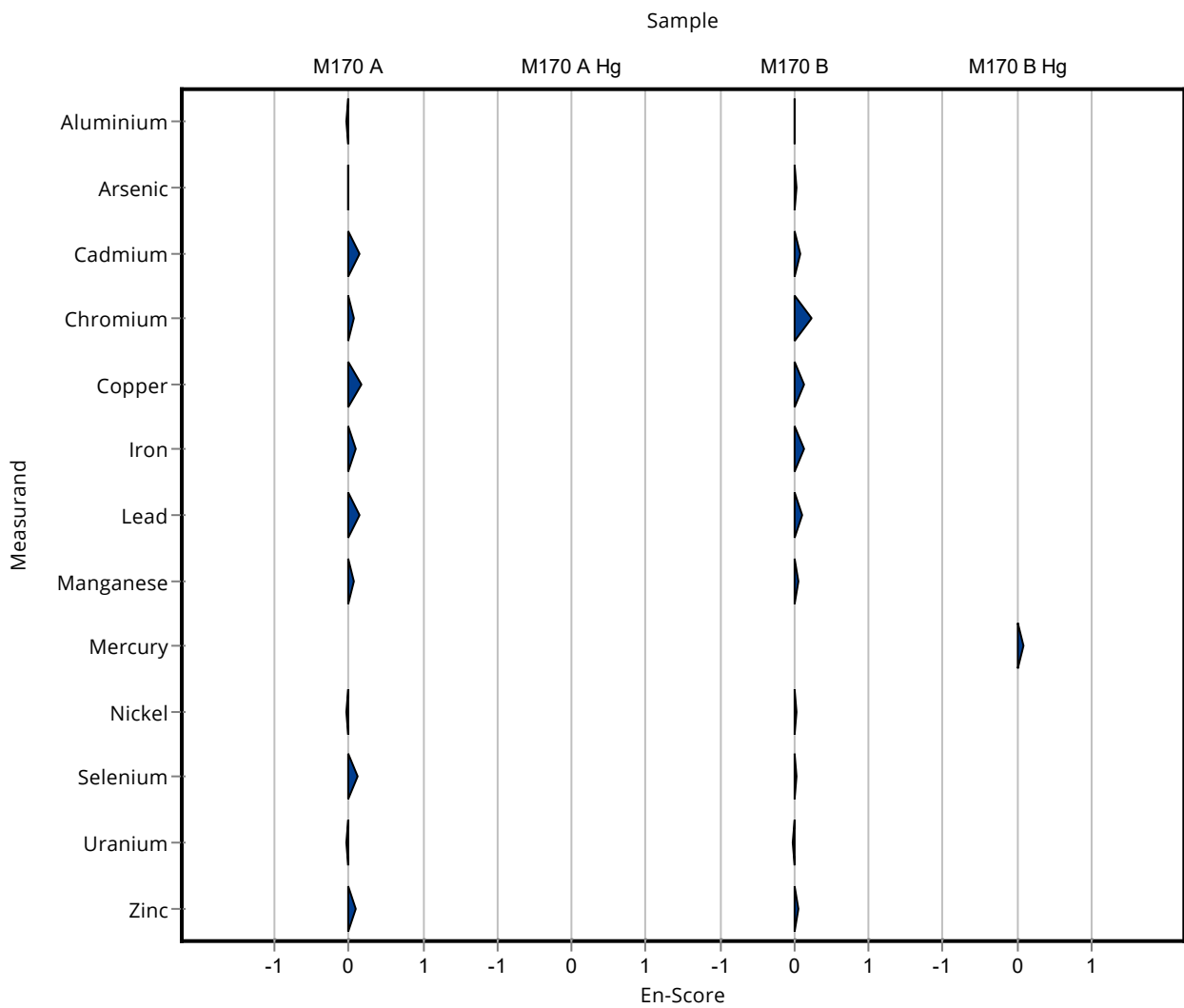
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0025

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	108 ± 33	10.9	109	0.13
Lead	µg/l	3.92 ± 0.0984	4.17 ± 1.1	0.588	106	0.11
Manganese	µg/l	21.5 ± 0.422	22.2 ± 6.7	1.55	103	0.05
Nickel	µg/l	16.7 ± 0.345	16.9 ± 4.3	2.01	101	0.02
Selenium	µg/l	4.46 ± 0.123	4.58 ± 1.9	0.535	103	0.03
Uranium	µg/l	1.83 ± 0.0526	1.81 ± 0.55	0.121	98.9	-0.02
Zinc	µg/l	99.4 ± 2.59	102 ± 26	8.94	103	0.05

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.831 ± 0.25	0.111	105	0.08



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.1 ± 1.82	1.34	90.5	-0.95
Arsenic	µg/l	1.28 ± 0.0432	1.19 ± 0.178	0.166	93.2	-0.52
Cadmium	µg/l	0.423 ± 0.0105	0.44 ± 0.066	0.0423	104	0.40
Chromium	µg/l	1.97 ± 0.0625	1.95 ± 0.293	0.168	98.9	-0.13
Copper	µg/l	9.74 ± 0.205	10.1 ± 1.51	0.876	104	0.41
Iron	µg/l	27.1 ± 1.21	25.9 ± 3.88	2.98	95.6	-0.40
Lead	µg/l	1.22 ± 0.0465	1.22 ± 0.183	0.183	99.9	0.00
Manganese	µg/l	17.3 ± 0.596	40400 ± 6060	1.24	234000	32437.03
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.32	0.26	98.6	-0.12
Selenium	µg/l	4.24 ± 0.17	4.2 ± 0.63	0.509	99	-0.08
Uranium	µg/l	1.18 ± 0.0201	1.17 ± 0.176	0.0777	99.3	-0.10
Zinc	µg/l	394 ± 13	400 ± 59.9	35.4	102	0.18

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.248 ± 0.037	0.0351	99	-0.07

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	62.4 ± 9.35	6.33	98.6	-0.14
Arsenic	µg/l	5.14 ± 0.0899	5.01 ± 0.751	0.668	97.4	-0.20
Cadmium	µg/l	2.76 ± 0.0512	2.84 ± 0.426	0.276	103	0.29
Chromium	µg/l	1.89 ± 0.0697	1.87 ± 0.28	0.16	99.1	-0.11
Copper	µg/l	14.8 ± 0.283	15.7 ± 2.36	1.34	106	0.65
Iron	µg/l	99.3 ± 2.38	97.8 ± 14.7	10.9	98.5	-0.13
Lead	µg/l	3.92 ± 0.0984	3.98 ± 0.597	0.588	101	0.10
Manganese	µg/l	21.5 ± 0.422	13400 ± 2010	1.55	62400	8654.37
Nickel	µg/l	16.7 ± 0.345	17.5 ± 2.62	2.01	105	0.39
Selenium	µg/l	4.46 ± 0.123	4.32 ± 0.649	0.535	96.8	-0.27
Uranium	µg/l	1.83 ± 0.0526	1.85 ± 0.277	0.121	101	0.16

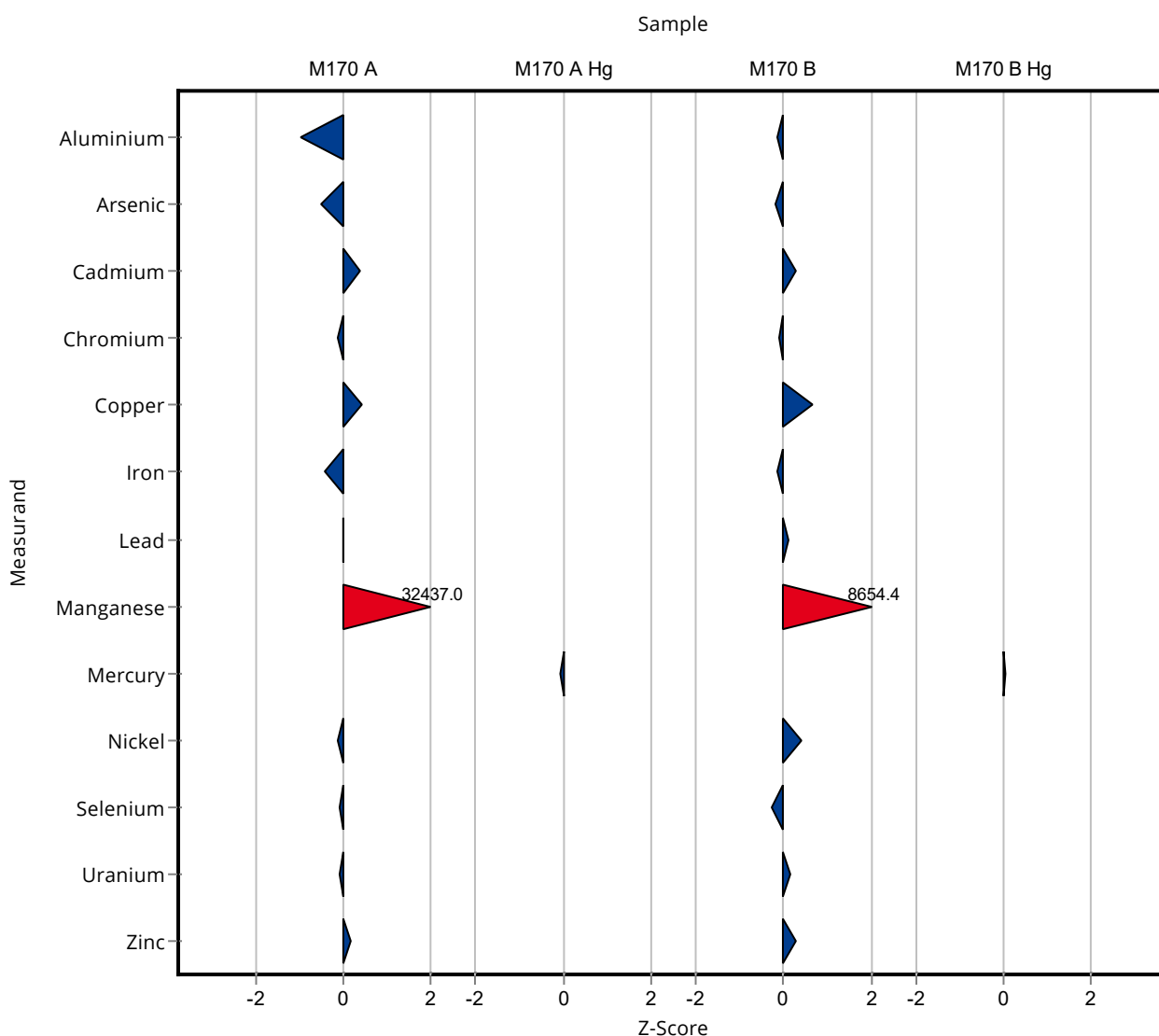
Summary of results Metals and trace elements M170

Labcode: LC0026

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	102 ± 15.2	8.94	103	0.29

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.796 ± 0.119	0.111	100	0.03



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.1 ± 1.82	1.34	90.5	-0.34
Arsenic	µg/l	1.28 ± 0.0432	1.19 ± 0.178	0.166	93.2	-0.24
Cadmium	µg/l	0.423 ± 0.0105	0.44 ± 0.066	0.0423	104	0.13
Chromium	µg/l	1.97 ± 0.0625	1.95 ± 0.293	0.168	98.9	-0.04
Copper	µg/l	9.74 ± 0.205	10.1 ± 1.51	0.876	104	0.12
Iron	µg/l	27.1 ± 1.21	25.9 ± 3.88	2.98	95.6	-0.15
Lead	µg/l	1.22 ± 0.0465	1.22 ± 0.183	0.183	99.9	0.00
Manganese	µg/l	17.3 ± 0.596	40400 ± 6060	1.24	234000	3.33
Nickel	µg/l	2.17 ± 0.0698	2.14 ± 0.32	0.26	98.6	-0.05
Selenium	µg/l	4.24 ± 0.17	4.2 ± 0.63	0.509	99	-0.03
Uranium	µg/l	1.18 ± 0.0201	1.17 ± 0.176	0.0777	99.3	-0.02
Zinc	µg/l	394 ± 13	400 ± 59.9	35.4	102	0.05

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.248 ± 0.037	0.0351	99	-0.03

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	62.4 ± 9.35	6.33	98.6	-0.05
Arsenic	µg/l	5.14 ± 0.0899	5.01 ± 0.751	0.668	97.4	-0.09
Cadmium	µg/l	2.76 ± 0.0512	2.84 ± 0.426	0.276	103	0.09
Chromium	µg/l	1.89 ± 0.0697	1.87 ± 0.28	0.16	99.1	-0.03
Copper	µg/l	14.8 ± 0.283	15.7 ± 2.36	1.34	106	0.18

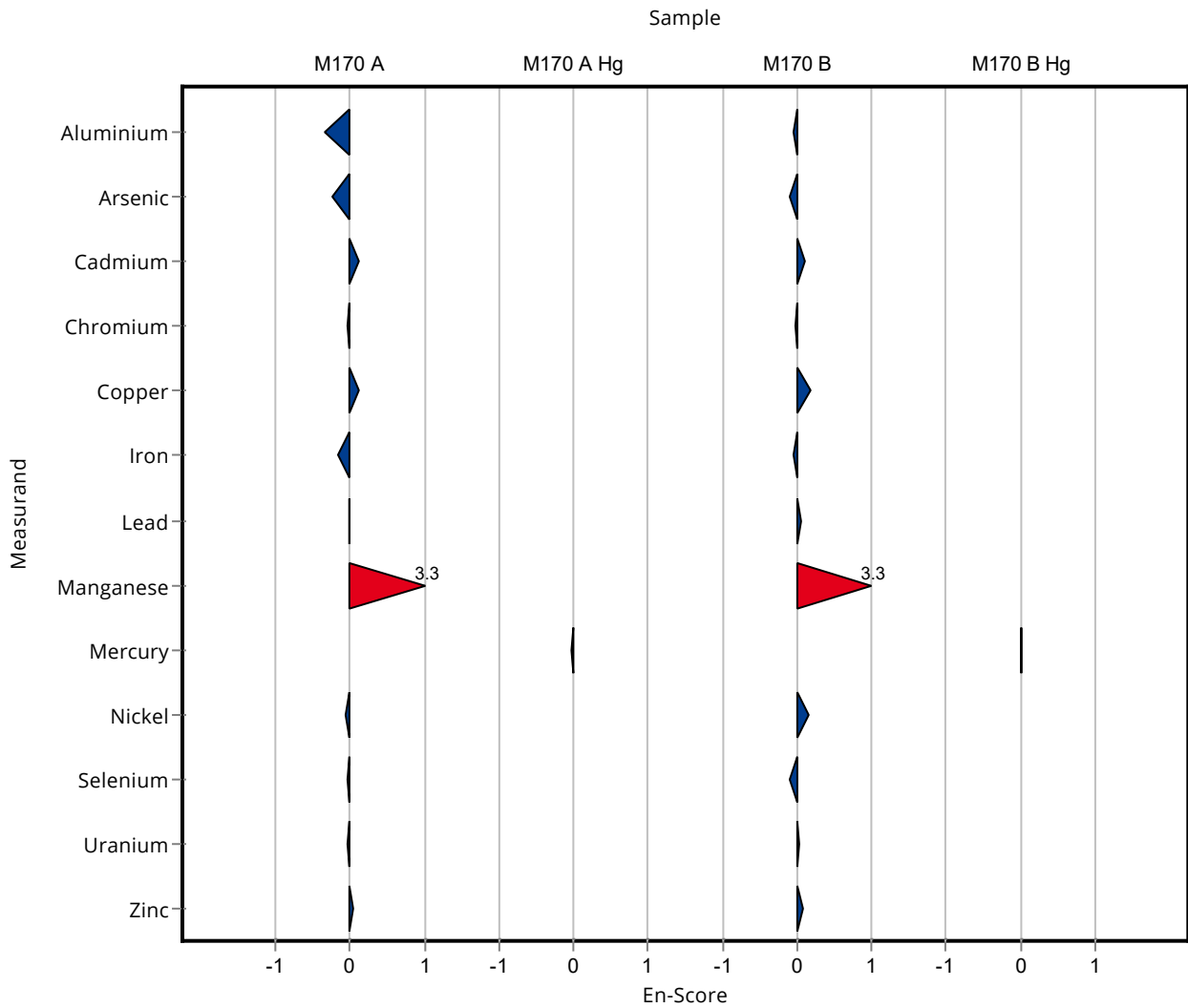
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0026

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	97.8 ± 14.7	10.9	98.5	-0.05
Lead	µg/l	3.92 ± 0.0984	3.98 ± 0.597	0.588	101	0.05
Manganese	µg/l	21.5 ± 0.422	13400 ± 2010	1.55	62400	3.33
Nickel	µg/l	16.7 ± 0.345	17.5 ± 2.62	2.01	105	0.15
Selenium	µg/l	4.46 ± 0.123	4.32 ± 0.649	0.535	96.8	-0.11
Uranium	µg/l	1.83 ± 0.0526	1.85 ± 0.277	0.121	101	0.04
Zinc	µg/l	99.4 ± 2.59	102 ± 15.2	8.94	103	0.09

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.796 ± 0.119	0.111	100	0.02



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	15 ± 3	1.34	112	1.22
Arsenic	µg/l	1.28 ± 0.0432	<1 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.4 ± 0.1	0.0423	94.5	-0.55
Chromium	µg/l	1.97 ± 0.0625	2 ± 1	0.168	101	0.17
Copper	µg/l	9.74 ± 0.205	9 ± 1	0.876	92.4	-0.84
Iron	µg/l	27.1 ± 1.21	80 ± 30	2.98	295	17.74
Lead	µg/l	1.22 ± 0.0465	2 ± 1	0.183	164	4.25
Manganese	µg/l	17.3 ± 0.596	27 ± 8	1.24	156	7.80
Nickel	µg/l	2.17 ± 0.0698	3 ± 1	0.26	138	3.18
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	450 ± 45	35.4	114	1.59

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.27 ± 0.1	0.0351	108	0.56

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	42 ± 8	6.33	66.4	-3.36
Arsenic	µg/l	5.14 ± 0.0899	5 ± 1	0.668	97.2	-0.21
Cadmium	µg/l	2.76 ± 0.0512	2.8 ± 0.3	0.276	101	0.15
Chromium	µg/l	1.89 ± 0.0697	2 ± 1	0.16	106	0.70
Copper	µg/l	14.8 ± 0.283	13 ± 2	1.34	87.6	-1.37
Iron	µg/l	99.3 ± 2.38	143 ± 50	10.9	144	4.01
Lead	µg/l	3.92 ± 0.0984	4 ± 1	0.588	102	0.13
Manganese	µg/l	21.5 ± 0.422	27 ± 8	1.55	126	3.58
Nickel	µg/l	16.7 ± 0.345	16 ± 2	2.01	95.7	-0.36
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-

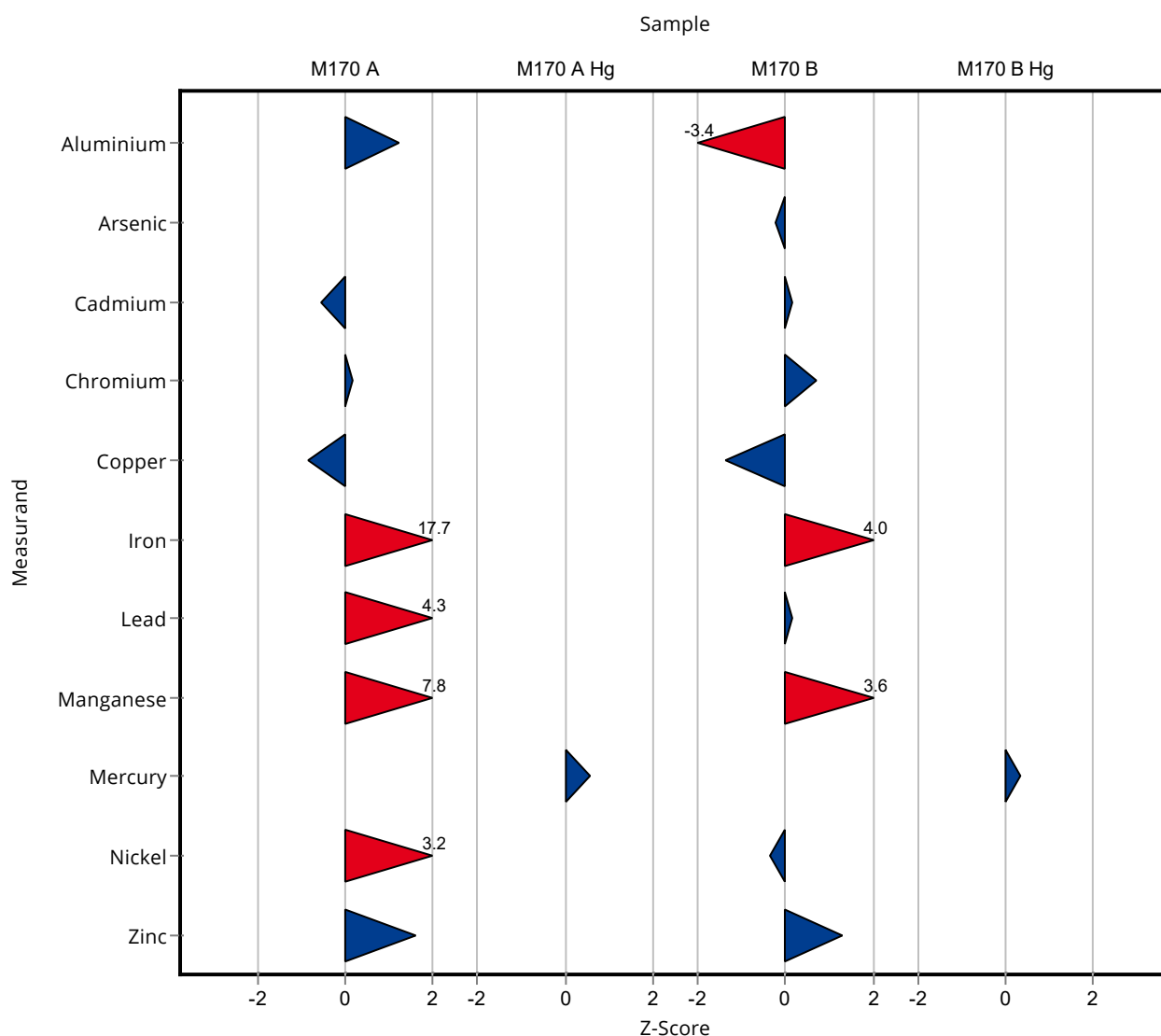
Summary of results Metals and trace elements M170

Labcode: LC0027

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	111 ± 10	8.94	112	1.30

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.83 ± 0.25	0.111	105	0.34



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	15 ± 3	1.34	112	0.27
Arsenic	µg/l	1.28 ± 0.0432	<1 (LOQ) ± -	0.166	-	-
Cadmium	µg/l	0.423 ± 0.0105	0.4 ± 0.1	0.0423	94.5	-0.12
Chromium	µg/l	1.97 ± 0.0625	2 ± 1	0.168	101	0.01
Copper	µg/l	9.74 ± 0.205	9 ± 1	0.876	92.4	-0.37
Iron	µg/l	27.1 ± 1.21	80 ± 30	2.98	295	0.88
Lead	µg/l	1.22 ± 0.0465	2 ± 1	0.183	164	0.39
Manganese	µg/l	17.3 ± 0.596	27 ± 8	1.24	156	0.61
Nickel	µg/l	2.17 ± 0.0698	3 ± 1	0.26	138	0.41
Selenium	µg/l	4.24 ± 0.17	- ± -	0.509	-	-
Uranium	µg/l	1.18 ± 0.0201	- ± -	0.0777	-	-
Zinc	µg/l	394 ± 13	450 ± 45	35.4	114	0.62

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.27 ± 0.1	0.0351	108	0.10

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	42 ± 8	6.33	66.4	-1.33
Arsenic	µg/l	5.14 ± 0.0899	5 ± 1	0.668	97.2	-0.07
Cadmium	µg/l	2.76 ± 0.0512	2.8 ± 0.3	0.276	101	0.07
Chromium	µg/l	1.89 ± 0.0697	2 ± 1	0.16	106	0.06
Copper	µg/l	14.8 ± 0.283	13 ± 2	1.34	87.6	-0.46

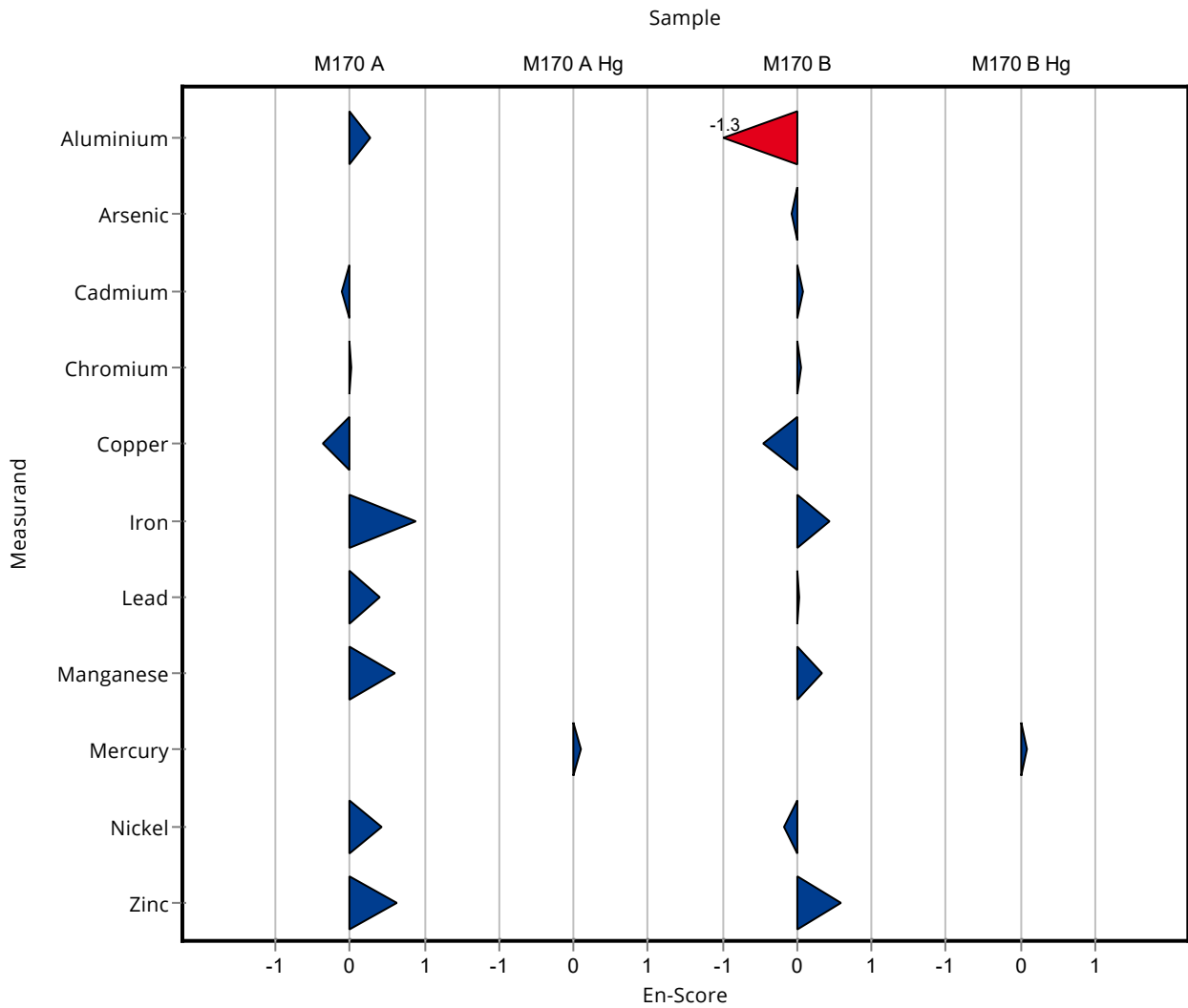
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0027

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	143 ± 50	10.9	144	0.44
Lead	µg/l	3.92 ± 0.0984	4 ± 1	0.588	102	0.04
Manganese	µg/l	21.5 ± 0.422	27 ± 8	1.55	126	0.35
Nickel	µg/l	16.7 ± 0.345	16 ± 2	2.01	95.7	-0.18
Selenium	µg/l	4.46 ± 0.123	- ± -	0.535	-	-
Uranium	µg/l	1.83 ± 0.0526	- ± -	0.121	-	-
Zinc	µg/l	99.4 ± 2.59	111 ± 10	8.94	112	0.58

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.83 ± 0.25	0.111	105	0.08



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	13 ± 1.3	1.34	97.2	-0.28
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.144	0.166	94	-0.46
Cadmium	µg/l	0.423 ± 0.0105	0.43 ± 0.0344	0.0423	102	0.16
Chromium	µg/l	1.97 ± 0.0625	1.8 ± 0.216	0.168	91.3	-1.03
Copper	µg/l	9.74 ± 0.205	9.6 ± 0.768	0.876	98.6	-0.16
Iron	µg/l	27.1 ± 1.21	24 ± 6.24	2.98	88.5	-1.04
Lead	µg/l	1.22 ± 0.0465	1.3 ± 0.104	0.183	106	0.43
Manganese	µg/l	17.3 ± 0.596	17 ± 1.7	1.24	98.3	-0.23
Nickel	µg/l	2.17 ± 0.0698	2.2 ± 0.22	0.26	101	0.11
Selenium	µg/l	4.24 ± 0.17	4.3 ± 0.645	0.509	101	0.11
Uranium	µg/l	1.18 ± 0.0201	1.22 ± 0.061	0.0777	104	0.54
Zinc	µg/l	394 ± 13	408 ± 40.8	35.4	104	0.41

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.272 ± 0.0408	0.0351	109	0.62

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	61 ± 6.1	6.33	96.4	-0.36
Arsenic	µg/l	5.14 ± 0.0899	4.8 ± 0.576	0.668	93.3	-0.51
Cadmium	µg/l	2.76 ± 0.0512	2.65 ± 0.212	0.276	96	-0.40
Chromium	µg/l	1.89 ± 0.0697	1.7 ± 0.204	0.16	90.1	-1.17
Copper	µg/l	14.8 ± 0.283	14.6 ± 1.168	1.34	98.4	-0.18
Iron	µg/l	99.3 ± 2.38	93 ± 24.18	10.9	93.7	-0.57
Lead	µg/l	3.92 ± 0.0984	4.1 ± 0.328	0.588	105	0.30
Manganese	µg/l	21.5 ± 0.422	21 ± 2.1	1.55	97.8	-0.30
Nickel	µg/l	16.7 ± 0.345	16.2 ± 1.62	2.01	96.9	-0.26
Selenium	µg/l	4.46 ± 0.123	4.5 ± 0.675	0.535	101	0.07
Uranium	µg/l	1.83 ± 0.0526	1.88 ± 0.094	0.121	103	0.41

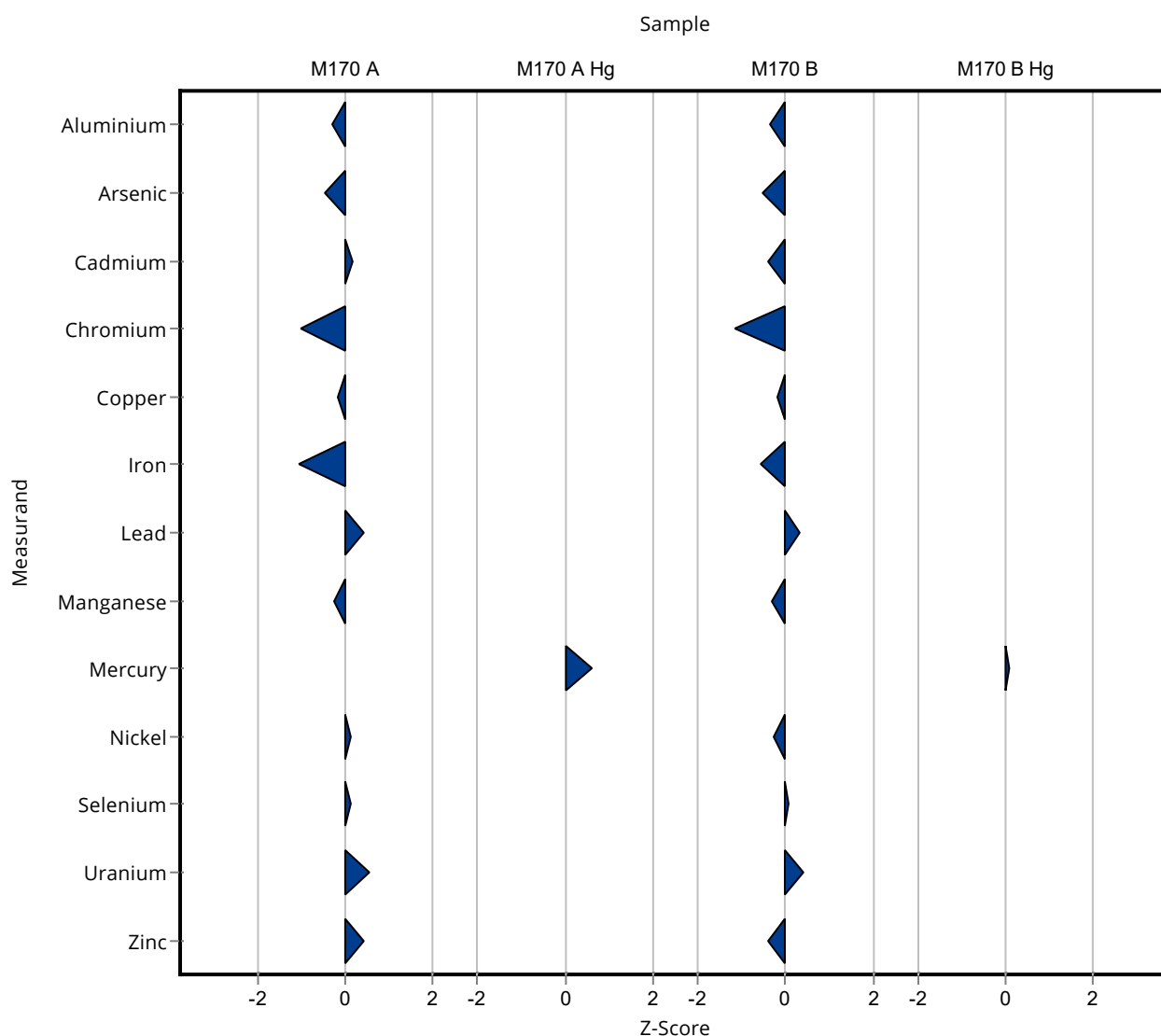
Summary of results Metals and trace elements M170

Labcode: LC0028

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	96 ± 9.6	8.94	96.6	-0.38

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.801 ± 0.12	0.111	101	0.08



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	13 ± 1.3	1.34	97.2	-0.14
Arsenic	µg/l	1.28 ± 0.0432	1.2 ± 0.144	0.166	94	-0.26
Cadmium	µg/l	0.423 ± 0.0105	0.43 ± 0.0344	0.0423	102	0.10
Chromium	µg/l	1.97 ± 0.0625	1.8 ± 0.216	0.168	91.3	-0.39
Copper	µg/l	9.74 ± 0.205	9.6 ± 0.768	0.876	98.6	-0.09
Iron	µg/l	27.1 ± 1.21	24 ± 6.24	2.98	88.5	-0.25
Lead	µg/l	1.22 ± 0.0465	1.3 ± 0.104	0.183	106	0.37
Manganese	µg/l	17.3 ± 0.596	17 ± 1.7	1.24	98.3	-0.08
Nickel	µg/l	2.17 ± 0.0698	2.2 ± 0.22	0.26	101	0.07
Selenium	µg/l	4.24 ± 0.17	4.3 ± 0.645	0.509	101	0.04
Uranium	µg/l	1.18 ± 0.0201	1.22 ± 0.061	0.0777	104	0.34
Zinc	µg/l	394 ± 13	408 ± 40.8	35.4	104	0.17

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.272 ± 0.0408	0.0351	109	0.26

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	61 ± 6.1	6.33	96.4	-0.19
Arsenic	µg/l	5.14 ± 0.0899	4.8 ± 0.576	0.668	93.3	-0.30
Cadmium	µg/l	2.76 ± 0.0512	2.65 ± 0.212	0.276	96	-0.26
Chromium	µg/l	1.89 ± 0.0697	1.7 ± 0.204	0.16	90.1	-0.45
Copper	µg/l	14.8 ± 0.283	14.6 ± 1.168	1.34	98.4	-0.10

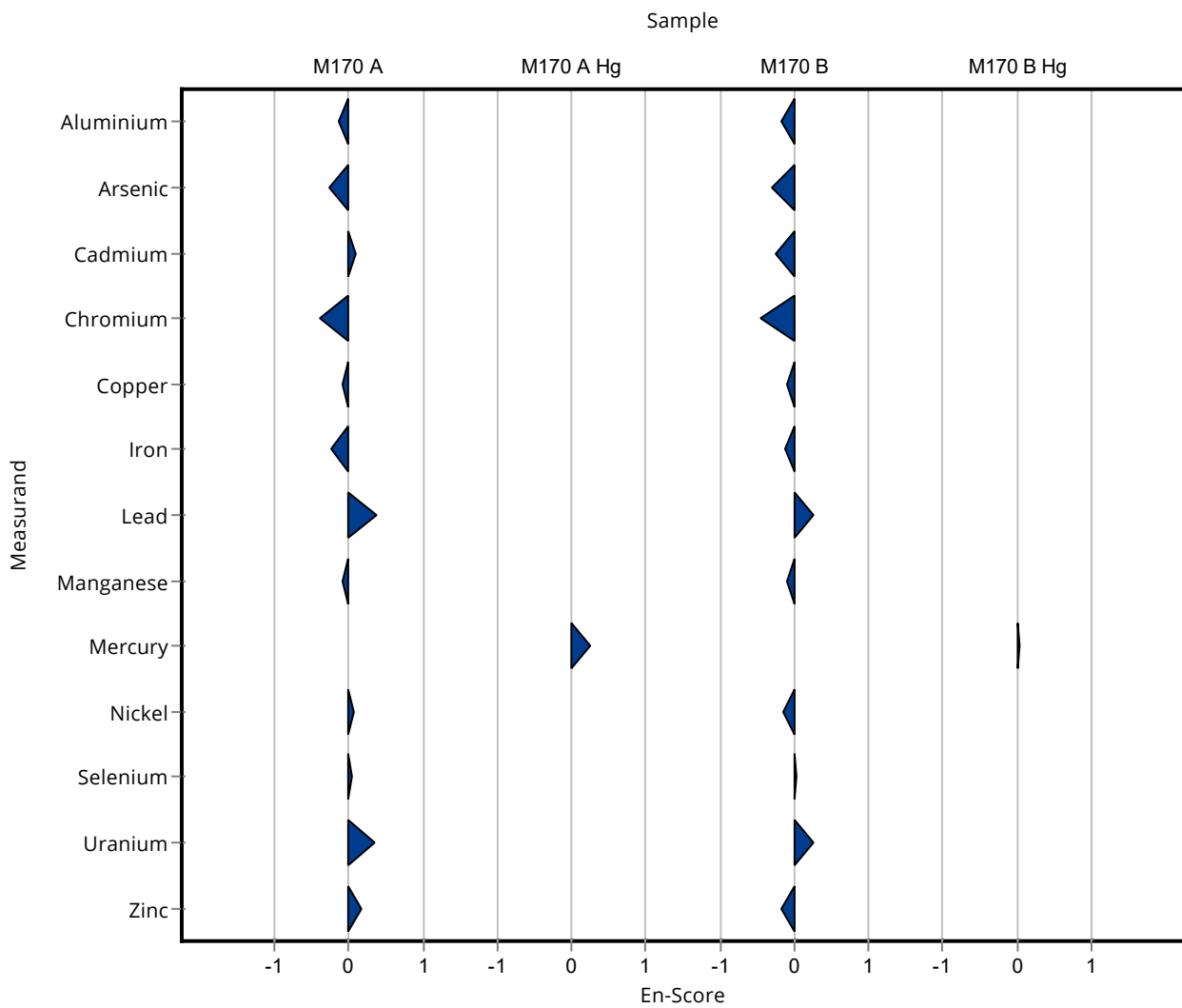
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0028

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	93 ± 24.18	10.9	93.7	-0.13
Lead	µg/l	3.92 ± 0.0984	4.1 ± 0.328	0.588	105	0.27
Manganese	µg/l	21.5 ± 0.422	21 ± 2.1	1.55	97.8	-0.11
Nickel	µg/l	16.7 ± 0.345	16.2 ± 1.62	2.01	96.9	-0.16
Selenium	µg/l	4.46 ± 0.123	4.5 ± 0.675	0.535	101	0.03
Uranium	µg/l	1.83 ± 0.0526	1.88 ± 0.094	0.121	103	0.26
Zinc	µg/l	99.4 ± 2.59	96 ± 9.6	8.94	96.6	-0.17

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.801 ± 0.12	0.111	101	0.04



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.78 ± 1.405	1.34	95.6	-0.44
Arsenic	µg/l	1.28 ± 0.0432	1.176 ± 0.07058	0.166	92.1	-0.61
Cadmium	µg/l	0.423 ± 0.0105	0.4394 ± 0.03076	0.0423	104	0.39
Chromium	µg/l	1.97 ± 0.0625	1.882 ± 0.1505	0.168	95.4	-0.54
Copper	µg/l	9.74 ± 0.205	9.326 ± 1.026	0.876	95.8	-0.47
Iron	µg/l	27.1 ± 1.21	29.02 ± 2.031	2.98	107	0.64
Lead	µg/l	1.22 ± 0.0465	1.216 ± 0.1094	0.183	99.6	-0.03
Manganese	µg/l	17.3 ± 0.596	18.8 ± 2.068	1.24	109	1.21
Nickel	µg/l	2.17 ± 0.0698	2.149 ± 0.2364	0.26	99	-0.08
Selenium	µg/l	4.24 ± 0.17	4.277 ± 0.3422	0.509	101	0.07
Uranium	µg/l	1.18 ± 0.0201	1.132 ± 0.1811	0.0777	96.1	-0.59
Zinc	µg/l	394 ± 13	362.6 ± 50.76	35.4	92.1	-0.88

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.2438 ± 0.04388	0.0351	97.4	-0.19

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	59.17 ± 9.466	6.33	93.5	-0.65
Arsenic	µg/l	5.14 ± 0.0899	5.064 ± 0.8608	0.668	98.5	-0.12
Cadmium	µg/l	2.76 ± 0.0512	2.763 ± 0.3592	0.276	100	0.01
Chromium	µg/l	1.89 ± 0.0697	1.9 ± 0.4179	0.16	101	0.08
Copper	µg/l	14.8 ± 0.283	14.61 ± 1.461	1.34	98.5	-0.17
Iron	µg/l	99.3 ± 2.38	100.1 ± 14.02	10.9	101	0.08
Lead	µg/l	3.92 ± 0.0984	3.935 ± 0.9052	0.588	100	0.02
Manganese	µg/l	21.5 ± 0.422	20.69 ± 2.276	1.55	96.4	-0.50
Nickel	µg/l	16.7 ± 0.345	3.455 ± 0.5183	2.01	20.7	-6.61
Selenium	µg/l	4.46 ± 0.123	4.466 ± 0.6252	0.535	100	0.01
Uranium	µg/l	1.83 ± 0.0526	1.716 ± 0.2059	0.121	93.8	-0.95

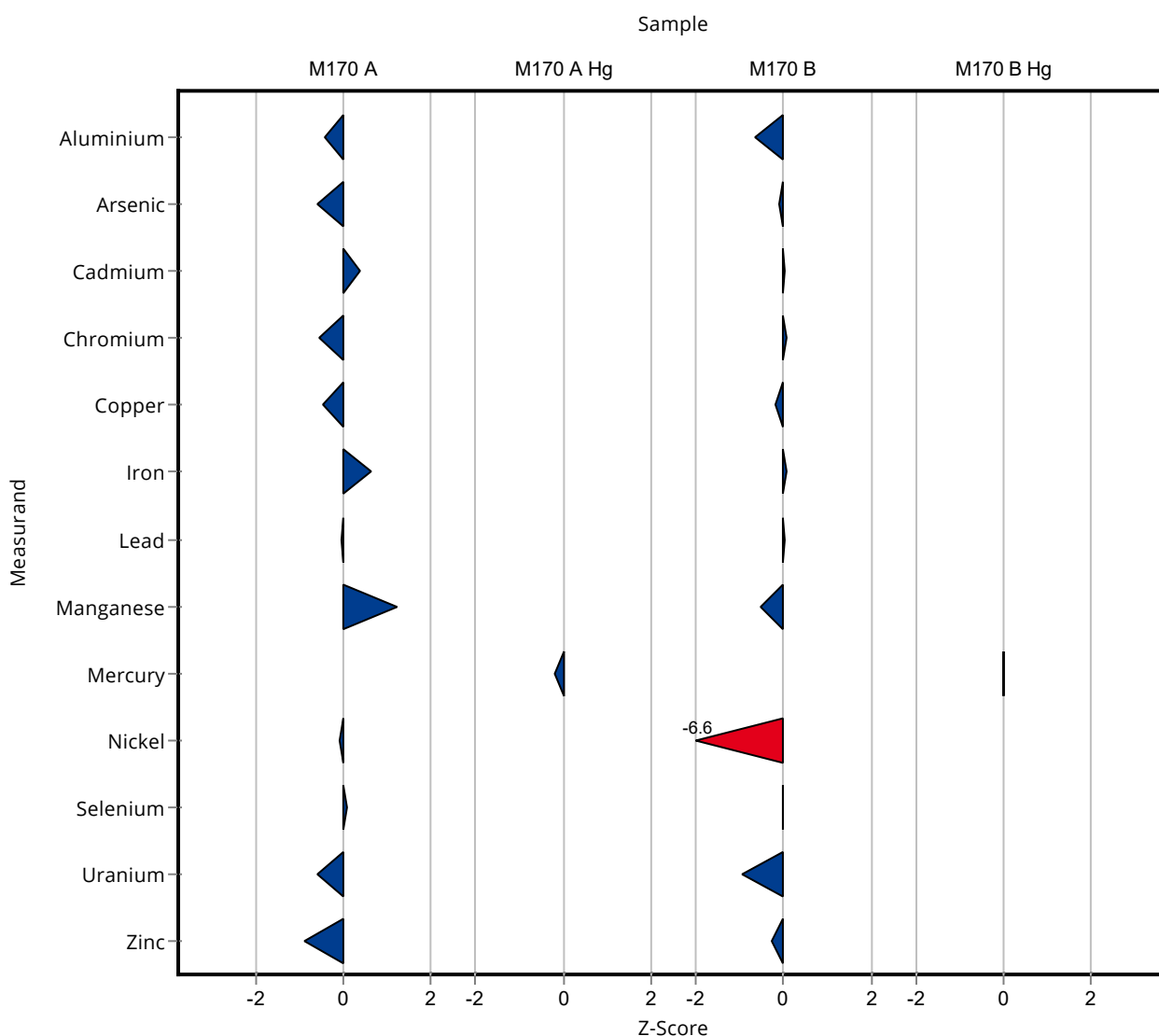
Summary of results Metals and trace elements M170

Labcode: LC0029

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	96.83 ± 18.4	8.94	97.4	-0.28

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.7933 ± 0.1428	0.111	100	0.01



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.78 ± 1.405	1.34	95.6	-0.21
Arsenic	µg/l	1.28 ± 0.0432	1.176 ± 0.07058	0.166	92.1	-0.68
Cadmium	µg/l	0.423 ± 0.0105	0.4394 ± 0.03076	0.0423	104	0.26
Chromium	µg/l	1.97 ± 0.0625	1.882 ± 0.1505	0.168	95.4	-0.29
Copper	µg/l	9.74 ± 0.205	9.326 ± 1.026	0.876	95.8	-0.20
Iron	µg/l	27.1 ± 1.21	29.02 ± 2.031	2.98	107	0.45
Lead	µg/l	1.22 ± 0.0465	1.216 ± 0.1094	0.183	99.6	-0.02
Manganese	µg/l	17.3 ± 0.596	18.8 ± 2.068	1.24	109	0.36
Nickel	µg/l	2.17 ± 0.0698	2.149 ± 0.2364	0.26	99	-0.05
Selenium	µg/l	4.24 ± 0.17	4.277 ± 0.3422	0.509	101	0.05
Uranium	µg/l	1.18 ± 0.0201	1.132 ± 0.1811	0.0777	96.1	-0.13
Zinc	µg/l	394 ± 13	362.6 ± 50.76	35.4	92.1	-0.30

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.2438 ± 0.04388	0.0351	97.4	-0.07

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	59.17 ± 9.466	6.33	93.5	-0.22
Arsenic	µg/l	5.14 ± 0.0899	5.064 ± 0.8608	0.668	98.5	-0.05
Cadmium	µg/l	2.76 ± 0.0512	2.763 ± 0.3592	0.276	100	0.00
Chromium	µg/l	1.89 ± 0.0697	1.9 ± 0.4179	0.16	101	0.01
Copper	µg/l	14.8 ± 0.283	14.61 ± 1.461	1.34	98.5	-0.08

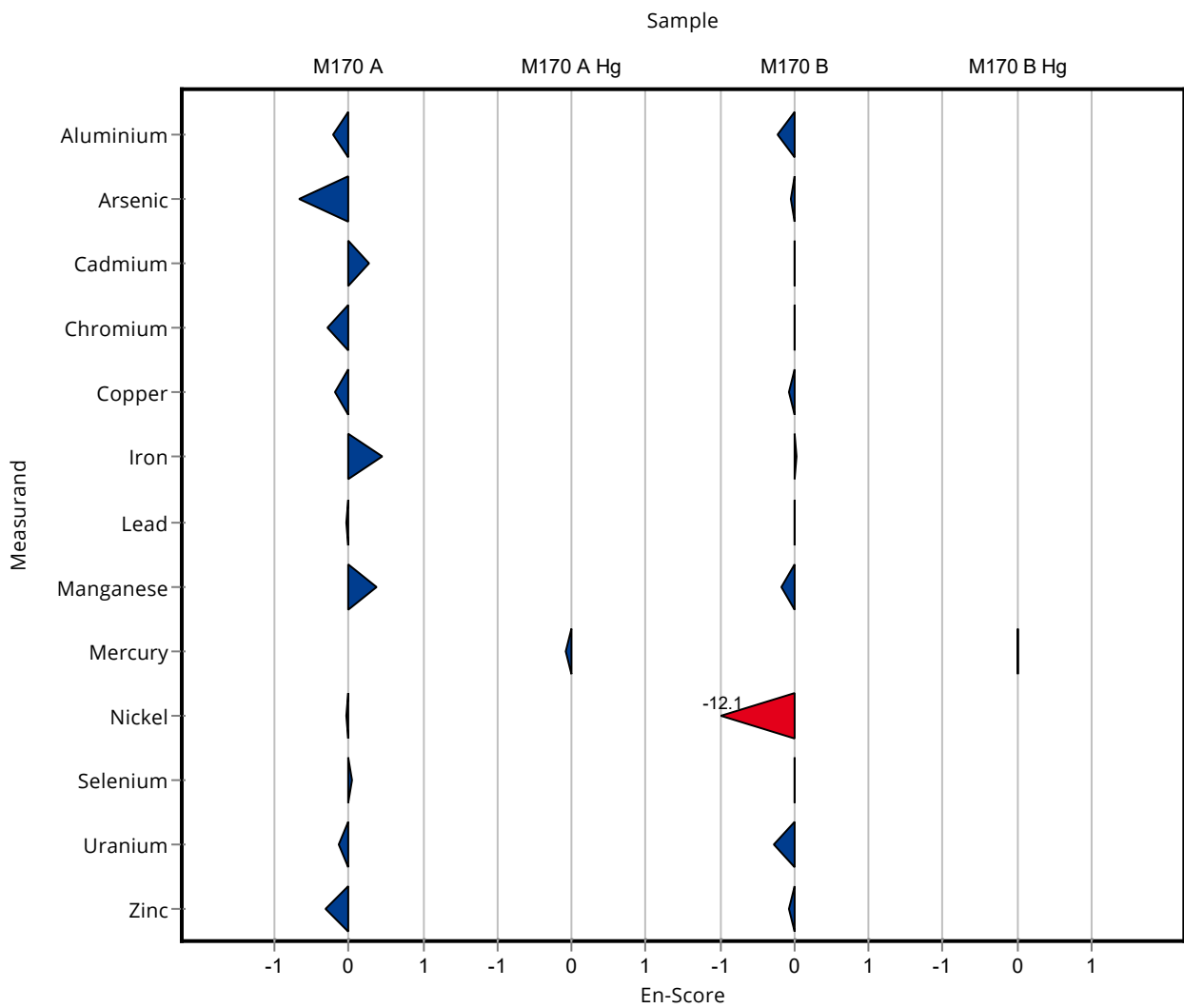
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0029

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	100.1 ± 14.02	10.9	101	0.03
Lead	µg/l	3.92 ± 0.0984	3.935 ± 0.9052	0.588	100	0.01
Manganese	µg/l	21.5 ± 0.422	20.69 ± 2.276	1.55	96.4	-0.17
Nickel	µg/l	16.7 ± 0.345	3.455 ± 0.5183	2.01	20.7	-12.14
Selenium	µg/l	4.46 ± 0.123	4.466 ± 0.6252	0.535	100	0.00
Uranium	µg/l	1.83 ± 0.0526	1.716 ± 0.2059	0.121	93.8	-0.28
Zinc	µg/l	99.4 ± 2.59	96.83 ± 18.4	8.94	97.4	-0.07

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.7933 ± 0.1428	0.111	100	0.00



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.4 ± 2.1	1.34	92.8	-0.72
Arsenic	µg/l	1.28 ± 0.0432	1.47 ± 0.18	0.166	115	1.16
Cadmium	µg/l	0.423 ± 0.0105	0.448 ± 0.047	0.0423	106	0.59
Chromium	µg/l	1.97 ± 0.0625	1.93 ± 0.2	0.168	97.9	-0.25
Copper	µg/l	9.74 ± 0.205	10.2 ± 1	0.876	105	0.53
Iron	µg/l	27.1 ± 1.21	23.4 ± 2.5	2.98	86.3	-1.24
Lead	µg/l	1.22 ± 0.0465	1.25 ± 0.14	0.183	102	0.16
Manganese	µg/l	17.3 ± 0.596	16.6 ± 0.79	1.24	96	-0.56
Nickel	µg/l	2.17 ± 0.0698	1.87 ± 0.17	0.26	86.1	-1.15
Selenium	µg/l	4.24 ± 0.17	4.51 ± 0.81	0.509	106	0.52
Uranium	µg/l	1.18 ± 0.0201	2.09 ± 0.31	0.0777	177	11.73
Zinc	µg/l	394 ± 13	398 ± 50	35.4	101	0.12

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.25 ± 0.046	0.0351	99.8	-0.01

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	61.1 ± 10	6.33	96.5	-0.35
Arsenic	µg/l	5.14 ± 0.0899	5.64 ± 0.69	0.668	110	0.75
Cadmium	µg/l	2.76 ± 0.0512	2.63 ± 0.28	0.276	95.3	-0.47
Chromium	µg/l	1.89 ± 0.0697	1.78 ± 0.19	0.16	94.3	-0.67
Copper	µg/l	14.8 ± 0.283	15.2 ± 1.5	1.34	102	0.27
Iron	µg/l	99.3 ± 2.38	100 ± 10	10.9	101	0.07
Lead	µg/l	3.92 ± 0.0984	4.11 ± 0.48	0.588	105	0.32
Manganese	µg/l	21.5 ± 0.422	21.1 ± 1	1.55	98.3	-0.24
Nickel	µg/l	16.7 ± 0.345	16.6 ± 1.5	2.01	99.3	-0.06
Selenium	µg/l	4.46 ± 0.123	4.22 ± 0.76	0.535	94.6	-0.45
Uranium	µg/l	1.83 ± 0.0526	1.69 ± 0.25	0.121	92.3	-1.16

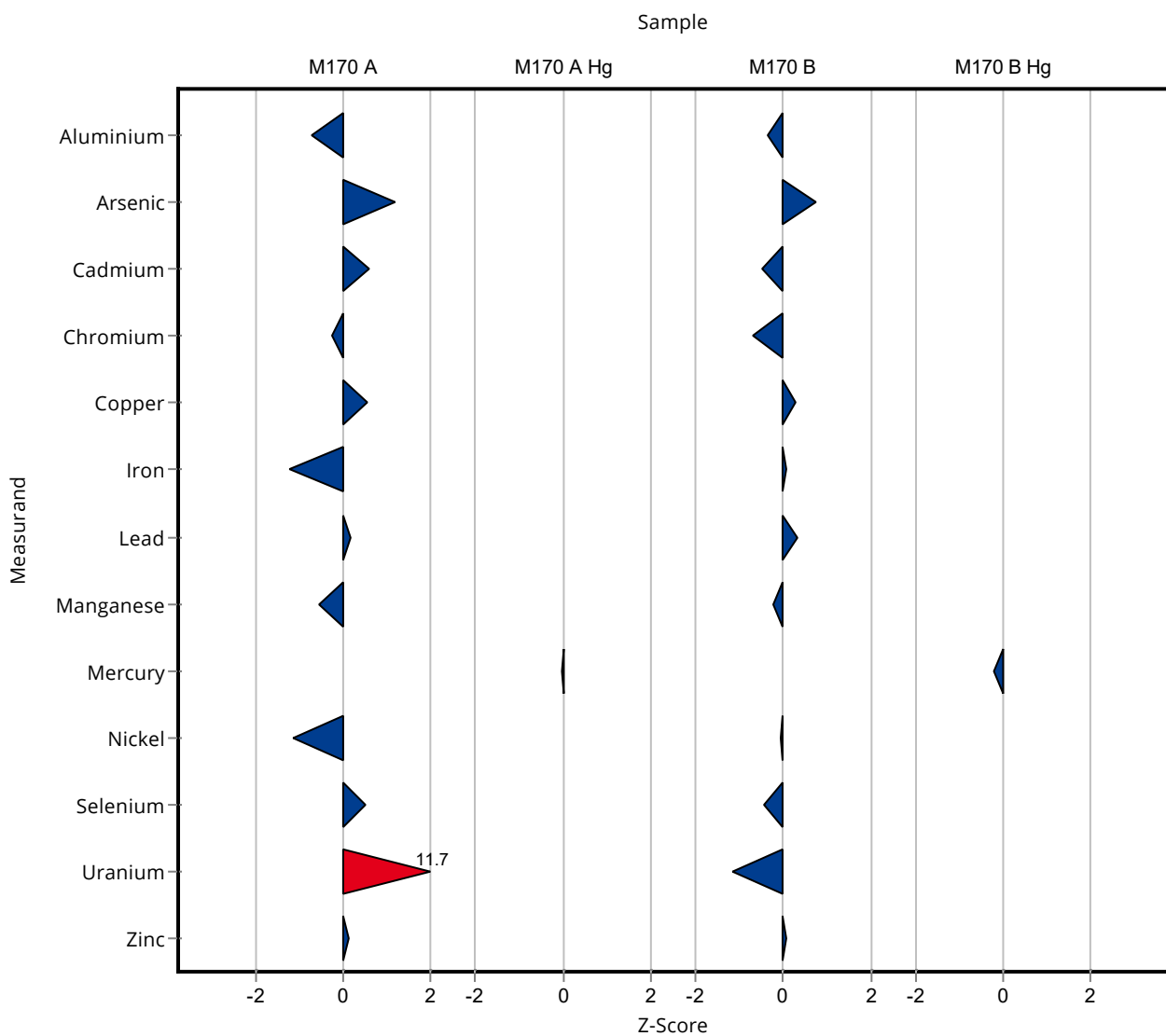
Summary of results Metals and trace elements M170

Labcode: LC0030

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	100 ± 13	8.94	101	0.07

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.768 ± 0.14	0.111	96.9	-0.22



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.4 ± 2.1	1.34	92.8	-0.23
Arsenic	µg/l	1.28 ± 0.0432	1.47 ± 0.18	0.166	115	0.53
Cadmium	µg/l	0.423 ± 0.0105	0.448 ± 0.047	0.0423	106	0.26
Chromium	µg/l	1.97 ± 0.0625	1.93 ± 0.2	0.168	97.9	-0.10
Copper	µg/l	9.74 ± 0.205	10.2 ± 1	0.876	105	0.23
Iron	µg/l	27.1 ± 1.21	23.4 ± 2.5	2.98	86.3	-0.72
Lead	µg/l	1.22 ± 0.0465	1.25 ± 0.14	0.183	102	0.10
Manganese	µg/l	17.3 ± 0.596	16.6 ± 0.79	1.24	96	-0.41
Nickel	µg/l	2.17 ± 0.0698	1.87 ± 0.17	0.26	86.1	-0.87
Selenium	µg/l	4.24 ± 0.17	4.51 ± 0.81	0.509	106	0.16
Uranium	µg/l	1.18 ± 0.0201	2.09 ± 0.31	0.0777	177	1.47
Zinc	µg/l	394 ± 13	398 ± 50	35.4	101	0.04

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.25 ± 0.046	0.0351	99.8	0.00

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	61.1 ± 10	6.33	96.5	-0.11
Arsenic	µg/l	5.14 ± 0.0899	5.64 ± 0.69	0.668	110	0.36
Cadmium	µg/l	2.76 ± 0.0512	2.63 ± 0.28	0.276	95.3	-0.23
Chromium	µg/l	1.89 ± 0.0697	1.78 ± 0.19	0.16	94.3	-0.28
Copper	µg/l	14.8 ± 0.283	15.2 ± 1.5	1.34	102	0.12

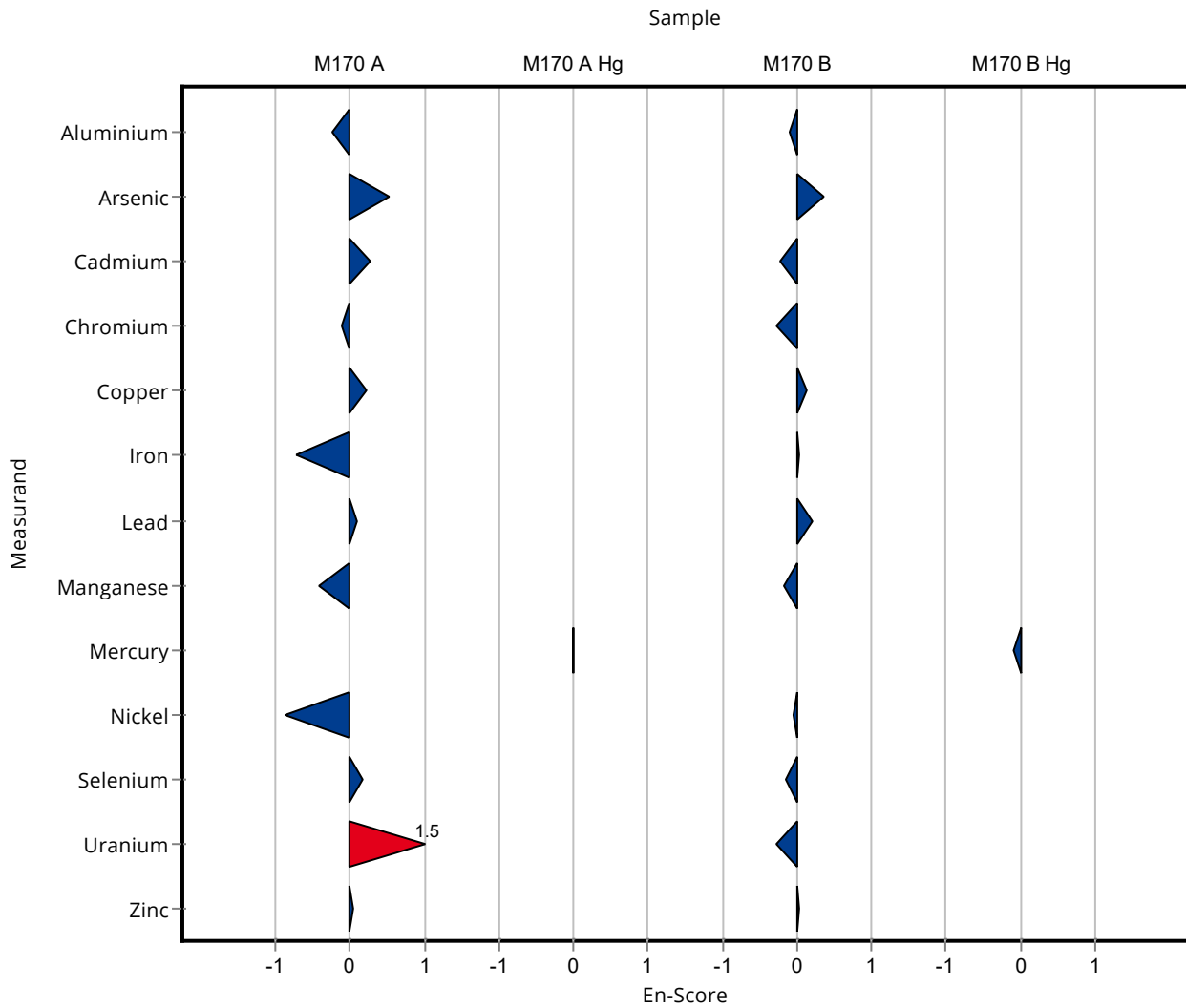
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0030

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	100 ± 10	10.9	101	0.04
Lead	µg/l	3.92 ± 0.0984	4.11 ± 0.48	0.588	105	0.20
Manganese	µg/l	21.5 ± 0.422	21.1 ± 1	1.55	98.3	-0.18
Nickel	µg/l	16.7 ± 0.345	16.6 ± 1.5	2.01	99.3	-0.04
Selenium	µg/l	4.46 ± 0.123	4.22 ± 0.76	0.535	94.6	-0.16
Uranium	µg/l	1.83 ± 0.0526	1.69 ± 0.25	0.121	92.3	-0.28
Zinc	µg/l	99.4 ± 2.59	100 ± 13	8.94	101	0.02

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.768 ± 0.14	0.111	96.9	-0.09



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	13.4 ± 0.546	12.292 ± 2.458	1.34	92	-0.80
Arsenic	µg/l	1.28 ± 0.0432	1.203 ± 0.18	0.166	94.2	-0.44
Cadmium	µg/l	0.423 ± 0.0105	0.428 ± 0.0637	0.0423	101	0.12
Chromium	µg/l	1.97 ± 0.0625	2.099 ± 0.315	0.168	106	0.76
Copper	µg/l	9.74 ± 0.205	9.943 ± 1.491	0.876	102	0.23
Iron	µg/l	27.1 ± 1.21	25.28 ± 3.792	2.98	93.3	-0.61
Lead	µg/l	1.22 ± 0.0465	1.232 ± 0.185	0.183	101	0.06
Manganese	µg/l	17.3 ± 0.596	16.857 ± 2.523	1.24	97.5	-0.35
Nickel	µg/l	2.17 ± 0.0698	2.354 ± 0.353	0.26	108	0.70
Selenium	µg/l	4.24 ± 0.17	4.234 ± 0.635	0.509	99.8	-0.02
Uranium	µg/l	1.18 ± 0.0201	1.195 ± 0.179	0.0777	101	0.22
Zinc	µg/l	394 ± 13	392.606 ± 27.44	35.4	99.7	-0.03

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.25 ± 0.00994	0.0891 ± 0.0134	0.0351	35.6	-4.60

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Aluminium	µg/l	63.3 ± 1.06	62.298 ± 6.23	6.33	98.4	-0.16
Arsenic	µg/l	5.14 ± 0.0899	5.1 ± 0.765	0.668	99.2	-0.06
Cadmium	µg/l	2.76 ± 0.0512	2.721 ± 0.408	0.276	98.6	-0.14
Chromium	µg/l	1.89 ± 0.0697	2.011 ± 0.302	0.16	107	0.77
Copper	µg/l	14.8 ± 0.283	14.88 ± 1.488	1.34	100	0.03
Iron	µg/l	99.3 ± 2.38	97.769 ± 6.843	10.9	98.5	-0.14
Lead	µg/l	3.92 ± 0.0984	3.853 ± 0.578	0.588	98.3	-0.12
Manganese	µg/l	21.5 ± 0.422	21.587 ± 3.238	1.55	101	0.08
Nickel	µg/l	16.7 ± 0.345	17.37 ± 1.737	2.01	104	0.33
Selenium	µg/l	4.46 ± 0.123	4.447 ± 0.667	0.535	99.7	-0.03
Uranium	µg/l	1.83 ± 0.0526	1.885 ± 0.283	0.121	103	0.45

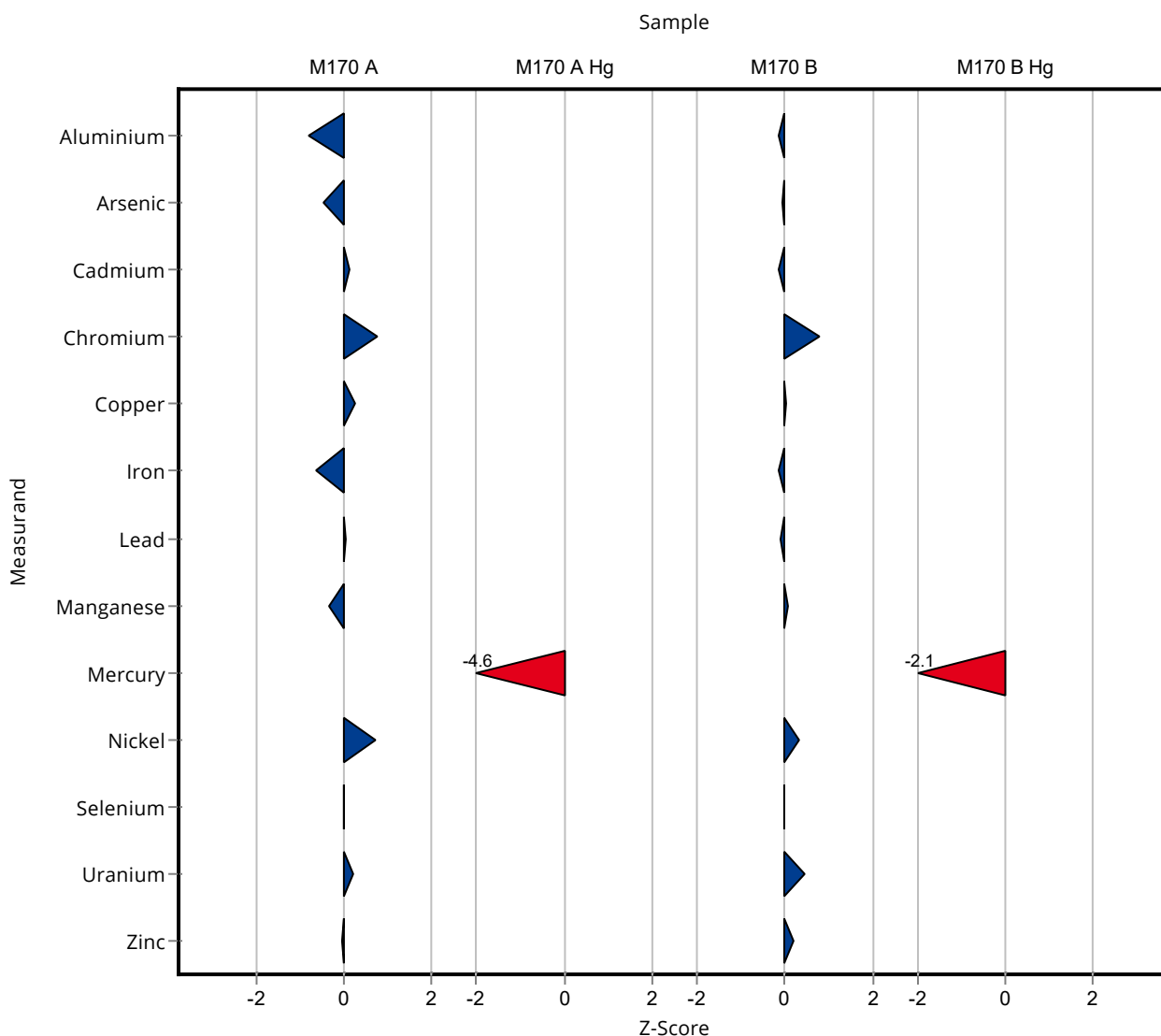
Summary of results Metals and trace elements M170

Labcode: LC0031

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Zinc	µg/l	99.4 ± 2.59	101.019 ± 7.071	8.94	102	0.18

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Mercury	µg/l	0.792 ± 0.0251	0.5573 ± 0.0836	0.111	70.3	-2.12



Sample: M170A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	13.4 ± 0.546	12.292 ± 2.458	1.34	92	-0.22
Arsenic	µg/l	1.28 ± 0.0432	1.203 ± 0.18	0.166	94.2	-0.20
Cadmium	µg/l	0.423 ± 0.0105	0.428 ± 0.0637	0.0423	101	0.04
Chromium	µg/l	1.97 ± 0.0625	2.099 ± 0.315	0.168	106	0.20
Copper	µg/l	9.74 ± 0.205	9.943 ± 1.491	0.876	102	0.07
Iron	µg/l	27.1 ± 1.21	25.28 ± 3.792	2.98	93.3	-0.24
Lead	µg/l	1.22 ± 0.0465	1.232 ± 0.185	0.183	101	0.03
Manganese	µg/l	17.3 ± 0.596	16.857 ± 2.523	1.24	97.5	-0.09
Nickel	µg/l	2.17 ± 0.0698	2.354 ± 0.353	0.26	108	0.26
Selenium	µg/l	4.24 ± 0.17	4.234 ± 0.635	0.509	99.8	-0.01
Uranium	µg/l	1.18 ± 0.0201	1.195 ± 0.179	0.0777	101	0.05
Zinc	µg/l	394 ± 13	392.606 ± 27.44	35.4	99.7	-0.02

Sample: M170AHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.25 ± 0.00994	0.0891 ± 0.0134	0.0351	35.6	-5.64

Sample: M170B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Aluminium	µg/l	63.3 ± 1.06	62.298 ± 6.23	6.33	98.4	-0.08
Arsenic	µg/l	5.14 ± 0.0899	5.1 ± 0.765	0.668	99.2	-0.03
Cadmium	µg/l	2.76 ± 0.0512	2.721 ± 0.408	0.276	98.6	-0.05
Chromium	µg/l	1.89 ± 0.0697	2.011 ± 0.302	0.16	107	0.20
Copper	µg/l	14.8 ± 0.283	14.88 ± 1.488	1.34	100	0.02

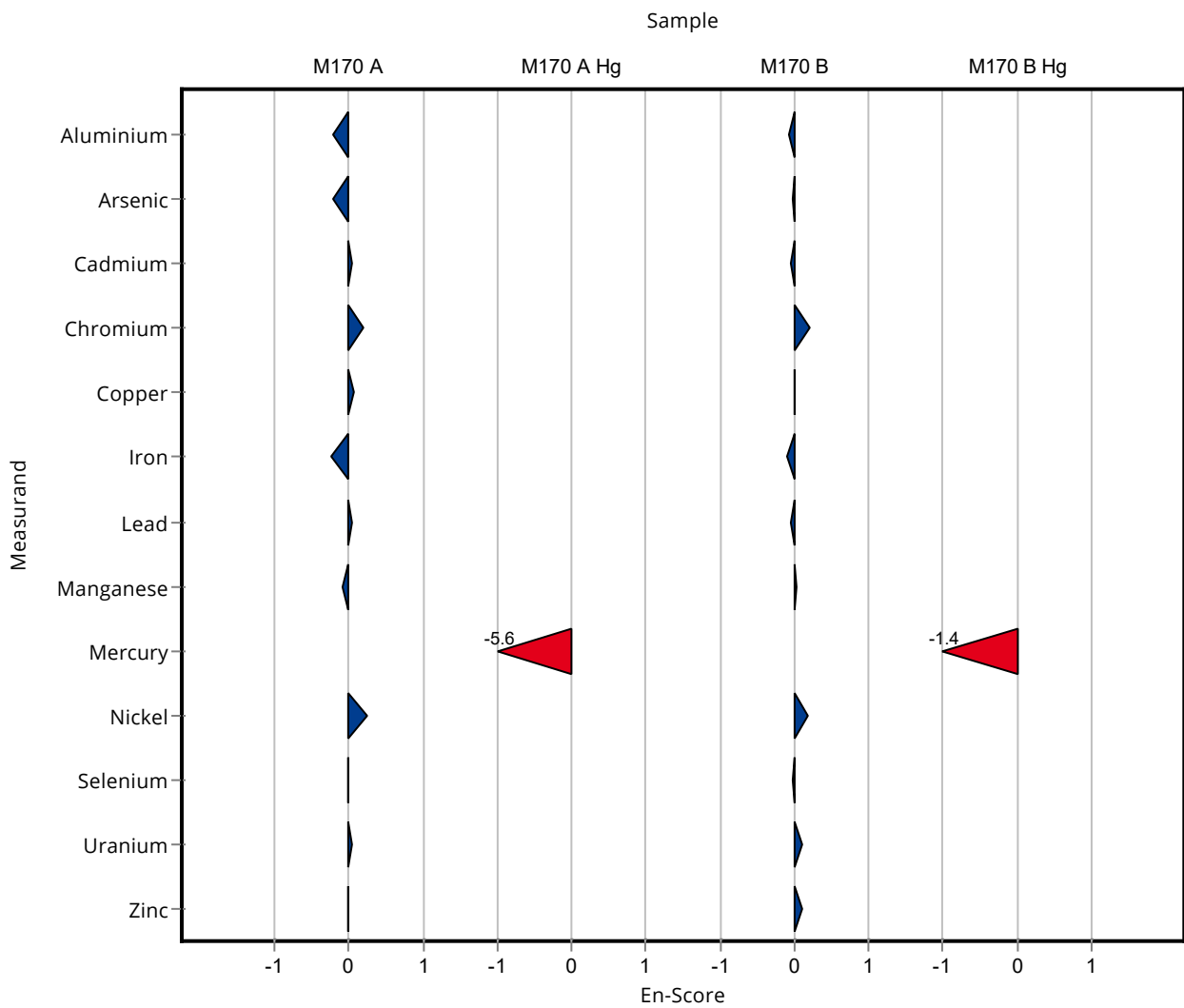
Summary of results Metals and trace elements M170 - En-Score

Labcode: LC0031

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Iron	µg/l	99.3 ± 2.38	97.769 ± 6.843	10.9	98.5	-0.11
Lead	µg/l	3.92 ± 0.0984	3.853 ± 0.578	0.588	98.3	-0.06
Manganese	µg/l	21.5 ± 0.422	21.587 ± 3.238	1.55	101	0.02
Nickel	µg/l	16.7 ± 0.345	17.37 ± 1.737	2.01	104	0.19
Selenium	µg/l	4.46 ± 0.123	4.447 ± 0.667	0.535	99.7	-0.01
Uranium	µg/l	1.83 ± 0.0526	1.885 ± 0.283	0.121	103	0.10
Zinc	µg/l	99.4 ± 2.59	101.019 ± 7.071	8.94	102	0.11

Sample: M170BHG

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Mercury	µg/l	0.792 ± 0.0251	0.5573 ± 0.0836	0.111	70.3	-1.39



E9. Methodenübersicht / Overview of methods

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0001	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170A	ICP-OES; EN ISO 11885				ICP-OES; EN ISO 11885
LC0003	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0005	M170A			GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586
LC0006	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0009	M170A					
LC0010	M170A	ICP-OES; EN ISO 11885; E22	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0011	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0012	M170A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0013	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0014	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Iron	Manganese	Nickel	Lead
LC0001	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885		
LC0003	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0005	M170A		GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586
LC0006	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0009	M170A				
LC0010	M170A	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0011	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0012	M170A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0013	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0014	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Selenium	Uranium	Zinc	Mercury (M170AHG)
LC0001	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170A				
LC0003	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170A	ICP-OES; EN ISO 11885		ICP-OES; EN ISO 11885	AFS; EN ISO 17852
LC0005	M170A			GF-AAS; EN ISO 15586	AFS; EN ISO 17852
LC0006	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170A	ICP-OES; EN ISO 11885		ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846; E12
LC0009	M170A				
LC0010	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-OES; EN ISO 11885; E22	AFS; EN ISO 17852; E35
LC0011	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0012	M170A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	CV-AAS; EN 1483
LC0013	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	CV-AAS; EN ISO 12846
LC0014	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170A	ICP-MS; EN ISO 17294-2		ICP-MS; EN ISO 17294-2	

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0017	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170A	ICP-OES; EN ISO 11885; E22				ICP-OES; EN ISO 11885; E22
LC0019	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170A	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294
LC0021	M170A	ICP-OES;	AAS;	AAS;	AAS;	AAS;
LC0022	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170A	GF-AAS; EN ISO 12020	GF-AAS; DIN 38405-35	GF-AAS; EN ISO 5961	GF-AAS; EN 1233	GF-AAS; DIN 38406-7
LC0028	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0029	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0030	M170A	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22
LC0031	M170A	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Iron	Manganese	Nickel	Lead
LC0017	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170A	ICP-OES; EN ISO 11885; E22			
LC0019	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0021	M170A	ICP-OES;	ICP-OES;	AAS;	AAS;
LC0022	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170A	F-AAS; DIN 38406-32	F-AAS; DIN 38406-33	GF-AAS; DIN 38406-11	GF-AAS; DIN 38406-6
LC0028	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0029	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0030	M170A	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22
LC0031	M170A	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Selenium	Uranium	Zinc	Mercury (M170AHG)
LC0017	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170A			ICP-OES; EN ISO 11885; E22	
LC0019	M170A	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170A	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846
LC0021	M170A	AAS;		ICP-OES;	
LC0022	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170A	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170A			F-AAS; DIN 38406-8	CV-AAS; EN 1483; Flow-injection
LC0028	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	AFS; EN ISO 17852
LC0029	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	AFS; EN ISO 17852
LC0030	M170A	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	CV-AAS; EN ISO 12846; E12
LC0031	M170A	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-OES; EN ISO 11885	AFS; EN ISO 17852

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0001	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170B	ICP-OES; EN ISO 11885				ICP-OES; EN ISO 11885
LC0003	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0005	M170B			GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586
LC0006	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0009	M170B					
LC0010	M170B	ICP-OES; EN ISO 11885; E22	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0011	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0012	M170B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0013	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0014	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Iron	Manganese	Nickel	Lead
LC0001	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885		
LC0003	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0005	M170B		GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586	GF-AAS; EN ISO 15586
LC0006	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885
LC0009	M170B				
LC0010	M170B	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0011	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0012	M170B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0013	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0014	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Selenium	Uranium	Zinc	Mercury (M170BHG)
LC0001	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0002	M170B				
LC0003	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0004	M170B	ICP-OES; EN ISO 11885		ICP-OES; EN ISO 11885	AFS; EN ISO 17852
LC0005	M170B			GF-AAS; EN ISO 15586	AFS; EN ISO 17852
LC0006	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0007	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0008	M170B	ICP-OES; EN ISO 11885		ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846; E12
LC0009	M170B				
LC0010	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-OES; EN ISO 11885; E22	AFS; EN ISO 17852; E35
LC0011	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	
LC0012	M170B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	CV-AAS; EN 1483
LC0013	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	CV-AAS; EN ISO 12846
LC0014	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0015	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0016	M170B	ICP-MS; EN ISO 17294-2		ICP-MS; EN ISO 17294-2	

LabCode	Sample	Aluminium	Arsenic	Cadmium	Chromium	Copper
LC0017	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170B	ICP-OES; EN ISO 11885; E22				ICP-OES; EN ISO 11885; E22
LC0019	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170B	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294
LC0021	M170B	ICP-OES;	AAS;	AAS;	AAS;	AAS;
LC0022	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170B	GF-AAS; EN ISO 12020	GF-AAS; DIN 38405-35	GF-AAS; EN ISO 5961	GF-AAS; EN 1233	GF-AAS; DIN 38406-7
LC0028	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0029	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0030	M170B	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22
LC0031	M170B	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Iron	Manganese	Nickel	Lead
LC0017	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170B	ICP-OES; EN ISO 11885; E22			
LC0019	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294
LC0021	M170B	ICP-OES;	ICP-OES;	AAS;	AAS;
LC0022	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170B	F-AAS; DIN 38406-32	F-AAS; DIN 38406-33	GF-AAS; DIN 38406-11	GF-AAS; DIN 38406-6
LC0028	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0029	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0030	M170B	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22
LC0031	M170B	ICP-OES; EN ISO 11885	ICP-OES; EN ISO 11885	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2

LabCode	Sample	Selenium	Uranium	Zinc	Mercury (M170AHG)
LC0017	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0018	M170B			ICP-OES; EN ISO 11885; E22	
LC0019	M170B	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29	ICP-MS; EN ISO 17294-2; E29
LC0020	M170B	ICP-MS; EN ISO 17294	ICP-MS; EN ISO 17294	ICP-OES; EN ISO 11885	CV-AAS; EN ISO 12846
LC0021	M170B	AAS;		ICP-OES;	
LC0022	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0023	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0024	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0025	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2
LC0026	M170B	ICP-MS;	ICP-MS;	ICP-MS;	ICP-MS;
LC0027	M170B			F-AAS; DIN 38406-8	CV-AAS; EN 1483; Flow-injection
LC0028	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	AFS; EN ISO 17852
LC0029	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	AFS; EN ISO 17852
LC0030	M170B	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	ICP-OES; EN ISO 11885; E22	CV-AAS; EN ISO 12846; E12
LC0031	M170B	ICP-MS; EN ISO 17294-2	ICP-MS; EN ISO 17294-2	ICP-OES; EN ISO 11885	AFS; EN ISO 17852