

Proficiency Testing Scheme für die Wasseranalytik - Realproben N165 Nährstoffe

Proficiency Testing Scheme for Water Analysis - natural water samples N165 Nutrients/Major ions

BERICHT / REPORT

Probenversand / Sample dispatch: 07.02.2023

Ausgabe/Edition 1: 15.03.2023

Dieser Report umfasst 551 Seiten.
This report comprises 551 pages.

Durchführung gemäß Verfahren VA_1002_PT_CA (2021-01-25).
In accordance with the procedure VA_1002_PT_CA (2021-01-25).



Anbieter der Eignungsprüfung / Provider of the proficiency test:

Anschrift / Address: Umweltbundesamt GmbH
Spittelauer Lände 5
1090 Vienna/Austria

E-Mail: ringversuche@umweltbundesamt.at

Tel: +43 (0) 1 31304 4334

Website deutsch: www.umweltbundesamt.at/ringversuche
www.imatest.at

Website english: <https://www.umweltbundesamt.at/en/proficiency-testing>
www.imatest.eu

Koordination und technische Leitung Eignungsprüfungen / coordinator and technical management:

Dipl.-Ing. Monika Denner

Verantwortlich für die Durchführung der Eignungsprüfungsrunde / Responsible for the implementation of this proficiency test:

Dipl.-Ing. Johannes Urteil, Martha Schmid MSc unter Mitarbeit von Mag. Vito Satrapa
Tel.: +43 (0) 1 31304 4334

Verantwortlich für die Freigabe des Berichts / Responsible for authorizing the report:

Dipl.-Ing. Monika Denner

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

Inhaltsverzeichnis / Table of Contents

| | |
|--|----|
| D1. Beschreibung des Ringversuchs..... | 5 |
| D1.1. Ausgestaltung und Durchführung | 5 |
| D1.2. Beschreibung der Prüfgegenstände | 5 |
| D1.3. Anweisungen für die Teilnehmenden..... | 6 |
| D1.4. Kontrollanalytik zur Bewertung der Homogenität | 6 |
| D1.5. Trendtest zur Bewertung der Stabilität..... | 6 |
| D1.6. Ermittlung des zugewiesenen Wertes..... | 7 |
| D2. Kriterien der Leistungsbewertung | 8 |
| D2.1. Leistungskriterium z-Score..... | 8 |
| D2.2. Leistungskriterium E _n -Score | 8 |
| D2.3. Leistungsbewertung z-Score und E _n -Score..... | 9 |
| D3. Darstellung und Interpretation der Messergebnisse..... | 9 |
| D4. Anmerkungen zur Auswertung..... | 10 |
| D5. Erläuterung zu Tabellen und Grafiken | 11 |
| D5.1. Angaben und Abkürzungen in Tabellen..... | 11 |
| D5.2. Graphische Darstellung der Ergebnisse | 14 |
| D6. Zusammenfassung | 17 |
| D6.1. Tabelle der zugewiesenen Werte | 17 |
| D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse .. | 18 |
| E1. Description of the proficiency test | 20 |
| E1.1. Design and implementation | 20 |
| E1.2. Description of the proficiency test items | 20 |
| E1.3. Instructions for the participants..... | 21 |
| E1.4. Control testing for homogeneity evaluation..... | 21 |
| E1.5. Trend test for stability evaluation | 21 |
| E1.6. Determination of the assigned values..... | 22 |
| E2. Criteria of performance evaluation | 23 |
| E2.1. Performance criterion z-Score | 23 |
| E2.2. Performance criterion E _n -Score | 23 |
| E2.3. Performance evaluation z-Score and E _n -Score | 24 |
| E3. Representation and interpretation of measurement results..... | 24 |
| E4. Explanatory notes | 25 |

| | |
|--|-----|
| E5. Annotations on tables and charts | 26 |
| E5.1. Information and abbreviations in tables | 26 |
| E5.2. Graphical presentation of results | 28 |
| E6. Summary | 31 |
| E6.1. Table of assigned values | 31 |
| E6.2. Summary of results, after removal of outliers..... | 32 |
| E7. Parameterorientierte Auswertung / Parameter oriented report..... | 34 |
| E8. Labororientierte Auswertung / Laboratory oriented report..... | 225 |
| E9. Methodenübersicht / Overview of methods | 538 |

D1. Beschreibung des Ringversuchs

D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 52
- Anzahl der übermittelten Datensätze: 52
- Probenversand: 07.02.2023
- Einsendeschluss der Daten: 07.03.2023

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 02.02.2023. Das Probenmaterial umfasste:

- 1 Probe Grundwasser (N165 A)
- 1 Probe Oberflächenwasser (N165 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 Stabilisierung erfolgte durch Kühlung bzw. durch Zusatz von Salzsäure auf pH < 2 (für DOC).

Die homogenen Prüfgegenstände wurden am 07.02.2023 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je ca. 1250 ml, abgefüllt in je 2 x 500 ml PET-Flaschen und 1 x 250 ml LDPE-Flaschen (für DOC).

D1.3. Anweisungen für die Teilnehmenden

Aus Stabilitätsgründen wurde empfohlen bis spätestens 15.02.2023 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.

Die Bestimmung der Parameter wurde an ein externes Labor (akkreditiert nach EN ISO/IEC 17025 für alle angeführten Parameter) im Unterauftrag vergeben (verdeckte Vergabe, Proben anonymisiert) und erfolgte zeitnah zum Probenversand.

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 2021.

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 07.03.2023 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 2021 (RSDpooled) bzw. aus den ausreißerbereinigten Ergebnissen der Teilnehmenden (sR) des aktuellen Ringversuchs (falls noch weniger als 6 vorangegangene Runden für A und B-Proben vorlagen). 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 9 Eignungsprüfungsrunden (2013–2021) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Bor, Magnesium und Orthophosphat (als PO_4) bei Probe N165 A und Parameter Bor und Kalium bei Probe N165 B:

Die auf Basis der Ergebnisse der Teilnehmenden berechneten Sollwerte lagen außerhalb der Messunsicherheit des Kontrollwertes bzw. kleiner Bestimmungsgrenze im Fall von Bor (N165 A und N165 B) 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.

Parameter Calcium, Ammonium (als NH₄), Orthophosphat (als PO₄) und DOC bei Probe N165 A und Parameter Bor, Orthophosphat (als PO₄) und Hydrogenkarbonat bei Probe N165 B:

Für diese Parameter wurden relative Vergleichsstandardabweichungen (vR) der Gruppe der akkreditierten Teilnehmenden von 3.5 % für Calcium Probe N165 A, 18 % für Ammonium Probe N165 A, 30 % für Orthophosphat (als PO₄) Probe N165 A, 14 % für DOC Probe N165 A, 15 % für Bor Probe N165 B, 11 % für Orthophosphat (als PO₄) Probe N165 B und 2.8 % für Hydrogenkarbonat Probe N165 B für die Bewertung gewählt.

Bei den restlichen 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) |

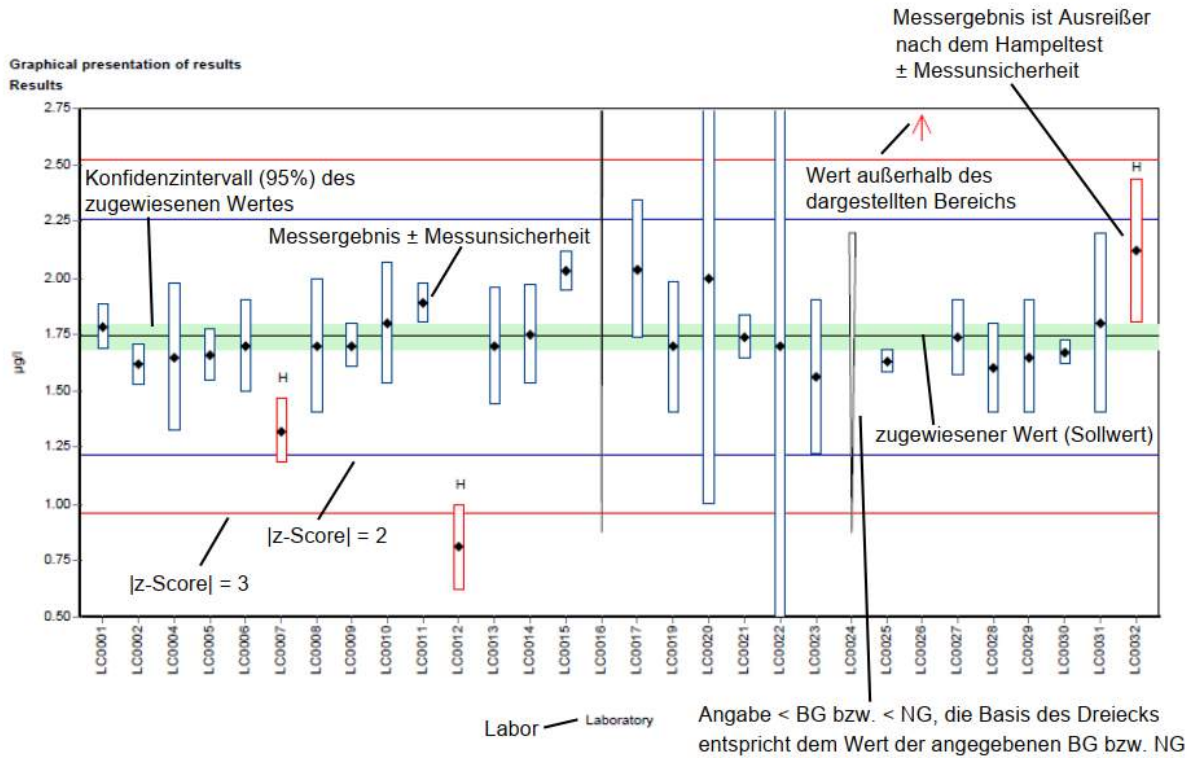
| | |
|-------------------------------|---|
| vR | relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen) |
| Kontrollwert \pm U (k=2) | Mittelwert der Kontrollmessungen des Veranstalters \pm 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. |
| \pm 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 Bestimmungs- bzw. Nachweisgrenze 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

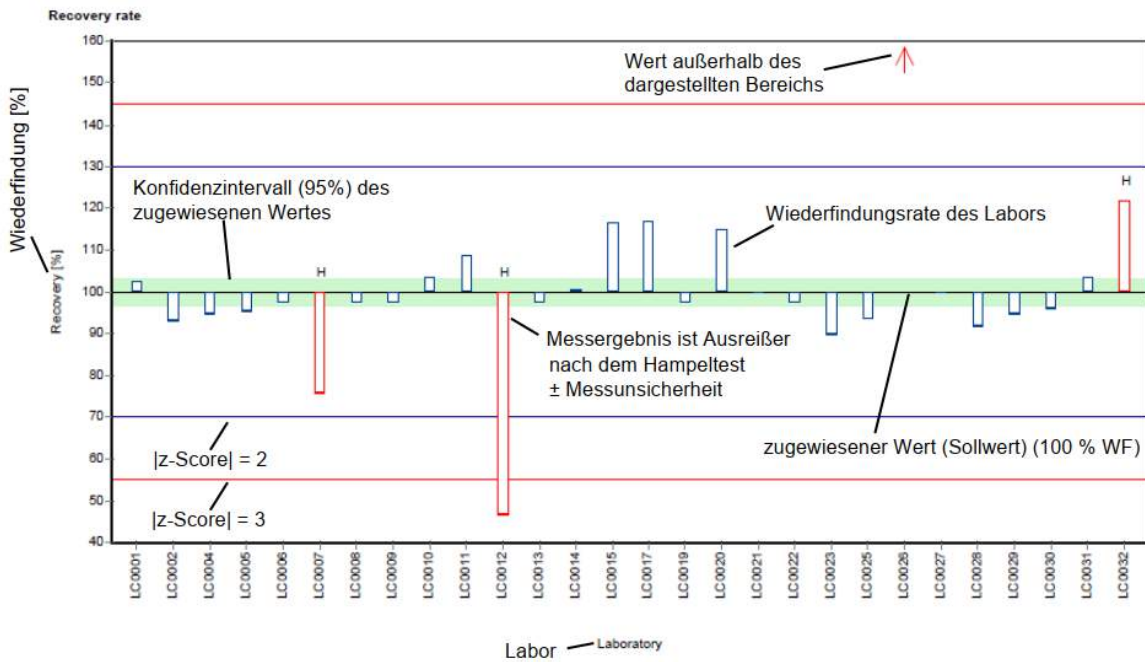
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

Beispieldiagramm: Messwerte



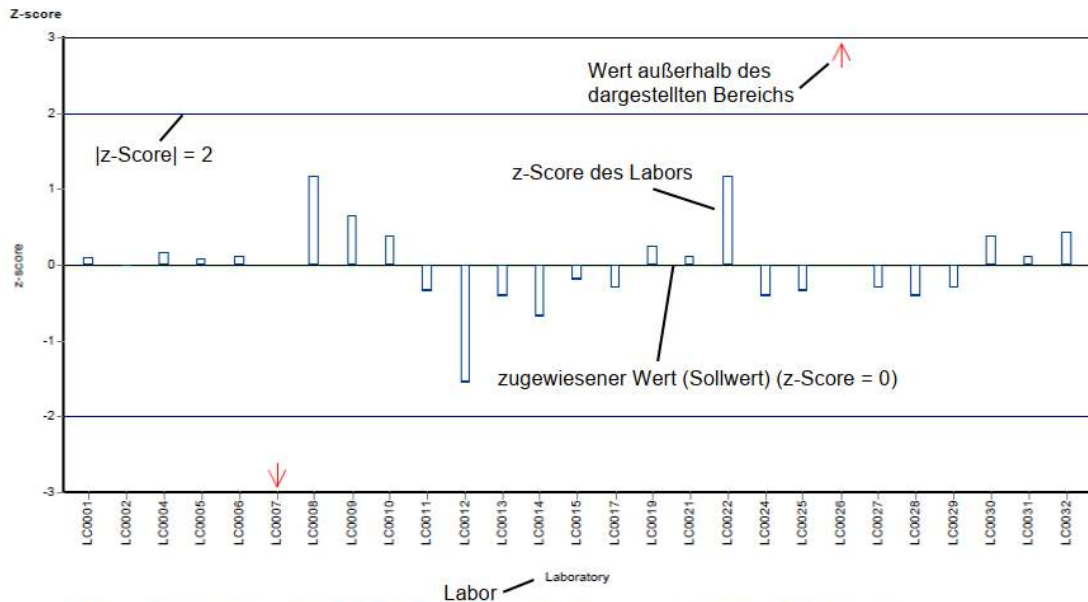
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



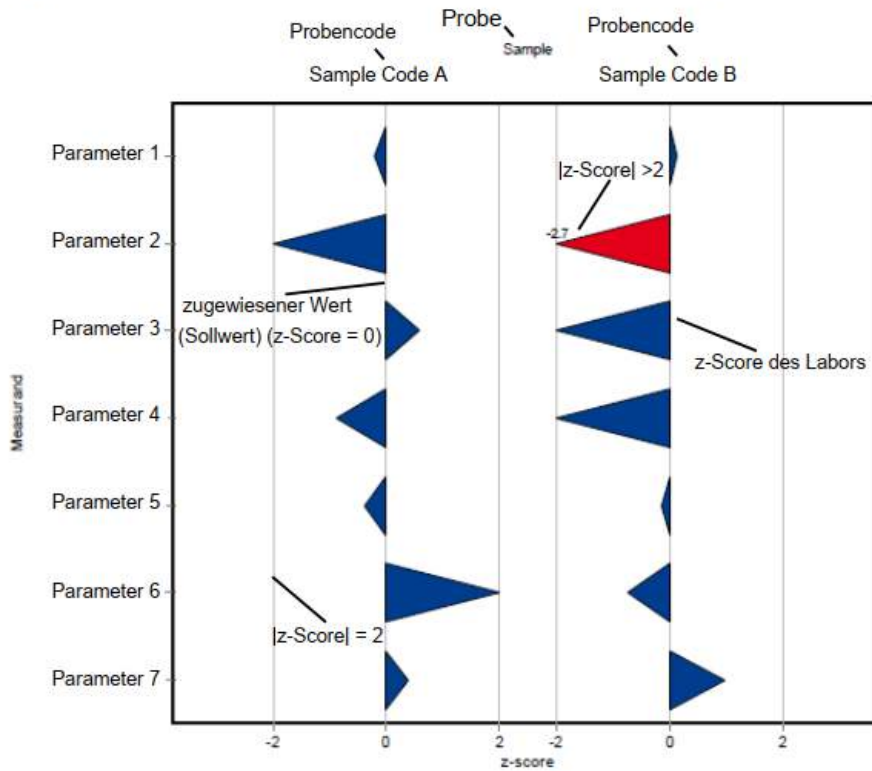
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score

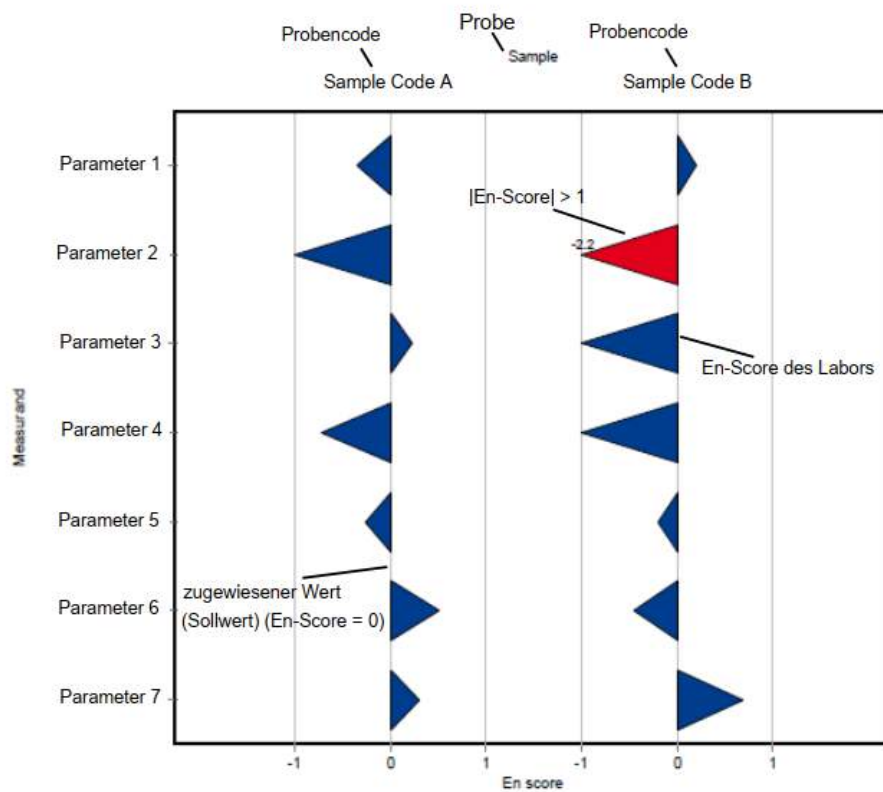


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score (labororientierte Auswertung)



Beispieldiagramm: En-Score (labororientierte Auswertung)



D6. Zusammenfassung

D6.1. Tabelle der zugewiesenen Werte

| Parameter | Probe | Einheit | zugewiesener | ± | U (k=2) | Kriterium | Kriterium [%] |
|--------------------------------------|------------|---------|--------------|---|---------|-----------|---------------|
| Säurekapazität Ks 4,3 | N165 A | mmol/l | 7.33 | ± | 0.0456 | 0.147 | 2 |
| | N165 B | mmol/l | 3.35 | ± | 0.0214 | 0.0671 | 2 |
| Ammonium (als NH ₄) | N165 A | mg/l | 0.0555 | ± | 0.00364 | 0.00999 | 18 |
| | N165 B | mg/l | 0.166 | ± | 0.00573 | 0.0199 | 12 |
| Bor | N165 A | mg/l | 0.0587 | ± | 0.00178 | 0.00646 | 11 |
| | N165 B | mg/l | 0.0144 | ± | 0.00123 | 0.00215 | 15 |
| Calcium | N165 A | mg/l | 124 | ± | 1.6 | 4.34 | 3.5 |
| | N165 B | mg/l | 60.4 | ± | 0.834 | 1.87 | 3.1 |
| Chlorid | N165 A | mg/l | 57.6 | ± | 0.558 | 2.3 | 4 |
| | N165 B | mg/l | 25.6 | ± | 0.265 | 1.03 | 4 |
| DOC (berechnet als C) | N165 A DOC | mg/l | 1.38 | ± | 0.0704 | 0.193 | 14 |
| | N165 B DOC | mg/l | 3.37 | ± | 0.0669 | 0.337 | 10 |
| elektr. Leitfähigkeit (25°C) | N165 A | µS/cm | 916 | ± | 3.4 | 11.9 | 1.3 |
| | N165 B | µS/cm | 480 | ± | 1.46 | 6.24 | 1.3 |
| Hydrogencarbonat | N165 A | mg/l | 445 | ± | 2.85 | 8.9 | 2 |
| | N165 B | mg/l | 203 | ± | 2.03 | 5.68 | 2.8 |
| Magnesium | N165 A | mg/l | 29.9 | ± | 0.424 | 1.19 | 4 |
| | N165 B | mg/l | 14.2 | ± | 0.198 | 0.57 | 4 |
| Nitrat (als NO ₃) | N165 A | mg/l | 14.3 | ± | 0.17 | 0.716 | 5 |
| | N165 B | mg/l | 15.8 | ± | 0.207 | 0.791 | 5 |
| Nitrit (als NO ₂) | N165 A | mg/l | 0.208 | ± | 0.00304 | 0.011 | 5.3 |
| | N165 B | mg/l | 0.242 | ± | 0.00388 | 0.0128 | 5.3 |
| Orthophosphat (als PO ₄) | N165 A | mg/l | 0.131 | ± | 0.0163 | 0.0392 | 30 |
| | N165 B | mg/l | 0.151 | ± | 0.0066 | 0.0166 | 11 |
| pH-Wert | N165 A | - | 7.68 | ± | 0.034 | 0.154 | 2 |
| | N165 B | - | 7.84 | ± | 0.0268 | 0.157 | 2 |
| Kalium | N165 A | mg/l | 4.79 | ± | 0.051 | 0.249 | 5.2 |
| | N165 B | mg/l | 2.38 | ± | 0.0289 | 0.124 | 5.2 |
| Natrium | N165 A | mg/l | 26.9 | ± | 0.356 | 0.914 | 3.4 |
| | N165 B | mg/l | 15.4 | ± | 0.239 | 0.525 | 3.4 |
| Sulfat (als SO ₄) | N165 A | mg/l | 41.6 | ± | 0.241 | 1.37 | 3.3 |
| | N165 B | mg/l | 30.8 | ± | 0.304 | 1.02 | 3.3 |
| Gesamt-P (als PO ₄) | N165 A | mg/l | 0.432 | ± | 0.012 | 0.0324 | 7.5 |
| | N165 B | mg/l | 1.77 | ± | 0.0469 | 0.133 | 7.5 |
| Gesamthärte | N165 A | mmol/l | 4.36 | ± | 0.0397 | 0.131 | 3 |
| | N165 B | mmol/l | 2.11 | ± | 0.0216 | 0.0632 | 3 |
| Gesamtstickstoff | N165 A | mg/l | 3.49 | ± | 0.151 | 0.29 | 8.3 |
| | N165 B | mg/l | 3.89 | ± | 0.119 | 0.323 | 8.3 |

D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

| Parameter | Probe | Anzahl Labors für Berechnung | Anzahl Ausreißer Labors | Einheit | Mittelwert | ± VB (99%) | Minimum | Maximum | sR | vR [%] |
|--------------------------------------|------------|------------------------------|-------------------------|---------|------------|------------|---------|---------|---------|--------|
| Säurekapazität Ks 4,3 | N165 A | 37 | 3 | mmol/l | 7.33 | ± 0.0684 | 6.96 | 7.64 | 0.139 | 1.9 |
| | N165 B | 36 | 4 | mmol/l | 3.35 | ± 0.032 | 3.18 | 3.5 | 0.0641 | 1.9 |
| Ammonium (als NH ₄) | N165 A | 29 | 3 | mg/l | 0.0555 | ± 0.00547 | 0.04 | 0.079 | 0.00981 | 18 |
| | N165 B | 31 | 4 | mg/l | 0.166 | ± 0.0086 | 0.12 | 0.203 | 0.016 | 9.6 |
| Bor | N165 A | 19 | 1 | mg/l | 0.058 | ± 0.00281 | 0.0506 | 0.065 | 0.00409 | 7 |
| | N165 B | 14 | 1 | mg/l | 0.0145 | ± 0.00207 | 0.01 | 0.0193 | 0.00258 | 18 |
| Calcium | N165 A | 33 | 0 | mg/l | 124 | ± 2.4 | 113 | 132 | 4.6 | 3.7 |
| | N165 B | 33 | 0 | mg/l | 60.4 | ± 1.25 | 54.5 | 65.6 | 2.39 | 4 |
| Chlorid | N165 A | 36 | 3 | mg/l | 57.6 | ± 0.837 | 53.4 | 60.7 | 1.67 | 2.9 |
| | N165 B | 37 | 2 | mg/l | 25.6 | ± 0.398 | 23.9 | 27.1 | 0.806 | 3.1 |
| DOC (berechnet als C) | N165 A DOC | 31 | 1 | mg/l | 1.38 | ± 0.106 | 1.01 | 1.79 | 0.196 | 14 |
| | N165 B DOC | 30 | 2 | mg/l | 3.37 | ± 0.1 | 3 | 3.75 | 0.183 | 5.4 |
| elektr. Leitfähigkeit (25°C) | N165 A | 41 | 4 | µS/cm | 916 | ± 5.1 | 889 | 942 | 10.9 | 1.2 |
| | N165 B | 41 | 4 | µS/cm | 480 | ± 2.2 | 471 | 491 | 4.69 | 0.98 |
| Hydrogencarbonat | N165 A | 29 | 1 | mg/l | 445 | ± 4.27 | 430 | 463 | 7.66 | 1.7 |
| | N165 B | 28 | 2 | mg/l | 203 | ± 3.04 | 190 | 216 | 5.36 | 2.6 |
| Magnesium | N165 A | 32 | 1 | mg/l | 29.9 | ± 0.636 | 27.5 | 32.8 | 1.2 | 4 |
| | N165 B | 32 | 1 | mg/l | 14.2 | ± 0.298 | 13 | 15.5 | 0.561 | 3.9 |
| Nitrat (als NO ₃) | N165 A | 35 | 4 | mg/l | 14.3 | ± 0.255 | 13 | 15.2 | 0.502 | 3.5 |
| | N165 B | 37 | 2 | mg/l | 15.8 | ± 0.311 | 14.4 | 17.3 | 0.63 | 4 |
| Nitrit (als NO ₂) | N165 A | 33 | 5 | mg/l | 0.208 | ± 0.00455 | 0.188 | 0.231 | 0.00872 | 4.2 |
| | N165 B | 32 | 6 | mg/l | 0.242 | ± 0.00582 | 0.221 | 0.272 | 0.011 | 4.5 |
| Orthophosphat (als PO ₄) | N165 A | 32 | 1 | mg/l | 0.133 | ± 0.0202 | 0.06 | 0.18 | 0.0381 | 29 |
| | N165 B | 33 | 1 | mg/l | 0.151 | ± 0.0099 | 0.103 | 0.18 | 0.019 | 13 |
| pH-Wert | N165 A | 44 | 1 | - | 7.68 | ± 0.0511 | 7.44 | 7.9 | 0.113 | 1.5 |
| | N165 B | 44 | 1 | - | 7.84 | ± 0.0402 | 7.65 | 8.01 | 0.089 | 1.1 |
| Kalium | N165 A | 31 | 1 | mg/l | 4.79 | ± 0.0765 | 4.49 | 5.12 | 0.142 | 3 |
| | N165 B | 31 | 1 | mg/l | 2.36 | ± 0.0458 | 2.15 | 2.5 | 0.085 | 3.6 |
| Natrium | N165 A | 31 | 2 | mg/l | 26.9 | ± 0.533 | 24.9 | 29.3 | 0.99 | 3.7 |
| | N165 B | 32 | 1 | mg/l | 15.4 | ± 0.358 | 14 | 17.2 | 0.675 | 4.4 |
| Sulfat (als SO ₄) | N165 A | 32 | 5 | mg/l | 41.6 | ± 0.361 | 40.3 | 43.6 | 0.682 | 1.6 |

| Parameter | Probe | Anzahl Labors für Berechnung | Anzahl Ausreißer Labors | Einheit | Mittelwert | ± VB (99%) | Minimum | Maximum | sR | vR [%] |
|---------------------------------|--------|------------------------------|-------------------------|---------|------------|------------|---------|---------|--------|--------|
| Sulfat (als SO ₄) | N165 B | 33 | 4 | mg/l | 30.8 | ± 0.456 | 28.6 | 32.1 | 0.872 | 2.8 |
| Gesamt-P (als PO ₄) | N165 A | 27 | 6 | mg/l | 0.432 | ± 0.018 | 0.363 | 0.508 | 0.0312 | 7.2 |
| | N165 B | 32 | 2 | mg/l | 1.77 | ± 0.0703 | 1.37 | 1.98 | 0.133 | 7.5 |
| Gesamthärte | N165 A | 29 | 4 | mmol/l | 4.36 | ± 0.0596 | 4.11 | 4.54 | 0.107 | 2.5 |
| | N165 B | 31 | 2 | mmol/l | 2.11 | ± 0.0324 | 1.94 | 2.23 | 0.0601 | 2.9 |
| Gesamtstickstoff | N165 A | 18 | 1 | mg/l | 3.49 | ± 0.227 | 3.02 | 4.37 | 0.321 | 9.2 |
| | N165 B | 17 | 2 | mg/l | 3.89 | ± 0.178 | 3.41 | 4.28 | 0.245 | 6.3 |

E1. Description of the proficiency test

E1.1. Design and implementation

- Number of registrations: 52
- Number of submitted data records: 52
- Dispatch of samples: February 7th, 2023
- Closing date for submission of data: March 7th, 2023

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 was carried out on 02nd of February 2023.

The following samples were made available

- 1 sample ground water (N165 A)
- 1 sample surface water (N165 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 cooling and by addition of hydrochloric acid to pH < 2 (for DOC only), respectively.

The homogeneous proficiency test items were dispatched on 07th of February 2023.

Each participant received:

- 2 samples each 1250 ml, filled in 2 x 500 ml PET bottles and 1 x 250 ml LDPE bottles (for DOC) respectively.

E1.3. Instructions for the participants

For reasons of stability, it was recommended to start the analysis by the 15th of February 2023 at the latest.

The participants are 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.

The determination of the parameters was performed at an external laboratory (accredited by EN ISO/IEC 17025) in subcontract (anonymous submission) and testing was performed 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 2021.

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 for real water samples 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 07th of March 2023. 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 2021 (as RSD pooled) or from the participants' results after removal of outliers (sR) in the current round (if less than 6 previous rounds for the parameters of real water samples A and B are available). 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 |
| \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 9 proficiency testing rounds (2013–2021) in real samples, evaluation criteria (RSDpool) were calculated.

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

Parameters Boron, Magnesium and Orthophosphate (as PO_4) sample N165 A and parameters Boron and Potassium sample N165 B:

The assigned values calculated based on the participant results were outside of the measurement uncertainty of the control test value or below determination limit (Boron – N165 A and N165 B) and thus traceability could not be proven by this procedure. Therefore, new assigned values were defined by the group of accredited participating laboratories after outlier-assessment.

Parameters Calcium, Ammonium (as NH_4), Orthophosphate (as PO_4) and DOC sample N165 A and parameters Boron, Orthophosphate (as PO_4) and Hydrogencarbonate sample N165 B:

For these parameters a reproducibility standard deviation (vR) from the accredited participating laboratories of 3.5 % for Calcium sample N165 A, 18 % for Ammonium sample N165 A, 30 % for Orthophosphate (as PO_4) sample N165 A, 14 % for DOC sample N165 A, 15 % for Boron sample N165 B, 11 % for Orthophosphate (as PO_4)

sample N165 B and 2.8 % for Hydrogencarbonate sample N165 B was chosen for 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

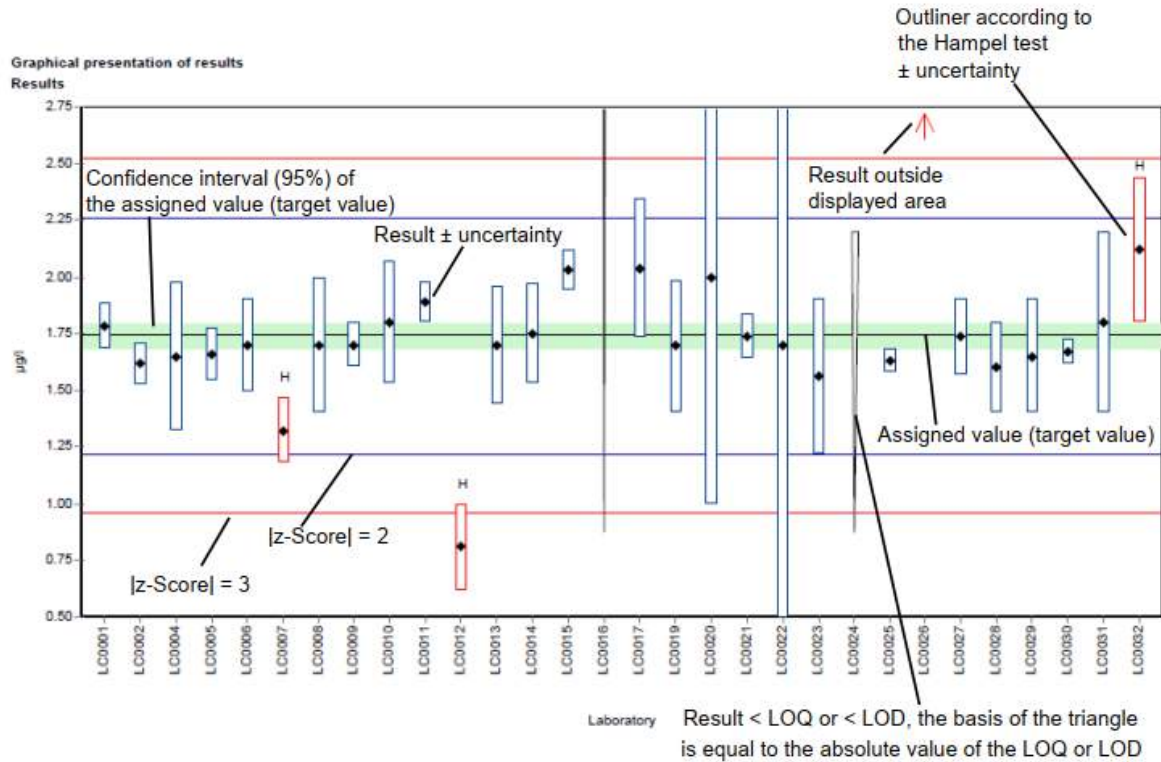
| | |
|------------------------------|---|
| Parameter | Analyte identifier |
| Sample | Sample identifier |
| Unit | Given unit for result and uncertainty (e.g. µg/l) |
| Assigned value | Target value for proficiency assessment of the participants (3 significant digits) |
| U (k=2) | Expanded uncertainty (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

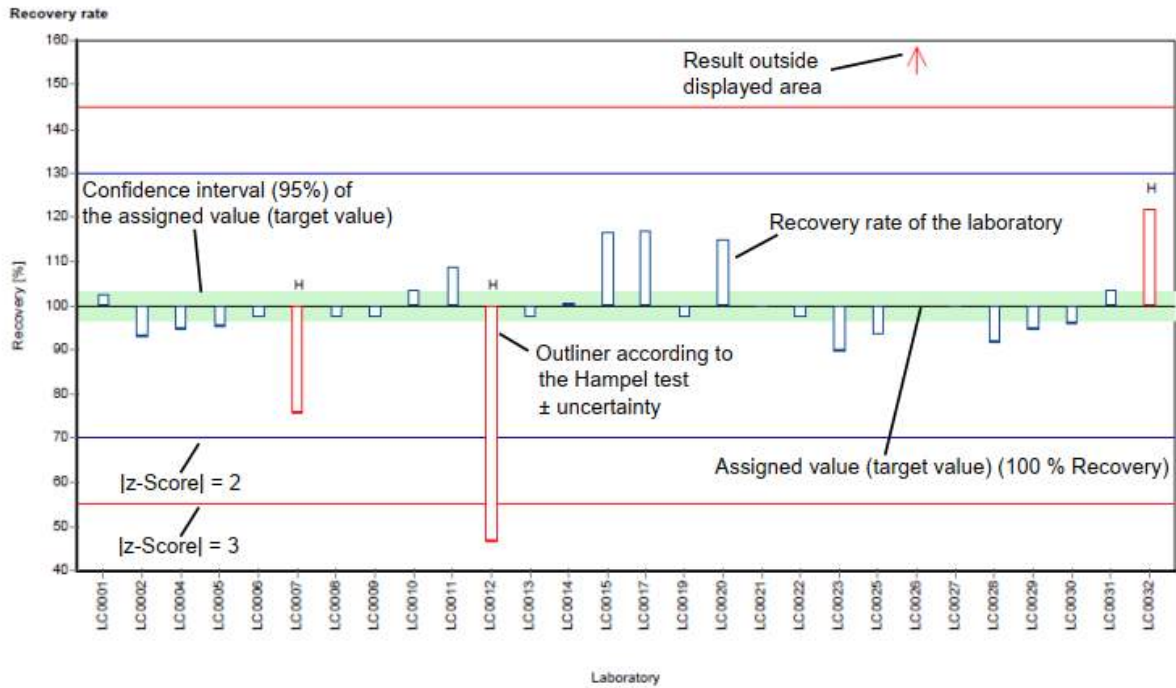
The graphic representation in the report is explained below by means of commented example diagrams:

Example chart: Results



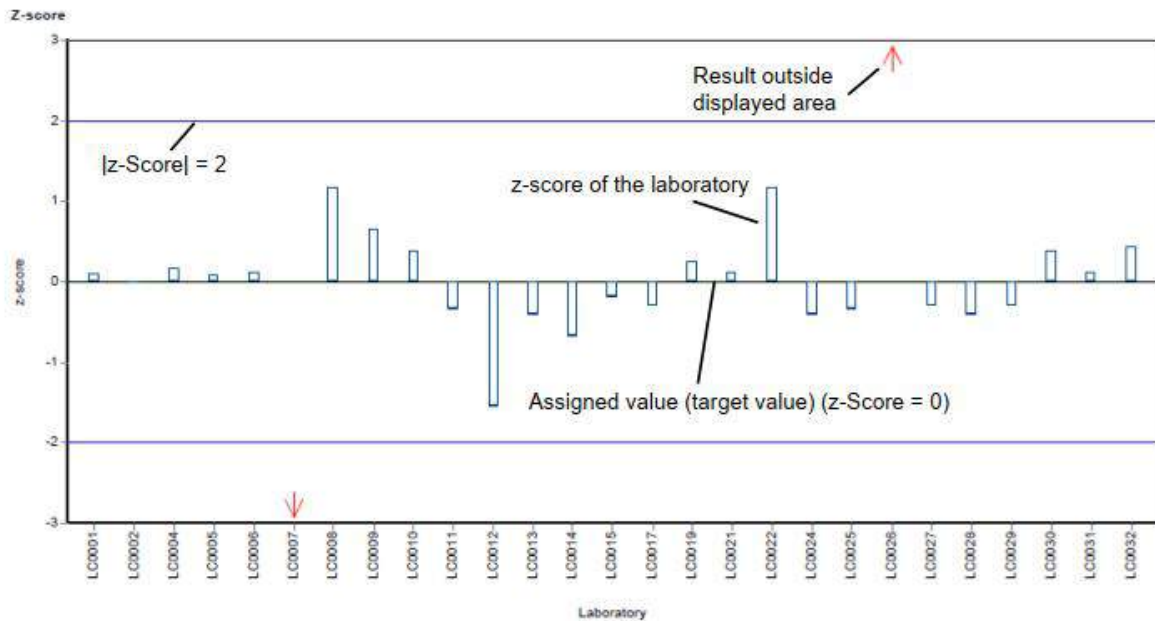
Different analysis methods are represented with different colors.

Example chart: Recovery



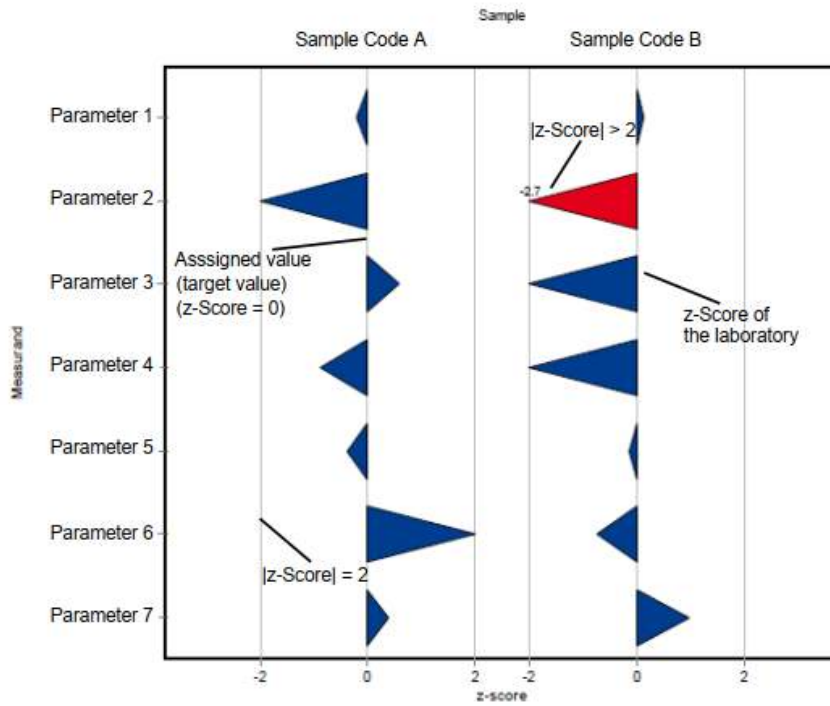
Different analysis methods are represented with different colors.

Example chart: z-Score

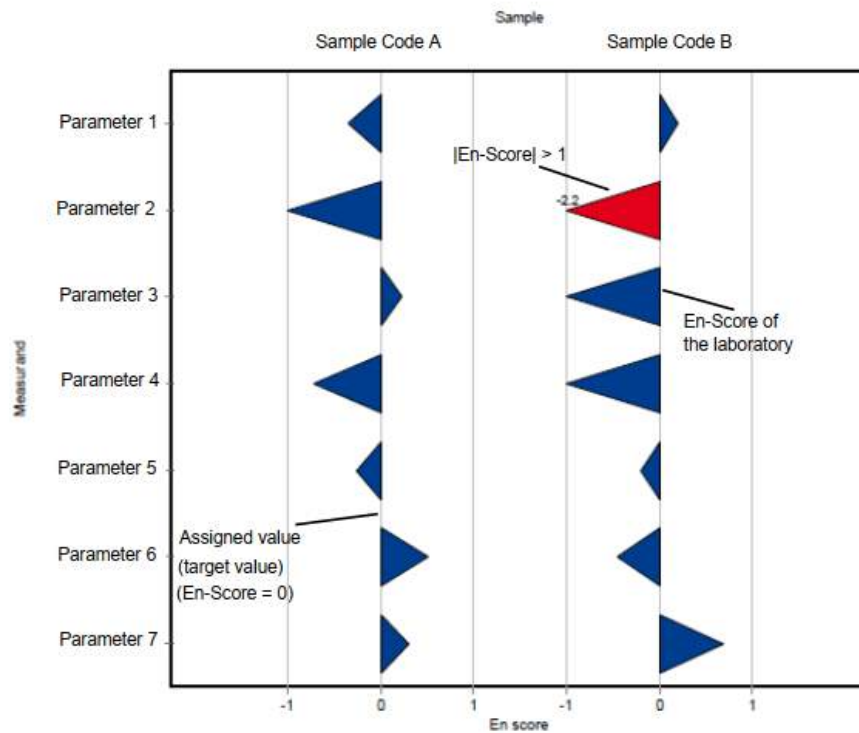


Different analysis methods are represented with different colors.

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 [%] |
|--------------------------------------|------------|--------|------------------|---------|-----------|---------------|
| Alkalinity Ks 4,3 | N165 A | mmol/l | 7.33 ± | 0.0456 | 0.147 | 2 |
| | N165 B | mmol/l | 3.35 ± | 0.0214 | 0.0671 | 2 |
| Ammonium (as NH ₄) | N165 A | mg/l | 0.0555 ± | 0.00364 | 0.00999 | 18 |
| | N165 B | mg/l | 0.166 ± | 0.00573 | 0.0199 | 12 |
| Boron | N165 A | mg/l | 0.0587 ± | 0.00178 | 0.00646 | 11 |
| | N165 B | mg/l | 0.0144 ± | 0.00123 | 0.00215 | 15 |
| Calcium | N165 A | mg/l | 124 ± | 1.6 | 4.34 | 3.5 |
| | N165 B | mg/l | 60.4 ± | 0.834 | 1.87 | 3.1 |
| Chloride | N165 A | mg/l | 57.6 ± | 0.558 | 2.3 | 4 |
| | N165 B | mg/l | 25.6 ± | 0.265 | 1.03 | 4 |
| DOC (as C) | N165 A DOC | mg/l | 1.38 ± | 0.0704 | 0.193 | 14 |
| | N165 B DOC | mg/l | 3.37 ± | 0.0669 | 0.337 | 10 |
| El. conductivity (25°C) | N165 A | µS/cm | 916 ± | 3.4 | 11.9 | 1.3 |
| | N165 B | µS/cm | 480 ± | 1.46 | 6.24 | 1.3 |
| Hydrogen carbonate | N165 A | mg/l | 445 ± | 2.85 | 8.9 | 2 |
| | N165 B | mg/l | 203 ± | 2.03 | 5.68 | 2.8 |
| Magnesium | N165 A | mg/l | 29.9 ± | 0.424 | 1.19 | 4 |
| | N165 B | mg/l | 14.2 ± | 0.198 | 0.57 | 4 |
| Nitrate (as NO ₃) | N165 A | mg/l | 14.3 ± | 0.17 | 0.716 | 5 |
| | N165 B | mg/l | 15.8 ± | 0.207 | 0.791 | 5 |
| Nitrite (as NO ₂) | N165 A | mg/l | 0.208 ± | 0.00304 | 0.011 | 5.3 |
| | N165 B | mg/l | 0.242 ± | 0.00388 | 0.0128 | 5.3 |
| Orthophosphate (as PO ₄) | N165 A | mg/l | 0.131 ± | 0.0163 | 0.0392 | 30 |
| | N165 B | mg/l | 0.151 ± | 0.0066 | 0.0166 | 11 |
| pH-value | N165 A | - | 7.68 ± | 0.034 | 0.154 | 2 |
| | N165 B | - | 7.84 ± | 0.0268 | 0.157 | 2 |
| Potassium | N165 A | mg/l | 4.79 ± | 0.051 | 0.249 | 5.2 |
| | N165 B | mg/l | 2.38 ± | 0.0289 | 0.124 | 5.2 |
| Sodium | N165 A | mg/l | 26.9 ± | 0.356 | 0.914 | 3.4 |
| | N165 B | mg/l | 15.4 ± | 0.239 | 0.525 | 3.4 |
| Sulfate (as SO ₄) | N165 A | mg/l | 41.6 ± | 0.241 | 1.37 | 3.3 |
| | N165 B | mg/l | 30.8 ± | 0.304 | 1.02 | 3.3 |
| Total-P (as PO ₄) | N165 A | mg/l | 0.432 ± | 0.012 | 0.0324 | 7.5 |
| | N165 B | mg/l | 1.77 ± | 0.0469 | 0.133 | 7.5 |
| Total hardness | N165 A | mmol/l | 4.36 ± | 0.0397 | 0.131 | 3 |
| | N165 B | mmol/l | 2.11 ± | 0.0216 | 0.0632 | 3 |
| Total nitrogen | N165 A | mg/l | 3.49 ± | 0.151 | 0.29 | 8.3 |
| | N165 B | mg/l | 3.89 ± | 0.119 | 0.323 | 8.3 |

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 [%] |
|--------------------------------------|------------|-----------------------------------|--------------------|--------|--------|------------|---------|---------|---------|--------|
| Alkalinity Ks 4,3 | N165 A | 37 | 3 | mmol/l | 7.33 | ± 0.0684 | 6.96 | 7.64 | 0.139 | 1.9 |
| | N165 B | 36 | 4 | mmol/l | 3.35 | ± 0.032 | 3.18 | 3.5 | 0.0641 | 1.9 |
| Ammonium (as NH ₄) | N165 A | 29 | 3 | mg/l | 0.0555 | ± 0.00547 | 0.04 | 0.079 | 0.00981 | 18 |
| | N165 B | 31 | 4 | mg/l | 0.166 | ± 0.0086 | 0.12 | 0.203 | 0.016 | 9.6 |
| Boron | N165 A | 19 | 1 | mg/l | 0.058 | ± 0.00281 | 0.0506 | 0.065 | 0.00409 | 7 |
| | N165 B | 14 | 1 | mg/l | 0.0145 | ± 0.00207 | 0.01 | 0.0193 | 0.00258 | 18 |
| Calcium | N165 A | 33 | 0 | mg/l | 124 | ± 2.4 | 113 | 132 | 4.6 | 3.7 |
| | N165 B | 33 | 0 | mg/l | 60.4 | ± 1.25 | 54.5 | 65.6 | 2.39 | 4 |
| Chloride | N165 A | 36 | 3 | mg/l | 57.6 | ± 0.837 | 53.4 | 60.7 | 1.67 | 2.9 |
| | N165 B | 37 | 2 | mg/l | 25.6 | ± 0.398 | 23.9 | 27.1 | 0.806 | 3.1 |
| DOC (as C) | N165 A DOC | 31 | 1 | mg/l | 1.38 | ± 0.106 | 1.01 | 1.79 | 0.196 | 14 |
| | N165 B DOC | 30 | 2 | mg/l | 3.37 | ± 0.1 | 3 | 3.75 | 0.183 | 5.4 |
| El. conductivity (25°C) | N165 A | 41 | 4 | µS/cm | 916 | ± 5.1 | 889 | 942 | 10.9 | 1.2 |
| | N165 B | 41 | 4 | µS/cm | 480 | ± 2.2 | 471 | 491 | 4.69 | 0.98 |
| Hydrogen carbonate | N165 A | 29 | 1 | mg/l | 445 | ± 4.27 | 430 | 463 | 7.66 | 1.7 |
| | N165 B | 28 | 2 | mg/l | 203 | ± 3.04 | 190 | 216 | 5.36 | 2.6 |
| Magnesium | N165 A | 32 | 1 | mg/l | 29.9 | ± 0.636 | 27.5 | 32.8 | 1.2 | 4 |
| | N165 B | 32 | 1 | mg/l | 14.2 | ± 0.298 | 13 | 15.5 | 0.561 | 3.9 |
| Nitrate (as NO ₃) | N165 A | 35 | 4 | mg/l | 14.3 | ± 0.255 | 13 | 15.2 | 0.502 | 3.5 |
| | N165 B | 37 | 2 | mg/l | 15.8 | ± 0.311 | 14.4 | 17.3 | 0.63 | 4 |
| Nitrite (as NO ₂) | N165 A | 33 | 5 | mg/l | 0.208 | ± 0.00455 | 0.188 | 0.231 | 0.00872 | 4.2 |
| | N165 B | 32 | 6 | mg/l | 0.242 | ± 0.00582 | 0.221 | 0.272 | 0.011 | 4.5 |
| Orthophosphate (as PO ₄) | N165 A | 32 | 1 | mg/l | 0.133 | ± 0.0202 | 0.06 | 0.18 | 0.0381 | 29 |
| | N165 B | 33 | 1 | mg/l | 0.151 | ± 0.0099 | 0.103 | 0.18 | 0.019 | 13 |
| pH-value | N165 A | 44 | 1 | - | 7.68 | ± 0.0511 | 7.44 | 7.9 | 0.113 | 1.5 |
| | N165 B | 44 | 1 | - | 7.84 | ± 0.0402 | 7.65 | 8.01 | 0.089 | 1.1 |
| Potassium | N165 A | 31 | 1 | mg/l | 4.79 | ± 0.0765 | 4.49 | 5.12 | 0.142 | 3 |
| | N165 B | 31 | 1 | mg/l | 2.36 | ± 0.0458 | 2.15 | 2.5 | 0.085 | 3.6 |
| Sodium | N165 A | 31 | 2 | mg/l | 26.9 | ± 0.533 | 24.9 | 29.3 | 0.99 | 3.7 |
| | N165 B | 32 | 1 | mg/l | 15.4 | ± 0.358 | 14 | 17.2 | 0.675 | 4.4 |
| Sulfate (as SO ₄) | N165 A | 32 | 5 | mg/l | 41.6 | ± 0.361 | 40.3 | 43.6 | 0.682 | 1.6 |

| Parameter | Sample | Number of results for calculation | Number of outliers | Unit | Mean | ± CI (99%) | Minimum | Maximum | sR | vR [%] |
|-------------------------------|--------|-----------------------------------|--------------------|--------|-------|------------|---------|---------|--------|--------|
| Sulfate (as SO ₄) | N165 B | 33 | 4 | mg/l | 30.8 | ± 0.456 | 28.6 | 32.1 | 0.872 | 2.8 |
| Total-P (as PO ₄) | N165 A | 27 | 6 | mg/l | 0.432 | ± 0.018 | 0.363 | 0.508 | 0.0312 | 7.2 |
| | N165 B | 32 | 2 | mg/l | 1.77 | ± 0.0703 | 1.37 | 1.98 | 0.133 | 7.5 |
| Total hardness | N165 A | 29 | 4 | mmol/l | 4.36 | ± 0.0596 | 4.11 | 4.54 | 0.107 | 2.5 |
| | N165 B | 31 | 2 | mmol/l | 2.11 | ± 0.0324 | 1.94 | 2.23 | 0.0601 | 2.9 |
| Total nitrogen | N165 A | 18 | 1 | mg/l | 3.49 | ± 0.227 | 3.02 | 4.37 | 0.321 | 9.2 |
| | N165 B | 17 | 2 | mg/l | 3.89 | ± 0.178 | 3.41 | 4.28 | 0.245 | 6.3 |

E7. Parameterorientierte Auswertung / Parameter oriented report

| | |
|--|-----|
| Alkalinity Ks 4,3..... | 35 |
| Ammonium (as NH ₄)..... | 45 |
| Boron | 55 |
| Calcium | 65 |
| Chloride..... | 75 |
| DOC (as C) | 85 |
| El. conductivity (25°C) | 95 |
| Hydrogen carbonate..... | 105 |
| Magnesium..... | 115 |
| Nitrate (as NO ₃) | 125 |
| Nitrite (as NO ₂) | 135 |
| Orthophosphate (as PO ₄) | 145 |
| pH-value..... | 155 |
| Potassium | 165 |
| Sodium | 175 |
| Sulfate (as SO ₄)..... | 185 |
| Total-P (as PO ₄) | 195 |
| Total hardness..... | 205 |
| Total nitrogen | 215 |

Parameter oriented report

N165 A

Alkalinity Ks 4,3

| | |
|------------------------------|---------------|
| Unit | mmol/l |
| Assigned value ± U (k=2) | 7.33 ± 0.0456 |
| Criterion | 0.147 (2 %) |
| Minimum - Maximum | 6.96 - 7.64 |
| Control test value ± U (k=2) | 7.19 ± 0.359 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | 7.34 | 0.02 | 100 | 0.05 | |
| LC0002 | 7.64 | 0.16 | 104 | 2.1 | |
| LC0003 | 7.23 | 0.373 | 98.6 | -0.7 | |
| LC0004 | 6.83 | 0.025 | 93.2 | -3.42 | H |
| LC0005 | 7.28 | 0.15 | 99.3 | -0.36 | |
| LC0006 | 7.23 | 0.58 | 98.6 | -0.7 | |
| LC0007 | 7.36 | 0.52 | 100 | 0.19 | |
| LC0008 | 7.23 | 0.3 | 98.6 | -0.7 | |
| LC0009 | - | - | - | - | |
| LC0010 | 7.46 | 0.15 | 102 | 0.87 | |
| LC0011 | - | - | - | - | |
| LC0012 | 7.26 | 0.08 | 99 | -0.49 | |
| LC0013 | - | - | - | - | |
| LC0014 | 7.19 | 0.32 | 98.1 | -0.97 | |
| LC0015 | 7.86 | 0.055 | 107 | 3.6 | H |
| LC0016 | 7.3 | 0.73 | 99.6 | -0.22 | |
| LC0017 | 7.34 | 0.21 | 100 | 0.05 | |
| LC0018 | 7.41 | 0.6669 | 101 | 0.53 | |
| LC0019 | 7.36 | 0.336 | 100 | 0.19 | |
| LC0020 | - | - | - | - | |
| LC0021 | 7.366 | 0.1 | 100 | 0.23 | |
| LC0022 | 7.23 | 0.38 | 98.6 | -0.7 | |
| LC0023 | 7.168 | 0.72 | 97.8 | -1.12 | |
| LC0024 | 7.42 | 0.015 | 101 | 0.6 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 7.63 | 0.38 | 104 | 2.03 | |
| LC0028 | - | - | - | - | |
| LC0029 | 7.27 | 0.41 | 99.2 | -0.42 | |
| LC0030 | 7.2 | 1.08 | 98.2 | -0.9 | |
| LC0031 | 6.96 | 0.7 | 94.9 | -2.54 | |
| LC0032 | 7.34 | 0.73 | 100 | 0.05 | |
| LC0033 | 7.49 | 0.2 | 102 | 1.08 | |
| LC0034 | - | - | - | - | |
| LC0035 | 7.6 | 0.15 | 104 | 1.83 | |
| LC0036 | 7.496 | 0.375 | 102 | 1.12 | |
| LC0037 | 7.33 | 0.005 | 100 | -0.02 | |
| LC0038 | - | - | - | - | |
| LC0039 | 7.272 | 0.482 | 99.2 | -0.41 | |
| LC0040 | 7.37 | 0.3685 | 101 | 0.26 | |
| LC0041 | 7.37 | 0.37 | 101 | 0.26 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Alkalinity Ks 4,3

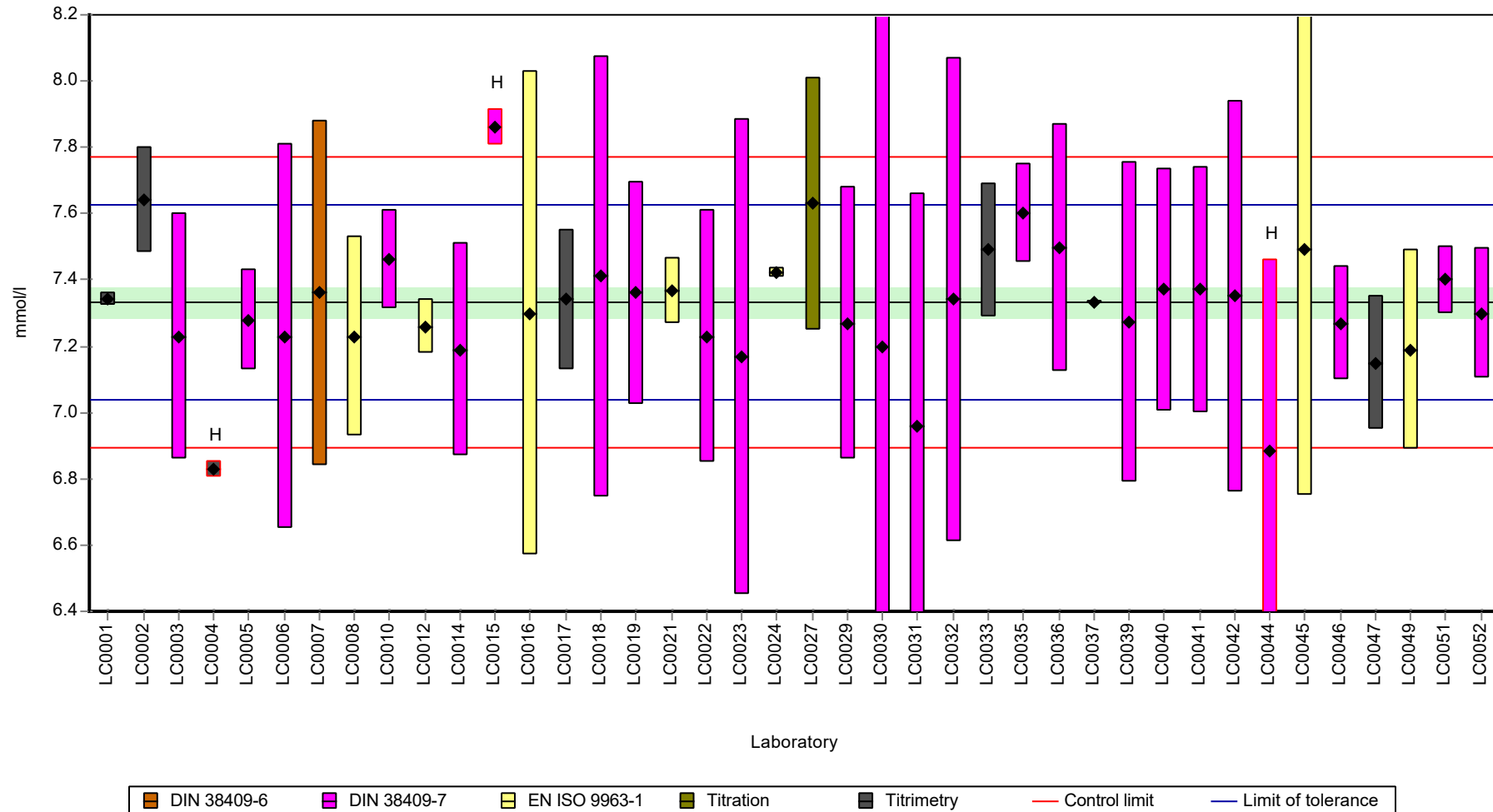
| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 7.35 | 0.59 | 100 | 0.12 | |
| LC0043 | - | - | - | - | |
| LC0044 | 6.884 | 0.58 | 93.9 | -3.06 | H |
| LC0045 | 7.49 | 0.74 | 102 | 1.08 | |
| LC0046 | 7.27 | 0.17 | 99.2 | -0.42 | |
| LC0047 | 7.15 | 0.2 | 97.5 | -1.24 | |
| LC0048 | - | - | - | - | |
| LC0049 | 7.19 | 0.3 | 98.1 | -0.97 | |
| LC0050 | - | - | - | - | |
| LC0051 | 7.4 | 0.1 | 101 | 0.46 | |
| LC0052 | 7.3 | 0.195 | 99.6 | -0.22 | |

Characteristics of parameter

| | all results | without outliers | Unit |
|-------------------------|---------------|------------------|--------|
| Mean ± CI (99%) | 7.32 ± 0.0905 | 7.33 ± 0.0684 | mmol/l |
| Minimum | 6.83 | 6.96 | mmol/l |
| Maximum | 7.86 | 7.64 | mmol/l |
| Standard deviation | 0.191 | 0.139 | mmol/l |
| rel. standard deviation | 2.61 | 1.89 | % |
| n | 40 | 37 | - |

Graphical presentation of results

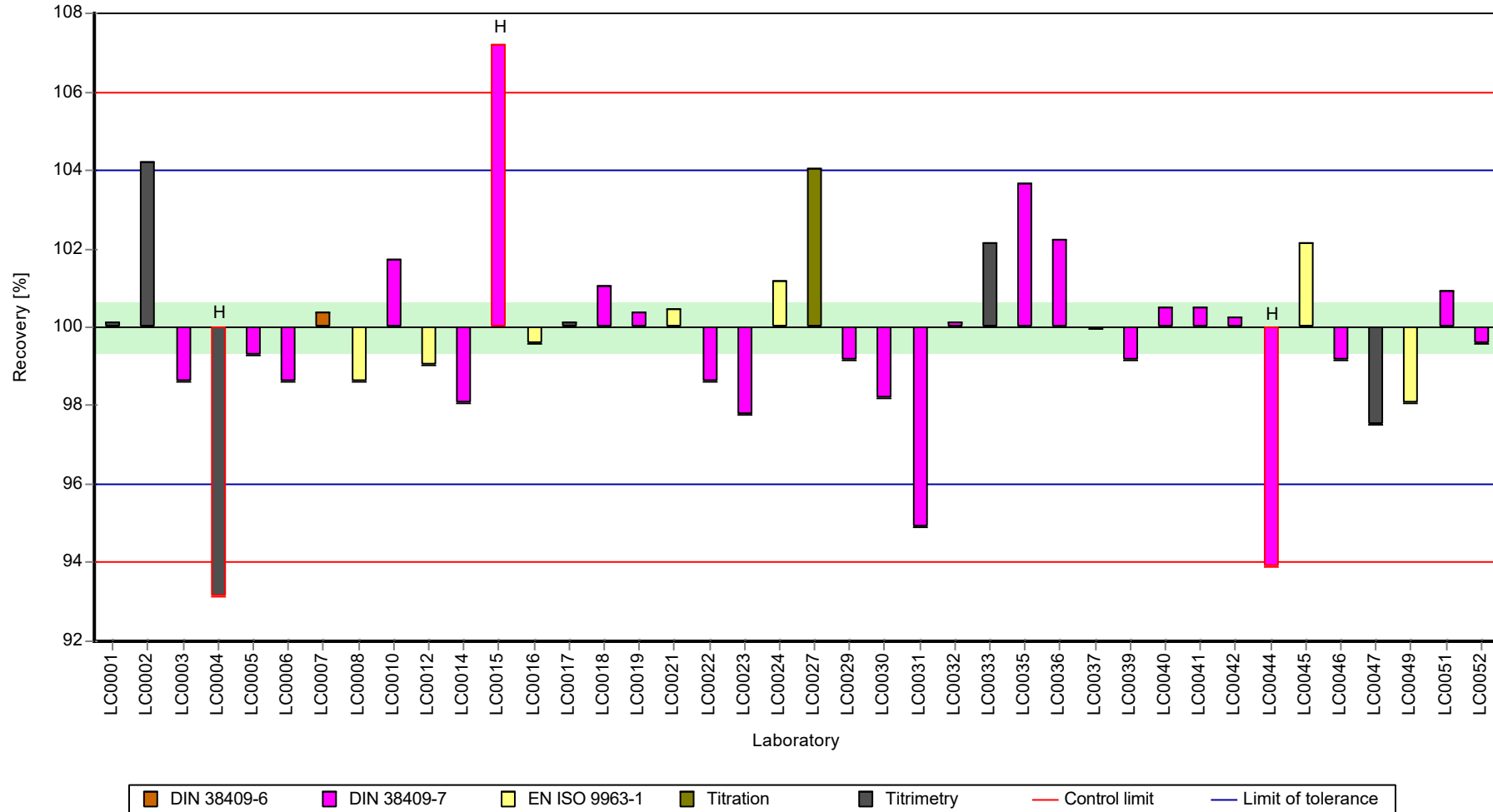
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Alkalinity Ks 4,3

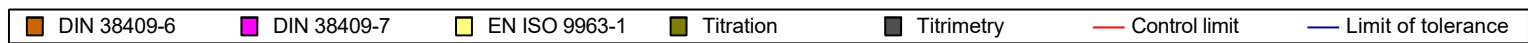
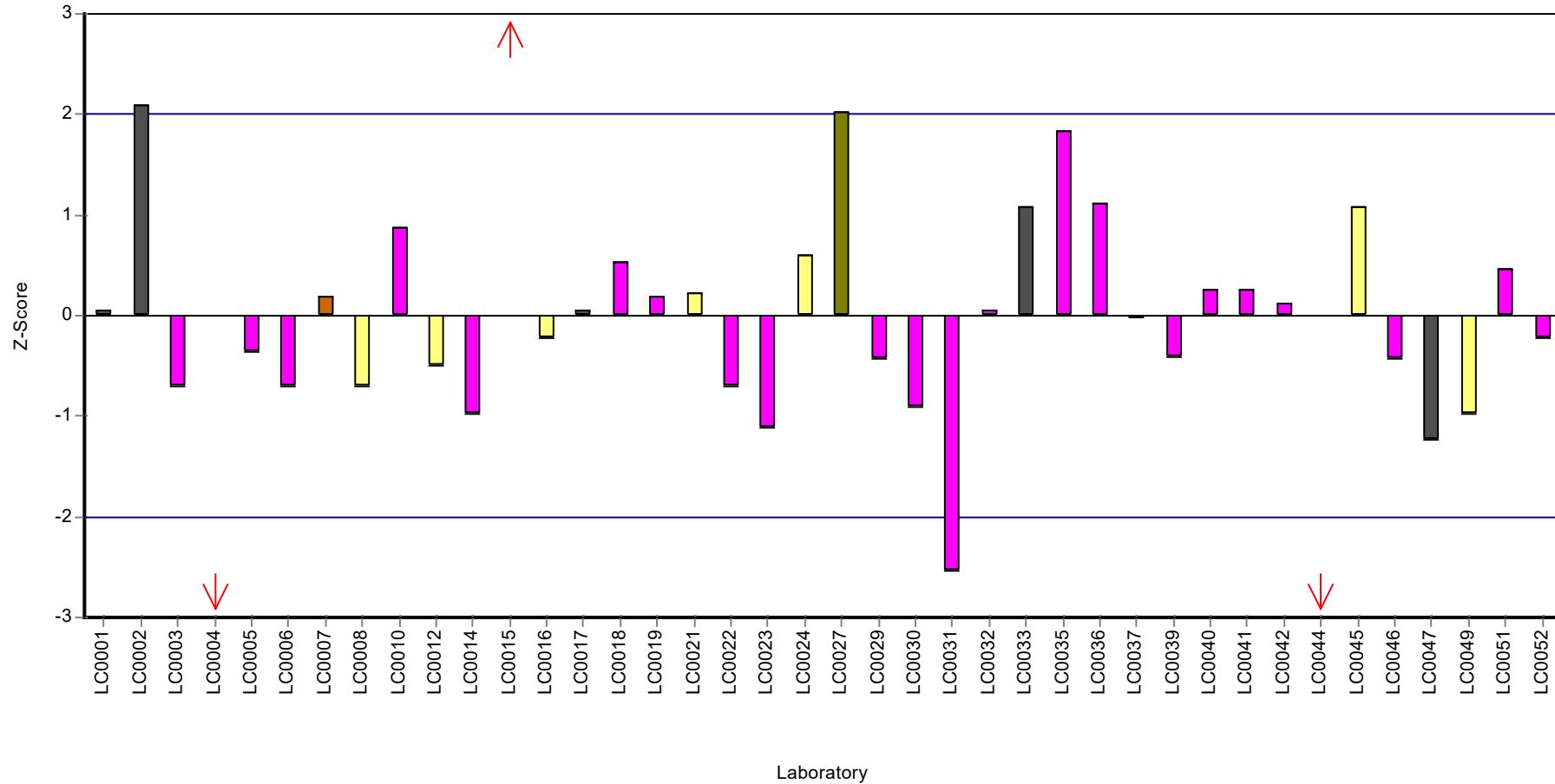
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Alkalinity Ks 4,3

Z-score



Parameter oriented report

N165 B

Alkalinity Ks 4,3

| | |
|------------------------------|---------------|
| Unit | mmol/l |
| Assigned value ± U (k=2) | 3.35 ± 0.0214 |
| Criterion | 0.0671 (2 %) |
| Minimum - Maximum | 3.18 - 3.5 |
| Control test value ± U (k=2) | 3.30 ± 0.165 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | 3.38 | 0.03 | 101 | 0.4 | |
| LC0002 | 4.34 | 0.09 | 129 | 14.71 | H |
| LC0003 | 3.31 | 0.171 | 98.7 | -0.65 | |
| LC0004 | 3.13 | 0.025 | 93.3 | -3.33 | H |
| LC0005 | 3.32 | 0.07 | 99 | -0.5 | |
| LC0006 | 3.31 | 0.26 | 98.7 | -0.65 | |
| LC0007 | 3.34 | 0.23 | 99.6 | -0.2 | |
| LC0008 | 3.34 | 0.14 | 99.6 | -0.2 | |
| LC0009 | - | - | - | - | |
| LC0010 | 3.47 | 0.1 | 103 | 1.74 | |
| LC0011 | - | - | - | - | |
| LC0012 | 3.35 | 0.05 | 99.9 | -0.05 | |
| LC0013 | - | - | - | - | |
| LC0014 | 3.27 | 0.15 | 97.5 | -1.24 | |
| LC0015 | 3.36 | 0.024 | 100 | 0.1 | |
| LC0016 | 3.33 | 0.33 | 99.3 | -0.35 | |
| LC0017 | 3.33 | 0.09 | 99.3 | -0.35 | |
| LC0018 | 3.4 | 0.306 | 101 | 0.69 | |
| LC0019 | 3.37 | 0.154 | 100 | 0.25 | |
| LC0020 | - | - | - | - | |
| LC0021 | 3.388 | 0.1 | 101 | 0.52 | |
| LC0022 | 3.33 | 0.17 | 99.3 | -0.35 | |
| LC0023 | 3.31 | 0.33 | 98.7 | -0.65 | |
| LC0024 | 3.43 | 0.026 | 102 | 1.14 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 3.48 | 0.17 | 104 | 1.89 | |
| LC0028 | - | - | - | - | |
| LC0029 | 3.36 | 0.15 | 100 | 0.1 | |
| LC0030 | 3.32 | 0.498 | 99 | -0.5 | |
| LC0031 | 3.18 | 0.3 | 94.8 | -2.59 | |
| LC0032 | 3.36 | 0.34 | 100 | 0.1 | |
| LC0033 | 3.4 | 0.1 | 101 | 0.69 | |
| LC0034 | - | - | - | - | |
| LC0035 | 3.5 | 0.07 | 104 | 2.19 | |
| LC0036 | 3.452 | 0.173 | 103 | 1.47 | |
| LC0037 | 3.38 | 0.005 | 101 | 0.4 | |
| LC0038 | - | - | - | - | |
| LC0039 | 3.32 | 0.235 | 99 | -0.5 | |
| LC0040 | 3.39 | 0.1695 | 101 | 0.55 | |
| LC0041 | 3.37 | 0.17 | 100 | 0.25 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Alkalinity Ks 4,3

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 3.36 | 0.27 | 100 | 0.1 | |
| LC0043 | - | - | - | - | |
| LC0044 | 3.293 | 0.26 | 98.2 | -0.9 | |
| LC0045 | 3.59 | 0.74 | 107 | 3.53 | H |
| LC0046 | 3.35 | 0.08 | 99.9 | -0.05 | |
| LC0047 | 3.25 | 0.1 | 96.9 | -1.54 | |
| LC0048 | - | - | - | - | |
| LC0049 | 3.28 | 0.2 | 97.8 | -1.09 | |
| LC0050 | - | - | - | - | |
| LC0051 | 2.4 | 0.1 | 71.6 | -14.22 | H |
| LC0052 | 3.34 | 0.116 | 99.6 | -0.2 | |

Characteristics of parameter

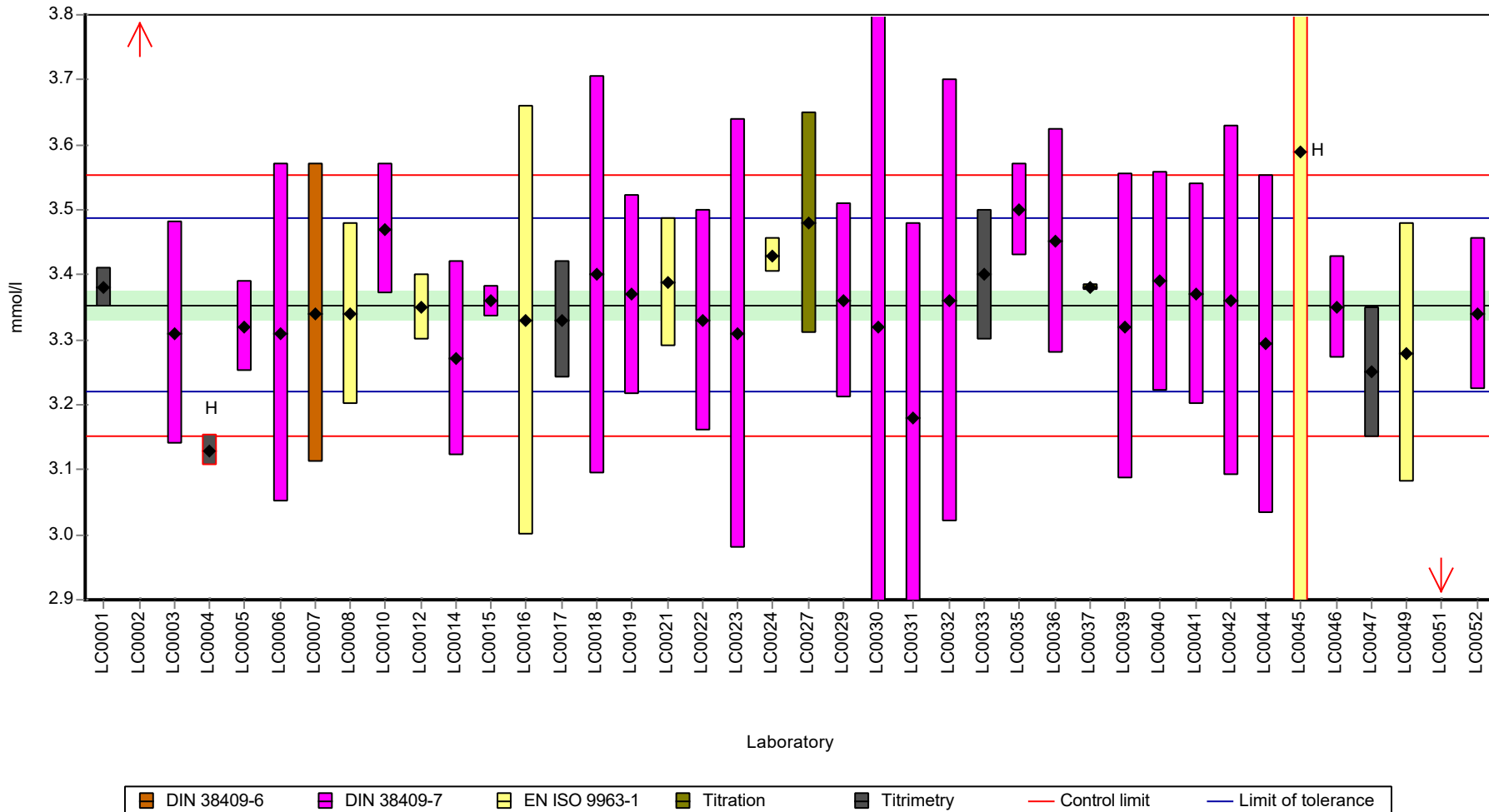
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|--------|
| Mean ± CI (99%) | 3.35 ± 0.111 | 3.35 ± 0.032 | mmol/l |
| Minimum | 2.4 | 3.18 | mmol/l |
| Maximum | 4.34 | 3.5 | mmol/l |
| Standard deviation | 0.234 | 0.0641 | mmol/l |
| rel. standard deviation | 6.97 | 1.91 | % |
| n | 40 | 36 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Alkalinity Ks 4,3

Graphical presentation of results

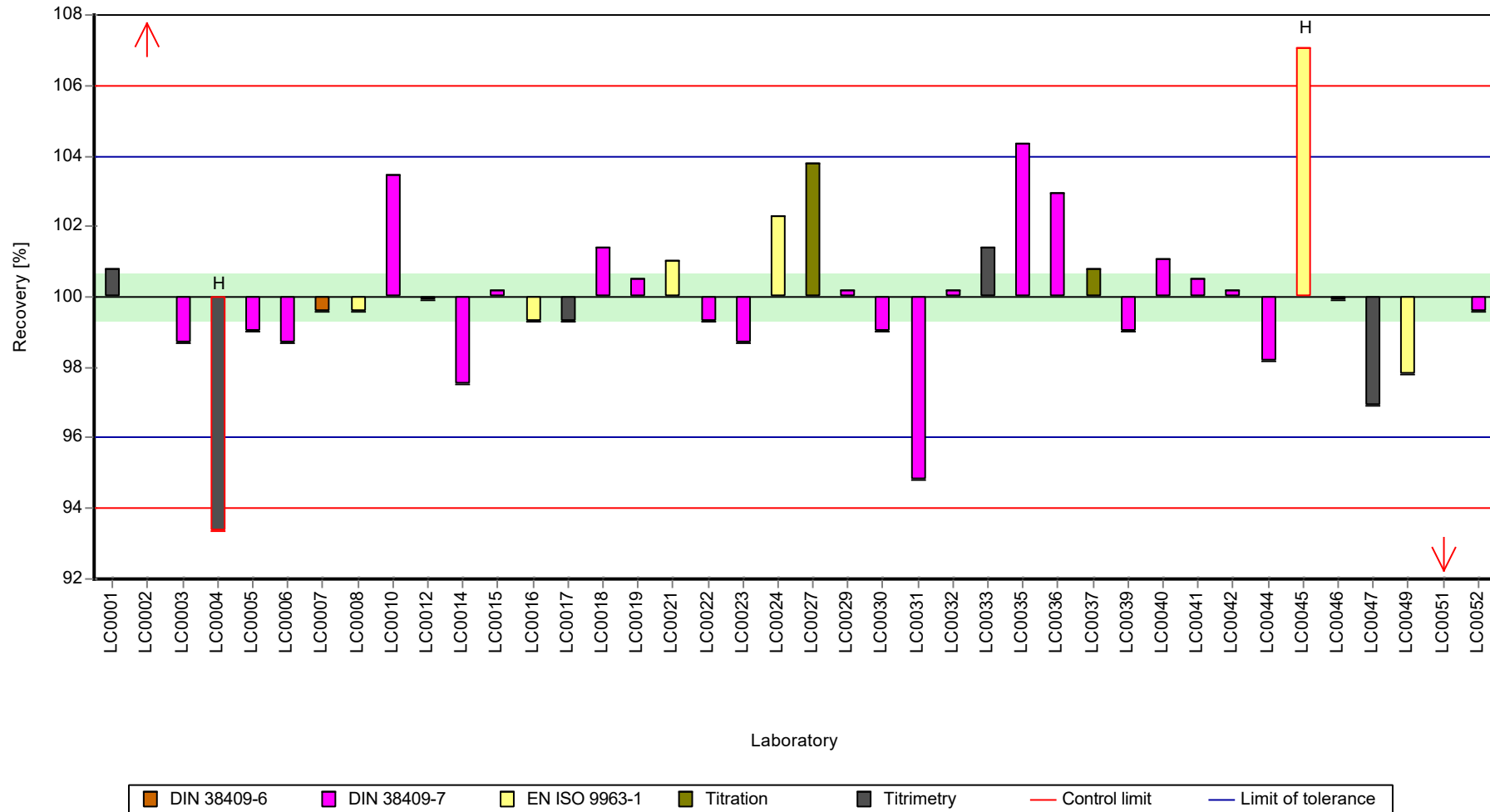
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Alkalinity Ks 4,3

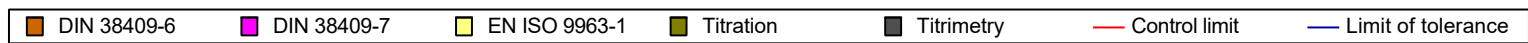
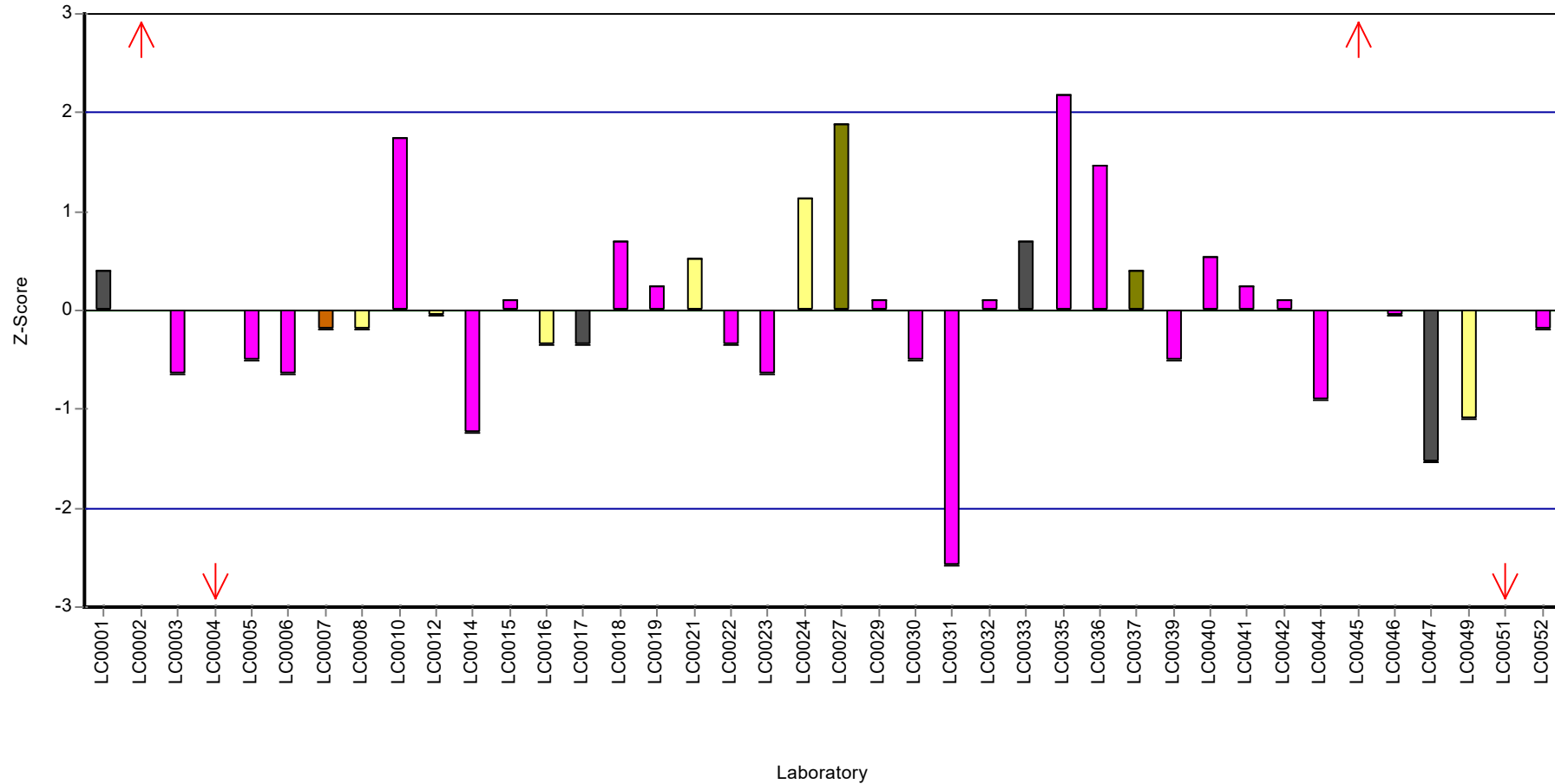
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Alkalinity Ks 4,3

Z-score



Parameter oriented report

N165 A

Ammonium (as NH₄)

| | |
|------------------------------|------------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.0555 ± 0.00364 |
| Criterion | 0.00999 (18 %) |
| Minimum - Maximum | 0.04 - 0.079 |
| Control test value ± U (k=2) | 0.0629 ± 0.00944 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 0.042 | 0.007 | 75.7 | -1.35 | |
| LC0003 | - | - | - | - | |
| LC0004 | 0.04 | 0.01 | 72.1 | -1.55 | |
| LC0005 | 0.052 | 0.003 | 93.7 | -0.35 | |
| LC0006 | 0.0524 | 0.0042 | 94.4 | -0.31 | |
| LC0007 | 0.053 | 0.016 | 95.5 | -0.25 | |
| LC0008 | 0.051 | 0.014 | 91.9 | -0.45 | |
| LC0009 | 0.064 | 0.015 | 115 | 0.85 | |
| LC0010 | 0.052 | 0.0086 | 93.7 | -0.35 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 0.0787 | 0.00331 | 142 | 2.32 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.0655 | 0.0035 | 118 | 1 | |
| LC0017 | 0.062 | 0.01 | 112 | 0.65 | |
| LC0018 | 0.044 | 0.01232 | 79.3 | -1.15 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.0477 | 0.003 | 85.9 | -0.78 | |
| LC0022 | 0.052 | 0.0035 | 93.7 | -0.35 | |
| LC0023 | 0.075 | 0.015 | 135 | 1.95 | |
| LC0024 | 0.0584 | 0.0005 | 105 | 0.29 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | < 0.1 (LOQ) | - | - | - | |
| LC0028 | 0.269 | 0.018 | 485 | 21.37 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 0.046 | 0.0046 | 82.9 | -0.95 | |
| LC0031 | < 0.04 (LOQ) | - | - | - | |
| LC0032 | 0.0592 | 0.00885 | 107 | 0.37 | |
| LC0033 | < 0.02 (LOQ) | - | - | - | FN |
| LC0034 | 0.054 | 0.003 | 97.3 | -0.15 | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.05 | 0.005 | 90.1 | -0.55 | |
| LC0037 | 0.047 | 0.0014 | 84.7 | -0.85 | |
| LC0038 | - | - | - | - | |
| LC0039 | 0.059 | 0.011 | 106 | 0.35 | |
| LC0040 | 0.25 | 0.025 | 450 | 19.47 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Ammonium (as NH₄)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------------|---------|--------------|---------|----------|
| LC0042 | 0.049 | 0.0156 | 88.3 | -0.65 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.079 | 0.009 | 142 | 2.35 | |
| LC0045 | 0.055 | 0.006 | 99.1 | -0.05 | |
| LC0046 | - | - | - | - | |
| LC0047 | 0.06 | 0.01 | 108 | 0.45 | |
| LC0048 | 0.147 | 0.0063 | 265 | 9.16 | H |
| LC0049 | 0.051 | 0.005 | 91.9 | -0.45 | |
| LC0050 | < 0.06 (LOQ) | - | - | - | |
| LC0051 | 0.0531 | 0.004 | 95.7 | -0.24 | |
| LC0052 | 0.0577 | 0.00053 | 104 | 0.22 | |

Characteristics of parameter

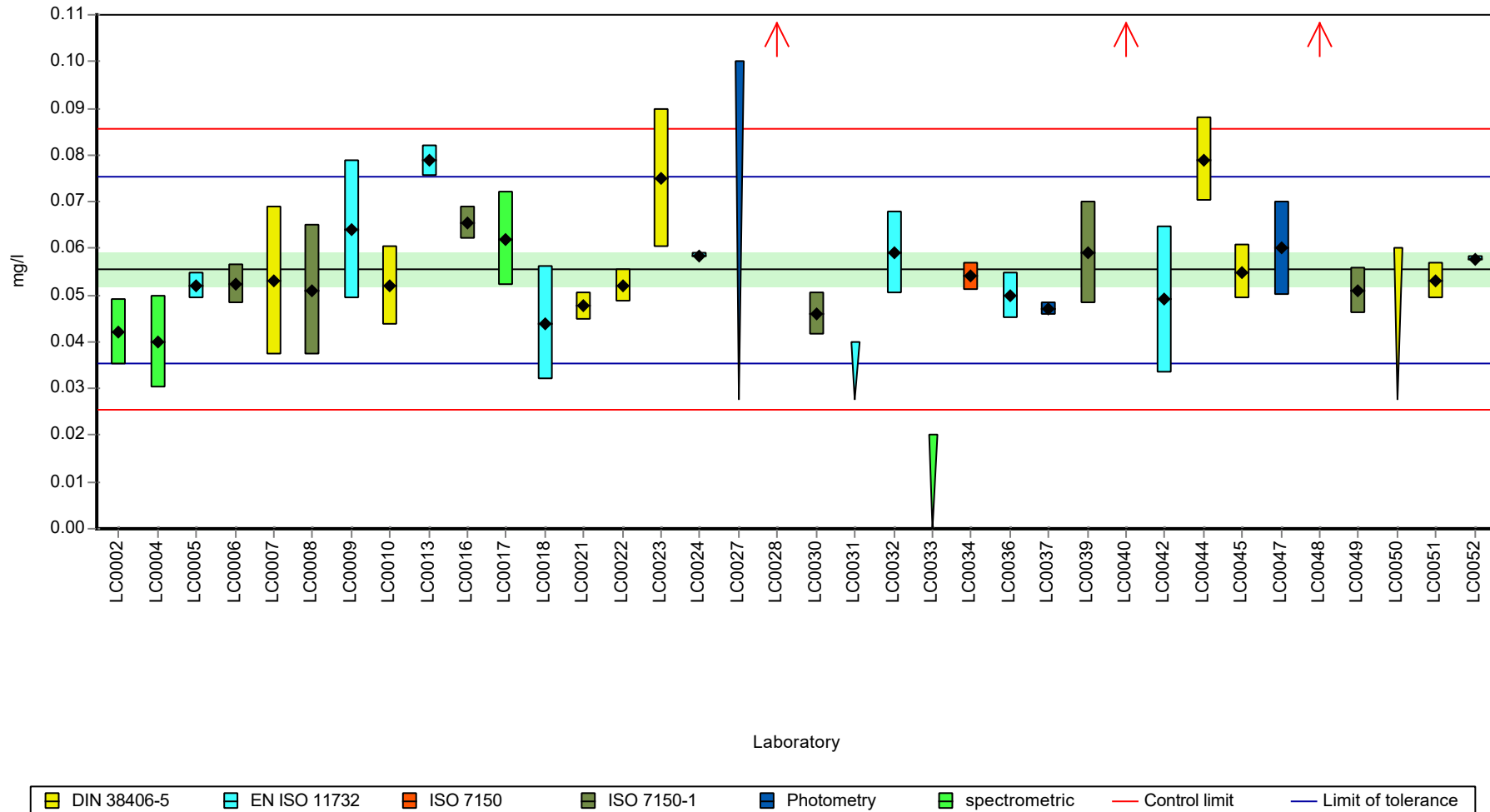
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.0711 ± 0.028 | 0.0555 ± 0.00547 | mg/l |
| Minimum | 0.04 | 0.04 | mg/l |
| Maximum | 0.269 | 0.079 | mg/l |
| Standard deviation | 0.0529 | 0.00981 | mg/l |
| rel. standard deviation | 74.4 | 17.7 | % |
| n | 32 | 29 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Ammonium (as NH₄)

Graphical presentation of results

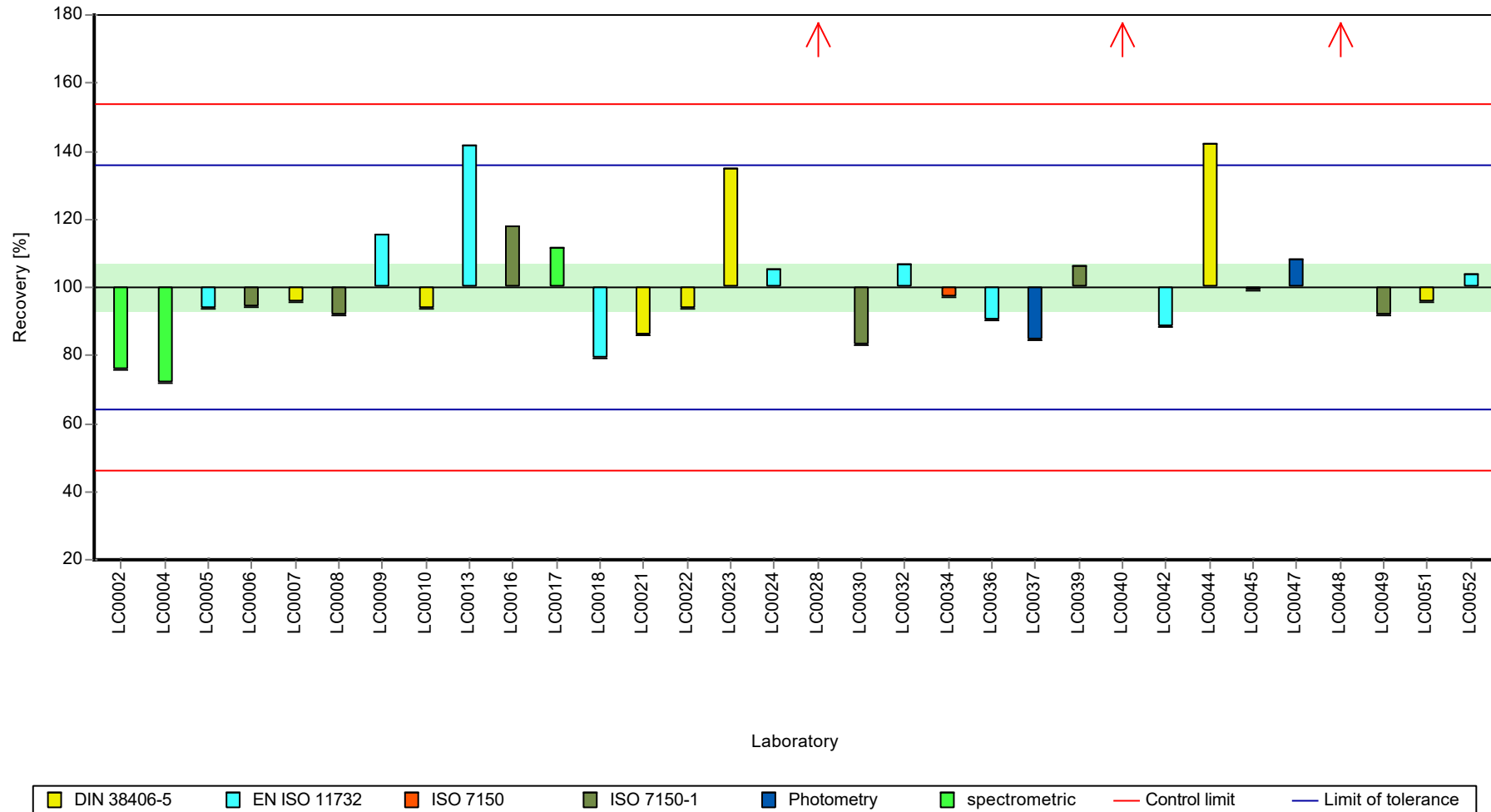
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Ammonium (as NH₄)

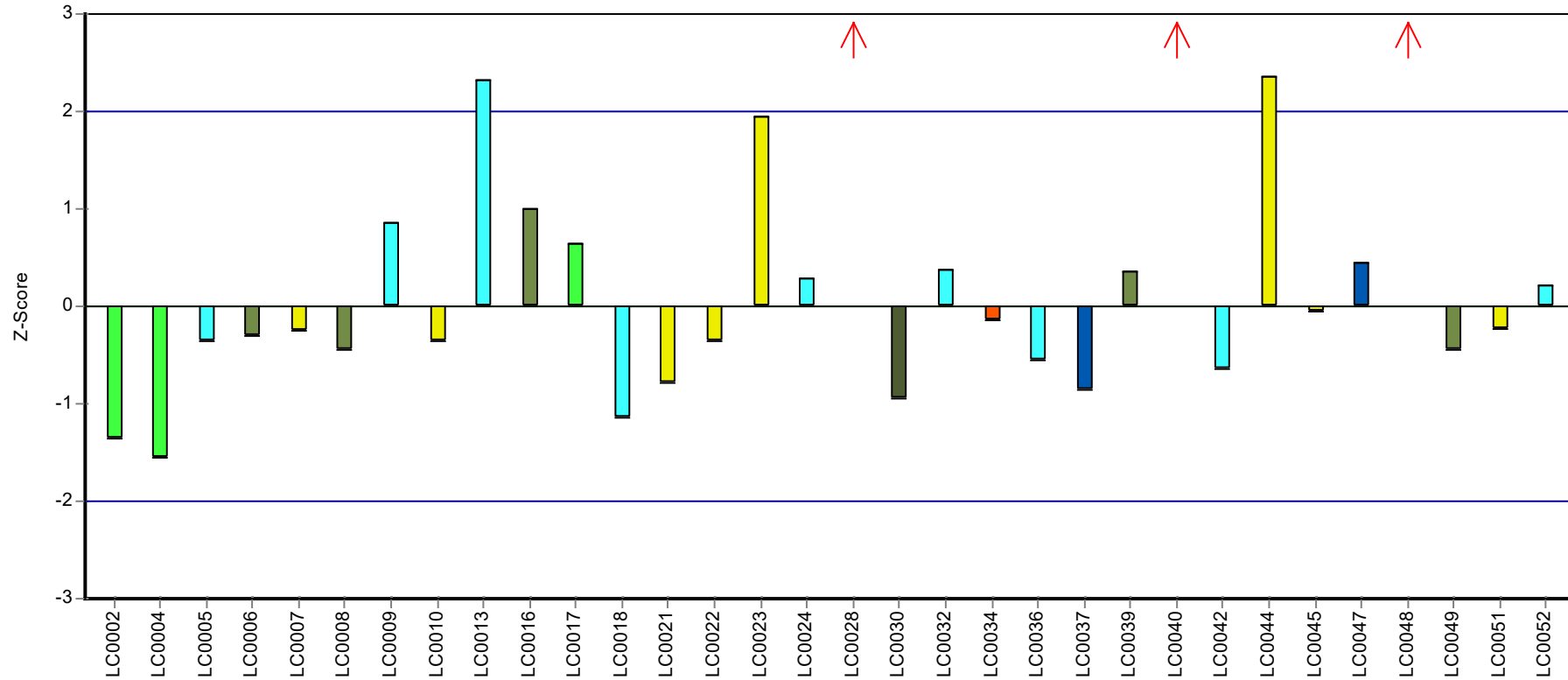
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Ammonium (as NH₄)

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Ammonium (as NH₄)

Parameter oriented report

N165 B

Ammonium (as NH₄)

| | |
|------------------------------|-----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.166 ± 0.00573 |
| Criterion | 0.0199 (12 %) |
| Minimum - Maximum | 0.12 - 0.203 |
| Control test value ± U (k=2) | 0.182 ± 0.0273 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|-------------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 0.168 | 0.028 | 101 | 0.11 | |
| LC0003 | - | - | - | - | |
| LC0004 | 0.14 | 0.01 | 84.4 | -1.3 | |
| LC0005 | 0.168 | 0.009 | 101 | 0.11 | |
| LC0006 | 0.163 | 0.013 | 98.3 | -0.14 | |
| LC0007 | 0.178 | 0.055 | 107 | 0.61 | |
| LC0008 | 0.157 | 0.04 | 94.7 | -0.44 | |
| LC0009 | 0.183 | 0.042 | 110 | 0.86 | |
| LC0010 | 0.168 | 0.026 | 101 | 0.11 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 0.179 | 0.00752 | 108 | 0.66 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.1201 | 0.0065 | 72.4 | -2.3 | |
| LC0017 | 0.175 | 0.03 | 106 | 0.46 | |
| LC0018 | 0.16 | 0.0448 | 96.5 | -0.29 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.1609 | 0.003 | 97 | -0.25 | |
| LC0022 | 0.162 | 0.011 | 97.7 | -0.19 | |
| LC0023 | 0.203 | 0.041 | 122 | 1.87 | |
| LC0024 | 0.172 | 0.001 | 104 | 0.31 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | < 0.1 (LOQ) | - | - | - | FN |
| LC0028 | 0.302 | 0.02 | 182 | 6.84 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 0.16 | 0.016 | 96.5 | -0.29 | |
| LC0031 | 0.15 | 0.05 | 90.5 | -0.79 | |
| LC0032 | 0.173 | 0.0259 | 104 | 0.36 | |
| LC0033 | 0.07 | 0.01 | 42.2 | -4.82 | H |
| LC0034 | 0.145 | 0.013 | 87.4 | -1.05 | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.154 | 0.015 | 92.9 | -0.59 | |
| LC0037 | 0.163 | 0.0049 | 98.3 | -0.14 | |
| LC0038 | - | - | - | - | |
| LC0039 | 0.18 | 0.027 | 109 | 0.71 | |
| LC0040 | 0.419 | 0.0419 | 253 | 12.72 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Ammonium (as NH₄)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 0.157 | 0.05 | 94.7 | -0.44 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.197 | 0.03 | 119 | 1.57 | |
| LC0045 | 0.171 | 0.017 | 103 | 0.26 | |
| LC0046 | - | - | - | - | |
| LC0047 | 0.17 | 0.015 | 103 | 0.21 | |
| LC0048 | 0.106 | 0.0022 | 63.9 | -3.01 | H |
| LC0049 | 0.159 | 0.02 | 95.9 | -0.34 | |
| LC0050 | 0.155 | 0.057 | 93.5 | -0.54 | |
| LC0051 | 0.1691 | 0.013 | 102 | 0.17 | |
| LC0052 | 0.18 | 0.0006 | 109 | 0.71 | |

Characteristics of parameter

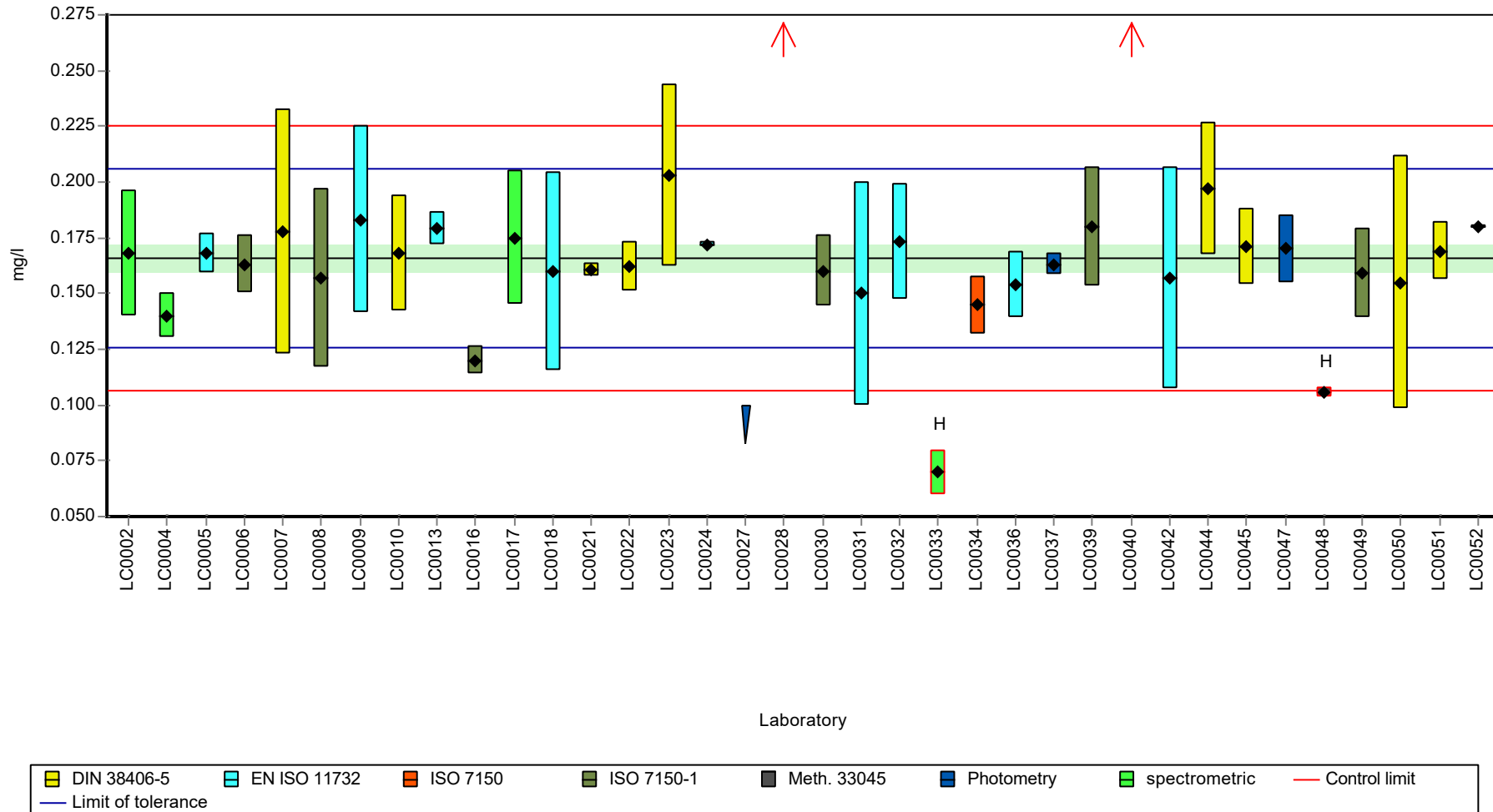
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.172 ± 0.0277 | 0.166 ± 0.0086 | mg/l |
| Minimum | 0.07 | 0.12 | mg/l |
| Maximum | 0.419 | 0.203 | mg/l |
| Standard deviation | 0.0546 | 0.016 | mg/l |
| rel. standard deviation | 31.7 | 9.62 | % |
| n | 35 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Ammonium (as NH4)

Graphical presentation of results

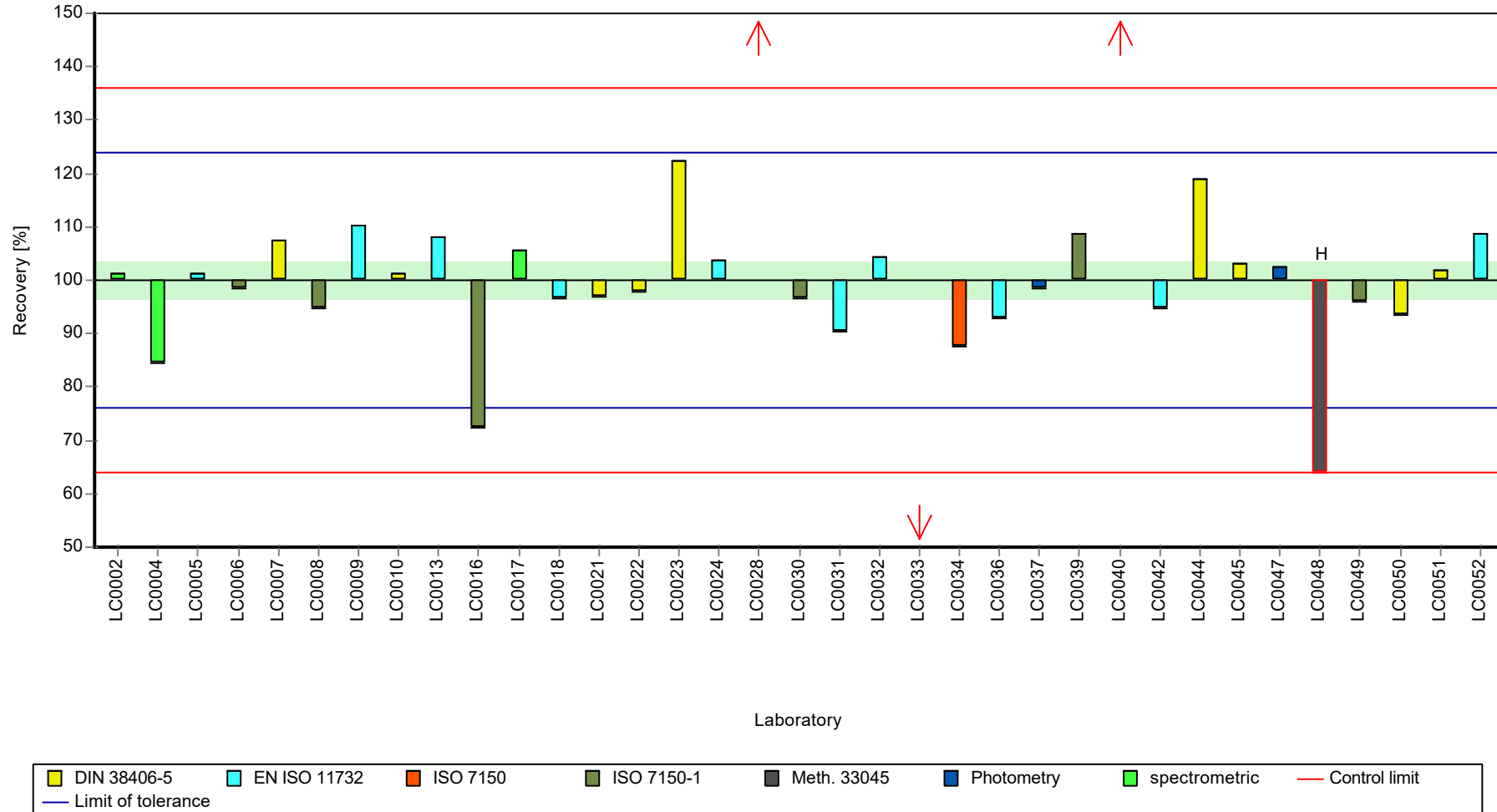
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Ammonium (as NH4)

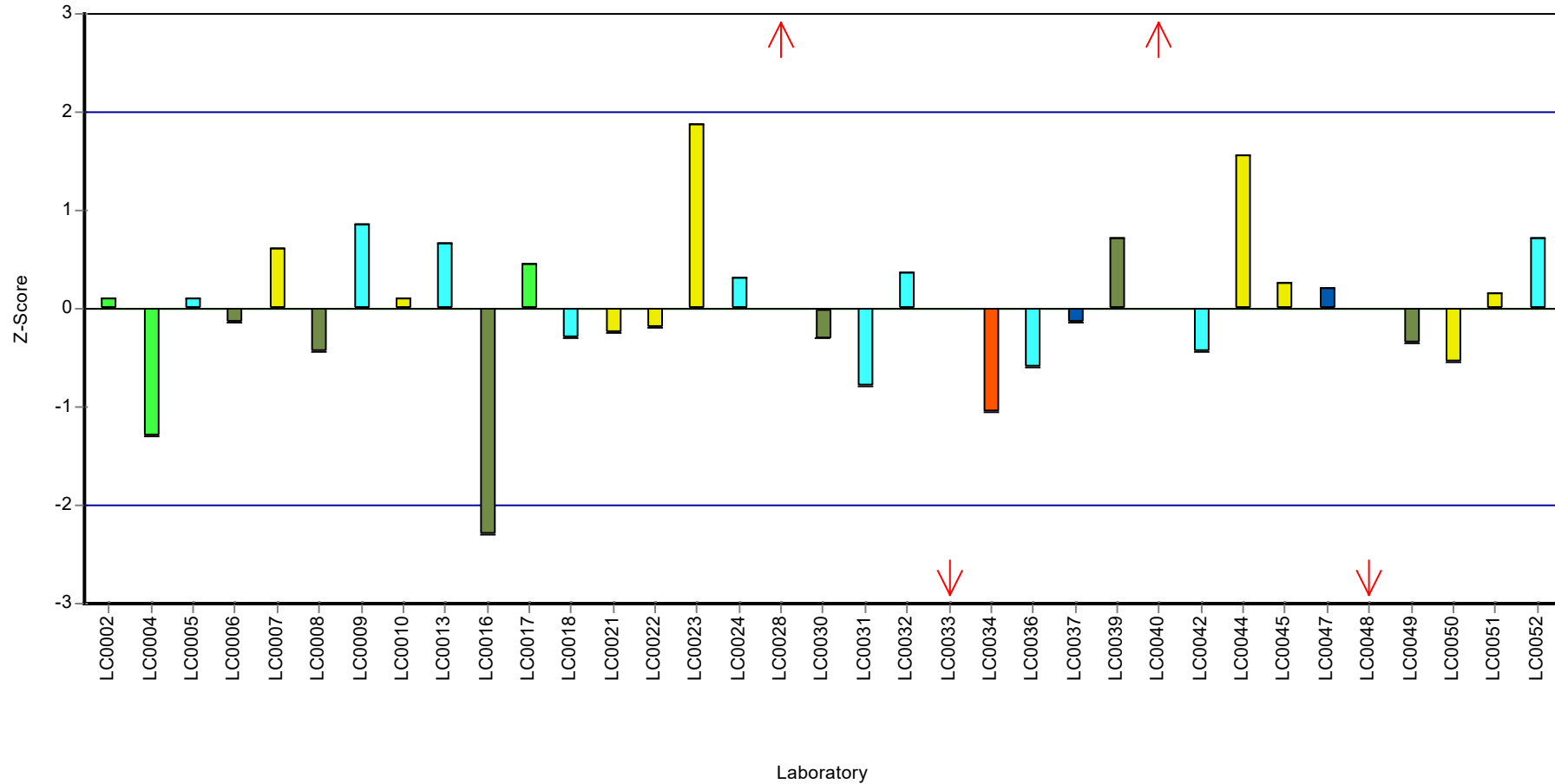
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Ammonium (as NH₄)

Z-score



Parameter oriented report

N165 A

Boron

| | |
|----------------------------------|----------------------|
| Unit | mg/l |
| Assigned value \pm U (k=2) | 0.0587 \pm 0.00178 |
| Criterion | 0.00646 (11 %) |
| Minimum - Maximum | 0.0506 - 0.065 |
| Control test value \pm U (k=2) | - |

| Labcode | Result | \pm U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 0.055 | 0.003 | 93.6 | -0.58 | |
| LC0006 | 0.0644 | 0.0084 | 110 | 0.88 | |
| LC0007 | - | - | - | - | |
| LC0008 | - | - | - | - | |
| LC0009 | - | - | - | - | |
| LC0010 | 0.0583 | 0.00806 | 99.3 | -0.07 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.0583 | 0.015 | 99.3 | -0.07 | |
| LC0017 | - | - | - | - | |
| LC0018 | 0.054 | 0.01026 | 91.9 | -0.73 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | - | - | - | - | |
| LC0022 | 0.058 | 0.0033 | 98.7 | -0.11 | |
| LC0023 | 0.051 | 0.01 | 86.8 | -1.2 | |
| LC0024 | 0.0596 | 0.001 | 101 | 0.13 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | - | - | - | - | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.064 | 0.0077 | 109 | 0.81 | |
| LC0031 | 0.059 | 0.01 | 100 | 0.04 | |
| LC0032 | - | - | - | - | |
| LC0033 | 0.0534 | 0.005 | 90.9 | -0.83 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.06 | 0.006 | 102 | 0.2 | |
| LC0037 | - | - | - | - | |
| LC0038 | 0.058 | 0.0058 | 98.7 | -0.11 | |
| LC0039 | 0.0603 | 0.0063 | 103 | 0.24 | |
| LC0040 | 0.056 | 0.0028 | 95.3 | -0.42 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Boron

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------------|---------|--------------|---------|----------|
| LC0042 | 0.057 | 0.0098 | 97 | -0.27 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 0.065 | 0.0098 | 111 | 0.97 | |
| LC0046 | - | - | - | - | |
| LC0047 | 0.08 | 0.02 | 136 | 3.29 | H |
| LC0048 | 0.0506 | 0.0021 | 86.1 | -1.26 | |
| LC0049 | - | - | - | - | |
| LC0050 | < 0.1 (LOQ) | - | - | - | |
| LC0051 | < 0.05 (LOQ) | - | - | - | |
| LC0052 | 0.0606 | 0.00171 | 103 | 0.29 | |

Characteristics of parameter

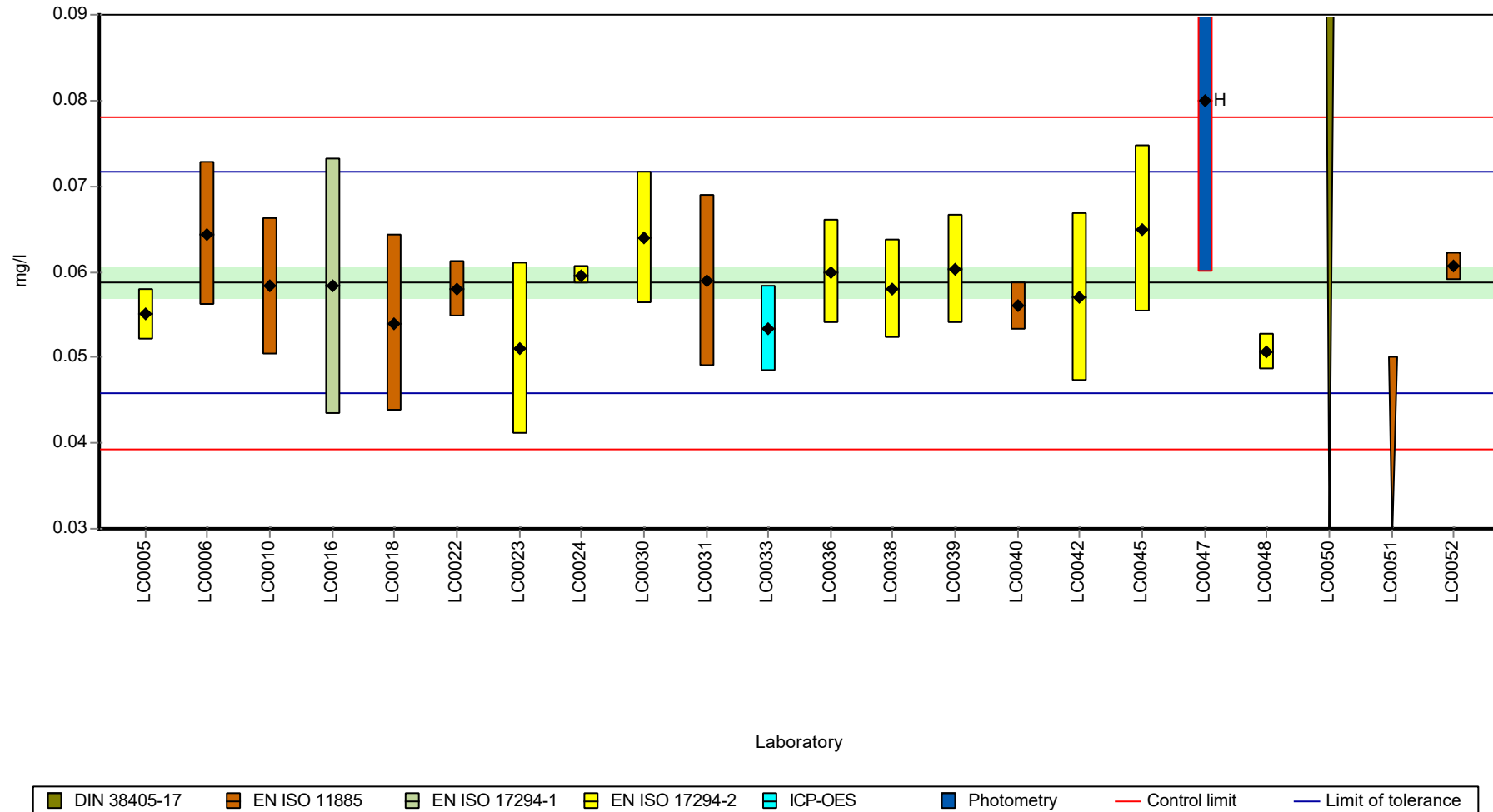
| | all results | without outliers | Unit |
|-------------------------|------------------|------------------|------|
| Mean ± CI (99%) | 0.0591 ± 0.00424 | 0.058 ± 0.00281 | mg/l |
| Minimum | 0.0506 | 0.0506 | mg/l |
| Maximum | 0.08 | 0.065 | mg/l |
| Standard deviation | 0.00632 | 0.00409 | mg/l |
| rel. standard deviation | 10.7 | 7.04 | % |
| n | 20 | 19 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Boron

Graphical presentation of results

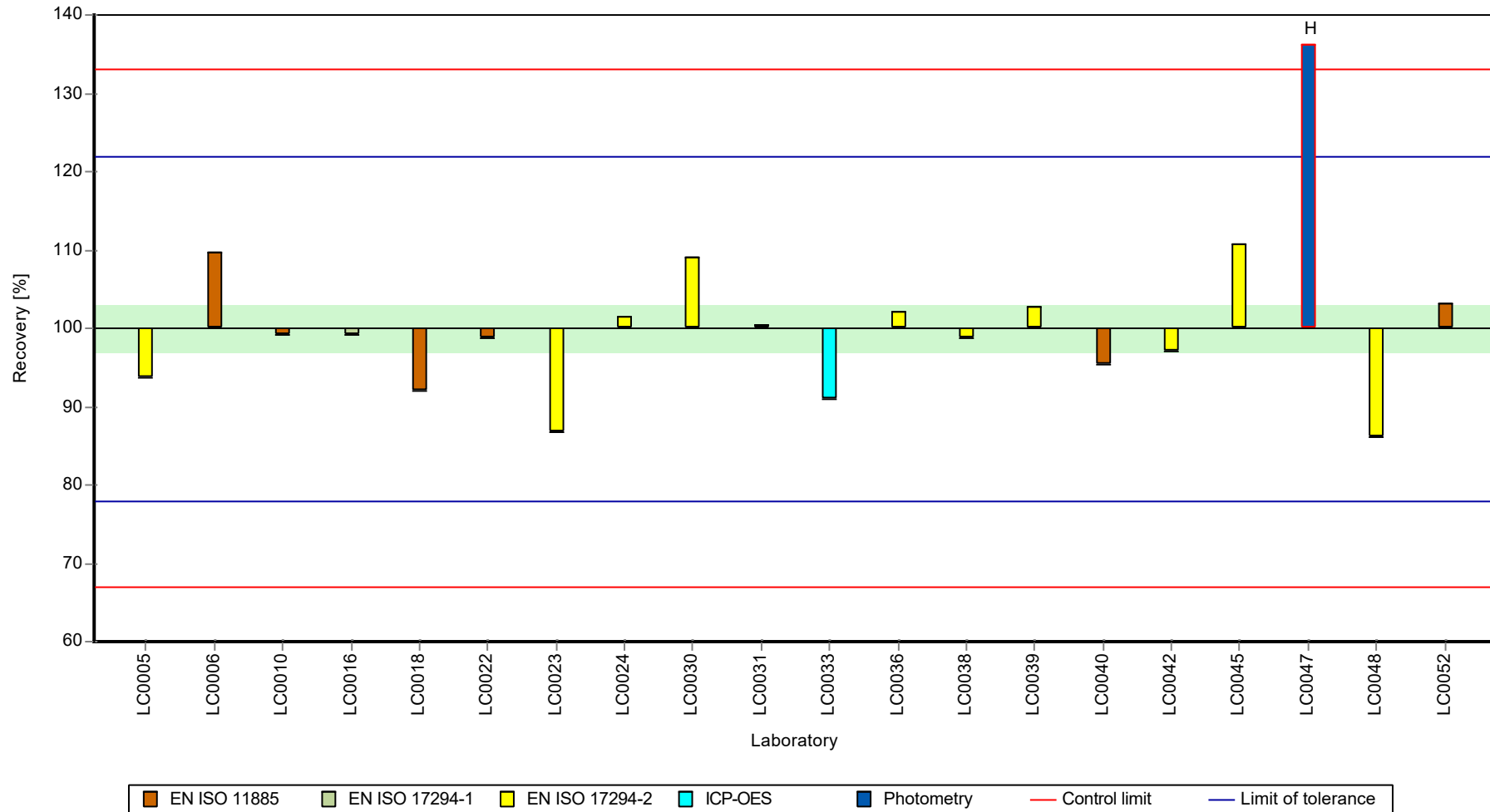
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Boron

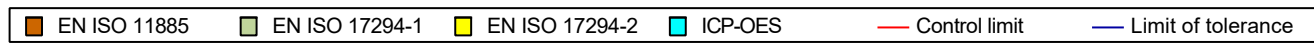
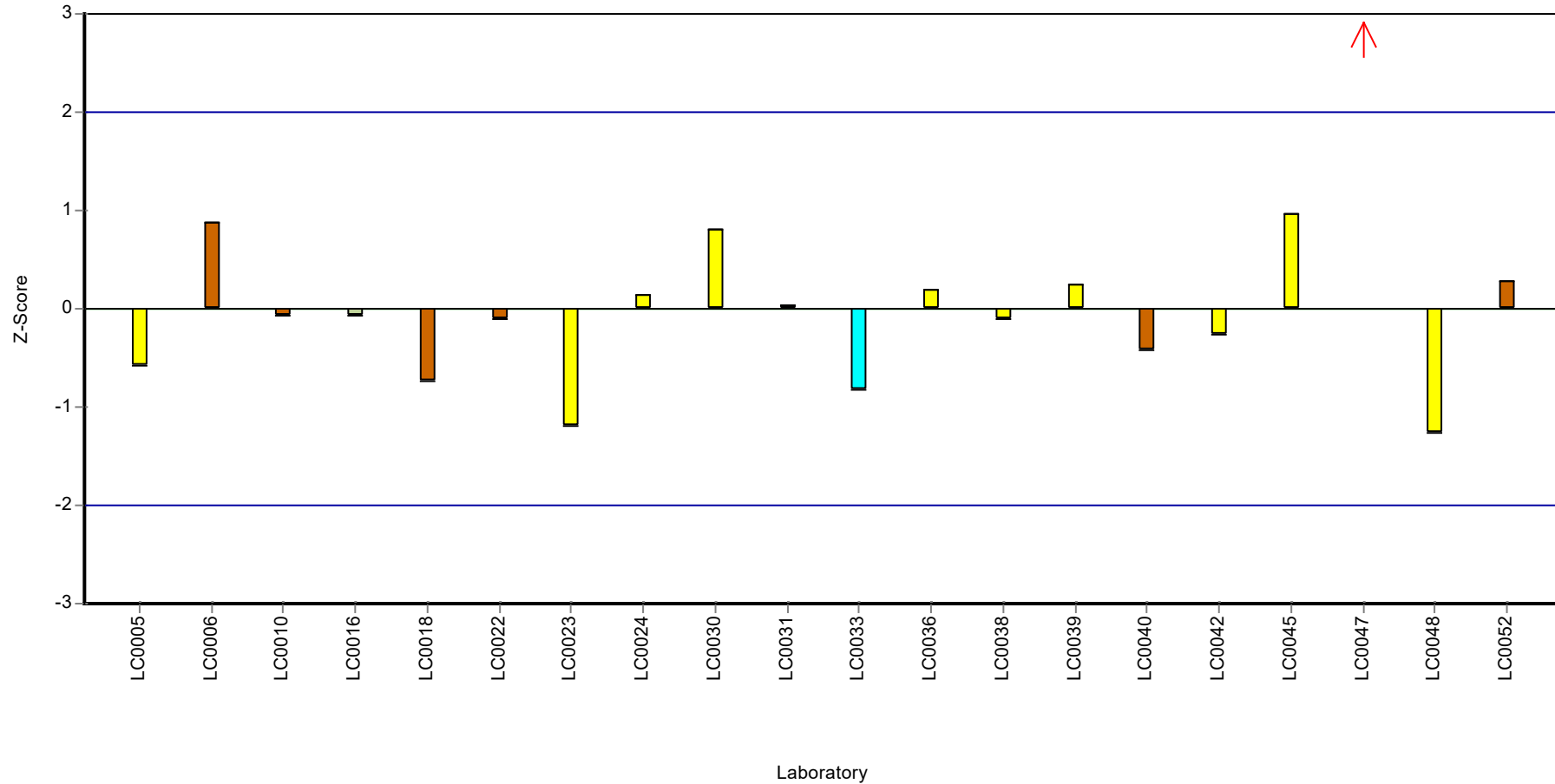
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Boron

Z-score



Parameter oriented report

N165 B

Boron

| | |
|------------------------------|------------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.0144 ± 0.00123 |
| Criterion | 0.00215 (15 %) |
| Minimum - Maximum | 0.01 - 0.0193 |
| Control test value ± U (k=2) | - |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 0.014 | 0.001 | 97.6 | -0.16 | |
| LC0006 | 0.0165 | 0.0021 | 115 | 1 | |
| LC0007 | - | - | - | - | |
| LC0008 | - | - | - | - | |
| LC0009 | - | - | - | - | |
| LC0010 | 0.0135 | 0.0035 | 94.1 | -0.39 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | < 0.02 (LOQ) | - | - | - | |
| LC0017 | - | - | - | - | |
| LC0018 | < 0.05 (LOQ) | - | - | - | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | - | - | - | - | |
| LC0022 | < 0.03 (LOQ) | - | - | - | |
| LC0023 | 0.012 | 0.0025 | 83.6 | -1.09 | |
| LC0024 | 0.0179 | 0.001 | 125 | 1.65 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | - | - | - | - | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.014 | 0.0017 | 97.6 | -0.16 | |
| LC0031 | 0.016 | 0.01 | 111 | 0.77 | |
| LC0032 | - | - | - | - | |
| LC0033 | 0.0193 | 0.002 | 134 | 2.3 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | < 0.02 (LOQ) | - | - | - | |
| LC0037 | - | - | - | - | |
| LC0038 | 0.015 | 0.0015 | 105 | 0.3 | |
| LC0039 | 0.0158 | 0.0023 | 110 | 0.67 | |
| LC0040 | 0.013 | 0.00065 | 90.6 | -0.63 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Boron

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------------|---------|--------------|---------|----------|
| LC0042 | 0.0145 | 0.0025 | 101 | 0.07 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 0.01 | 0.0015 | 69.7 | -2.02 | |
| LC0046 | - | - | - | - | |
| LC0047 | 0.05 | 0.02 | 348 | 16.56 | H |
| LC0048 | 0.0108 | 0.00052 | 75.3 | -1.65 | |
| LC0049 | - | - | - | - | |
| LC0050 | < 0.1 (LOQ) | - | - | - | |
| LC0051 | < 0.05 (LOQ) | - | - | - | |
| LC0052 | < 0.02 (LOQ) | - | - | - | |

Characteristics of parameter

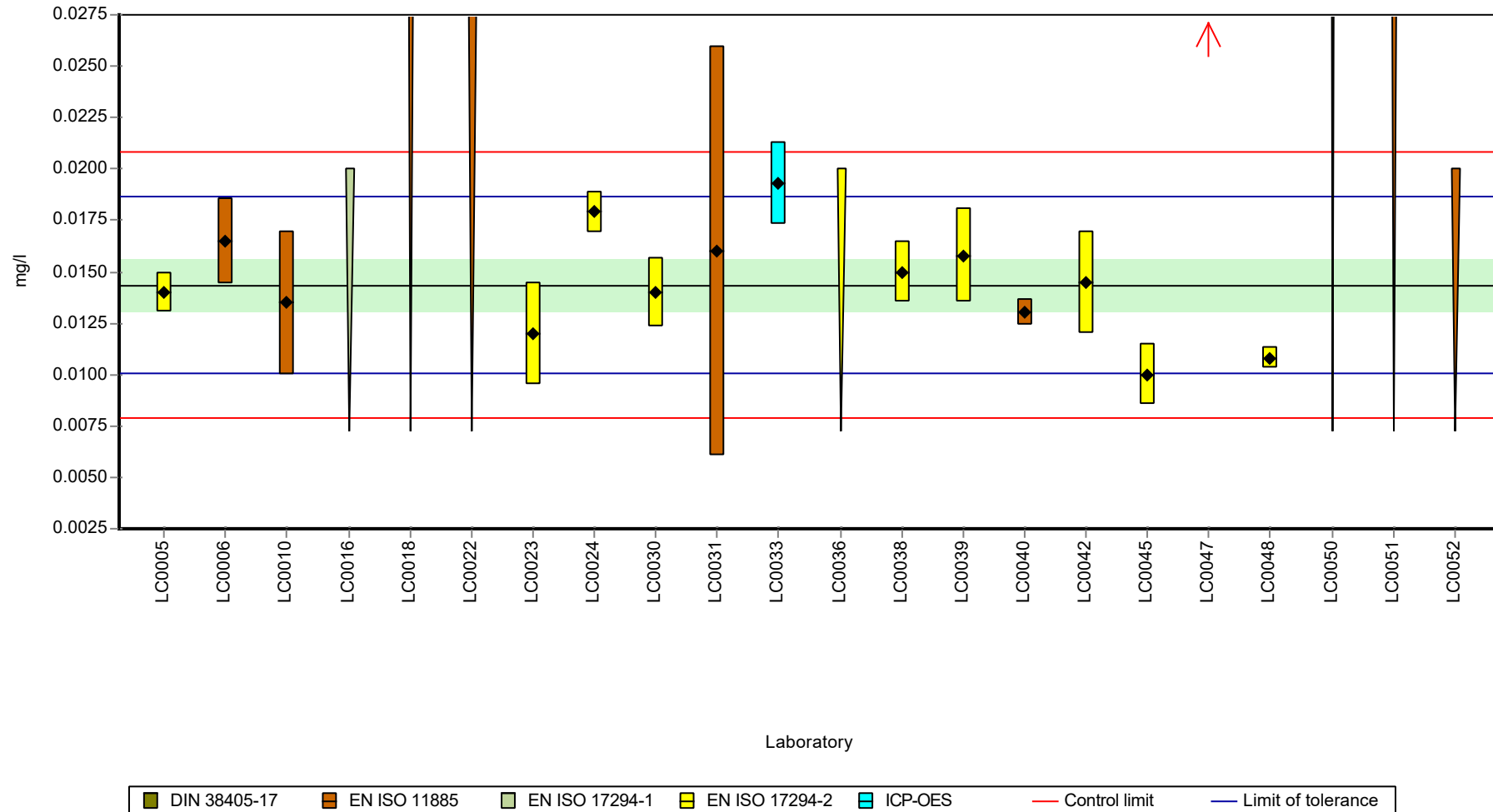
| | all results | without outliers | Unit |
|-------------------------|------------------|------------------|------|
| Mean ± CI (99%) | 0.0168 ± 0.00737 | 0.0145 ± 0.00207 | mg/l |
| Minimum | 0.01 | 0.01 | mg/l |
| Maximum | 0.05 | 0.0193 | mg/l |
| Standard deviation | 0.00951 | 0.00258 | mg/l |
| rel. standard deviation | 56.5 | 17.9 | % |
| n | 15 | 14 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Boron

Graphical presentation of results

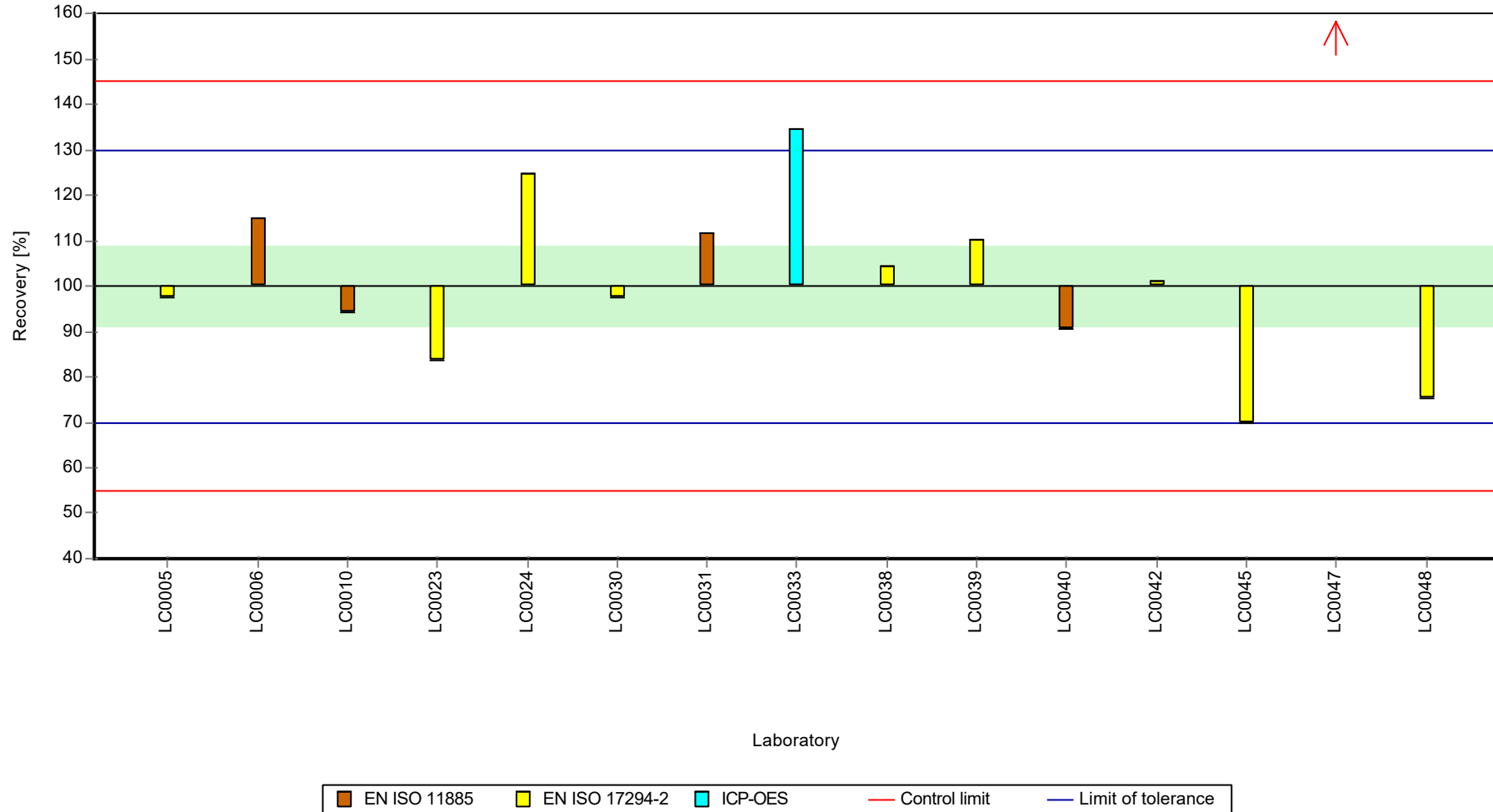
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Boron

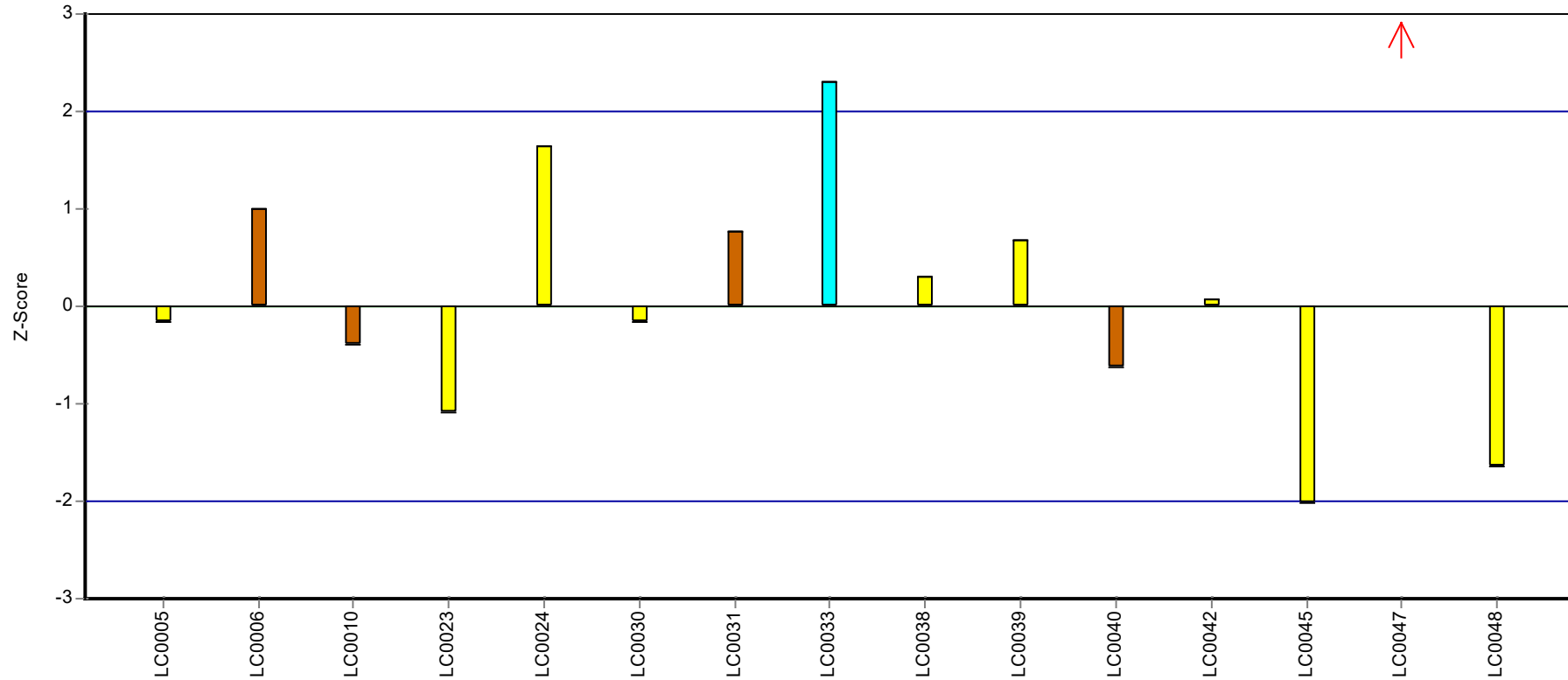
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Boron

Z-score



Laboratory



Parameter oriented report

N165 A

Calcium

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 124 ± 1.6 |
| Criterion | 4.34 (3.5 %) |
| Minimum - Maximum | 113 - 132 |
| Control test value ± U (k=2) | 149.0 ± 29.9 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 124.4 | 4.85 | 100 | 0.1 | |
| LC0003 | - | - | - | - | |
| LC0004 | 121.5 | 2 | 98 | -0.57 | |
| LC0005 | 128.6 | 5.1 | 104 | 1.07 | |
| LC0006 | 123 | 18 | 99.2 | -0.22 | |
| LC0007 | 127 | 10 | 102 | 0.7 | |
| LC0008 | 128 | 12.5 | 103 | 0.93 | |
| LC0009 | - | - | - | - | |
| LC0010 | 123 | 13 | 99.2 | -0.22 | |
| LC0011 | 116.5 | 5 | 94 | -1.72 | |
| LC0012 | - | - | - | - | |
| LC0013 | 125 | 4.25 | 101 | 0.24 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 124 | 25 | 100 | 0.01 | |
| LC0017 | - | - | - | - | |
| LC0018 | 129 | 12.9 | 104 | 1.16 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 123.62 | 1 | 99.7 | -0.08 | |
| LC0022 | 116 | 4.4 | 93.6 | -1.83 | |
| LC0023 | 125 | 25 | 101 | 0.24 | |
| LC0024 | 119 | 2.082 | 96 | -1.14 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 123 | 6.2 | 99.2 | -0.22 | |
| LC0028 | 117.84 | 7.62 | 95.1 | -1.41 | |
| LC0029 | - | - | - | - | |
| LC0030 | 126.39 | 12.639 | 102 | 0.56 | |
| LC0031 | 129 | 13 | 104 | 1.16 | |
| LC0032 | - | - | - | - | |
| LC0033 | 123.5 | 6.18 | 99.6 | -0.1 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 122 | 12.2 | 98.4 | -0.45 | |
| LC0037 | 128.6 | 0.64 | 104 | 1.07 | |
| LC0038 | 121 | 7.27 | 97.6 | -0.68 | |
| LC0039 | 127 | 6 | 102 | 0.7 | |
| LC0040 | 122 | 6.1 | 98.4 | -0.45 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Calcium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 120 | 6.7 | 96.8 | -0.91 | |
| LC0043 | - | - | - | - | |
| LC0044 | 131.45 | 8.7 | 106 | 1.73 | |
| LC0045 | 125.36 | 12.4 | 101 | 0.32 | |
| LC0046 | - | - | - | - | |
| LC0047 | 118 | 4 | 95.2 | -1.37 | |
| LC0048 | 112.9 | 4.63 | 91.1 | -2.55 | |
| LC0049 | 128 | 11 | 103 | 0.93 | |
| LC0050 | - | - | - | - | |
| LC0051 | 131.78 | 9.976 | 106 | 1.8 | |
| LC0052 | 129 | 1.13 | 104 | 1.16 | |

Characteristics of parameter

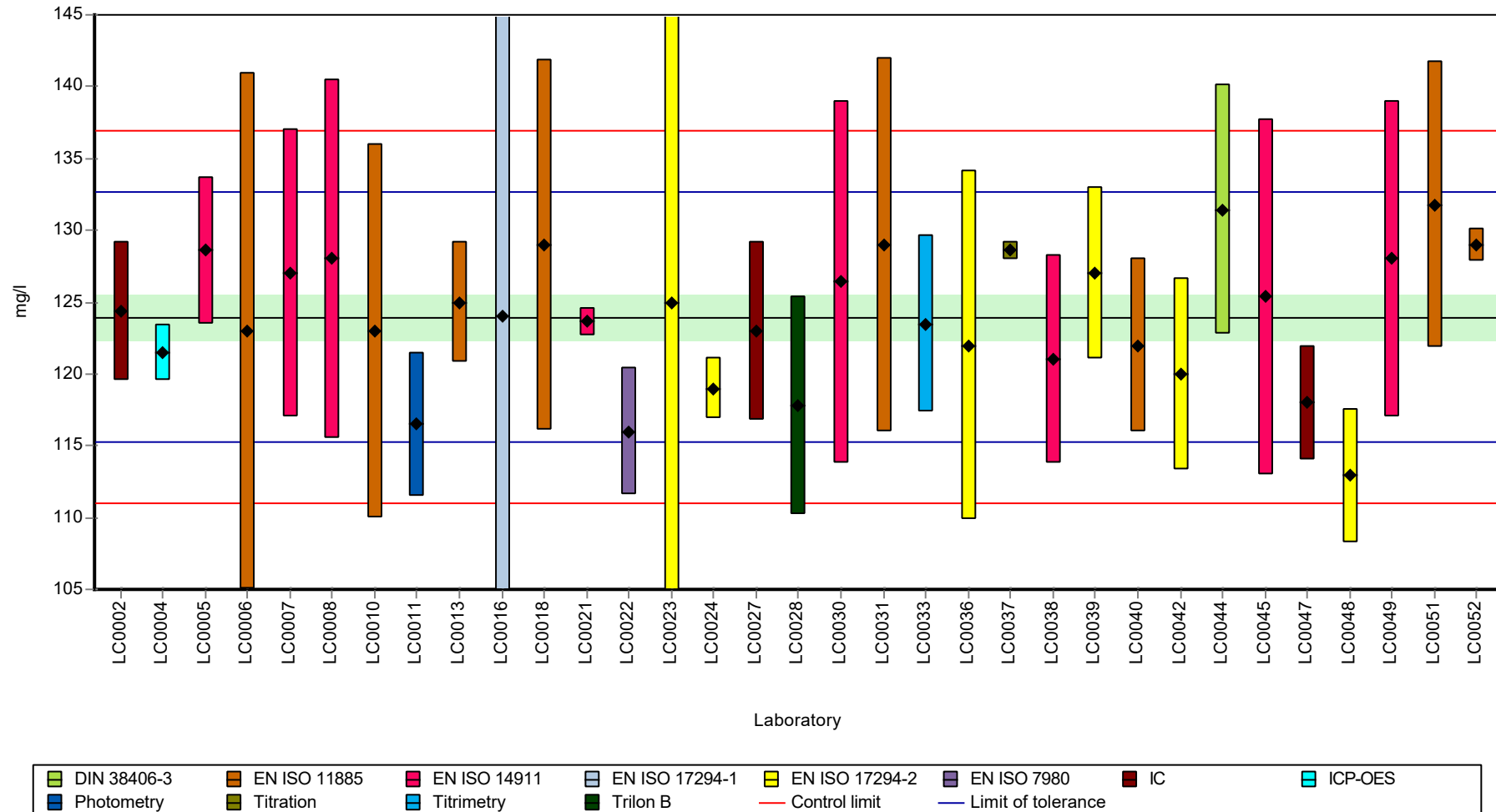
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 124 ± 2.4 | 124 ± 2.4 | mg/l |
| Minimum | 113 | 113 | mg/l |
| Maximum | 132 | 132 | mg/l |
| Standard deviation | 4.6 | 4.6 | mg/l |
| rel. standard deviation | 3.71 | 3.71 | % |
| n | 33 | 33 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Calcium

Graphical presentation of results

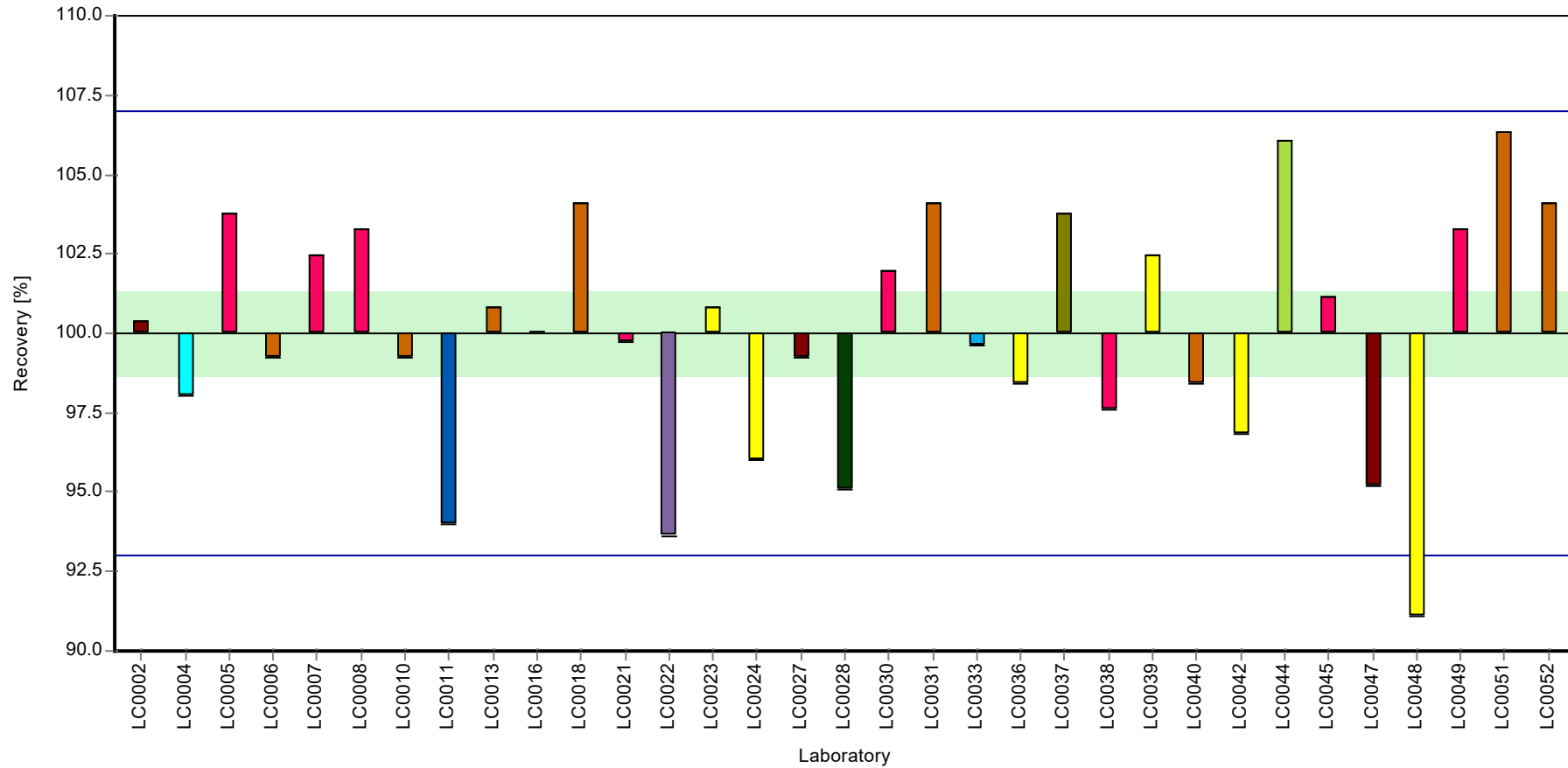
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Calcium

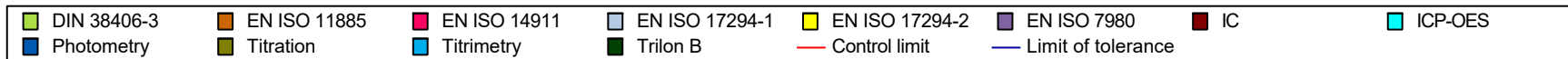
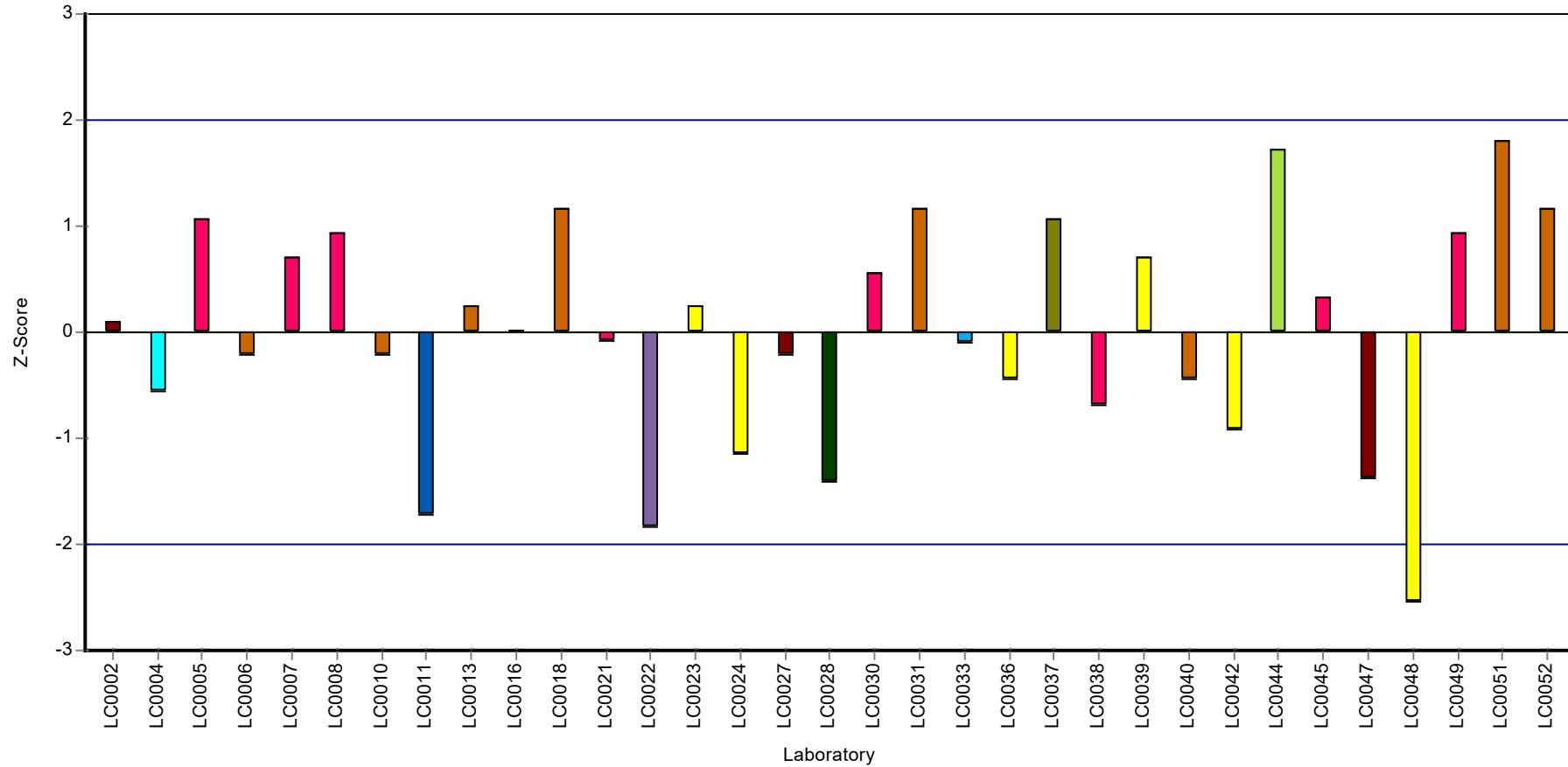
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Calcium

Z-score



Parameter oriented report

N165 B

Calcium

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 60.4 ± 0.834 |
| Criterion | 1.87 (3.1 %) |
| Minimum - Maximum | 54.5 - 65.6 |
| Control test value ± U (k=2) | 61.6 ± 12.3 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 60 | 2.34 | 99.3 | -0.23 | |
| LC0003 | - | - | - | - | |
| LC0004 | 60 | 2 | 99.3 | -0.23 | |
| LC0005 | 62.2 | 1.9 | 103 | 0.94 | |
| LC0006 | 61.3 | 9.2 | 101 | 0.46 | |
| LC0007 | 62.6 | 5 | 104 | 1.16 | |
| LC0008 | 61 | 6 | 101 | 0.3 | |
| LC0009 | - | - | - | - | |
| LC0010 | 59.2 | 6.31 | 98 | -0.66 | |
| LC0011 | 55.8 | 5 | 92.3 | -2.47 | |
| LC0012 | - | - | - | - | |
| LC0013 | 61.1 | 2.08 | 101 | 0.36 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 60.1 | 12.1 | 99.4 | -0.18 | |
| LC0017 | - | - | - | - | |
| LC0018 | 64.5 | 6.45 | 107 | 2.17 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 59.45 | 1 | 98.4 | -0.53 | |
| LC0022 | 56 | 2.1 | 92.7 | -2.37 | |
| LC0023 | 61.3 | 12 | 101 | 0.46 | |
| LC0024 | 59.2 | 1.106 | 98 | -0.66 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 59 | 3 | 97.6 | -0.77 | |
| LC0028 | 58.92 | 3.91 | 97.5 | -0.81 | |
| LC0029 | - | - | - | - | |
| LC0030 | 60.92 | 6.092 | 101 | 0.26 | |
| LC0031 | 62.1 | 6.5 | 103 | 0.89 | |
| LC0032 | - | - | - | - | |
| LC0033 | 60.52 | 3.18 | 100 | 0.05 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 59.4 | 5.9 | 98.3 | -0.55 | |
| LC0037 | 61 | 0.31 | 101 | 0.3 | |
| LC0038 | 59.5 | 3.57 | 98.5 | -0.5 | |
| LC0039 | 62.7 | 3 | 104 | 1.21 | |
| LC0040 | 59.7 | 2.985 | 98.8 | -0.39 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Calcium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 58.9 | 3.3 | 97.5 | -0.82 | |
| LC0043 | - | - | - | - | |
| LC0044 | 63.37 | 3.7 | 105 | 1.57 | |
| LC0045 | 61.022 | 6.1 | 101 | 0.31 | |
| LC0046 | - | - | - | - | |
| LC0047 | 58 | 2 | 96 | -1.3 | |
| LC0048 | 54.51 | 1.61 | 90.2 | -3.16 | |
| LC0049 | 60.9 | 5 | 101 | 0.25 | |
| LC0050 | - | - | - | - | |
| LC0051 | 65.62 | 4.967 | 109 | 2.77 | |
| LC0052 | 64.5 | 0.565 | 107 | 2.17 | |

Characteristics of parameter

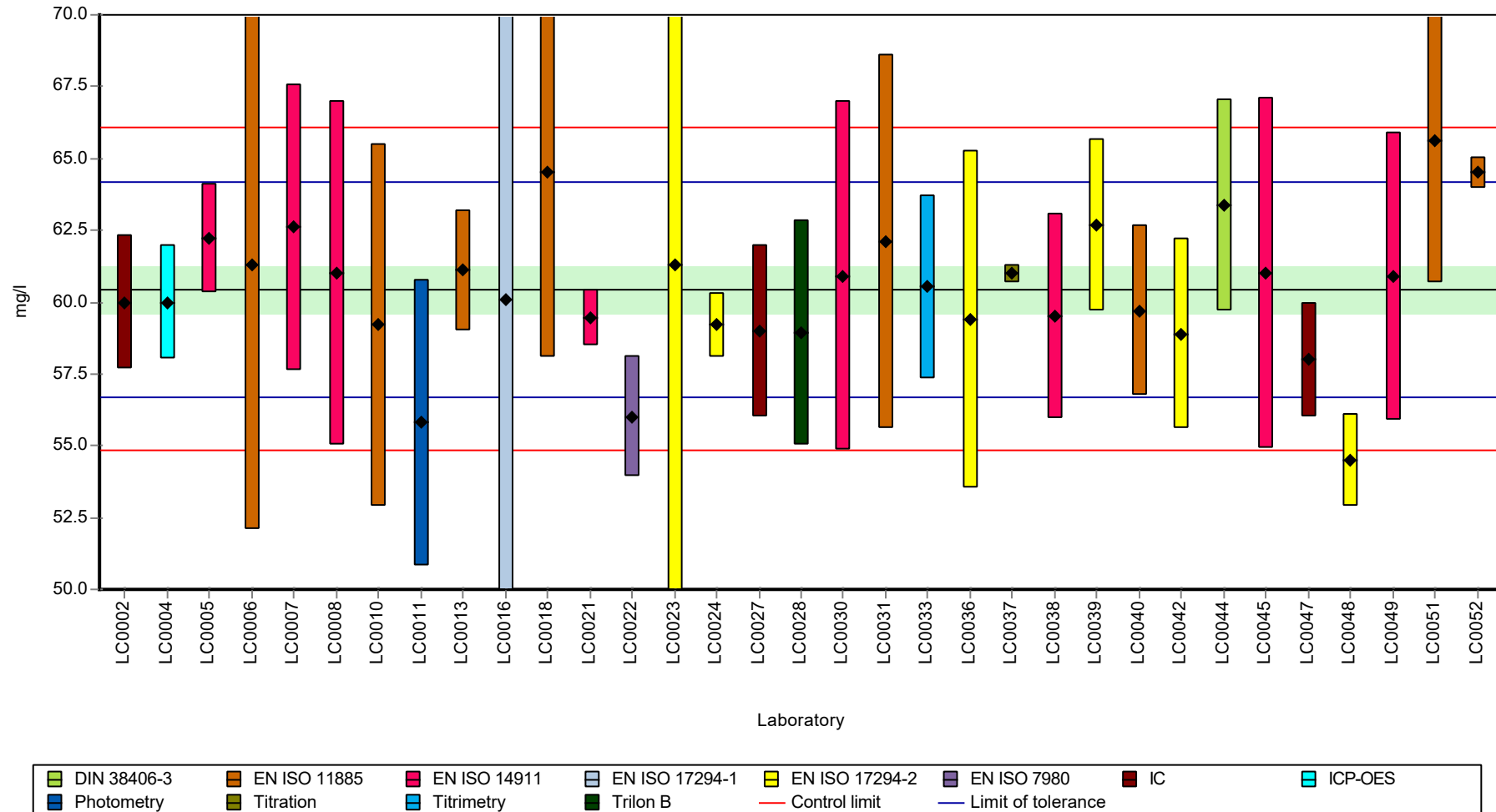
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 60.4 ± 1.25 | 60.4 ± 1.25 | mg/l |
| Minimum | 54.5 | 54.5 | mg/l |
| Maximum | 65.6 | 65.6 | mg/l |
| Standard deviation | 2.39 | 2.39 | mg/l |
| rel. standard deviation | 3.96 | 3.96 | % |
| n | 33 | 33 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Calcium

Graphical presentation of results

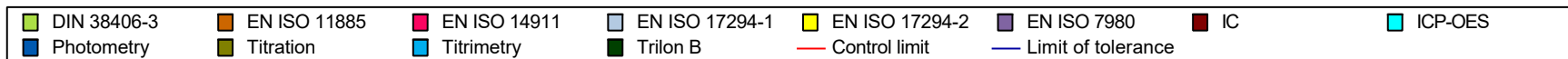
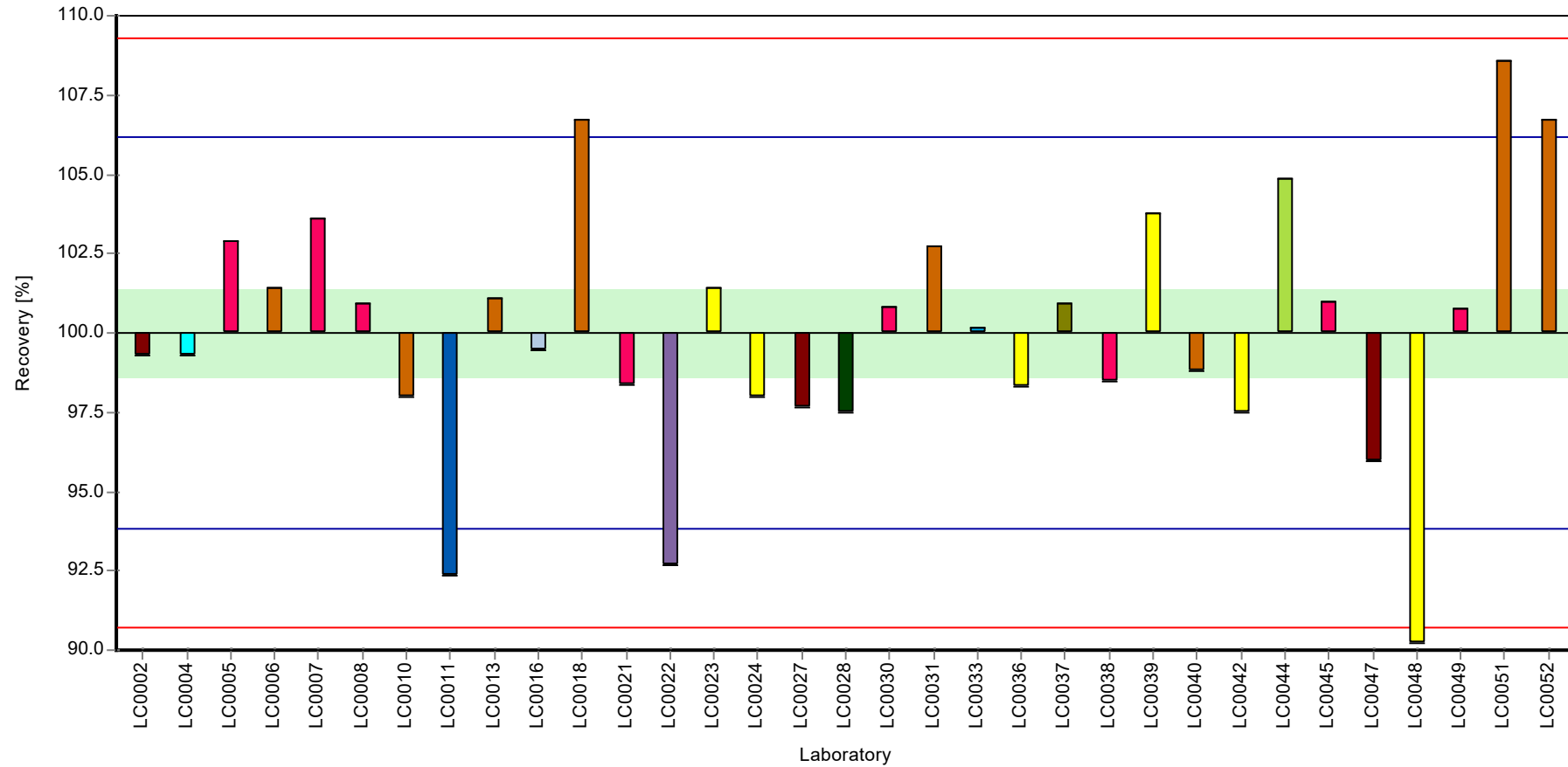
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Calcium

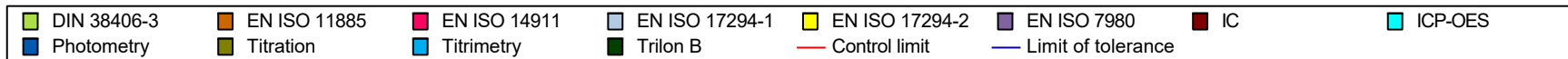
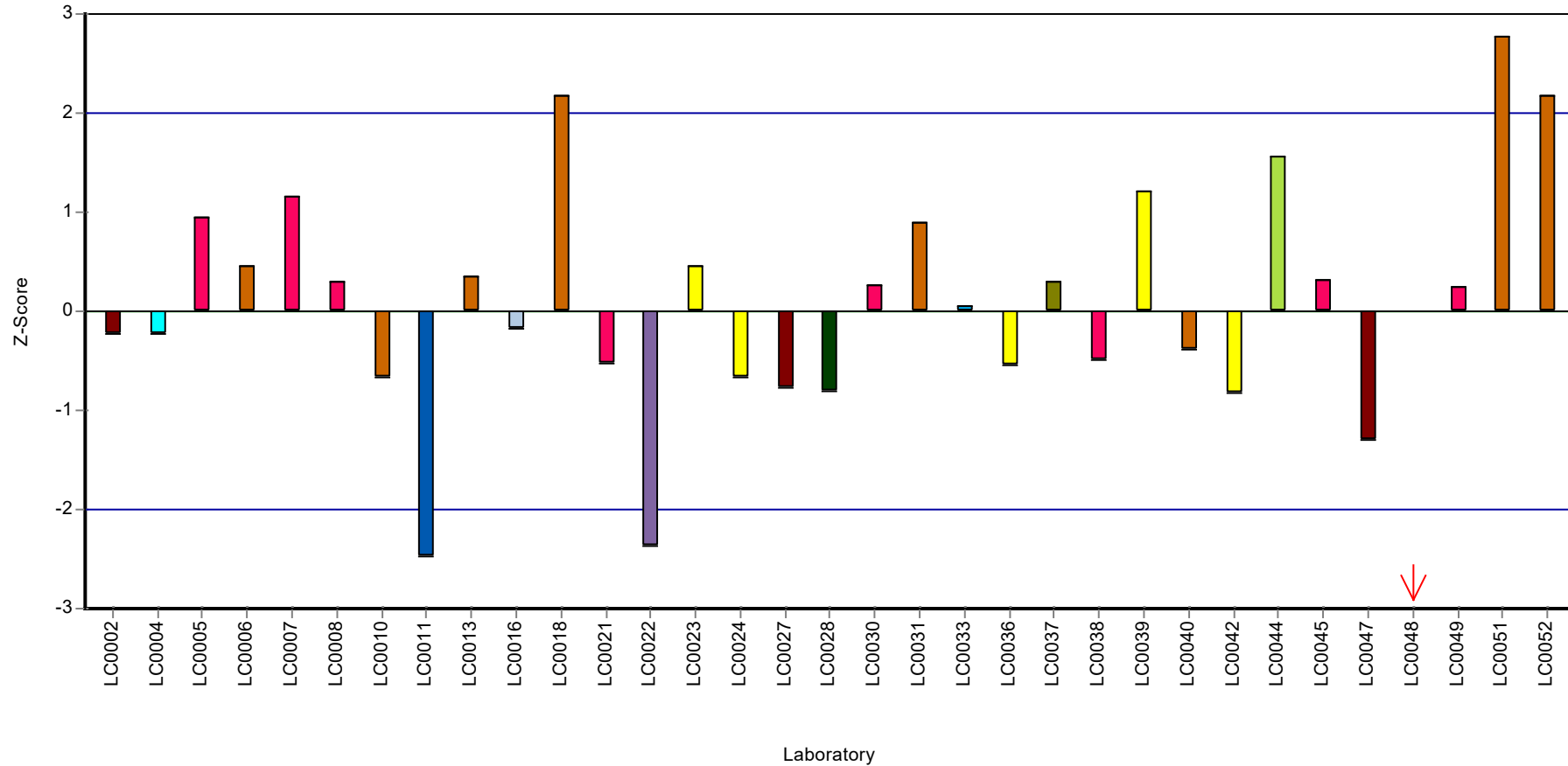
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Calcium

Z-score



Parameter oriented report

N165 A

Chloride

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 57.6 ± 0.558 |
| Criterion | 2.3 (4 %) |
| Minimum - Maximum | 53.4 - 60.7 |
| Control test value ± U (k=2) | 55.9 ± 5.59 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 58.04 | 2.73 | 101 | 0.19 | |
| LC0003 | 56.8 | 2.488 | 98.6 | -0.35 | |
| LC0004 | 58.85 | 1 | 102 | 0.54 | |
| LC0005 | 57.8 | 1.8 | 100 | 0.09 | |
| LC0006 | 58.4 | 5.8 | 101 | 0.35 | |
| LC0007 | 57 | 4.7 | 99 | -0.26 | |
| LC0008 | 57.5 | 2.8 | 99.8 | -0.04 | |
| LC0009 | 56.668 | 7.412 | 98.4 | -0.4 | |
| LC0010 | 57.3 | 9.6 | 99.5 | -0.13 | |
| LC0011 | 55.95 | 1 | 97.1 | -0.72 | |
| LC0012 | 57.7 | 1.67 | 100 | 0.04 | |
| LC0013 | 59.9 | 3.68 | 104 | 1 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 57.39 | 5.7 | 99.6 | -0.09 | |
| LC0017 | 60.7 | 0.62 | 105 | 1.35 | |
| LC0018 | 57.5 | 5.2 | 99.8 | -0.04 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 56.65 | 0.2 | 98.4 | -0.41 | |
| LC0022 | 58.1 | 3.7 | 101 | 0.22 | |
| LC0023 | 60.3 | 9 | 105 | 1.17 | |
| LC0024 | 59.3 | 0.351 | 103 | 0.74 | |
| LC0025 | 59.6 | 2.7 | 103 | 0.87 | |
| LC0026 | - | - | - | - | |
| LC0027 | 58.2 | 2.9 | 101 | 0.26 | |
| LC0028 | 66.18 | 3.39 | 115 | 3.73 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 57.93 | 2.897 | 101 | 0.14 | |
| LC0031 | 57 | 5 | 99 | -0.26 | |
| LC0032 | 59.5 | 5.95 | 103 | 0.83 | |
| LC0033 | 58.65 | 2.9 | 102 | 0.46 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 56.46 | 2.82 | 98 | -0.49 | |
| LC0037 | 53.43 | 1.6 | 92.8 | -1.81 | |
| LC0038 | - | - | - | - | |
| LC0039 | 58.6 | 4.6 | 102 | 0.44 | |
| LC0040 | 50 | 2.5 | 86.8 | -3.3 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Chloride

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 55.6 | 12.3 | 96.5 | -0.87 | |
| LC0043 | - | - | - | - | |
| LC0044 | 57.98 | 3.2 | 101 | 0.17 | |
| LC0045 | 56.122 | 5.6 | 97.4 | -0.64 | |
| LC0046 | - | - | - | - | |
| LC0047 | 59 | 2 | 102 | 0.61 | |
| LC0048 | 54.39 | 0.35 | 94.4 | -1.39 | |
| LC0049 | 58.4 | 4 | 101 | 0.35 | |
| LC0050 | 53.6 | 3 | 93.1 | -1.74 | |
| LC0051 | 51.88 | 4.244 | 90.1 | -2.48 | H |
| LC0052 | 57.2 | 0.821 | 99.3 | -0.17 | |

Characteristics of parameter

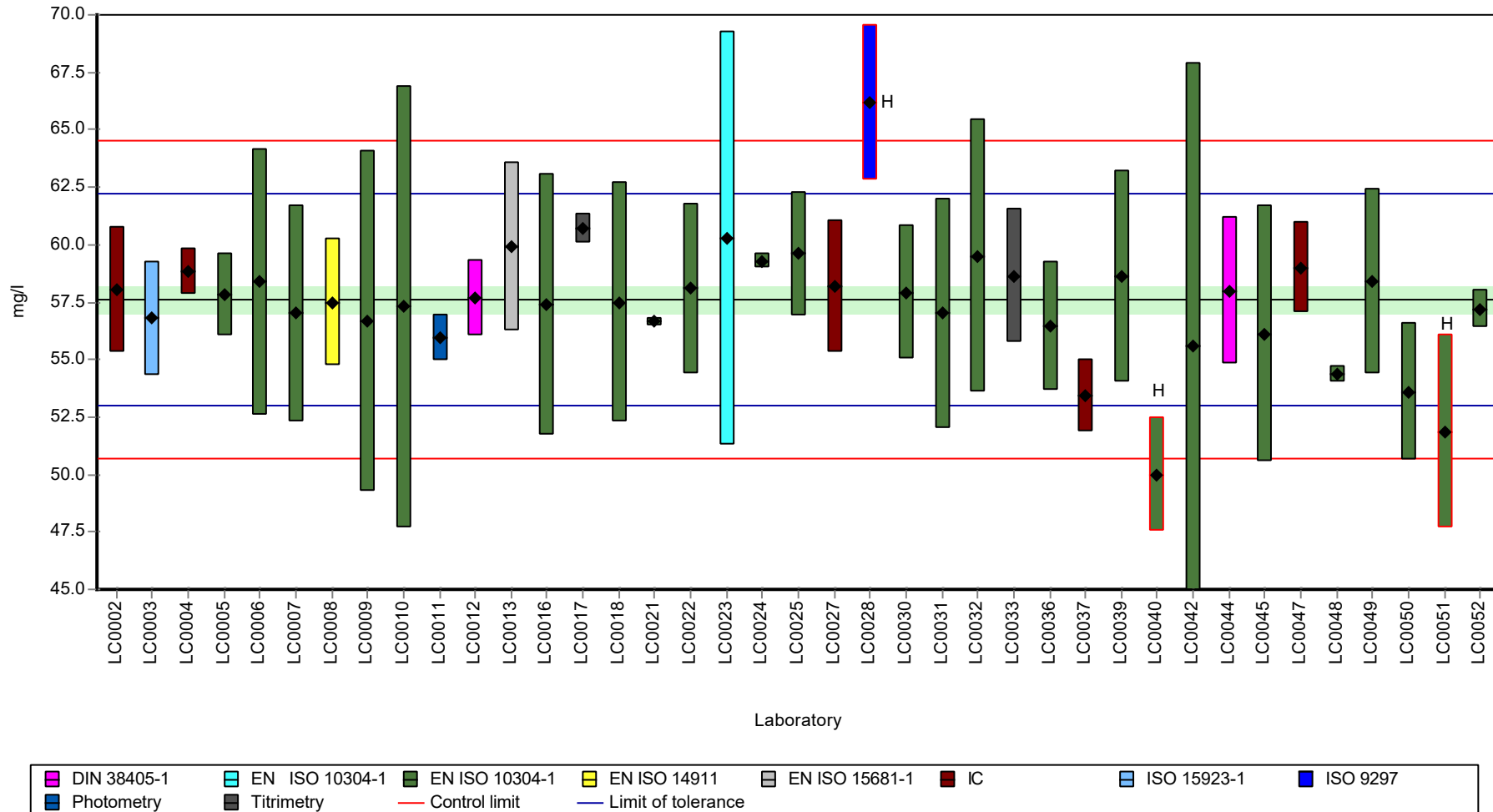
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 57.5 ± 1.26 | 57.6 ± 0.837 | mg/l |
| Minimum | 50 | 53.4 | mg/l |
| Maximum | 66.2 | 60.7 | mg/l |
| Standard deviation | 2.62 | 1.67 | mg/l |
| rel. standard deviation | 4.56 | 2.91 | % |
| n | 39 | 36 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Chloride

Graphical presentation of results

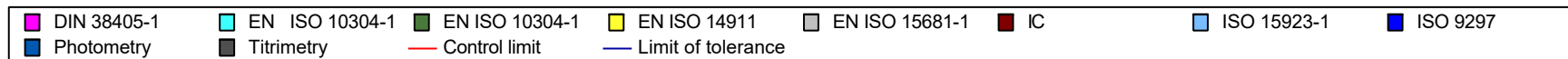
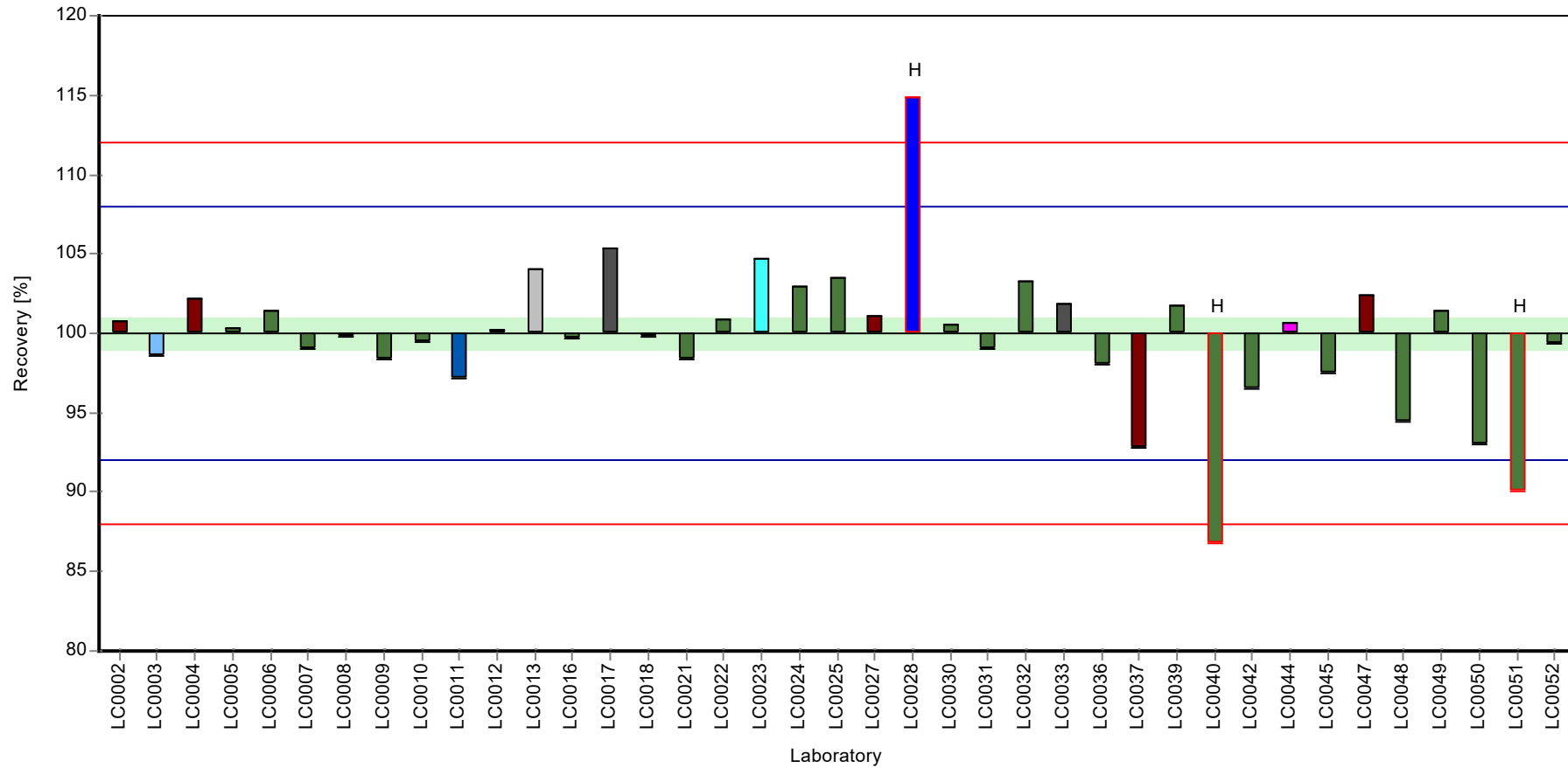
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Chloride

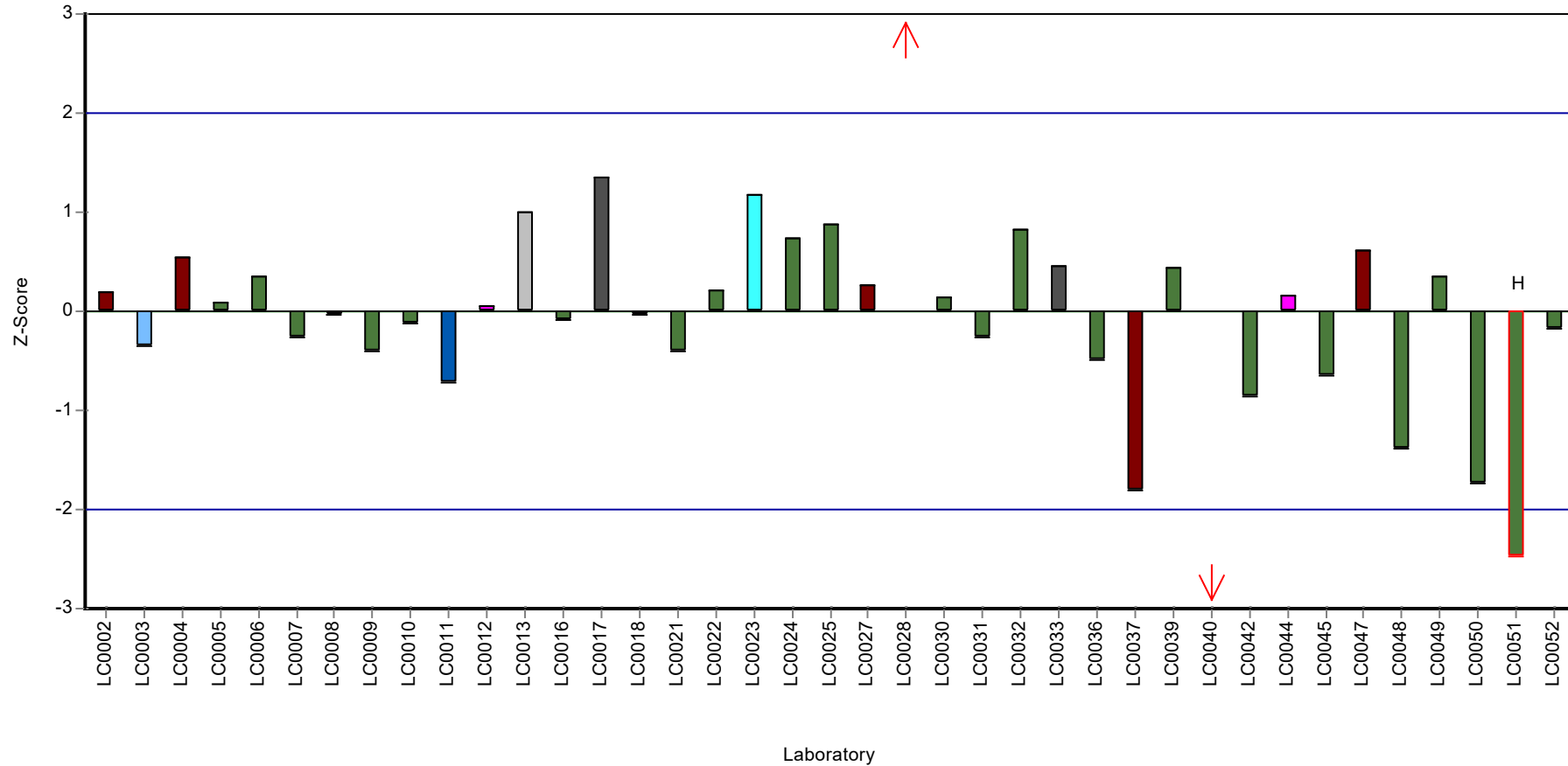
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Chloride

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Chloride

Parameter oriented report

N165 B

Chloride

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 25.6 ± 0.265 |
| Criterion | 1.03 (4 %) |
| Minimum - Maximum | 23.9 - 27.2 |
| Control test value ± U (k=2) | 25.3 ± 2.53 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 25.72 | 1.21 | 100 | 0.08 | |
| LC0003 | 26 | 1.14 | 101 | 0.36 | |
| LC0004 | 23.9 | 1 | 93.2 | -1.69 | |
| LC0005 | 25.9 | 0.8 | 101 | 0.26 | |
| LC0006 | 26.7 | 2.7 | 104 | 1.04 | |
| LC0007 | 24.7 | 2 | 96.4 | -0.91 | |
| LC0008 | 25.4 | 1.2 | 99.1 | -0.23 | |
| LC0009 | 25.568 | 3.344 | 99.7 | -0.06 | |
| LC0010 | 25.3 | 4.4 | 98.7 | -0.32 | |
| LC0011 | 27.15 | 1 | 106 | 1.48 | |
| LC0012 | 25.7 | 1.64 | 100 | 0.07 | |
| LC0013 | 25.9 | 1.59 | 101 | 0.26 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 24.94 | 2.5 | 97.3 | -0.68 | |
| LC0017 | 27.1 | 0.27 | 106 | 1.43 | |
| LC0018 | 26.1 | 2.349 | 102 | 0.46 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 25.35 | 0.2 | 98.9 | -0.28 | |
| LC0022 | 25.9 | 1.6 | 101 | 0.26 | |
| LC0023 | 26.3 | 3.9 | 103 | 0.65 | |
| LC0024 | 26 | 0.208 | 101 | 0.36 | |
| LC0025 | 25.6 | 1.1 | 99.9 | -0.03 | |
| LC0026 | - | - | - | - | |
| LC0027 | 25.5 | 1.3 | 99.5 | -0.13 | |
| LC0028 | 32 | 2.36 | 125 | 6.21 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 25.71 | 1.286 | 100 | 0.07 | |
| LC0031 | 25 | 2.5 | 97.5 | -0.62 | |
| LC0032 | 26.6 | 2.66 | 104 | 0.94 | |
| LC0033 | 26.65 | 2 | 104 | 0.99 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 24.94 | 1.247 | 97.3 | -0.68 | |
| LC0037 | 23.98 | 0.72 | 93.6 | -1.61 | |
| LC0038 | - | - | - | - | |
| LC0039 | 26.2 | 2.2 | 102 | 0.55 | |
| LC0040 | 24.4 | 1.22 | 95.2 | -1.2 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Chloride

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 25.1 | 5.54 | 97.9 | -0.52 | |
| LC0043 | - | - | - | - | |
| LC0044 | 25.93 | 1.3 | 101 | 0.29 | |
| LC0045 | 25.513 | 2.6 | 99.5 | -0.12 | |
| LC0046 | - | - | - | - | |
| LC0047 | 27 | 2 | 105 | 1.33 | |
| LC0048 | 24.94 | 0.095 | 97.3 | -0.68 | |
| LC0049 | 26 | 2 | 101 | 0.36 | |
| LC0050 | 23.3 | 1.3 | 90.9 | -2.28 | H |
| LC0051 | 24.335 | 1.991 | 94.9 | -1.27 | |
| LC0052 | 25.4 | 0.416 | 99.1 | -0.23 | |

Characteristics of parameter

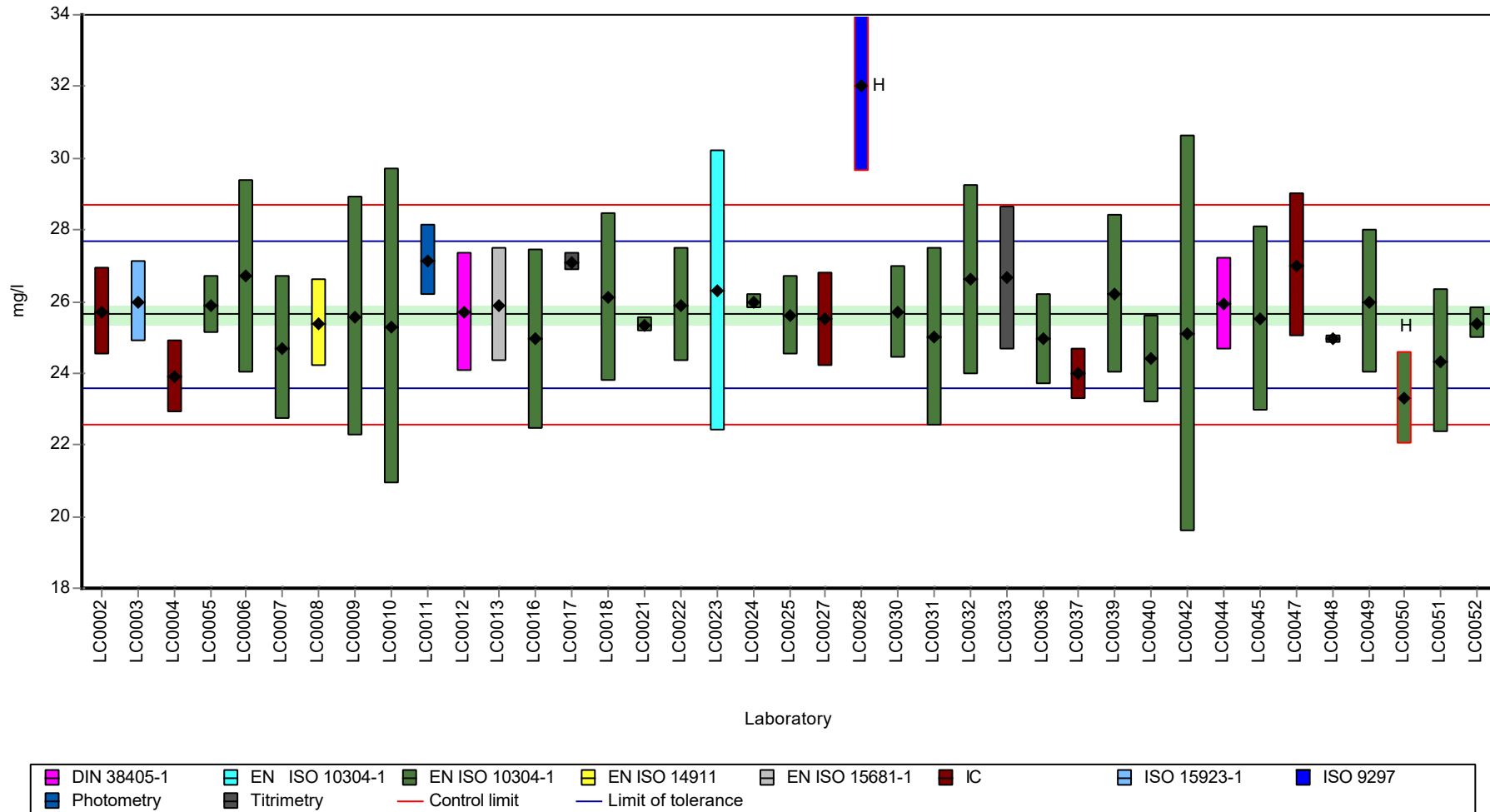
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 25.7 ± 0.647 | 25.6 ± 0.398 | mg/l |
| Minimum | 23.3 | 23.9 | mg/l |
| Maximum | 32 | 27.2 | mg/l |
| Standard deviation | 1.35 | 0.806 | mg/l |
| rel. standard deviation | 5.23 | 3.15 | % |
| n | 39 | 37 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Chloride

Graphical presentation of results

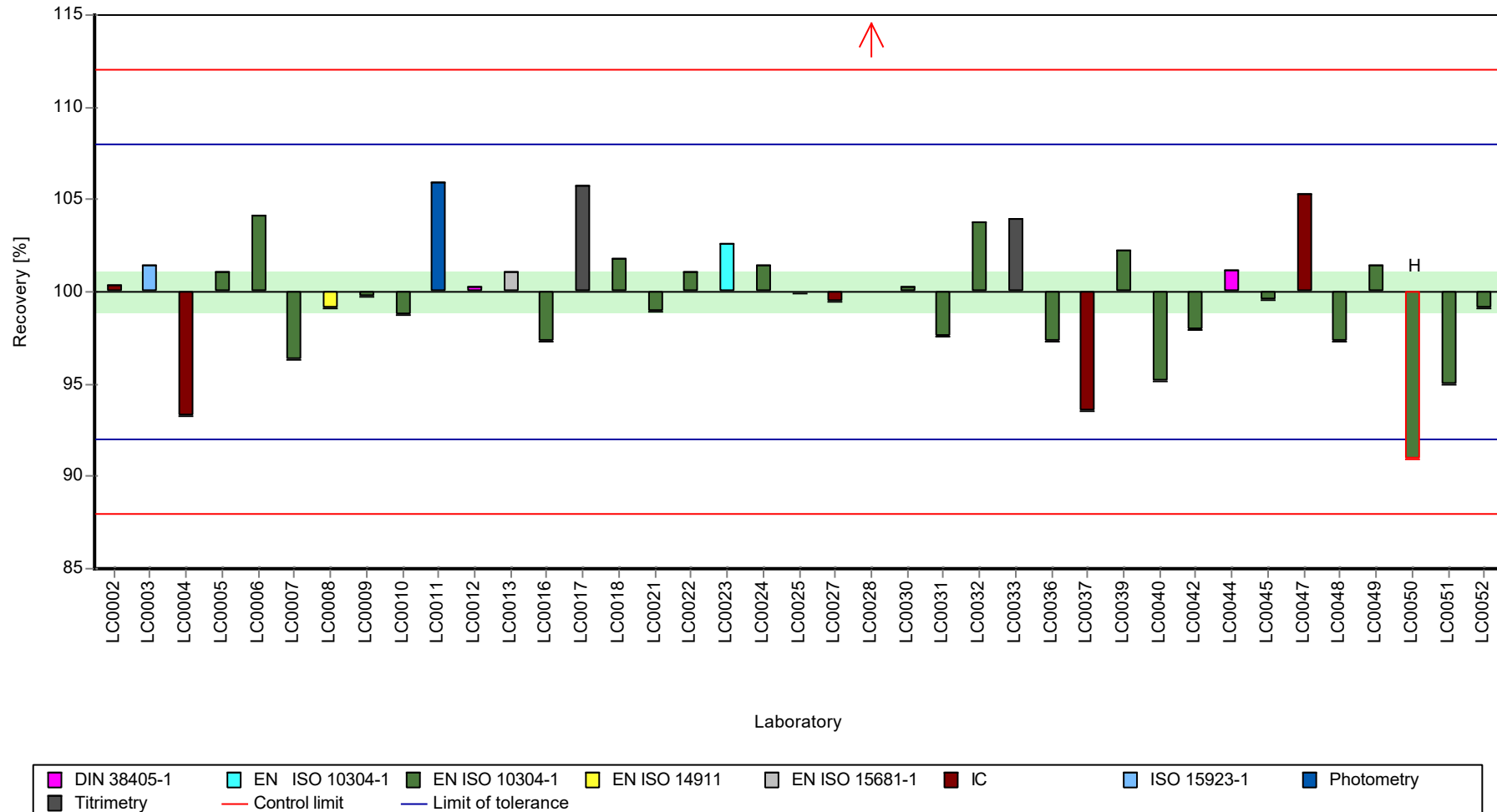
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Chloride

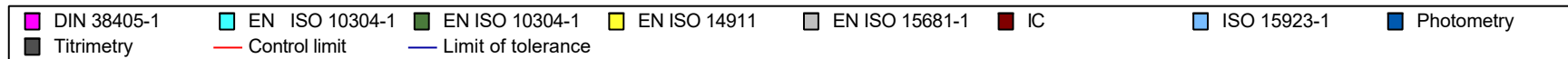
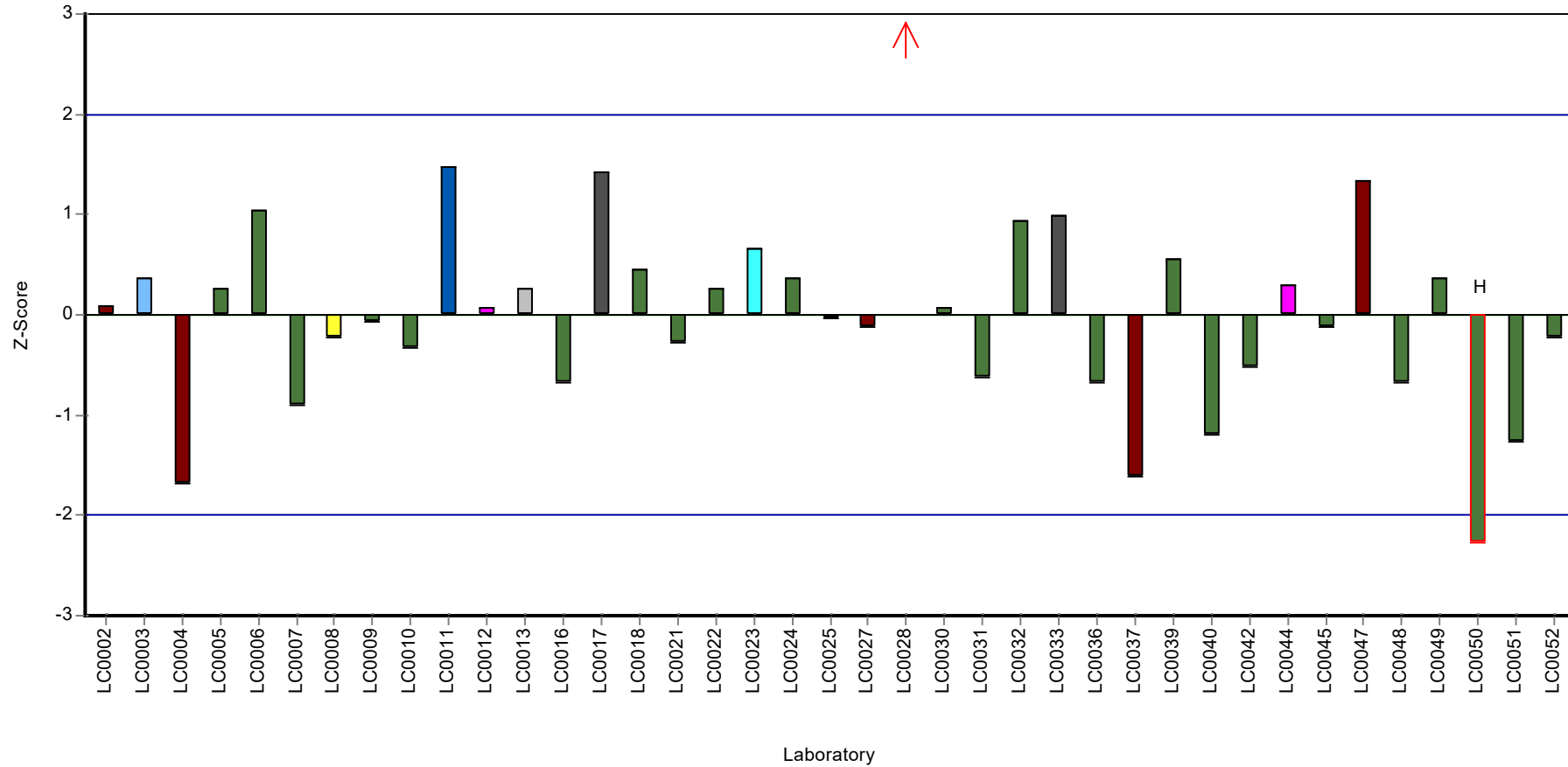
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Chloride

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165ADOC, Parameter: DOC (as C)

Parameter oriented report

N165 A DOC

DOC (as C)

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 1.38 ± 0.0704 |
| Criterion | 0.193 (14 %) |
| Minimum - Maximum | 1.01 - 1.79 |
| Control test value ± U (k=2) | 1.31 ± 0.236 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 1.31 | 0.23 | 95 | -0.36 | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 1.36 | 0.07 | 98.6 | -0.1 | |
| LC0006 | 1.19 | 0.24 | 86.3 | -0.98 | |
| LC0007 | 1.37 | 0.34 | 99.3 | -0.05 | |
| LC0008 | - | - | - | - | |
| LC0009 | 1.37 | 0.247 | 99.3 | -0.05 | |
| LC0010 | 1.16 | 0.25 | 84.1 | -1.13 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 1.08 | 0.097 | 78.3 | -1.55 | |
| LC0014 | - | - | - | - | |
| LC0015 | 2.32 | 0.27 | 168 | 4.87 | H |
| LC0016 | 1.338 | 0.13 | 97 | -0.21 | |
| LC0017 | - | - | - | - | |
| LC0018 | 1.26 | 0.126 | 91.4 | -0.62 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 1.649 | 0.2 | 120 | 1.4 | |
| LC0022 | 1.45 | 0.052 | 105 | 0.37 | |
| LC0023 | 1.15 | 0.35 | 83.4 | -1.19 | |
| LC0024 | 1.01 | 0.015 | 73.2 | -1.91 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 1.45 | 0.15 | 105 | 0.37 | |
| LC0028 | 1.27 | 0.03 | 92.1 | -0.56 | |
| LC0029 | 1.59 | 0.25 | 115 | 1.09 | |
| LC0030 | 1.3 | 0.1 | 94.3 | -0.41 | |
| LC0031 | 1.08 | 0.1 | 78.3 | -1.55 | |
| LC0032 | 1.59 | 0.397 | 115 | 1.09 | |
| LC0033 | - | - | - | - | |
| LC0034 | - | - | - | - | |
| LC0035 | 1.79 | 0.22 | 130 | 2.13 | |
| LC0036 | 1.572 | 0.284 | 114 | 1 | |
| LC0037 | 1.271 | 0.095 | 92.2 | -0.56 | |
| LC0038 | 1.37 | 0.15 | 99.3 | -0.05 | |
| LC0039 | 1.63 | 0.41 | 118 | 1.3 | |
| LC0040 | 1.35 | 0.108 | 97.9 | -0.15 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165ADOC, Parameter: DOC (as C)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 1.67 | 0.25 | 121 | 1.51 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 1.4 | 0.15 | 102 | 0.11 | |
| LC0046 | - | - | - | - | |
| LC0047 | 1.6 | 0.2 | 116 | 1.14 | |
| LC0048 | - | - | - | - | |
| LC0049 | 1.34 | 0.2 | 97.2 | -0.2 | |
| LC0050 | - | - | - | - | |
| LC0051 | 1.58 | 0.162 | 115 | 1.04 | |
| LC0052 | 1.2 | 0.0957 | 87 | -0.93 | |

Characteristics of parameter

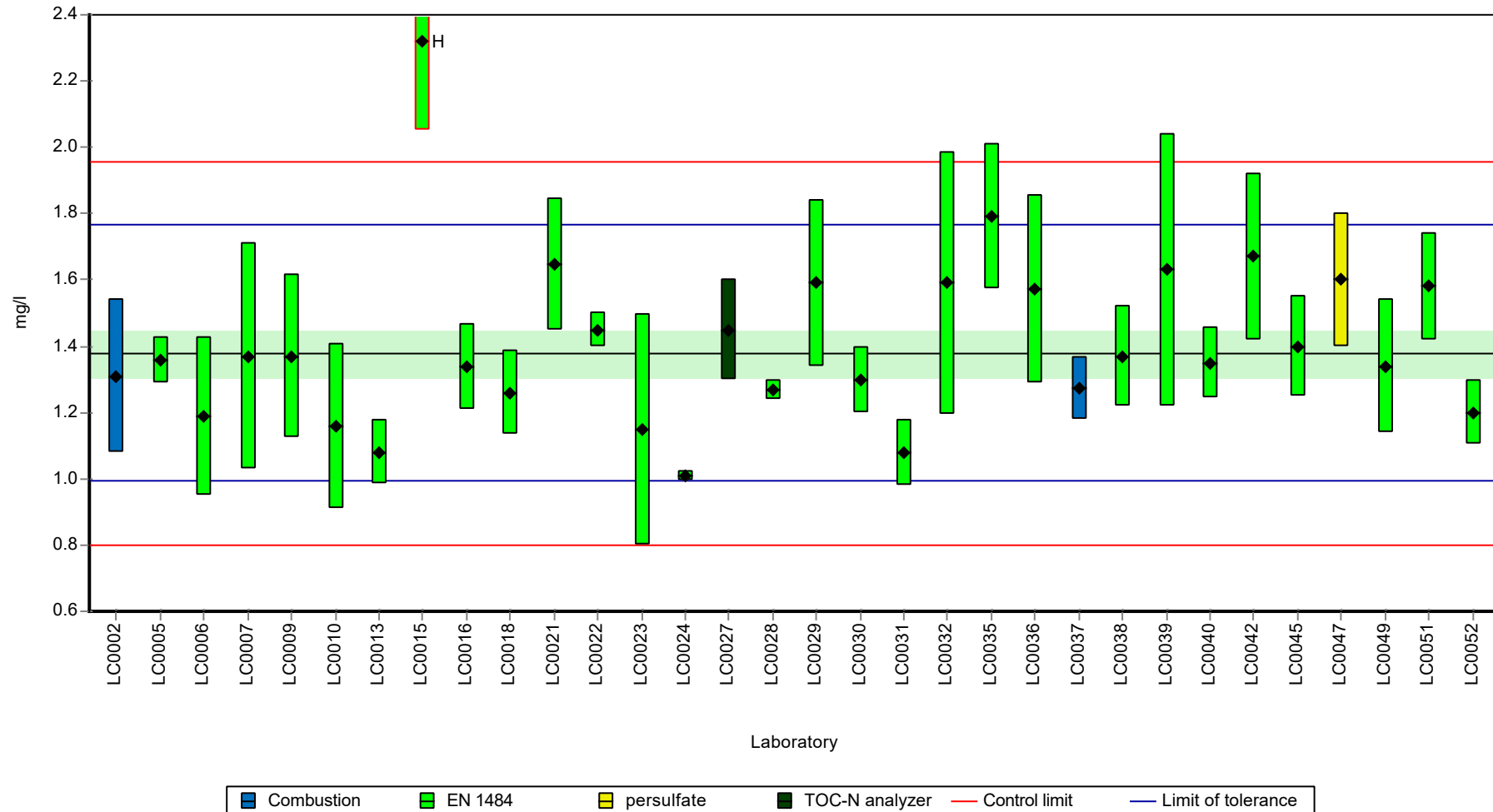
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 1.41 ± 0.135 | 1.38 ± 0.106 | mg/l |
| Minimum | 1.01 | 1.01 | mg/l |
| Maximum | 2.32 | 1.79 | mg/l |
| Standard deviation | 0.255 | 0.196 | mg/l |
| rel. standard deviation | 18.1 | 14.2 | % |
| n | 32 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165ADOC, Parameter: DOC (as C)

Graphical presentation of results

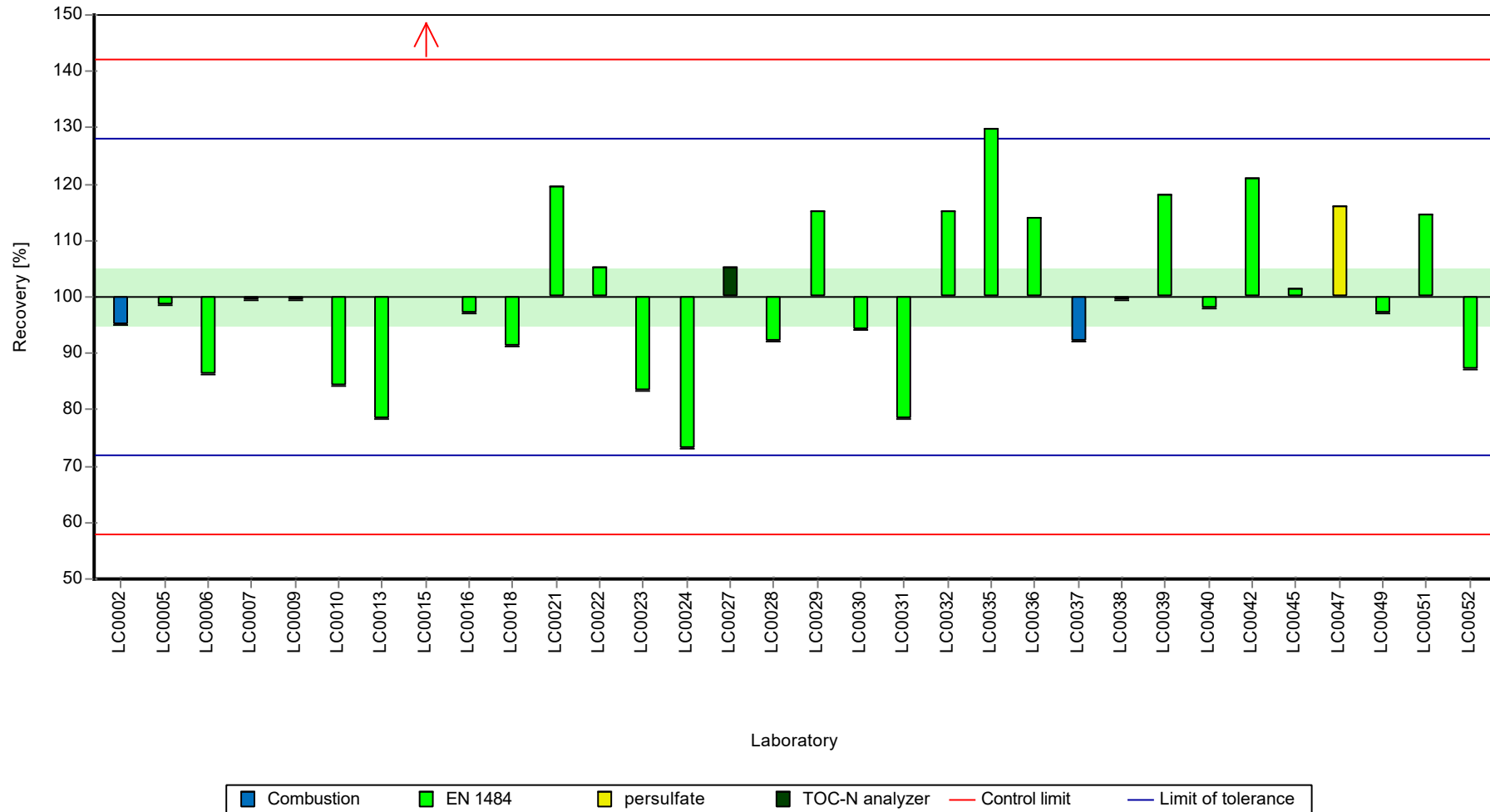
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165ADOC, Parameter: DOC (as C)

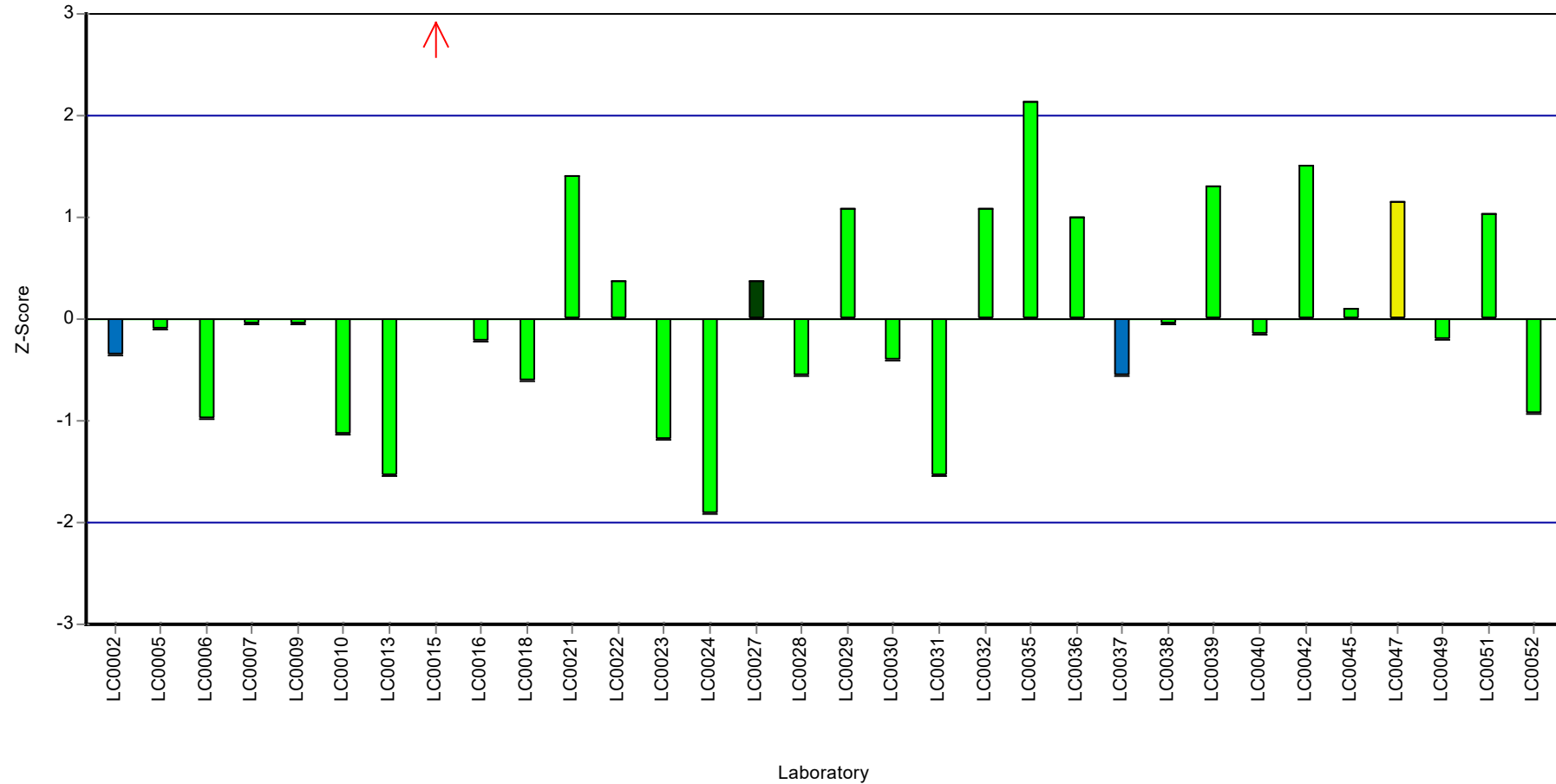
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165ADOC, Parameter: DOC (as C)

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165BDOC, Parameter: DOC (as C)

Parameter oriented report

N165 B DOC

DOC (as C)

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 3.37 ± 0.0669 |
| Criterion | 0.337 (10 %) |
| Minimum - Maximum | 3 - 3.75 |
| Control test value ± U (k=2) | 3.28 ± 0.59 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 3.2 | 0.56 | 94.8 | -0.52 | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 3.36 | 0.17 | 99.6 | -0.04 | |
| LC0006 | 3.27 | 0.65 | 96.9 | -0.31 | |
| LC0007 | 3.41 | 0.41 | 101 | 0.11 | |
| LC0008 | - | - | - | - | |
| LC0009 | 3.43 | 0.617 | 102 | 0.17 | |
| LC0010 | 3 | 0.3 | 88.9 | -1.11 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 2.78 | 0.249 | 82.4 | -1.76 | H |
| LC0014 | - | - | - | - | |
| LC0015 | 3.53 | 0.41 | 105 | 0.46 | |
| LC0016 | 3.426 | 0.34 | 102 | 0.15 | |
| LC0017 | - | - | - | - | |
| LC0018 | 3.39 | 0.339 | 100 | 0.05 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 3.67 | 0.2 | 109 | 0.88 | |
| LC0022 | 3.35 | 0.12 | 99.3 | -0.07 | |
| LC0023 | 3 | 0.9 | 88.9 | -1.11 | |
| LC0024 | 2.78 | 0.036 | 82.4 | -1.76 | H |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 3.3 | 0.33 | 97.8 | -0.22 | |
| LC0028 | 3.36 | 0.07 | 99.6 | -0.04 | |
| LC0029 | 3.42 | 0.55 | 101 | 0.14 | |
| LC0030 | 3.3 | 0.26 | 97.8 | -0.22 | |
| LC0031 | 3 | 0.3 | 88.9 | -1.11 | |
| LC0032 | 3.52 | 0.881 | 104 | 0.43 | |
| LC0033 | - | - | - | - | |
| LC0034 | - | - | - | - | |
| LC0035 | 3.75 | 0.47 | 111 | 1.11 | |
| LC0036 | 3.419 | 0.62 | 101 | 0.13 | |
| LC0037 | 3.334 | 0.25 | 98.8 | -0.12 | |
| LC0038 | 3.25 | 0.357 | 96.3 | -0.37 | |
| LC0039 | 3.64 | 0.73 | 108 | 0.79 | |
| LC0040 | 3.45 | 0.276 | 102 | 0.22 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165BDOC, Parameter: DOC (as C)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 3.63 | 0.54 | 108 | 0.76 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 3.37 | 0.33 | 99.9 | -0.01 | |
| LC0046 | - | - | - | - | |
| LC0047 | 3.3 | 0.3 | 97.8 | -0.22 | |
| LC0048 | - | - | - | - | |
| LC0049 | 3.48 | 0.5 | 103 | 0.31 | |
| LC0050 | - | - | - | - | |
| LC0051 | 3.47 | 0.356 | 103 | 0.28 | |
| LC0052 | 3.2 | 0.0919 | 94.8 | -0.52 | |

Characteristics of parameter

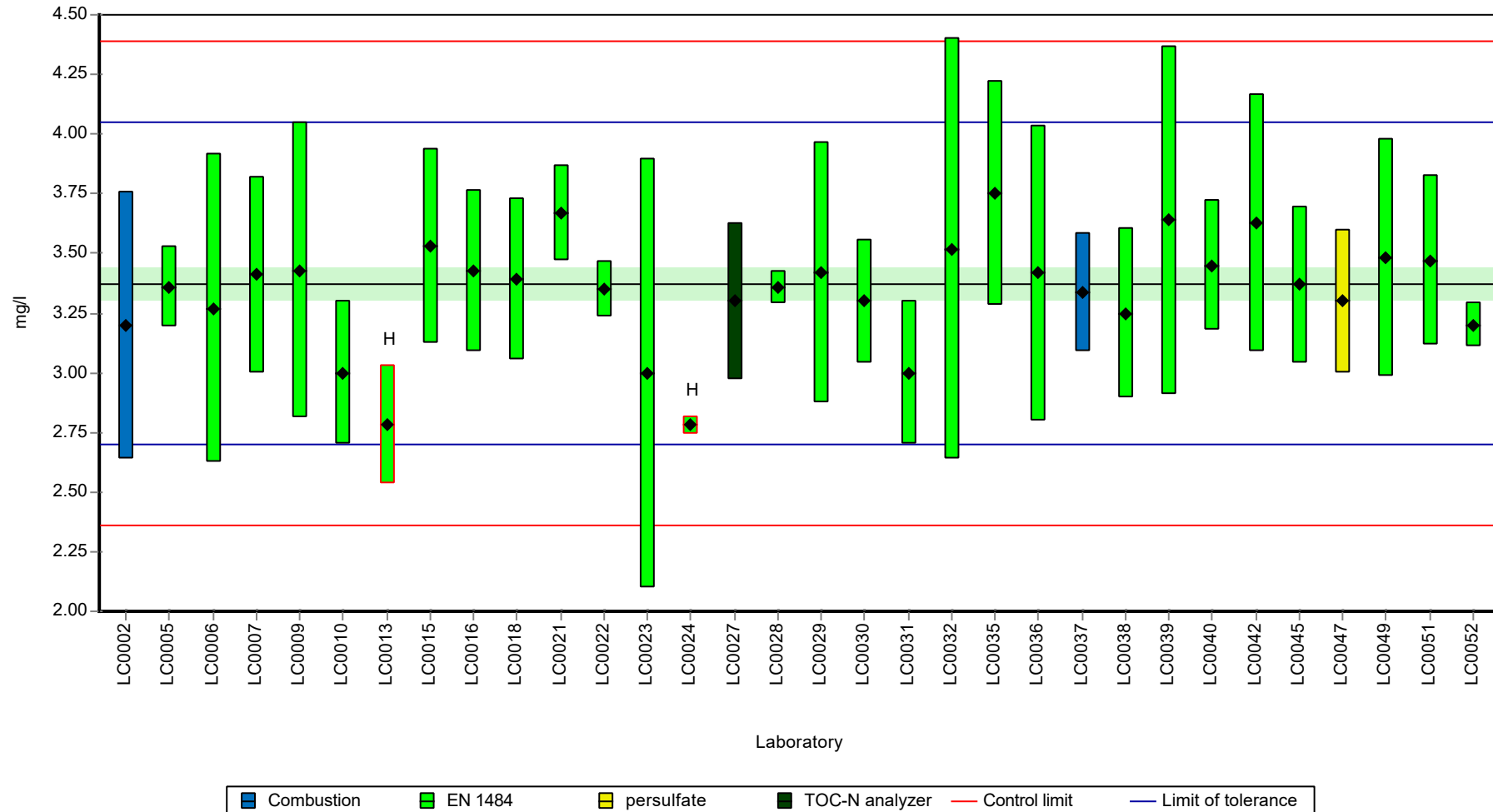
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 3.34 ± 0.122 | 3.37 ± 0.1 | mg/l |
| Minimum | 2.78 | 3 | mg/l |
| Maximum | 3.75 | 3.75 | mg/l |
| Standard deviation | 0.23 | 0.183 | mg/l |
| rel. standard deviation | 6.88 | 5.43 | % |
| n | 32 | 30 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165BDOC, Parameter: DOC (as C)

Graphical presentation of results

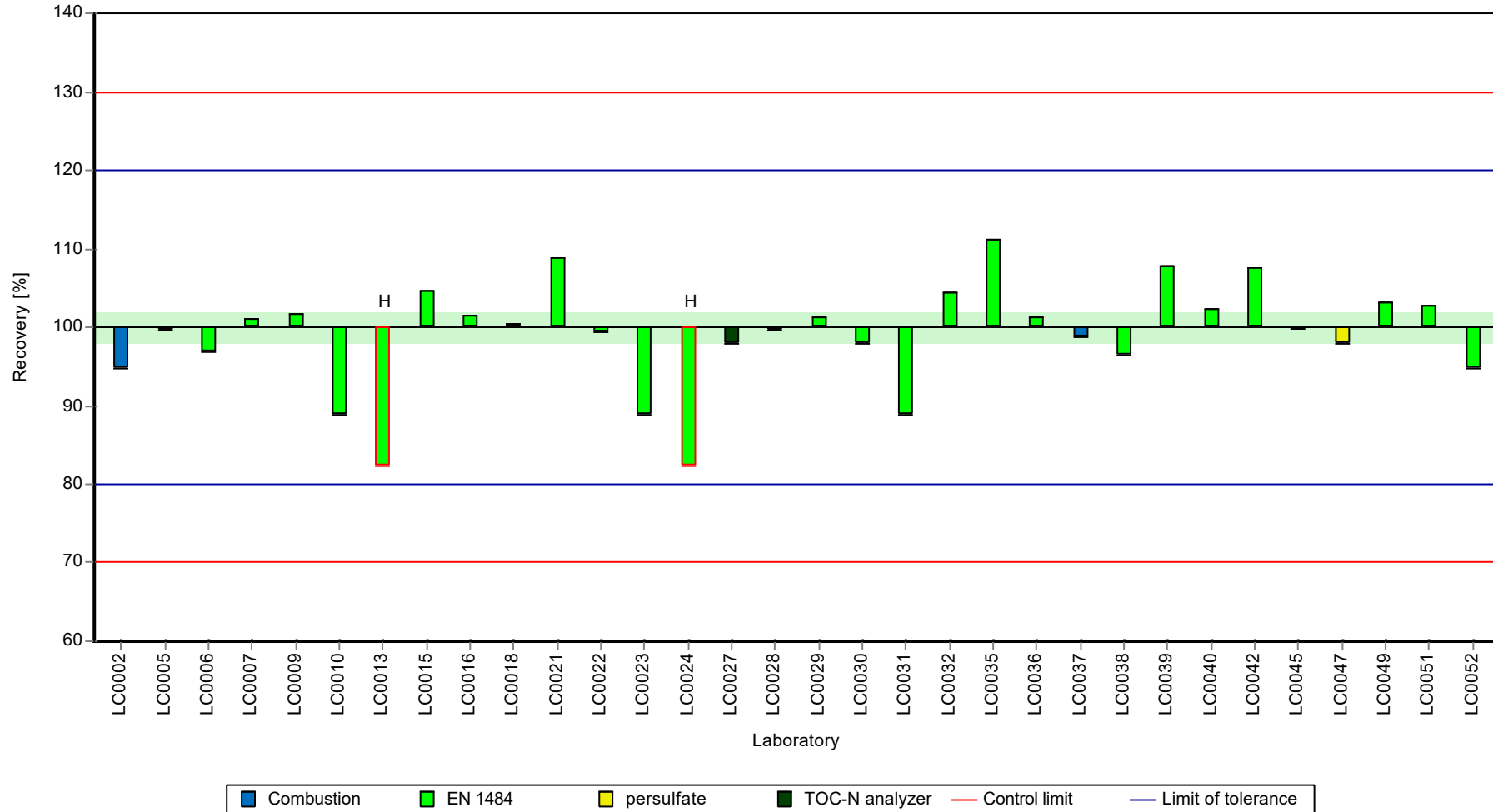
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165BDOC, Parameter: DOC (as C)

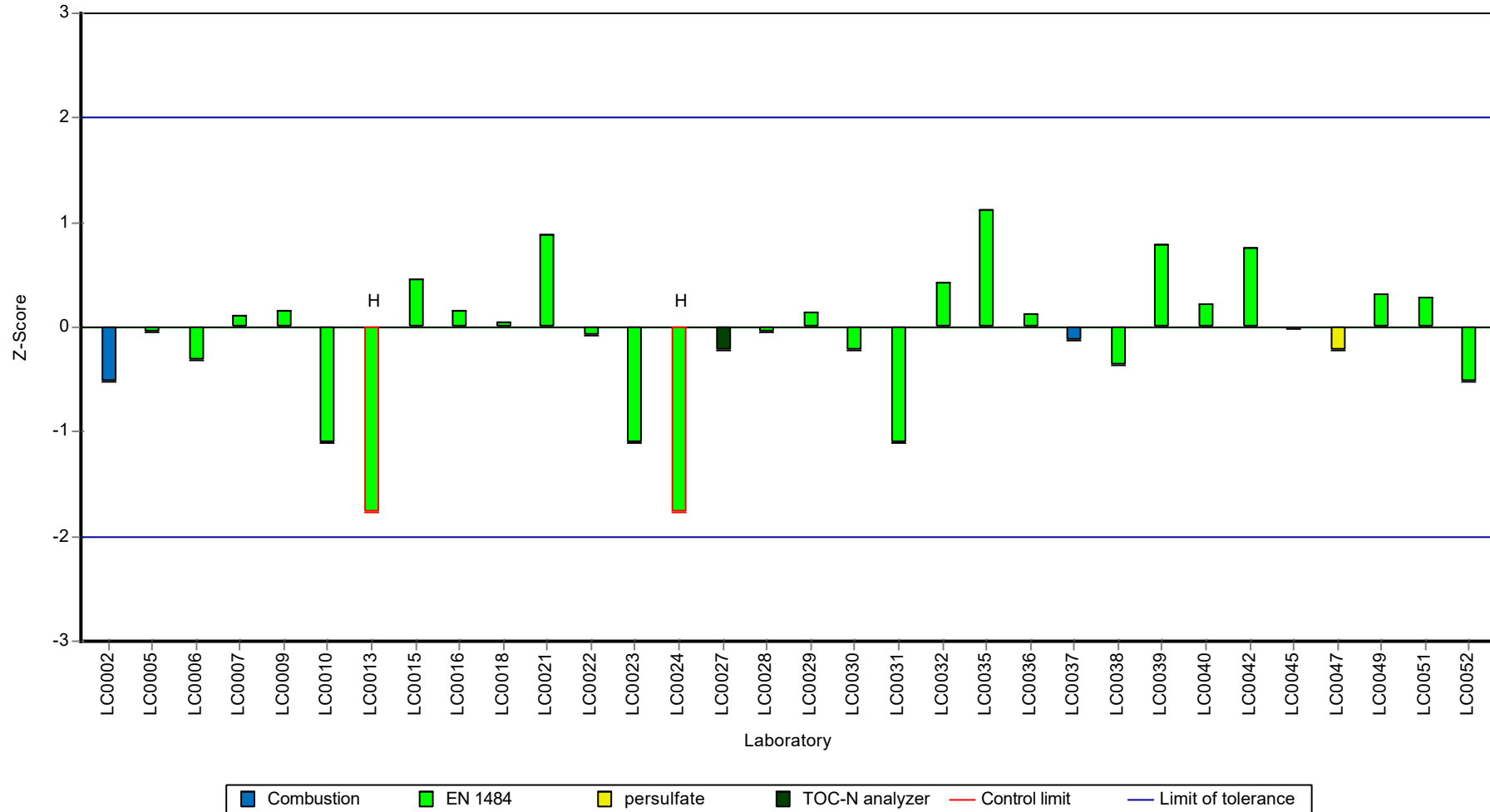
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165BDOC, Parameter: DOC (as C)

Z-score



Parameter oriented report

N165 A

El. conductivity (25°C)

| | |
|------------------------------|--------------|
| Unit | µS/cm |
| Assigned value ± U (k=2) | 916 ± 3.4 |
| Criterion | 11.9 (1.3 %) |
| Minimum - Maximum | 889 - 942 |
| Control test value ± U (k=2) | 911.0 ± 91.1 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 916 | 20.2 | 100 | 0.04 | |
| LC0003 | - | - | - | - | |
| LC0004 | 909 | 14 | 99.3 | -0.55 | |
| LC0005 | 915 | 14 | 99.9 | -0.05 | |
| LC0006 | 893 | 27 | 97.5 | -1.9 | |
| LC0007 | 816 | 16 | 89.1 | -8.37 | H |
| LC0008 | 935 | 8.4 | 102 | 1.63 | |
| LC0009 | 925 | 46 | 101 | 0.79 | |
| LC0010 | 924 | 29.2 | 101 | 0.71 | |
| LC0011 | 915 | 2 | 99.9 | -0.05 | |
| LC0012 | 898 | 19.6 | 98.1 | -1.48 | |
| LC0013 | 900 | 22.1 | 98.3 | -1.31 | |
| LC0014 | 914 | 12.34 | 99.8 | -0.13 | |
| LC0015 | - | - | - | - | |
| LC0016 | 920 | 10 | 100 | 0.37 | |
| LC0017 | 928 | 6.57 | 101 | 1.04 | |
| LC0018 | 917.5 | 18.35 | 100 | 0.16 | |
| LC0019 | 919 | 12.41 | 100 | 0.29 | |
| LC0020 | 980 | 30 | 107 | 5.41 | H |
| LC0021 | 922 | 2 | 101 | 0.54 | |
| LC0022 | 912 | 11 | 99.6 | -0.3 | |
| LC0023 | 904 | 90 | 98.7 | -0.97 | |
| LC0024 | 889 | 6.429 | 97.1 | -2.23 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 902 | 45 | 98.5 | -1.14 | |
| LC0028 | 923.7 | 0.1 | 101 | 0.68 | |
| LC0029 | 942 | 13 | 103 | 2.22 | |
| LC0030 | 922 | 36.9 | 101 | 0.54 | |
| LC0031 | 906 | 18 | 99 | -0.81 | |
| LC0032 | 908.7 | 27.3 | 99.2 | -0.58 | |
| LC0033 | 904 | 9.041 | 98.7 | -0.97 | |
| LC0034 | - | - | - | - | |
| LC0035 | 915 | 18 | 99.9 | -0.05 | |
| LC0036 | 478 | 26.29 | 52.2 | -36.76 | H |
| LC0037 | 926 | 11.58 | 101 | 0.88 | |
| LC0038 | - | - | - | - | |
| LC0039 | 914 | 36 | 99.8 | -0.13 | |
| LC0040 | 914 | 15.538 | 99.8 | -0.13 | |
| LC0041 | 925 | 46.3 | 101 | 0.79 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: El. conductivity (25°C)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 911 | 38.3 | 99.5 | -0.39 | |
| LC0043 | 921 | 10 | 101 | 0.46 | |
| LC0044 | 925 | 30.5 | 101 | 0.79 | |
| LC0045 | 924 | 4.51 | 101 | 0.71 | |
| LC0046 | 966 | 37 | 106 | 4.24 | H |
| LC0047 | 922 | 3 | 101 | 0.54 | |
| LC0048 | 909 | 2 | 99.3 | -0.55 | |
| LC0049 | 922 | 37 | 101 | 0.54 | |
| LC0050 | 906 | 42 | 99 | -0.81 | |
| LC0051 | 926 | 34.2 | 101 | 0.88 | |
| LC0052 | 915 | 0.191 | 99.9 | -0.05 | |

Characteristics of parameter

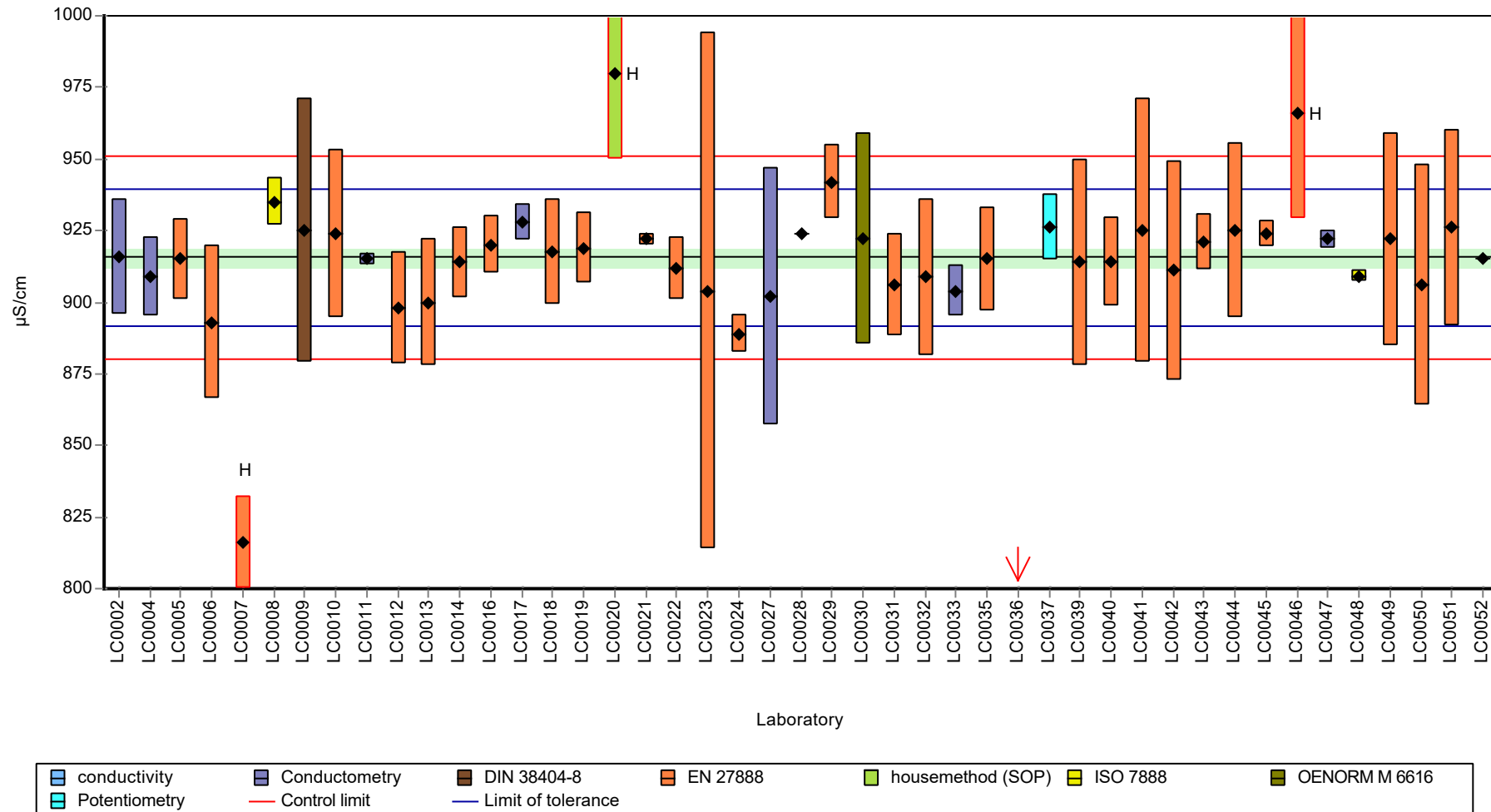
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|-------|
| Mean ± CI (99%) | 906 ± 30.8 | 916 ± 5.1 | µS/cm |
| Minimum | 478 | 889 | µS/cm |
| Maximum | 980 | 942 | µS/cm |
| Standard deviation | 68.9 | 10.9 | µS/cm |
| rel. standard deviation | 7.6 | 1.19 | % |
| n | 45 | 41 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: El. conductivity (25°C)

Graphical presentation of results

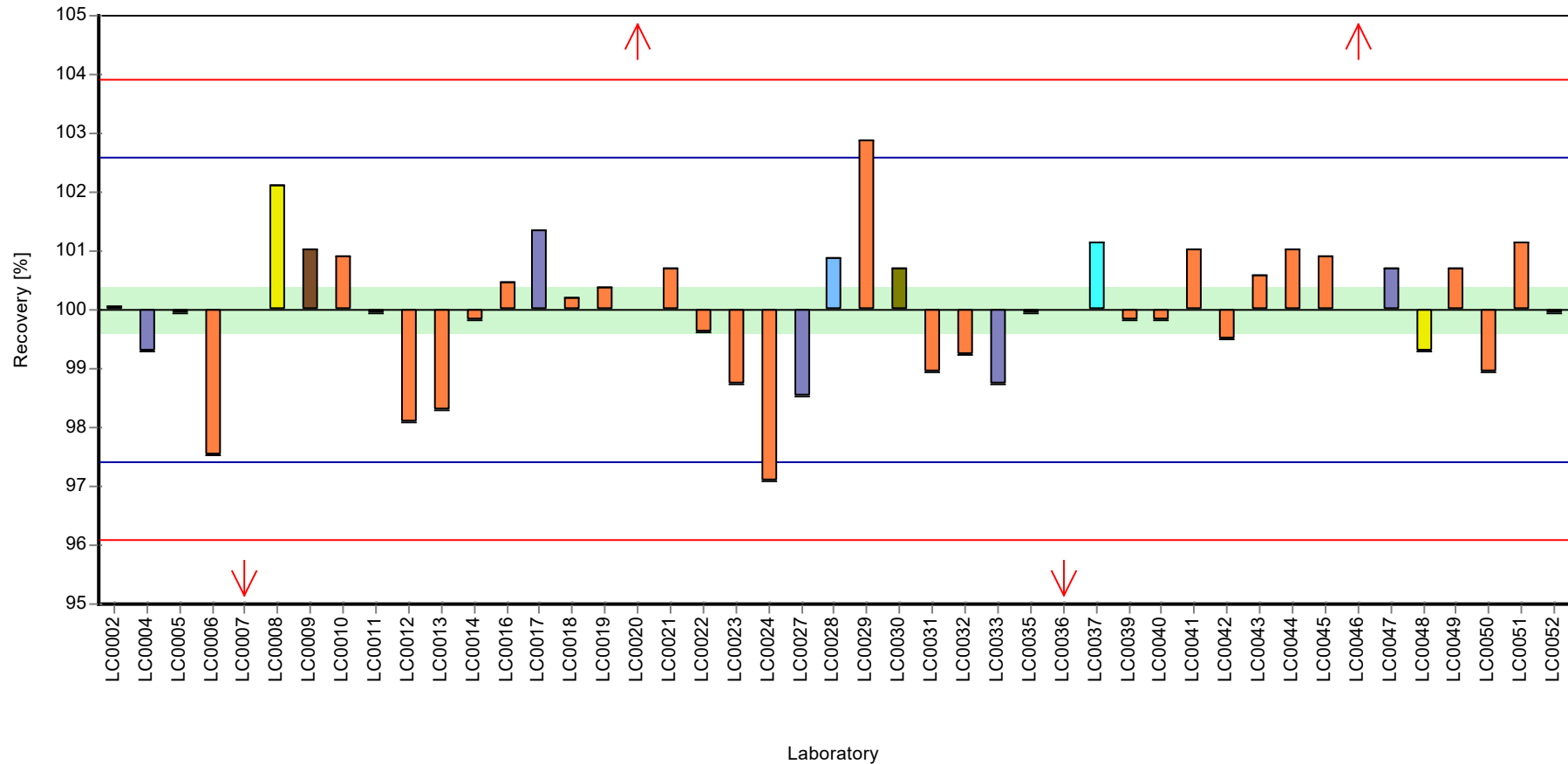
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: El. conductivity (25°C)

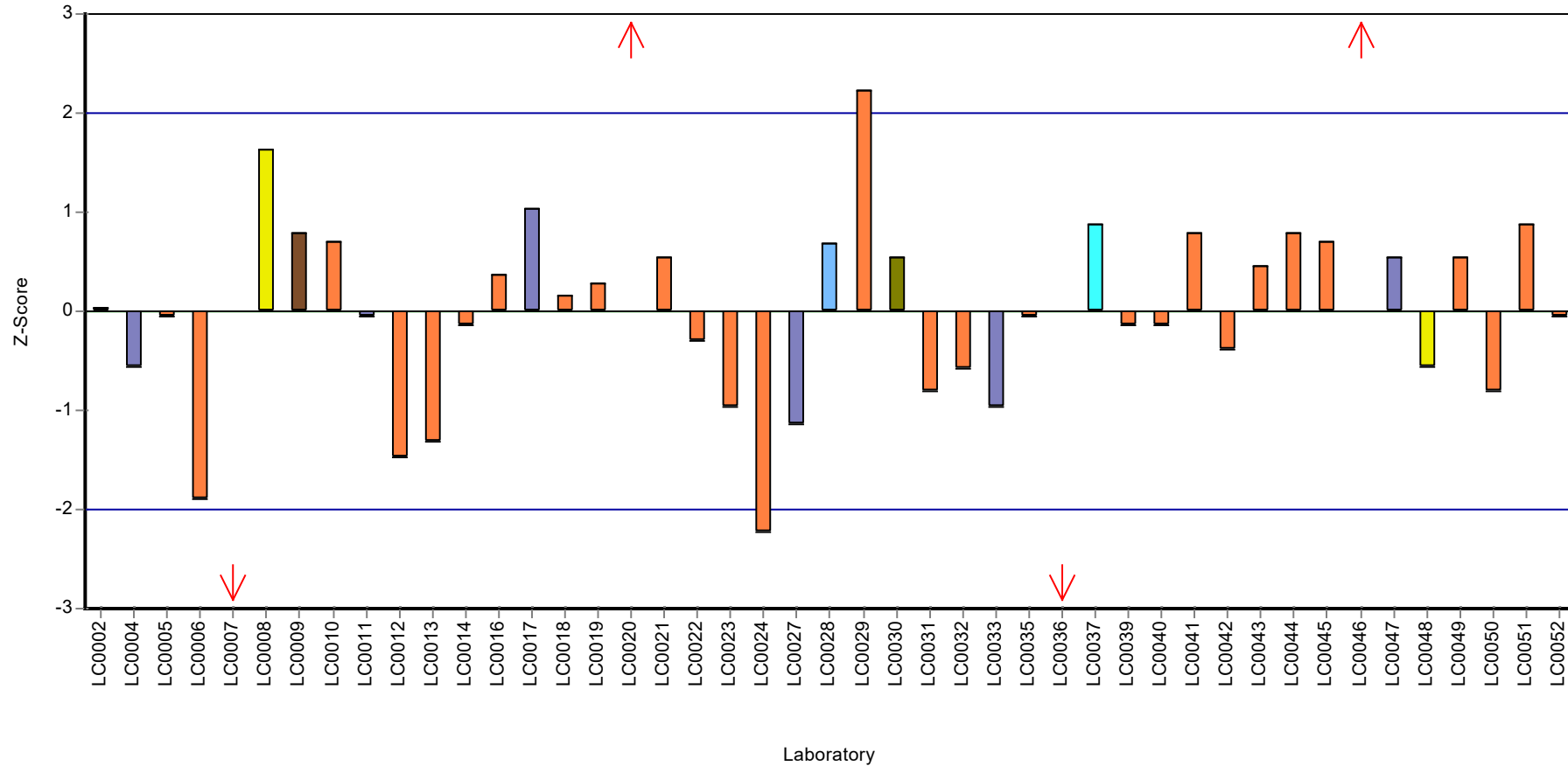
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: El. conductivity (25°C)

Z-score



Parameter oriented report

N165 B

El. conductivity (25°C)

| | |
|------------------------------|--------------|
| Unit | µS/cm |
| Assigned value ± U (k=2) | 480 ± 1.46 |
| Criterion | 6.24 (1.3 %) |
| Minimum - Maximum | 471 - 491 |
| Control test value ± U (k=2) | 475.0 ± 47.5 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 481 | 10.6 | 100 | 0.15 | |
| LC0003 | - | - | - | - | |
| LC0004 | 478 | 14 | 99.6 | -0.33 | |
| LC0005 | 481 | 8 | 100 | 0.15 | |
| LC0006 | 476 | 14 | 99.2 | -0.65 | |
| LC0007 | 427 | 9 | 88.9 | -8.5 | H |
| LC0008 | 484 | 4.3 | 101 | 0.63 | |
| LC0009 | 486 | 24 | 101 | 0.95 | |
| LC0010 | 483 | 17.2 | 101 | 0.47 | |
| LC0011 | 474 | 2 | 98.7 | -0.97 | |
| LC0012 | 471 | 23.7 | 98.1 | -1.45 | |
| LC0013 | 473 | 11.6 | 98.5 | -1.13 | |
| LC0014 | 481 | 6.49 | 100 | 0.15 | |
| LC0015 | - | - | - | - | |
| LC0016 | 484 | 10 | 101 | 0.63 | |
| LC0017 | 486 | 3.44 | 101 | 0.95 | |
| LC0018 | 480 | 9.6 | 100 | -0.01 | |
| LC0019 | 480 | 6.48 | 100 | -0.01 | |
| LC0020 | 506 | 15 | 105 | 4.16 | H |
| LC0021 | 483 | 2 | 101 | 0.47 | |
| LC0022 | 482 | 5.7 | 100 | 0.31 | |
| LC0023 | 471 | 47 | 98.1 | -1.45 | |
| LC0024 | 476 | 2 | 99.2 | -0.65 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 476 | 23 | 99.2 | -0.65 | |
| LC0028 | 480.4 | 0.1 | 100 | 0.06 | |
| LC0029 | 497 | 7 | 104 | 2.72 | H |
| LC0030 | 483 | 19.3 | 101 | 0.47 | |
| LC0031 | 477 | 9.6 | 99.4 | -0.49 | |
| LC0032 | 473.7 | 14.2 | 98.7 | -1.02 | |
| LC0033 | 476 | 5 | 99.2 | -0.65 | |
| LC0034 | - | - | - | - | |
| LC0035 | 479 | 9.6 | 99.8 | -0.17 | |
| LC0036 | 912 | 50.16 | 190 | 69.22 | H |
| LC0037 | 484 | 6.05 | 101 | 0.63 | |
| LC0038 | - | - | - | - | |
| LC0039 | 481 | 19 | 100 | 0.15 | |
| LC0040 | 475 | 8.075 | 98.9 | -0.81 | |
| LC0041 | 484 | 24.2 | 101 | 0.63 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: El. conductivity (25°C)

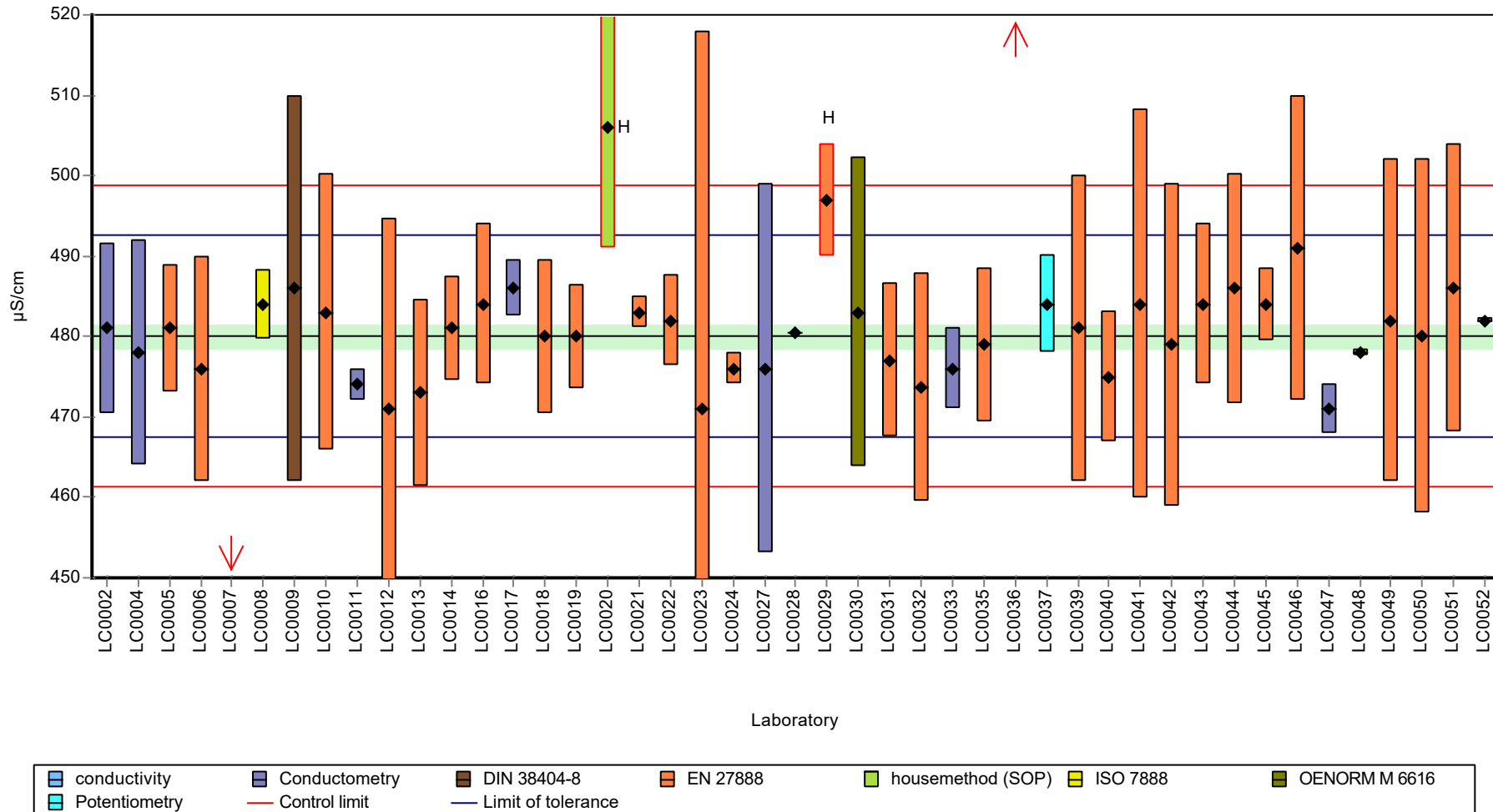
| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 479 | 20.1 | 99.8 | -0.17 | |
| LC0043 | 484 | 10 | 101 | 0.63 | |
| LC0044 | 486 | 14.3 | 101 | 0.95 | |
| LC0045 | 484 | 4.51 | 101 | 0.63 | |
| LC0046 | 491 | 19 | 102 | 1.75 | |
| LC0047 | 471 | 3 | 98.1 | -1.45 | |
| LC0048 | 478 | 0.5 | 99.6 | -0.33 | |
| LC0049 | 482 | 20 | 100 | 0.31 | |
| LC0050 | 480 | 22 | 100 | -0.01 | |
| LC0051 | 486 | 17.933 | 101 | 0.95 | |
| LC0052 | 482 | 0.262 | 100 | 0.31 | |

Characteristics of parameter

| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|-------|
| Mean ± CI (99%) | 489 ± 29.2 | 480 ± 2.2 | µS/cm |
| Minimum | 427 | 471 | µS/cm |
| Maximum | 912 | 491 | µS/cm |
| Standard deviation | 65.2 | 4.69 | µS/cm |
| rel. standard deviation | 13.3 | 0.977 | % |
| n | 45 | 41 | - |

Graphical presentation of results

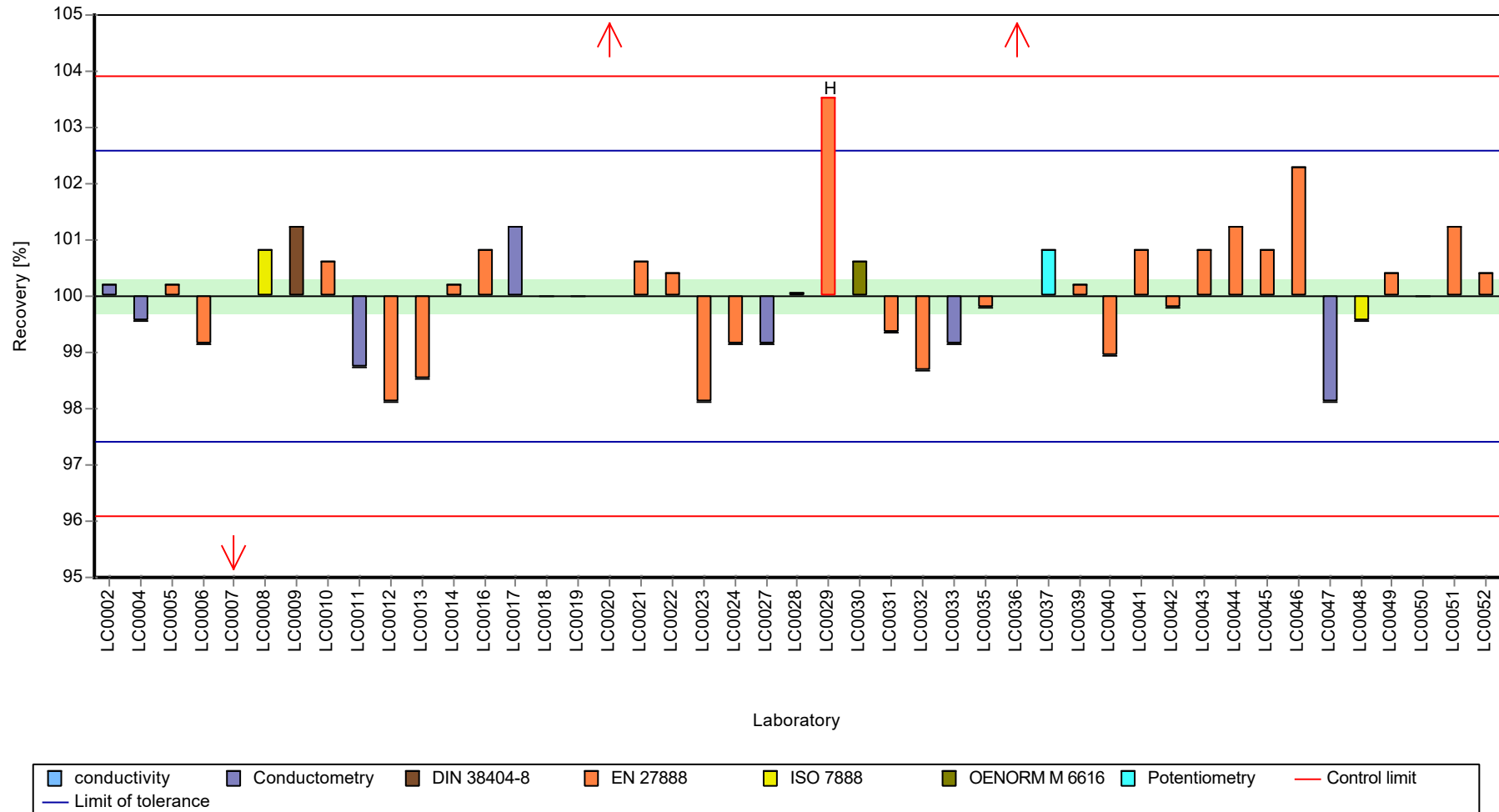
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: El. conductivity (25°C)

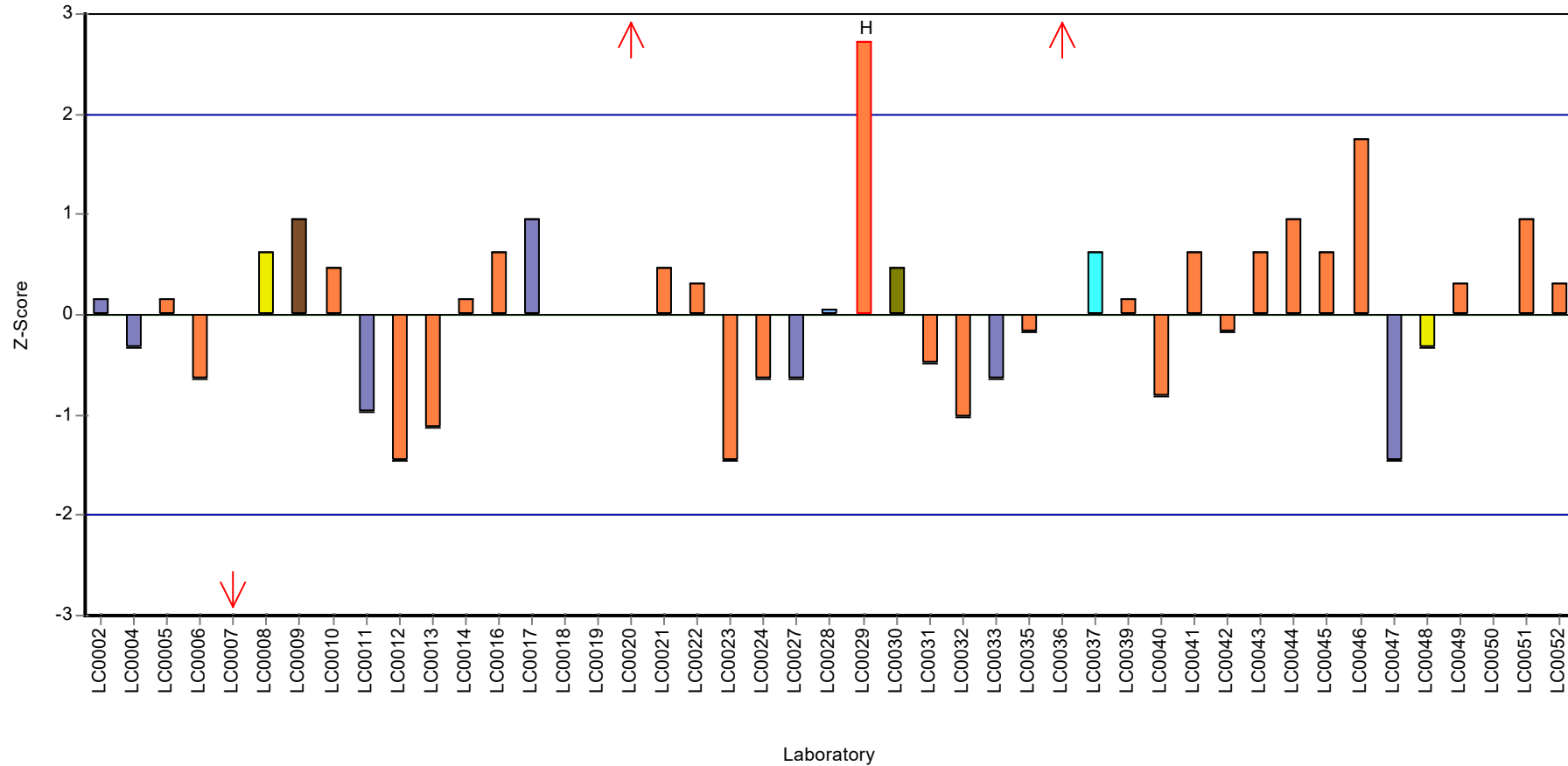
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: El. conductivity (25°C)

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Hydrogen carbonate

Parameter oriented report

N165 A

Hydrogen carbonate

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 445 ± 2.85 |
| Criterion | 8.9 (2 %) |
| Minimum - Maximum | 430 - 463 |
| Control test value ± U (k=2) | 443.0 ± 22.2 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 462.84 | 9.72 | 104 | 2.01 | |
| LC0003 | - | - | - | - | |
| LC0004 | 417 | 10 | 93.7 | -3.14 | H |
| LC0005 | 441 | 9 | 99.1 | -0.45 | |
| LC0006 | 441 | 35 | 99.1 | -0.45 | |
| LC0007 | 449 | 35.9 | 101 | 0.45 | |
| LC0008 | 441 | 18.1 | 99.1 | -0.45 | |
| LC0009 | - | - | - | - | |
| LC0010 | 452 | 9 | 102 | 0.79 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 442.4 | 44.2 | 99.4 | -0.29 | |
| LC0017 | 446 | 6.44 | 100 | 0.12 | |
| LC0018 | 450 | 22.5 | 101 | 0.57 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 449.3 | 6.1 | 101 | 0.49 | |
| LC0022 | 438 | 23 | 98.4 | -0.78 | |
| LC0023 | 437 | 44 | 98.2 | -0.9 | |
| LC0024 | 449 | 1 | 101 | 0.45 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | - | - | - | - | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | 439.3 | 65.9 | 98.7 | -0.64 | |
| LC0031 | 430 | 23 | 96.6 | -1.68 | |
| LC0032 | - | - | - | - | |
| LC0033 | 457.14 | 22.8 | 103 | 1.37 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 454 | 22.7 | 102 | 1.01 | |
| LC0037 | 447.5 | 2.24 | 101 | 0.28 | |
| LC0038 | - | - | - | - | |
| LC0039 | 440.5 | 29.4 | 99 | -0.5 | |
| LC0040 | 447 | 22.35 | 100 | 0.23 | |
| LC0041 | 450 | 22.5 | 101 | 0.57 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Hydrogen carbonate

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 448 | 35.8 | 101 | 0.34 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 453.91 | 1 | 102 | 1 | |
| LC0046 | 440 | 10 | 98.9 | -0.56 | |
| LC0047 | 436 | 6 | 98 | -1.01 | |
| LC0048 | 433.24 | 0.0001 | 97.4 | -1.32 | |
| LC0049 | 435 | 18 | 97.8 | -1.12 | |
| LC0050 | - | - | - | - | |
| LC0051 | 452 | 0.1 | 102 | 0.79 | |
| LC0052 | 442 | 8.85 | 99.3 | -0.33 | |

Characteristics of parameter

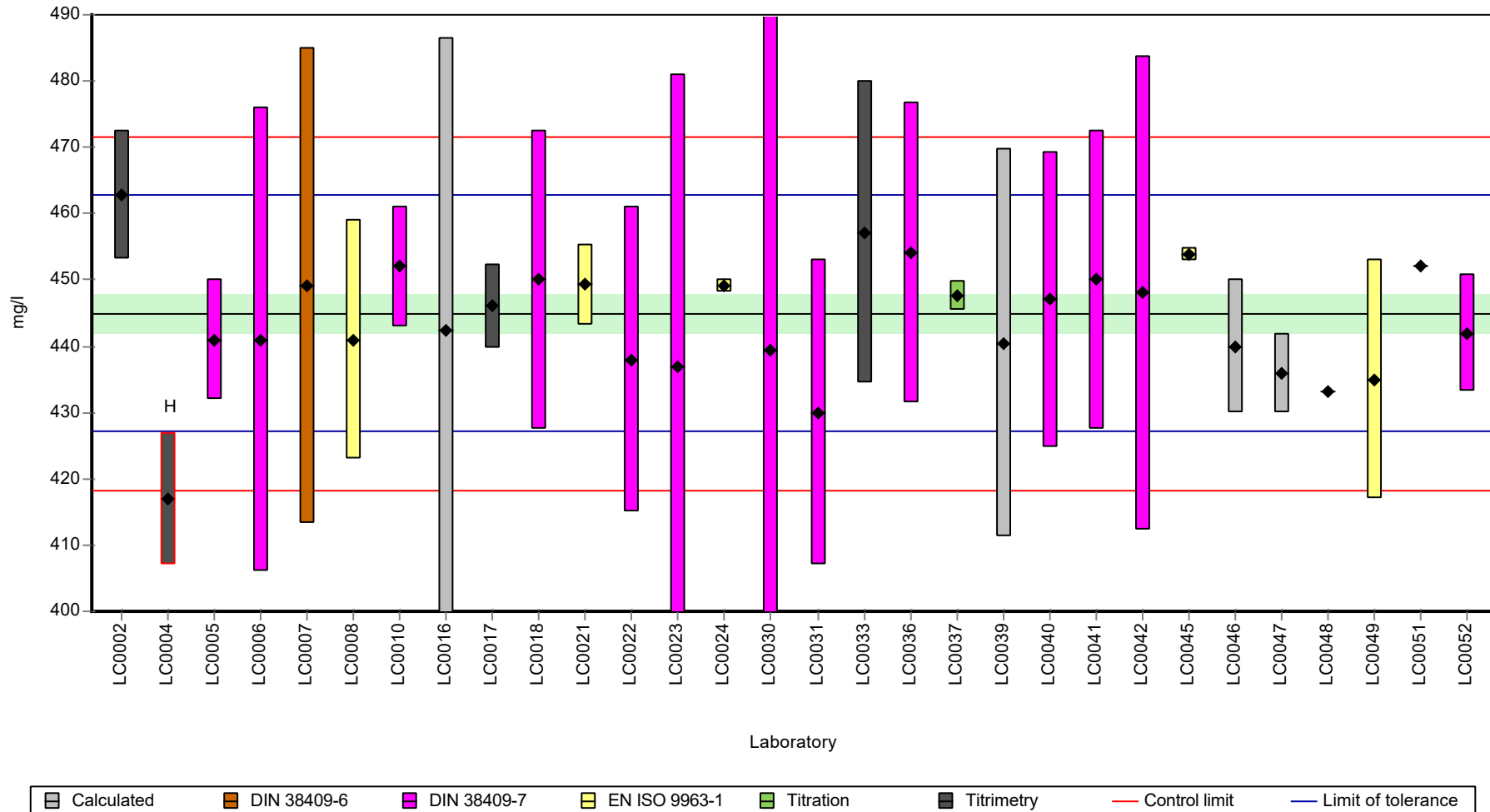
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 444 ± 4.98 | 445 ± 4.27 | mg/l |
| Minimum | 417 | 430 | mg/l |
| Maximum | 463 | 463 | mg/l |
| Standard deviation | 9.1 | 7.66 | mg/l |
| rel. standard deviation | 2.05 | 1.72 | % |
| n | 30 | 29 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Hydrogen carbonate

Graphical presentation of results

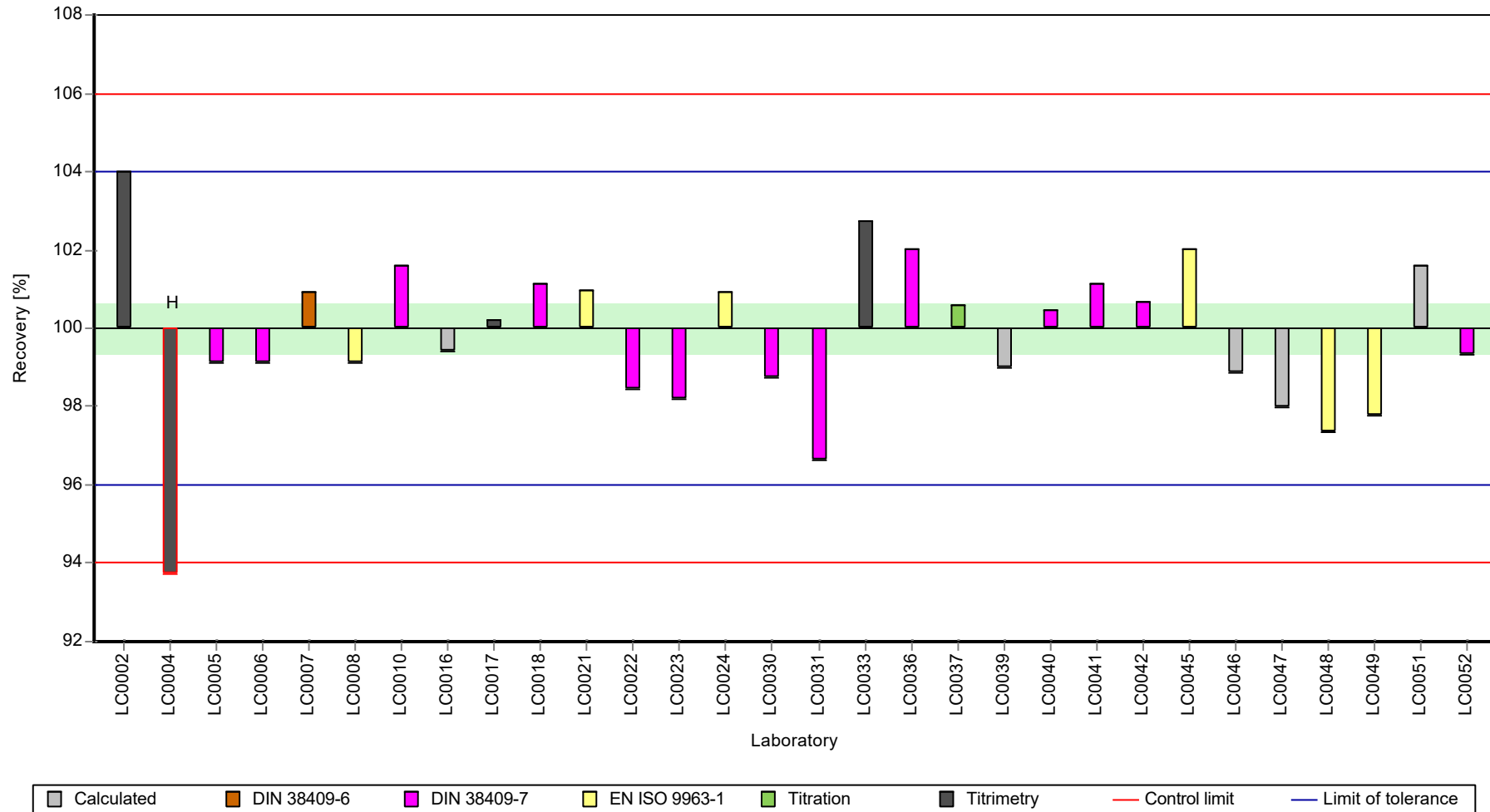
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Hydrogen carbonate

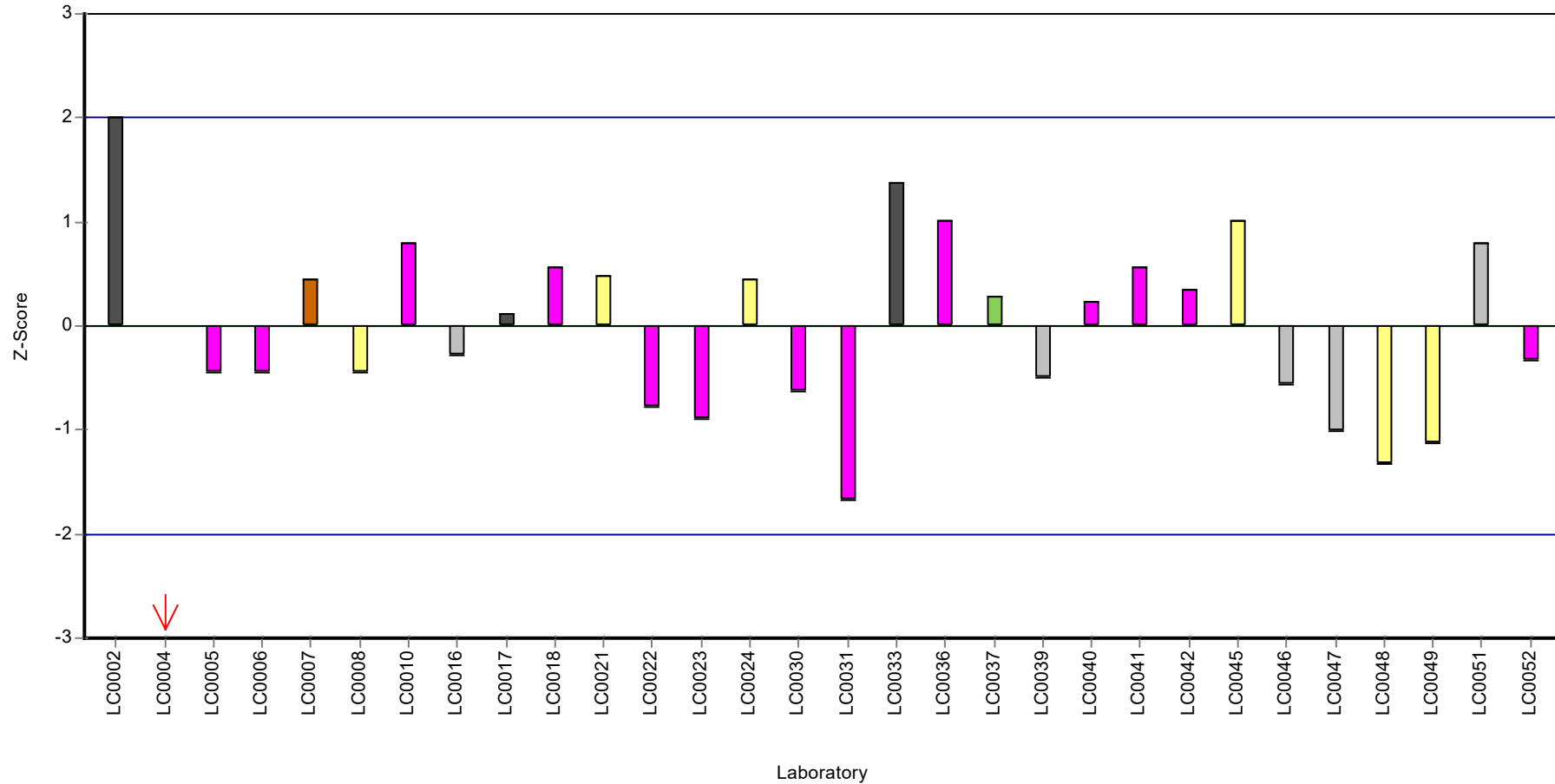
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Hydrogen carbonate

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Hydrogen carbonate

Parameter oriented report

N165 B

Hydrogen carbonate

| | |
|----------------------------------|-----------------|
| Unit | mg/l |
| Assigned value \pm U (k=2) | 203 \pm 2.03 |
| Criterion | 5.68 (2.8 %) |
| Minimum - Maximum | 190 - 216 |
| Control test value \pm U (k=2) | 198.0 \pm 9.9 |

| Labcode | Result | \pm U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 261.6 | 5.49 | 129 | 10.33 | H |
| LC0003 | - | - | - | - | |
| LC0004 | 191 | 10 | 94.1 | -2.1 | |
| LC0005 | 199 | 4 | 98.1 | -0.69 | |
| LC0006 | 202 | 16 | 99.6 | -0.16 | |
| LC0007 | 203.7 | 16.3 | 100 | 0.14 | |
| LC0008 | 204 | 8.4 | 101 | 0.19 | |
| LC0009 | - | - | - | - | |
| LC0010 | 209 | 6 | 103 | 1.07 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 203.2 | 20.3 | 100 | 0.05 | |
| LC0017 | 201 | 2.9 | 99.1 | -0.33 | |
| LC0018 | 210 | 10.5 | 103 | 1.25 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 206.7 | 6.1 | 102 | 0.67 | |
| LC0022 | 200 | 10 | 98.6 | -0.51 | |
| LC0023 | 202 | 20 | 99.6 | -0.16 | |
| LC0024 | 207 | 1.528 | 102 | 0.72 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | - | - | - | - | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | 202.6 | 30.39 | 99.9 | -0.05 | |
| LC0031 | 190 | 10.5 | 93.6 | -2.27 | |
| LC0032 | - | - | - | - | |
| LC0033 | 207.5 | 10.35 | 102 | 0.81 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 208 | 10.4 | 103 | 0.9 | |
| LC0037 | 203.7 | 1.02 | 100 | 0.14 | |
| LC0038 | - | - | - | - | |
| LC0039 | 199.5 | 14.3 | 98.3 | -0.6 | |
| LC0040 | 204 | 10.2 | 101 | 0.19 | |
| LC0041 | 206 | 10.3 | 102 | 0.55 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Hydrogen carbonate

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 205 | 16.4 | 101 | 0.37 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 215.97 | 1 | 106 | 2.3 | |
| LC0046 | 200 | 5 | 98.6 | -0.51 | |
| LC0047 | 198 | 5 | 97.6 | -0.86 | |
| LC0048 | 204.42 | 1.017 | 101 | 0.27 | |
| LC0049 | 197 | 8 | 97.1 | -1.04 | |
| LC0050 | - | - | - | - | |
| LC0051 | 146 | 0.1 | 72 | -10.02 | H |
| LC0052 | 201 | 4.01 | 99.1 | -0.33 | |

Characteristics of parameter

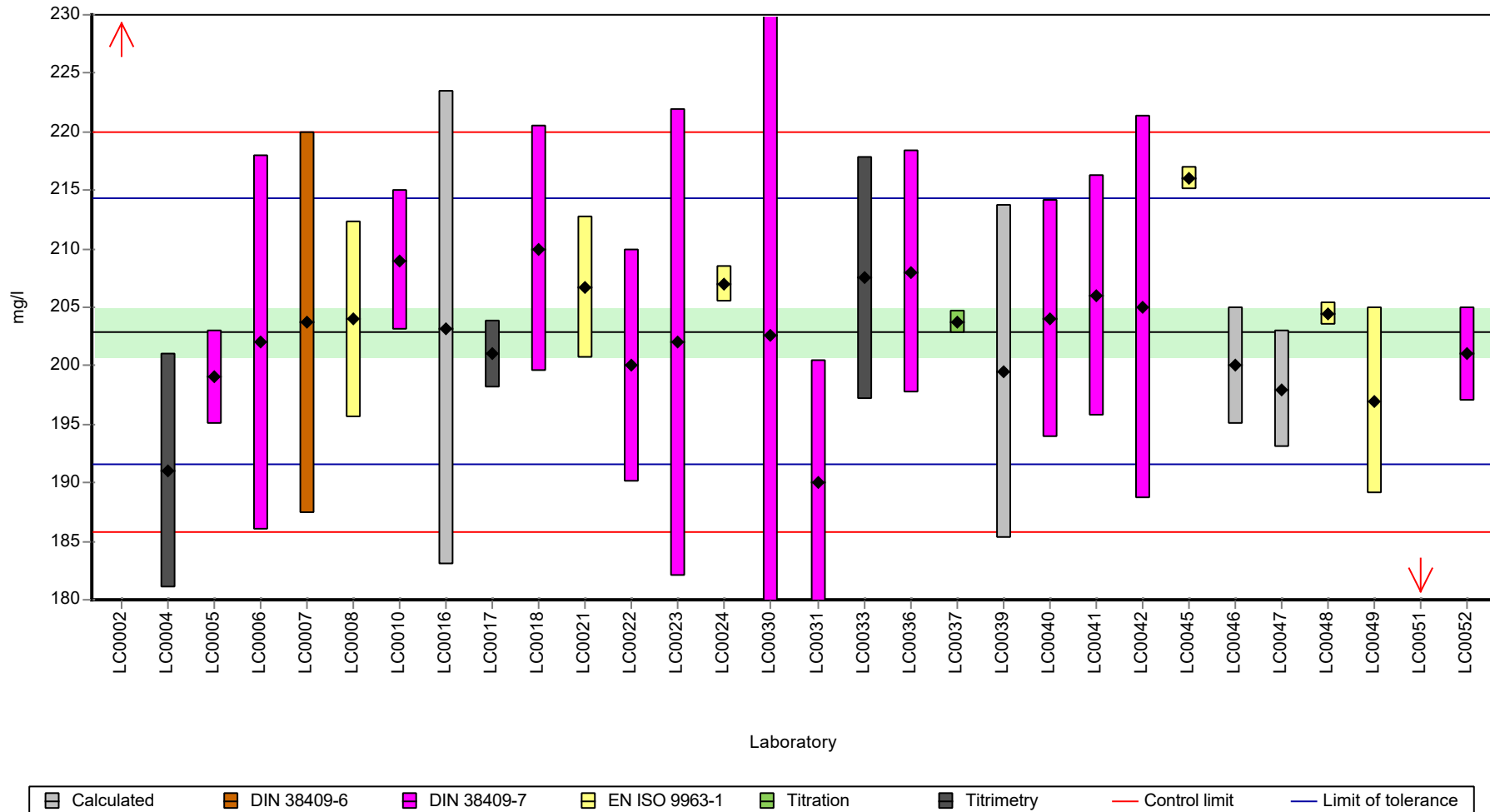
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 203 ± 8.78 | 203 ± 3.04 | mg/l |
| Minimum | 146 | 190 | mg/l |
| Maximum | 262 | 216 | mg/l |
| Standard deviation | 16 | 5.36 | mg/l |
| rel. standard deviation | 7.9 | 2.64 | % |
| n | 30 | 28 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Hydrogen carbonate

Graphical presentation of results

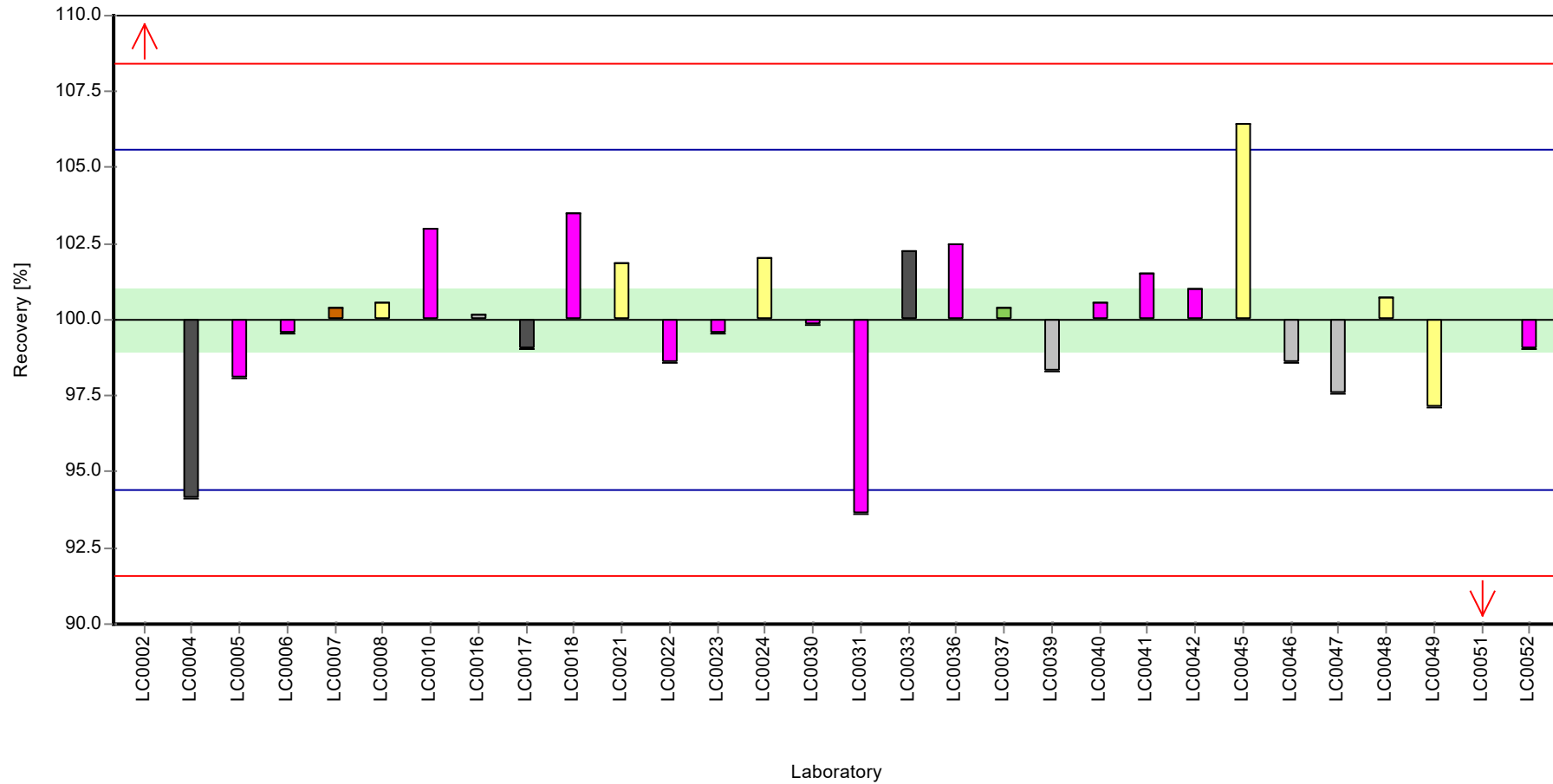
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Hydrogen carbonate

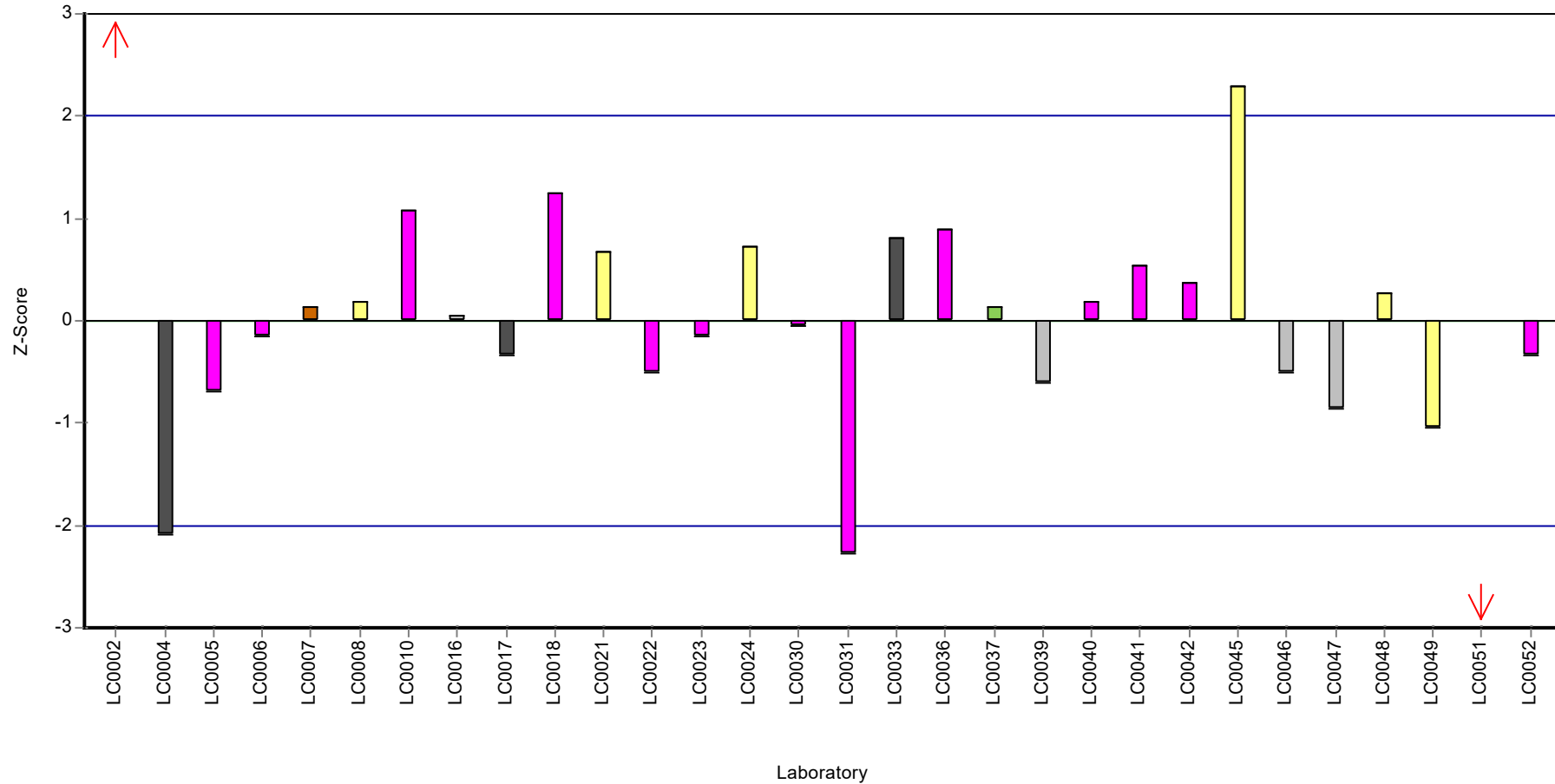
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Hydrogen carbonate

Z-score



Parameter oriented report

N165 A

Magnesium

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 29.9 ± 0.424 |
| Criterion | 1.19 (4 %) |
| Minimum - Maximum | 27.5 - 32.8 |
| Control test value ± U (k=2) | 26.1 ± 2.61 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 29.86 | 1.4 | 100 | 0.01 | |
| LC0003 | - | - | - | - | |
| LC0004 | 31.6 | 0.4 | 106 | 1.46 | |
| LC0005 | 31.3 | 1.3 | 105 | 1.21 | |
| LC0006 | 29.6 | 3.6 | 99.2 | -0.21 | |
| LC0007 | 30.6 | 1.2 | 103 | 0.63 | |
| LC0008 | 30.7 | 3.3 | 103 | 0.71 | |
| LC0009 | - | - | - | - | |
| LC0010 | 29 | 3.1 | 97.1 | -0.71 | |
| LC0011 | 32.8 | 2.5 | 110 | 2.47 | |
| LC0012 | - | - | - | - | |
| LC0013 | 30.8 | 1.9 | 103 | 0.79 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 30.4 | 6.1 | 102 | 0.46 | |
| LC0017 | - | - | - | - | |
| LC0018 | 29.5 | 2.95 | 98.8 | -0.29 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 29.65 | 0.2 | 99.3 | -0.17 | |
| LC0022 | 27.5 | 1.1 | 92.1 | -1.97 | |
| LC0023 | 30.8 | 6.2 | 103 | 0.79 | |
| LC0024 | 29.1 | 0.681 | 97.5 | -0.63 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 29.9 | 1.5 | 100 | 0.04 | |
| LC0028 | 35.51 | 0.5 | 119 | 4.74 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 30.12 | 3.012 | 101 | 0.23 | |
| LC0031 | 30.8 | 3 | 103 | 0.79 | |
| LC0032 | - | - | - | - | |
| LC0033 | 29.86 | 2.5 | 100 | 0.01 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 30.3 | 3.03 | 102 | 0.38 | |
| LC0037 | 29.78 | 0.24 | 99.8 | -0.06 | |
| LC0038 | 29 | 2.32 | 97.1 | -0.71 | |
| LC0039 | 29.2 | 1.8 | 97.8 | -0.55 | |
| LC0040 | 27.9 | 1.395 | 93.5 | -1.63 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Magnesium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 30.1 | 1.2 | 101 | 0.21 | |
| LC0043 | - | - | - | - | |
| LC0044 | 30.65 | 2.6 | 103 | 0.67 | |
| LC0045 | 29.205 | 2.9 | 97.8 | -0.54 | |
| LC0046 | - | - | - | - | |
| LC0047 | 28 | 2 | 93.8 | -1.55 | |
| LC0048 | 27.45 | 1.46 | 92 | -2.01 | |
| LC0049 | 29.7 | 4 | 99.5 | -0.13 | |
| LC0050 | - | - | - | - | |
| LC0051 | 31.81 | 1.966 | 107 | 1.64 | |
| LC0052 | 29.6 | 0.424 | 99.2 | -0.21 | |

Characteristics of parameter

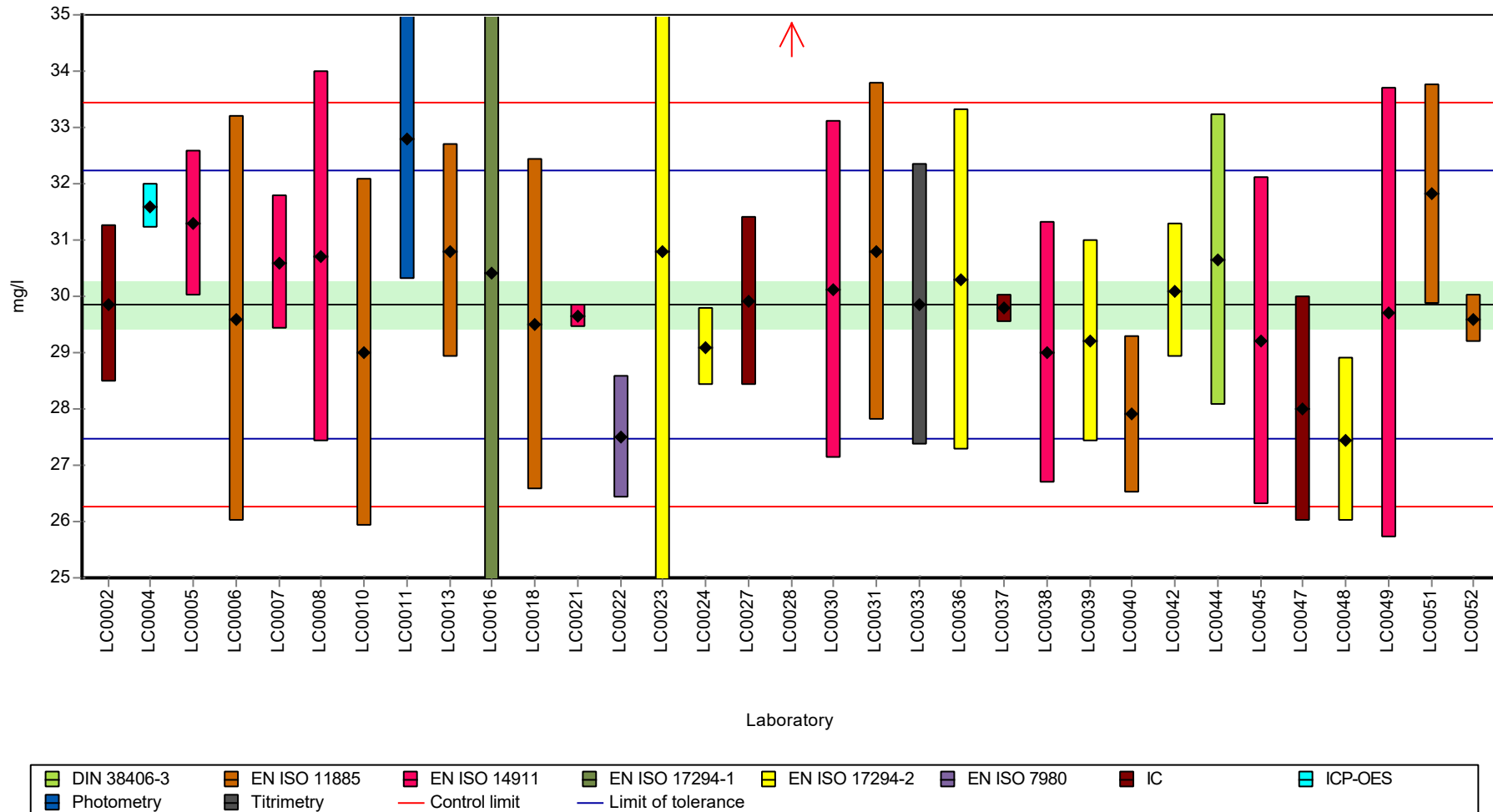
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 30.1 ± 0.8 | 29.9 ± 0.636 | mg/l |
| Minimum | 27.5 | 27.5 | mg/l |
| Maximum | 35.5 | 32.8 | mg/l |
| Standard deviation | 1.53 | 1.2 | mg/l |
| rel. standard deviation | 5.1 | 4.01 | % |
| n | 33 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Magnesium

Graphical presentation of results

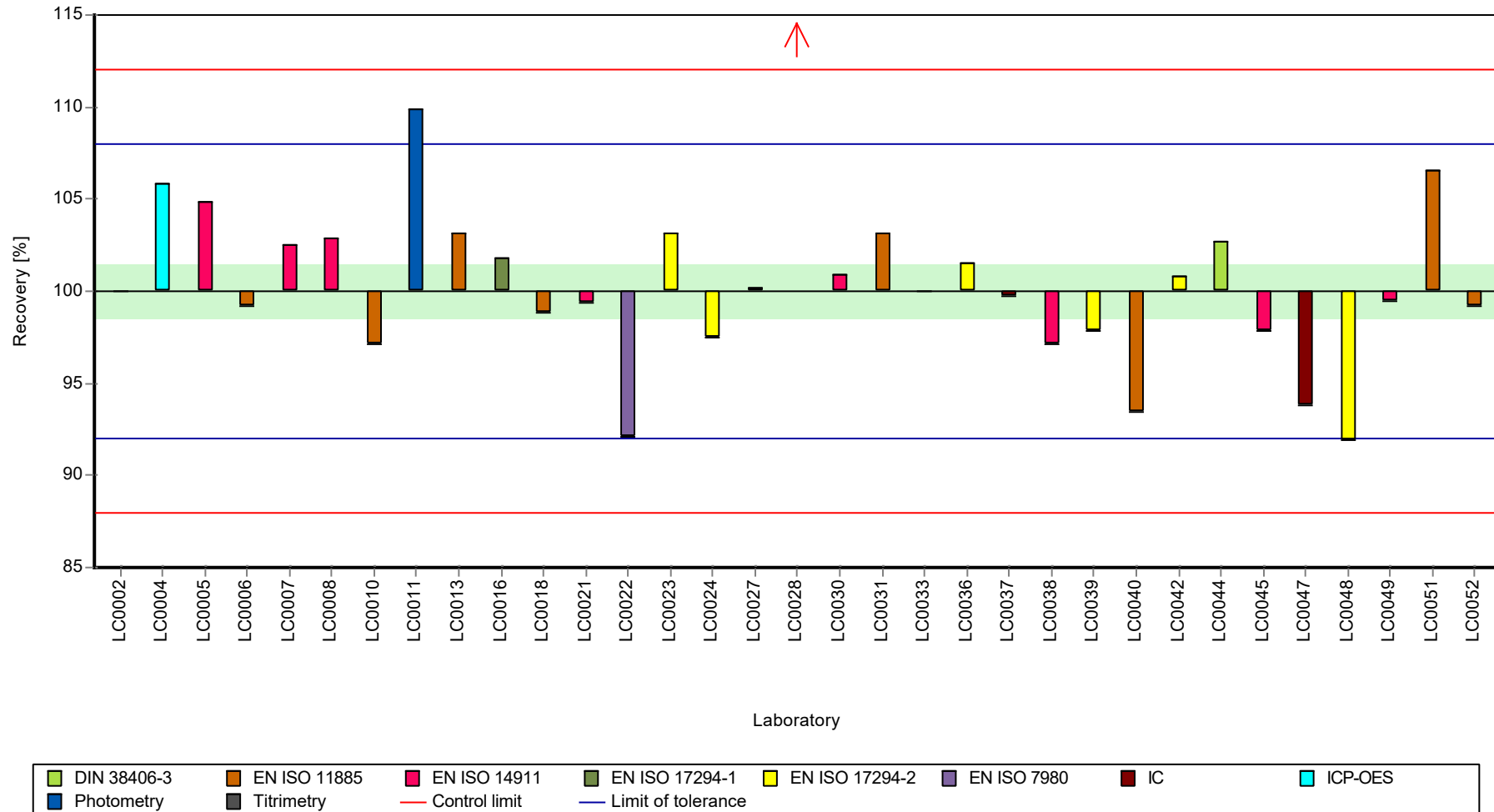
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Magnesium

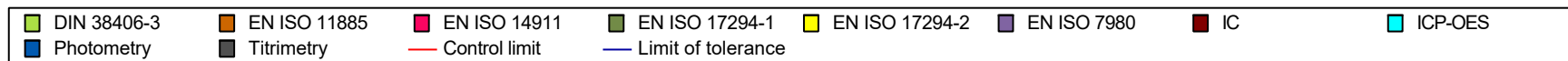
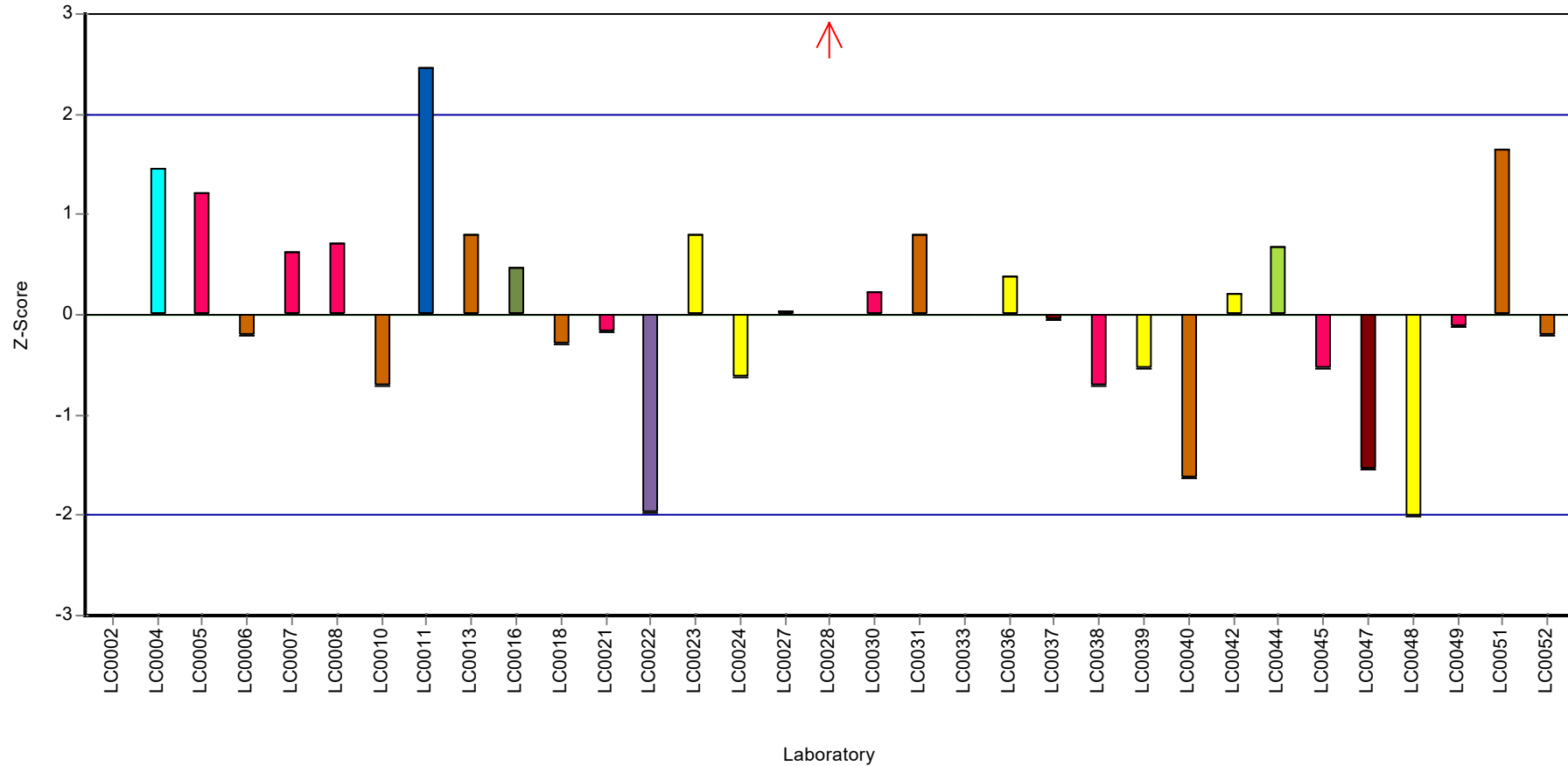
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Magnesium

Z-score



Parameter oriented report

N165 B

Magnesium

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 14.2 ± 0.198 |
| Criterion | 0.57 (4 %) |
| Minimum - Maximum | 13 - 15.5 |
| Control test value ± U (k=2) | 13.2 ± 1.32 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 14.18 | 0.67 | 99.6 | -0.11 | |
| LC0003 | - | - | - | - | |
| LC0004 | 15.5 | 0.4 | 109 | 2.21 | |
| LC0005 | 14.6 | 0.5 | 103 | 0.63 | |
| LC0006 | 14.3 | 1.7 | 100 | 0.1 | |
| LC0007 | 14.5 | 1.2 | 102 | 0.45 | |
| LC0008 | 14.3 | 1.6 | 100 | 0.1 | |
| LC0009 | - | - | - | - | |
| LC0010 | 13.8 | 1.5 | 96.9 | -0.77 | |
| LC0011 | 15.85 | 2.5 | 111 | 2.82 | H |
| LC0012 | - | - | - | - | |
| LC0013 | 14.2 | 0.869 | 99.7 | -0.07 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 14.5 | 2.9 | 102 | 0.45 | |
| LC0017 | - | - | - | - | |
| LC0018 | 14.5 | 1.45 | 102 | 0.45 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 14.09 | 0.2 | 98.9 | -0.27 | |
| LC0022 | 13.5 | 0.55 | 94.8 | -1.3 | |
| LC0023 | 14.3 | 2.9 | 100 | 0.1 | |
| LC0024 | 13.9 | 0.208 | 97.6 | -0.6 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 13 | 0.65 | 91.3 | -2.18 | |
| LC0028 | 15.32 | 0.21 | 108 | 1.89 | |
| LC0029 | - | - | - | - | |
| LC0030 | 14.24 | 1.424 | 100 | 0.00 | |
| LC0031 | 14.6 | 1.5 | 103 | 0.63 | |
| LC0032 | - | - | - | - | |
| LC0033 | 14.6 | 0.7 | 103 | 0.63 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 14.5 | 1.45 | 102 | 0.45 | |
| LC0037 | 14.1 | 0.11 | 99 | -0.25 | |
| LC0038 | 13.8 | 1.11 | 96.9 | -0.77 | |
| LC0039 | 14 | 0.9 | 98.3 | -0.42 | |
| LC0040 | 13.8 | 0.69 | 96.9 | -0.77 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Magnesium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 14.7 | 0.6 | 103 | 0.81 | |
| LC0043 | - | - | - | - | |
| LC0044 | 14.41 | 1.1 | 101 | 0.3 | |
| LC0045 | 13.921 | 1.4 | 97.8 | -0.56 | |
| LC0046 | - | - | - | - | |
| LC0047 | 13 | 1 | 91.3 | -2.18 | |
| LC0048 | 13.84 | 0.78 | 97.2 | -0.7 | |
| LC0049 | 14.1 | 1.7 | 99 | -0.25 | |
| LC0050 | - | - | - | - | |
| LC0051 | 15.42 | 0.953 | 108 | 2.07 | |
| LC0052 | 14.2 | 0.487 | 99.7 | -0.07 | |

Characteristics of parameter

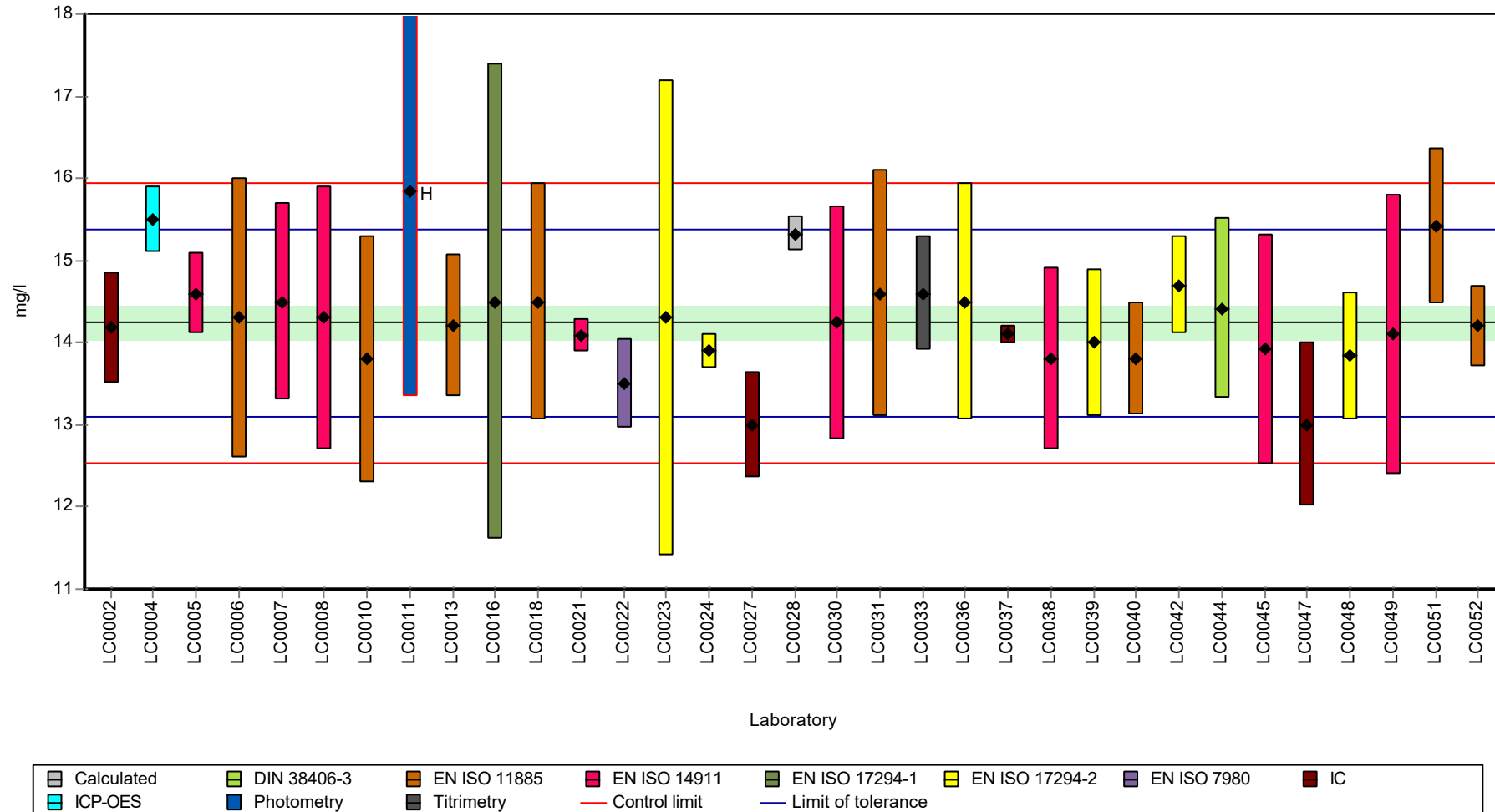
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 14.3 ± 0.323 | 14.2 ± 0.298 | mg/l |
| Minimum | 13 | 13 | mg/l |
| Maximum | 15.9 | 15.5 | mg/l |
| Standard deviation | 0.619 | 0.561 | mg/l |
| rel. standard deviation | 4.33 | 3.94 | % |
| n | 33 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Magnesium

Graphical presentation of results

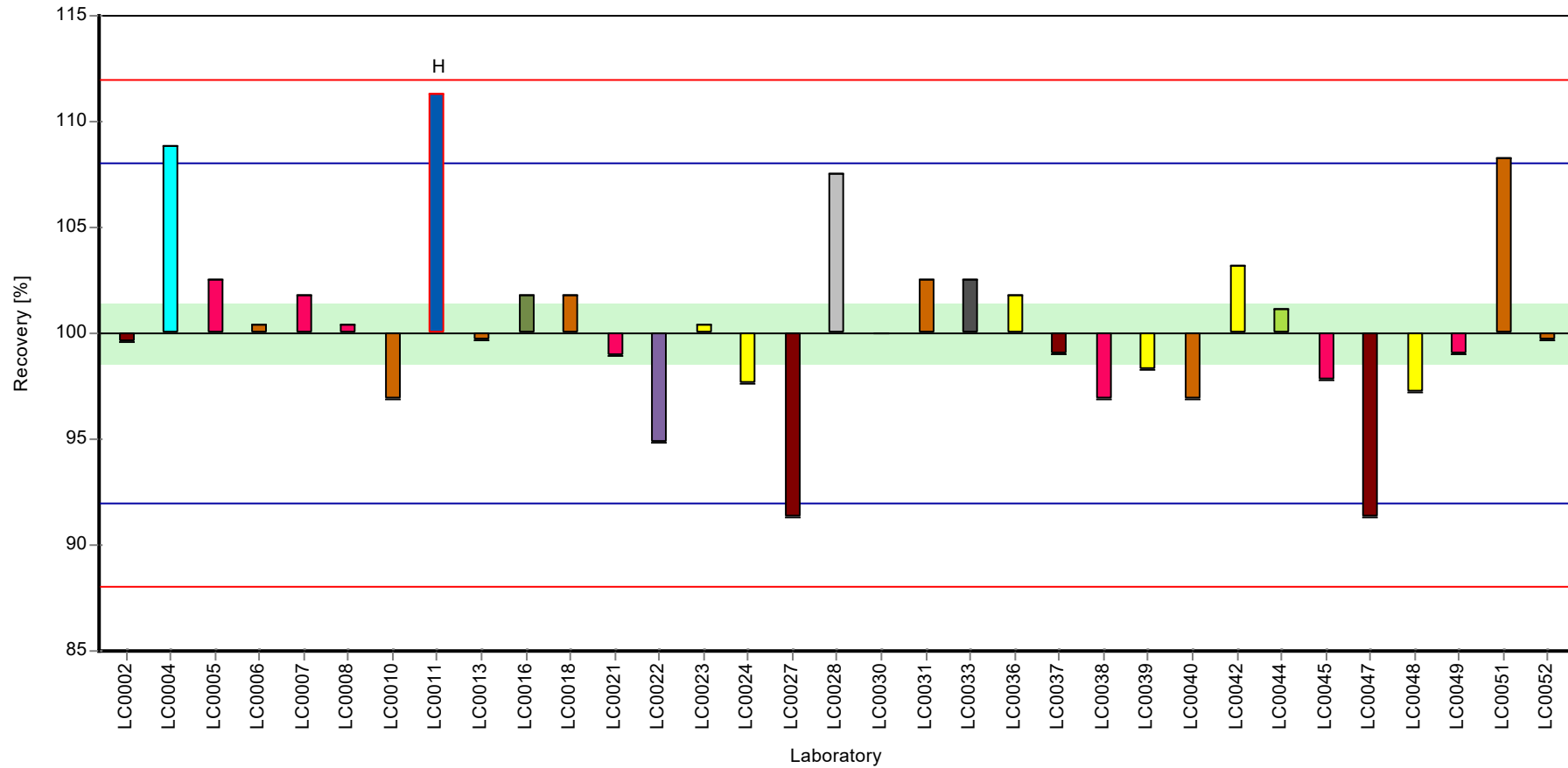
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Magnesium

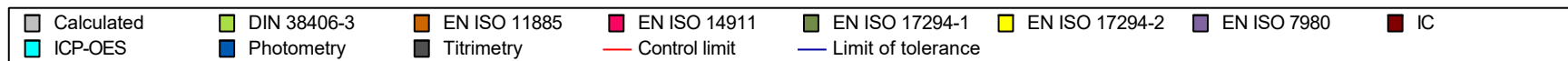
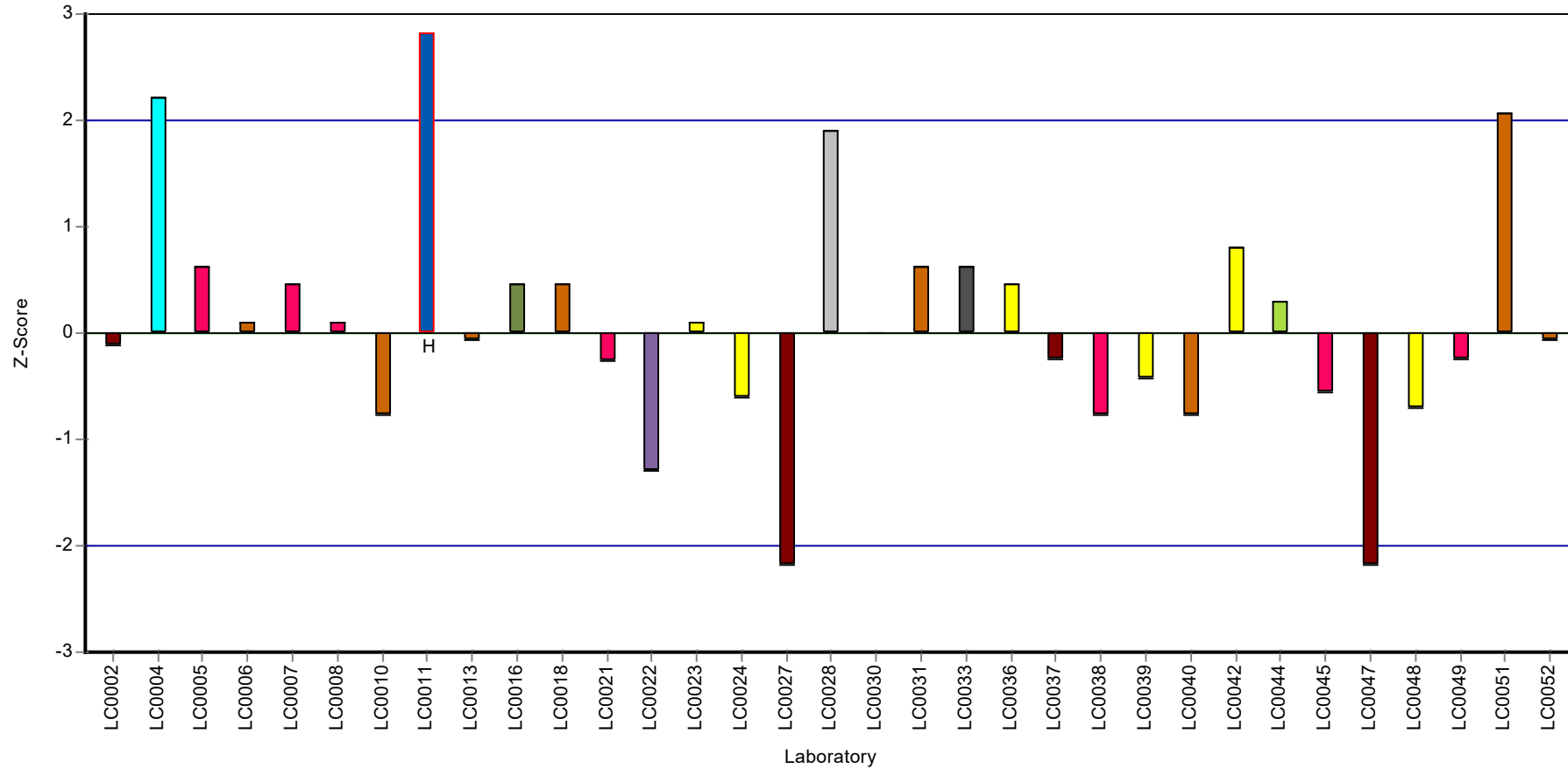
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Magnesium

Z-score



Parameter oriented report

N165 A

Nitrate (as NO₃)

| | |
|------------------------------|-------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 14.3 ± 0.17 |
| Criterion | 0.716 (5 %) |
| Minimum - Maximum | 13 - 15.2 |
| Control test value ± U (k=2) | 13.3 ± 1.33 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 14.25 | 0.95 | 99.5 | -0.1 | |
| LC0003 | - | - | - | - | |
| LC0004 | 13.2 | 1 | 92.2 | -1.57 | |
| LC0005 | 13.9 | 0.6 | 97.1 | -0.59 | |
| LC0006 | 15.1 | 1.5 | 105 | 1.09 | |
| LC0007 | 13.8 | 1.1 | 96.4 | -0.73 | |
| LC0008 | 14.3 | 0.7 | 99.8 | -0.03 | |
| LC0009 | 14.393 | 0.638 | 100 | 0.1 | |
| LC0010 | 14.5 | 2.1 | 101 | 0.25 | |
| LC0011 | 15.05 | 0.8 | 105 | 1.02 | |
| LC0012 | 14.6 | 2 | 102 | 0.39 | |
| LC0013 | 14.6 | 0.204 | 102 | 0.39 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 14.34 | 1.4 | 100 | 0.03 | |
| LC0017 | 14.13 | 0.97 | 98.7 | -0.27 | |
| LC0018 | 14.9 | 1.341 | 104 | 0.81 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 14.25 | 0.4 | 99.5 | -0.1 | |
| LC0022 | 14.3 | 0.83 | 99.8 | -0.03 | |
| LC0023 | 15 | 2.3 | 105 | 0.95 | |
| LC0024 | 15 | 0.058 | 105 | 0.95 | |
| LC0025 | 14.2 | 0.82 | 99.2 | -0.17 | |
| LC0026 | - | - | - | - | |
| LC0027 | 14.4 | 0.72 | 101 | 0.11 | |
| LC0028 | 0.973 | 0.056 | 6.8 | -18.64 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 14.396 | 0.5758 | 101 | 0.1 | |
| LC0031 | 14.1 | 1.5 | 98.5 | -0.31 | |
| LC0032 | 14.5 | 2.175 | 101 | 0.25 | |
| LC0033 | 15.15 | 2 | 106 | 1.16 | |
| LC0034 | 13.8 | 0.79 | 96.4 | -0.73 | |
| LC0035 | - | - | - | - | |
| LC0036 | 16.07 | 0.8 | 112 | 2.44 | H |
| LC0037 | 14.05 | 0.35 | 98.1 | -0.38 | |
| LC0038 | - | - | - | - | |
| LC0039 | 14.3 | 0.9 | 99.8 | -0.03 | |
| LC0040 | 14 | 0.7 | 97.8 | -0.45 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrate (as NO3)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|---------|-------|--------------|---------|----------|
| LC0042 | 13.6 | 3.2 | 95 | -1.01 | |
| LC0043 | - | - | - | - | |
| LC0044 | 12.668 | 2.6 | 88.5 | -2.31 | H |
| LC0045 | 14.021 | 1.4 | 97.9 | -0.42 | |
| LC0046 | - | - | - | - | |
| LC0047 | 15 | 2 | 105 | 0.95 | |
| LC0048 | 14.23 | 0.18 | 99.4 | -0.13 | |
| LC0049 | 14.7 | 1.1 | 103 | 0.53 | |
| LC0050 | 13 | 0.52 | 90.8 | -1.85 | |
| LC0051 | 12.9047 | 1.102 | 90.1 | -1.98 | H |
| LC0052 | 14.2 | 0.282 | 99.2 | -0.17 | |

Characteristics of parameter

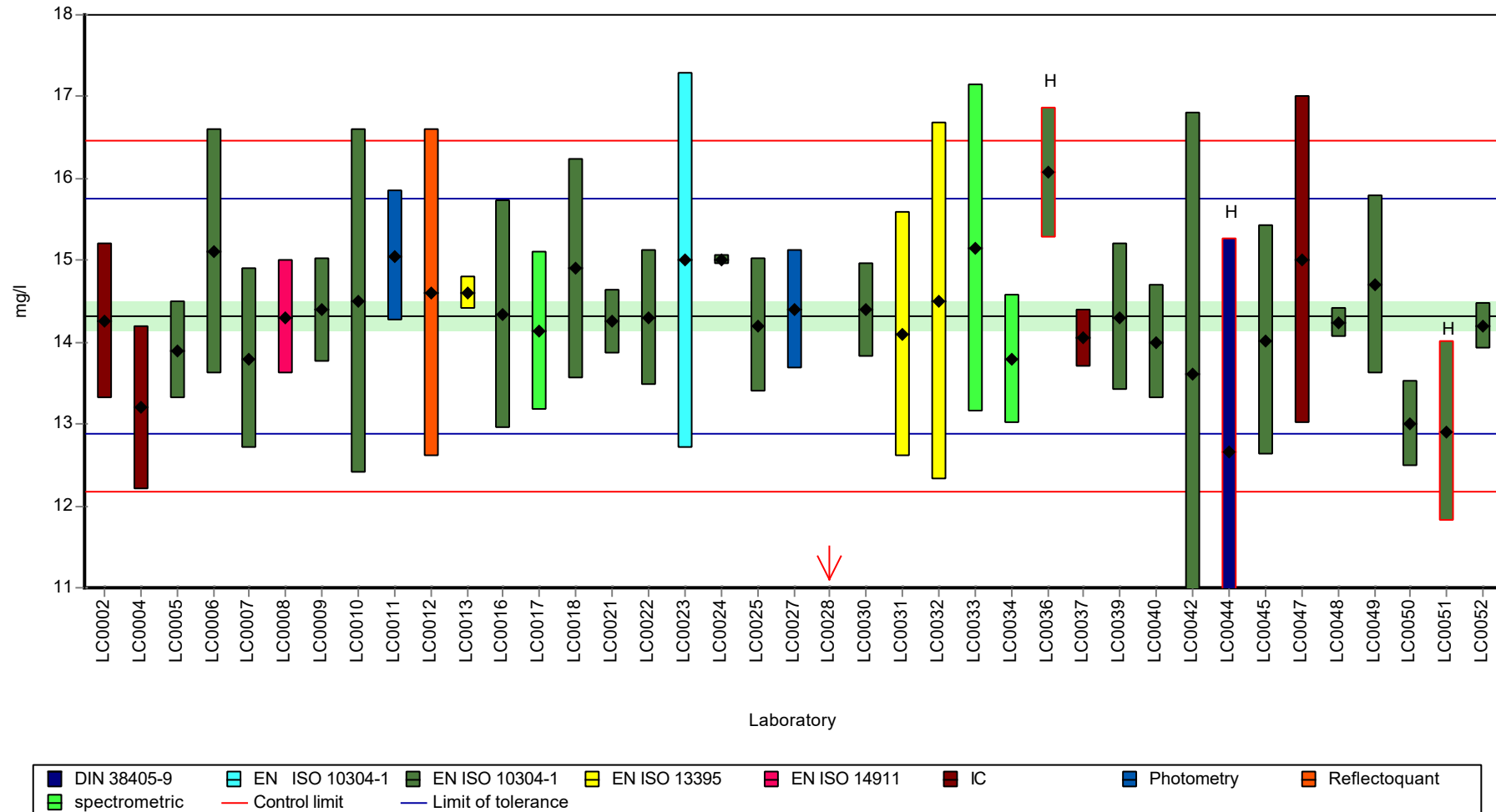
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 13.9 ± 1.07 | 14.3 ± 0.255 | mg/l |
| Minimum | 0.973 | 13 | mg/l |
| Maximum | 16.1 | 15.2 | mg/l |
| Standard deviation | 2.23 | 0.502 | mg/l |
| rel. standard deviation | 16 | 3.51 | % |
| n | 39 | 35 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrate (as NO₃)

Graphical presentation of results

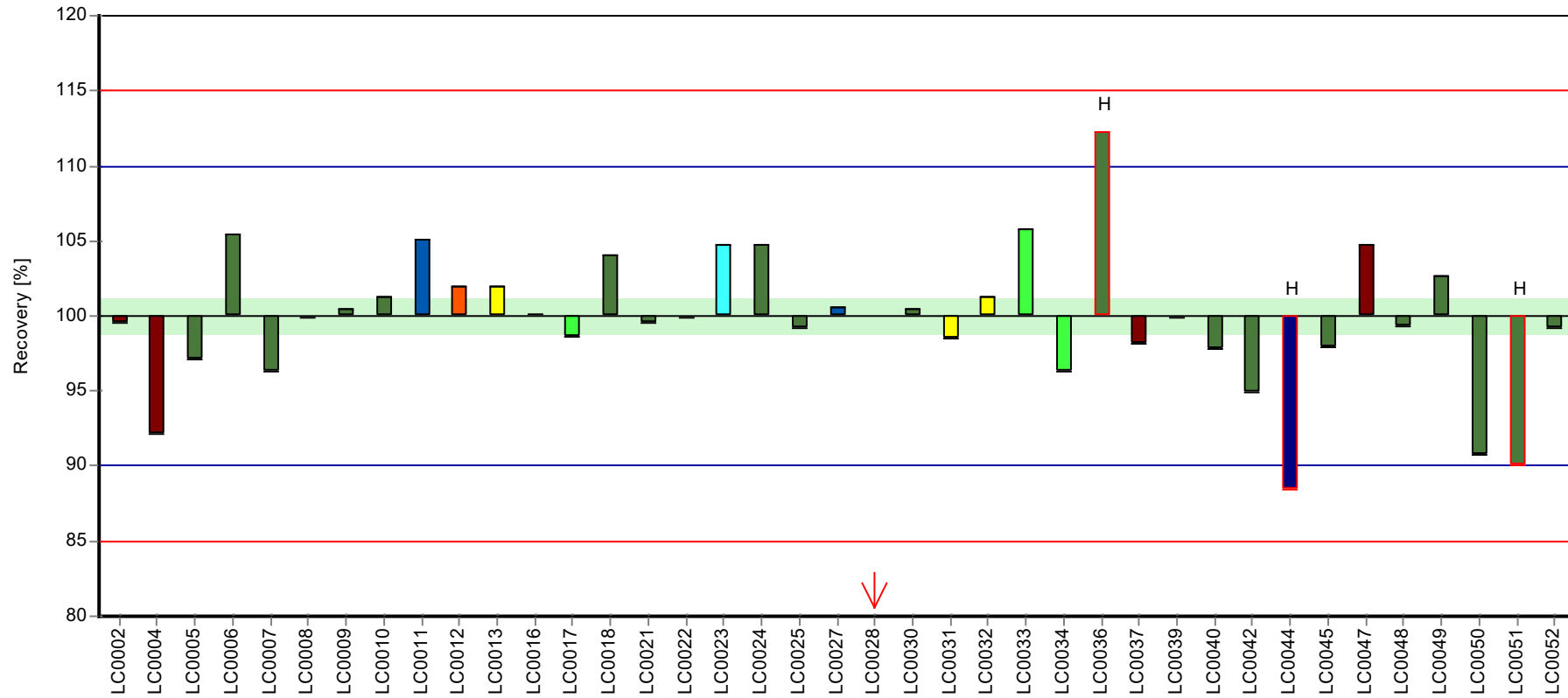
Results



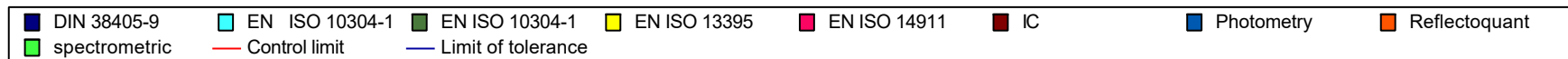
Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrate (as NO₃)

Recovery rate



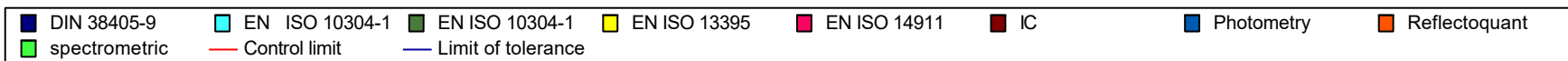
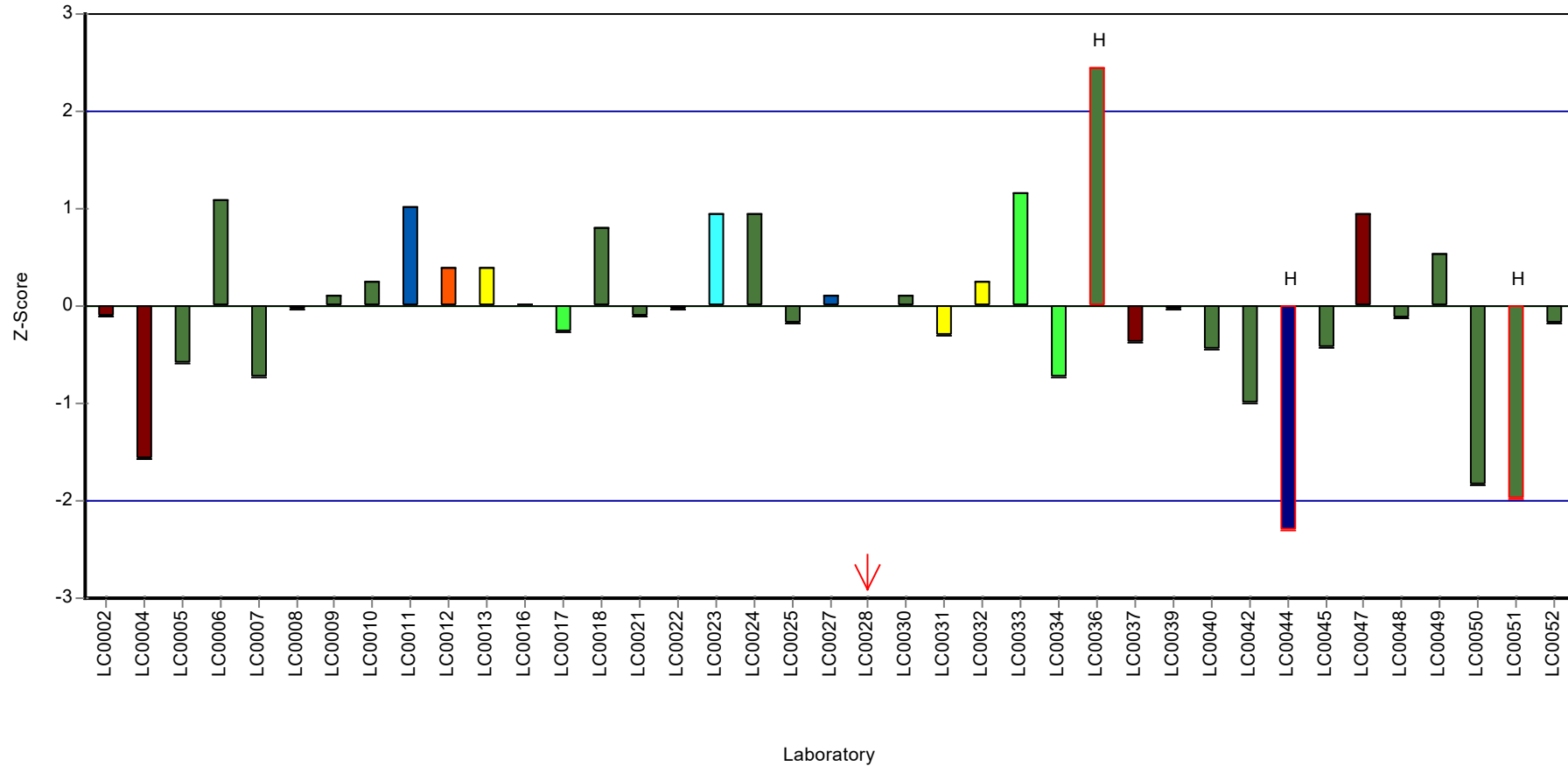
Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrate (as NO3)

Z-score



Parameter oriented report

N165 B

Nitrate (as NO₃)

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 15.8 ± 0.207 |
| Criterion | 0.791 (5 %) |
| Minimum - Maximum | 14.4 - 17.3 |
| Control test value ± U (k=2) | 14.8 ± 1.48 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 15.73 | 1.05 | 99.4 | -0.11 | |
| LC0003 | - | - | - | - | |
| LC0004 | 13.5 | 1 | 85.3 | -2.93 | H |
| LC0005 | 15.5 | 0.7 | 98 | -0.41 | |
| LC0006 | 16.7 | 1.7 | 106 | 1.11 | |
| LC0007 | 15.3 | 1.2 | 96.7 | -0.66 | |
| LC0008 | 15.7 | 0.7 | 99.2 | -0.15 | |
| LC0009 | 15.848 | 0.702 | 100 | 0.03 | |
| LC0010 | 15.6 | 2.3 | 98.6 | -0.28 | |
| LC0011 | 16.6 | 0.5 | 105 | 0.99 | |
| LC0012 | 17 | 2 | 107 | 1.49 | |
| LC0013 | 16.2 | 0.227 | 102 | 0.48 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 15.83 | 1.6 | 100 | 0.01 | |
| LC0017 | 15.67 | 1.07 | 99 | -0.19 | |
| LC0018 | 16.3 | 1.467 | 103 | 0.61 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 15.78 | 0.4 | 99.7 | -0.05 | |
| LC0022 | 15.8 | 0.92 | 99.9 | -0.03 | |
| LC0023 | 16 | 2.4 | 101 | 0.23 | |
| LC0024 | 16.7 | 0.1 | 106 | 1.11 | |
| LC0025 | 15.6 | 0.9 | 98.6 | -0.28 | |
| LC0026 | - | - | - | - | |
| LC0027 | 15.8 | 0.79 | 99.9 | -0.03 | |
| LC0028 | 2.423 | 0.141 | 15.3 | -16.94 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 15.804 | 0.632 | 99.9 | -0.02 | |
| LC0031 | 15.6 | 1.5 | 98.6 | -0.28 | |
| LC0032 | 16.1 | 2.415 | 102 | 0.35 | |
| LC0033 | 17.26 | 1 | 109 | 1.82 | |
| LC0034 | 15.1 | 0.13 | 95.4 | -0.91 | |
| LC0035 | - | - | - | - | |
| LC0036 | 16.89 | 0.844 | 107 | 1.35 | |
| LC0037 | 15.4 | 0.39 | 97.3 | -0.53 | |
| LC0038 | - | - | - | - | |
| LC0039 | 16.2 | 1 | 102 | 0.48 | |
| LC0040 | 15.4 | 0.77 | 97.3 | -0.53 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrate (as NO₃)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|---------|-------|--------------|---------|----------|
| LC0042 | 15.1 | 3.56 | 95.4 | -0.91 | |
| LC0043 | - | - | - | - | |
| LC0044 | 14.37 | 1.47 | 90.8 | -1.83 | |
| LC0045 | 15.762 | 1.5 | 99.6 | -0.07 | |
| LC0046 | - | - | - | - | |
| LC0047 | 16 | 2 | 101 | 0.23 | |
| LC0048 | 15.48 | 0.19 | 97.8 | -0.43 | |
| LC0049 | 16.2 | 1.2 | 102 | 0.48 | |
| LC0050 | 14.9 | 0.59 | 94.2 | -1.16 | |
| LC0051 | 14.5397 | 1.242 | 91.9 | -1.62 | |
| LC0052 | 15.6 | 0.276 | 98.6 | -0.28 | |

Characteristics of parameter

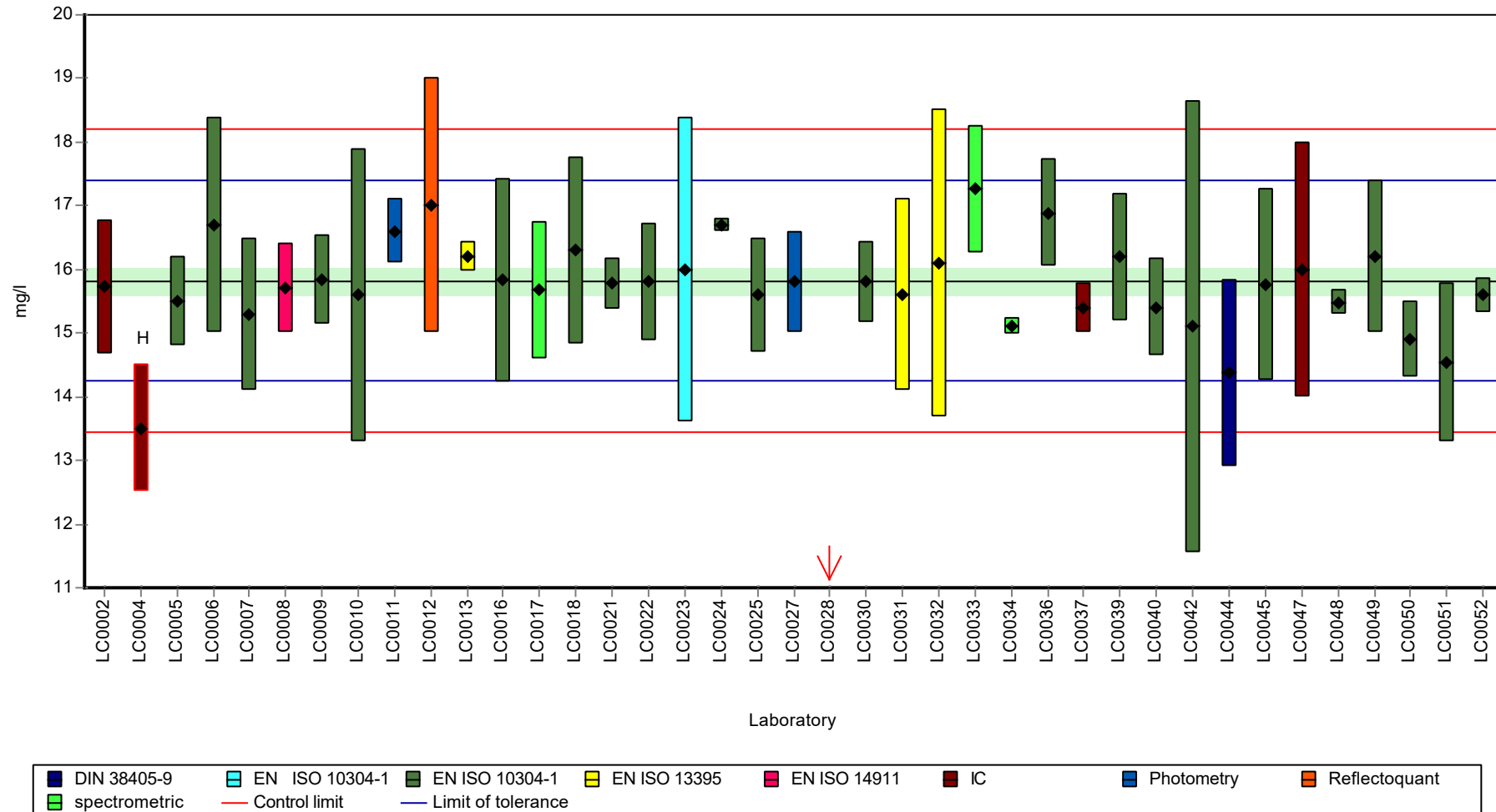
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 15.4 ± 1.08 | 15.8 ± 0.311 | mg/l |
| Minimum | 2.42 | 14.4 | mg/l |
| Maximum | 17.3 | 17.3 | mg/l |
| Standard deviation | 2.25 | 0.63 | mg/l |
| rel. standard deviation | 14.6 | 3.98 | % |
| n | 39 | 37 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrate (as NO₃)

Graphical presentation of results

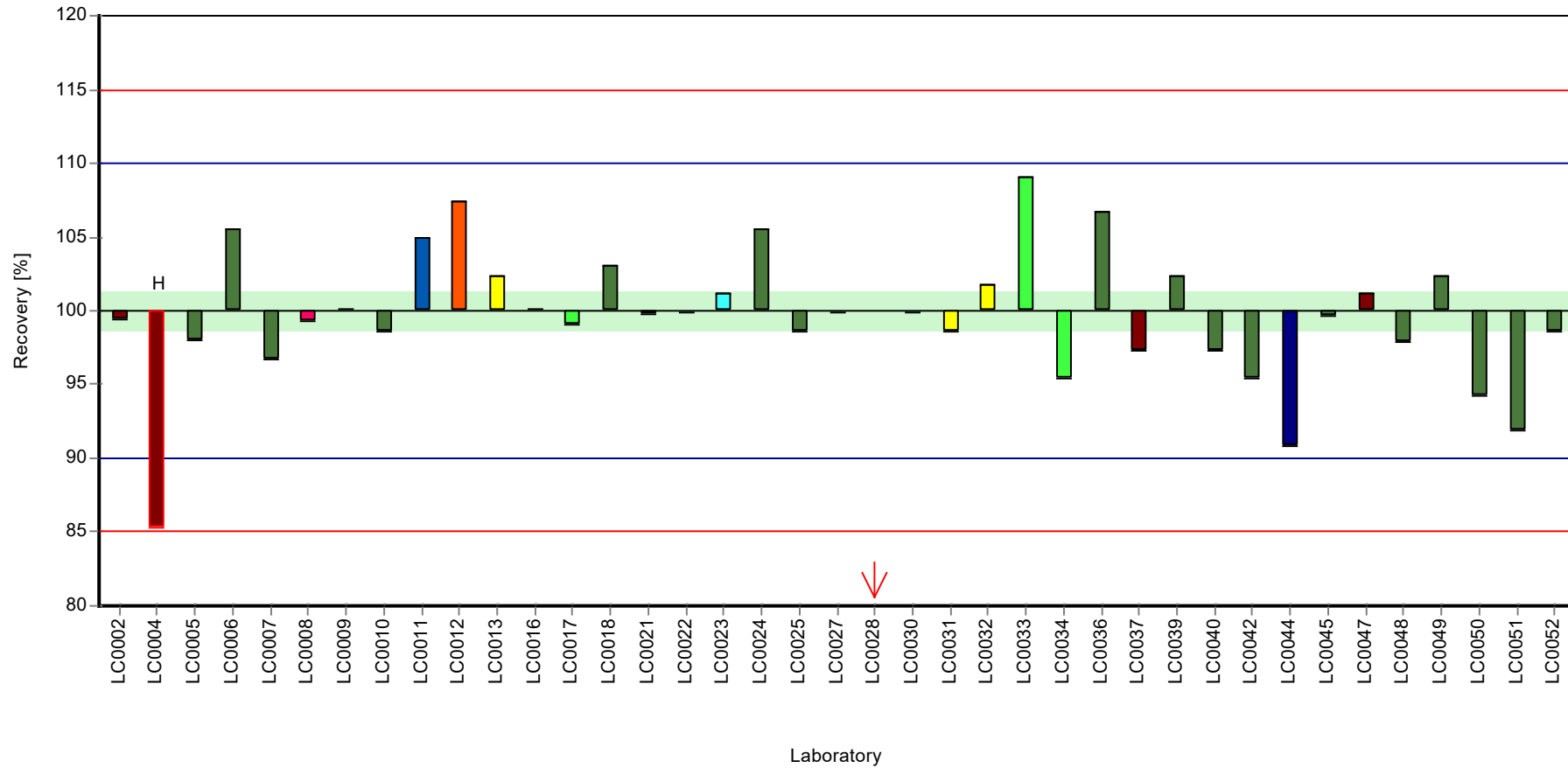
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrate (as NO3)

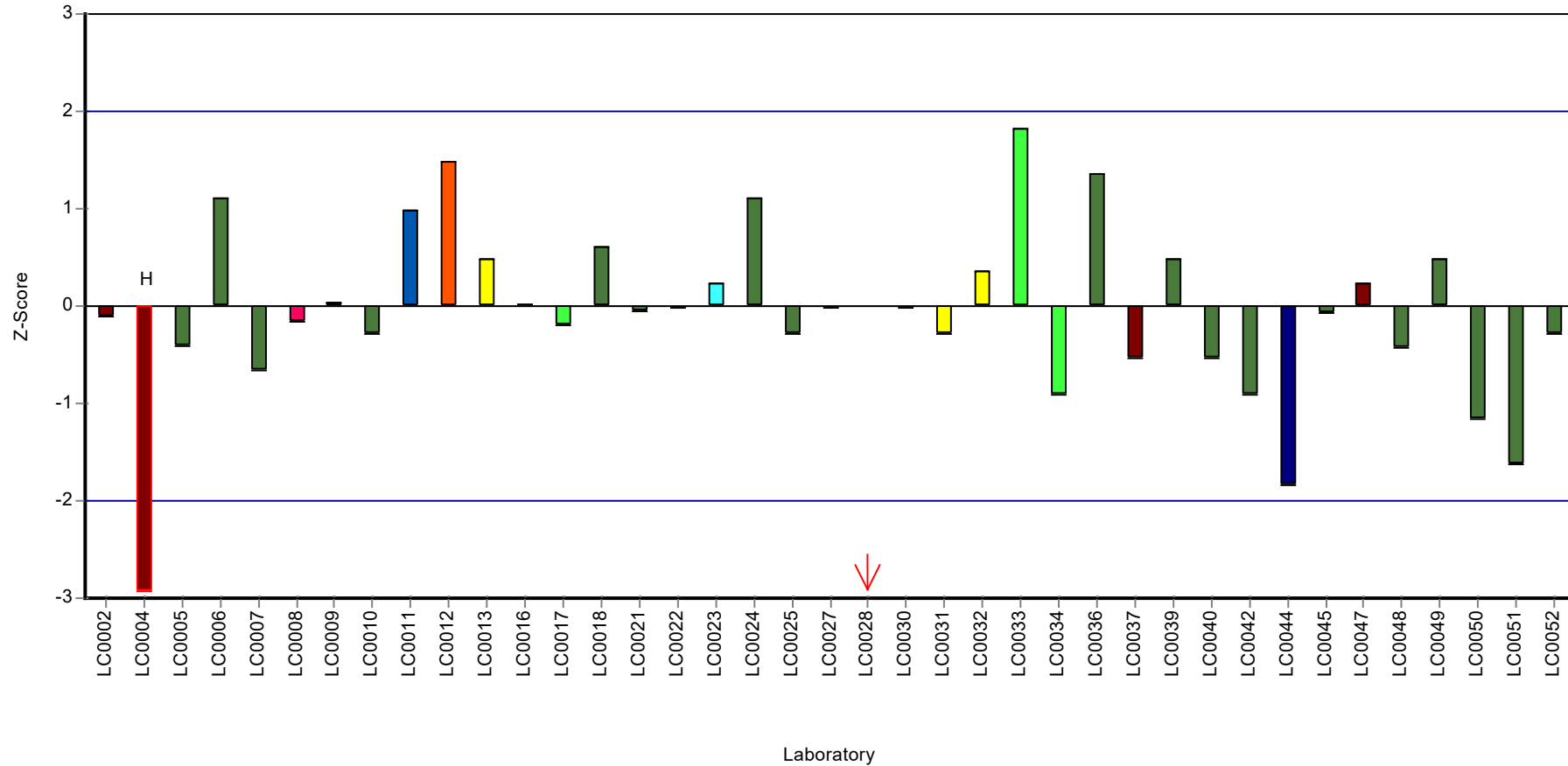
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrate (as NO3)

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrite (as NO₂)

Parameter oriented report

N165 A

Nitrite (as NO₂)

| | |
|------------------------------|-----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.208 ± 0.00304 |
| Criterion | 0.011 (5.3 %) |
| Minimum - Maximum | 0.188 - 0.231 |
| Control test value ± U (k=2) | 0.211 ± 0.0317 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|------------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 0.208 | 0.014 | 100 | 0.02 | |
| LC0003 | - | - | - | - | |
| LC0004 | 0.207 | 0.01 | 99.6 | -0.07 | |
| LC0005 | 0.209 | 0.01 | 101 | 0.11 | |
| LC0006 | 0.208 | 0.023 | 100 | 0.02 | |
| LC0007 | 0.212 | 0.021 | 102 | 0.38 | |
| LC0008 | 0.213 | 0.011 | 103 | 0.47 | |
| LC0009 | 0.226 | 0.063 | 109 | 1.65 | |
| LC0010 | 0.208 | 0.036 | 100 | 0.02 | |
| LC0011 | - | - | - | - | |
| LC0012 | <0.5 (LOD) | - | - | - | |
| LC0013 | 0.213 | 0.0141 | 103 | 0.47 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.2026 | 0.0124 | 97.5 | -0.47 | |
| LC0017 | 0.211 | 0.02 | 102 | 0.29 | |
| LC0018 | 0.21 | 0.0189 | 101 | 0.2 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.2053 | 0.002 | 98.8 | -0.22 | |
| LC0022 | 0.155 | 0.0095 | 74.6 | -4.79 | H |
| LC0023 | 0.204 | 0.031 | 98.2 | -0.34 | |
| LC0024 | 0.208 | 0.002 | 100 | 0.02 | |
| LC0025 | 0.198 | 0.012 | 95.3 | -0.89 | |
| LC0026 | 0.188 | 0.047 | 90.5 | -1.8 | |
| LC0027 | 0.231 | 0.01 | 111 | 2.11 | |
| LC0028 | 0.254 | 0.037 | 122 | 4.2 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 0.19 | 0.0152 | 91.4 | -1.61 | |
| LC0031 | 0.22 | 0.02 | 106 | 1.11 | |
| LC0032 | 0.213 | 0.03195 | 103 | 0.47 | |
| LC0033 | 0.235 | 0.05 | 113 | 2.47 | H |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.21 | 0.201 | 101 | 0.2 | |
| LC0037 | 0.214 | 0.011 | 103 | 0.57 | |
| LC0038 | - | - | - | - | |
| LC0039 | 0.202 | 0.016 | 97.2 | -0.52 | |
| LC0040 | 0.045 | 0.0045 | 21.7 | -14.78 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrite (as NO₂)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0042 | 0.199 | 0.08 | 95.8 | -0.8 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.209 | 0.02 | 101 | 0.11 | |
| LC0045 | 0.209 | 0.02 | 101 | 0.11 | |
| LC0046 | 0.2 | 0.01 | 96.3 | -0.71 | |
| LC0047 | 0.2 | 0.01 | 96.3 | -0.71 | |
| LC0048 | 0.233 | 0.00004 | 112 | 2.29 | H |
| LC0049 | 0.216 | 0.02 | 104 | 0.75 | |
| LC0050 | 0.198 | 0.073 | 95.3 | -0.89 | |
| LC0051 | 0.2087 | 0.016 | 100 | 0.08 | |
| LC0052 | 0.206 | 0.00093 | 99.1 | -0.16 | |

Characteristics of parameter

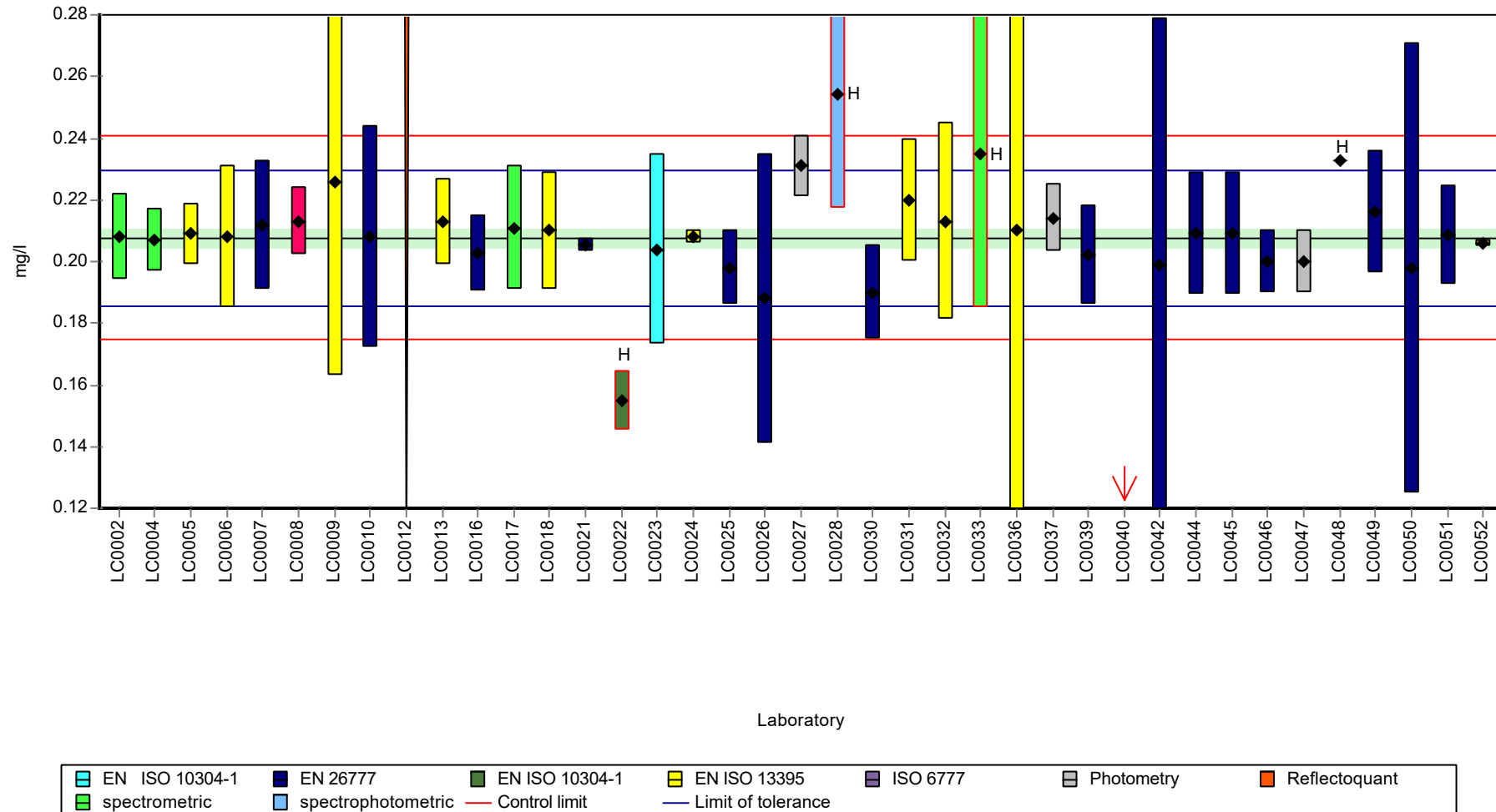
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.205 ± 0.0149 | 0.208 ± 0.00455 | mg/l |
| Minimum | 0.045 | 0.188 | mg/l |
| Maximum | 0.254 | 0.231 | mg/l |
| Standard deviation | 0.0307 | 0.00872 | mg/l |
| rel. standard deviation | 15 | 4.2 | % |
| n | 38 | 33 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrite (as NO₂)

Graphical presentation of results

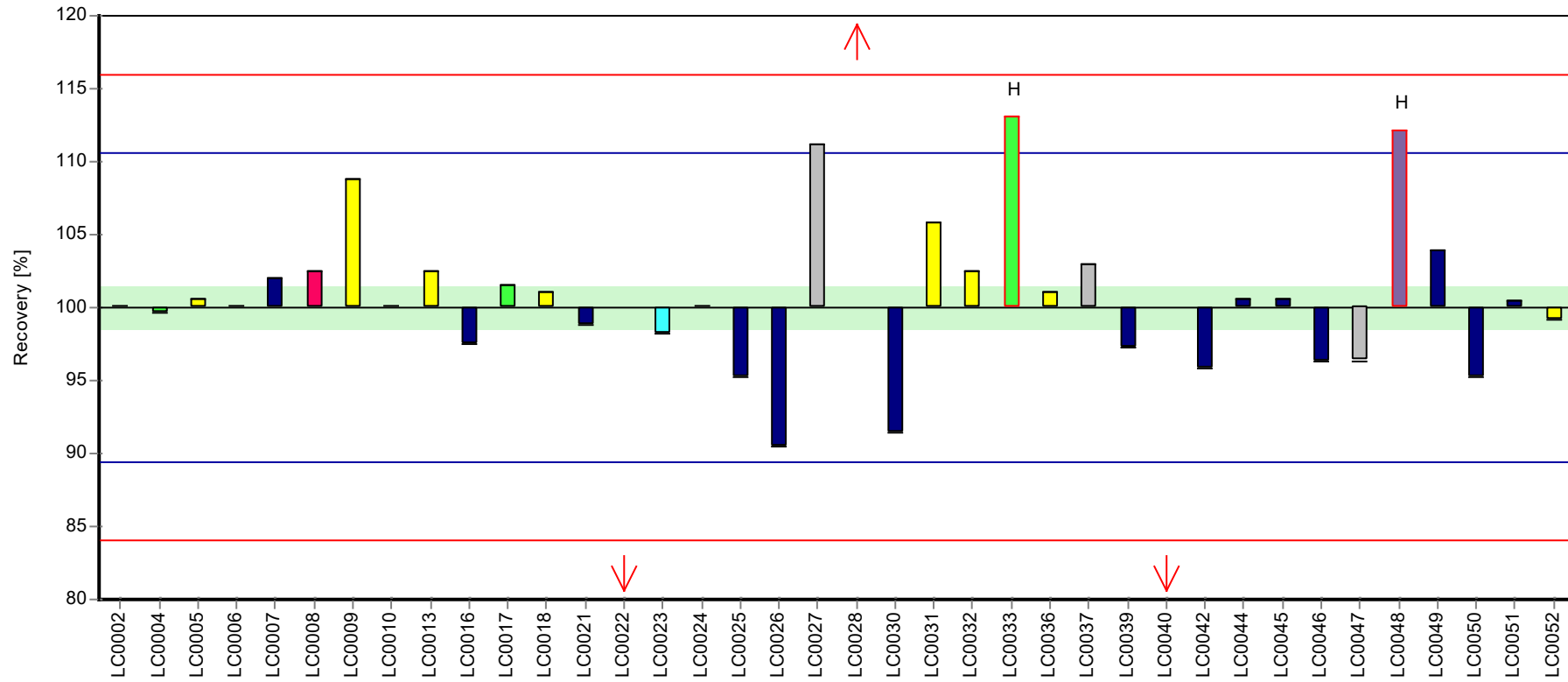
Results



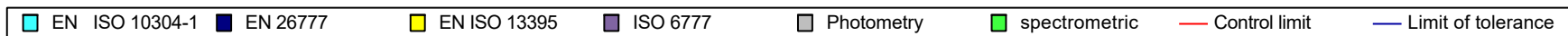
Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrite (as NO₂)

Recovery rate



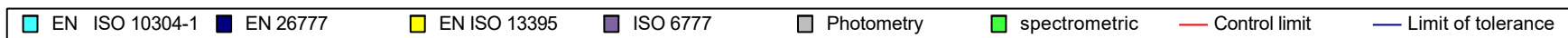
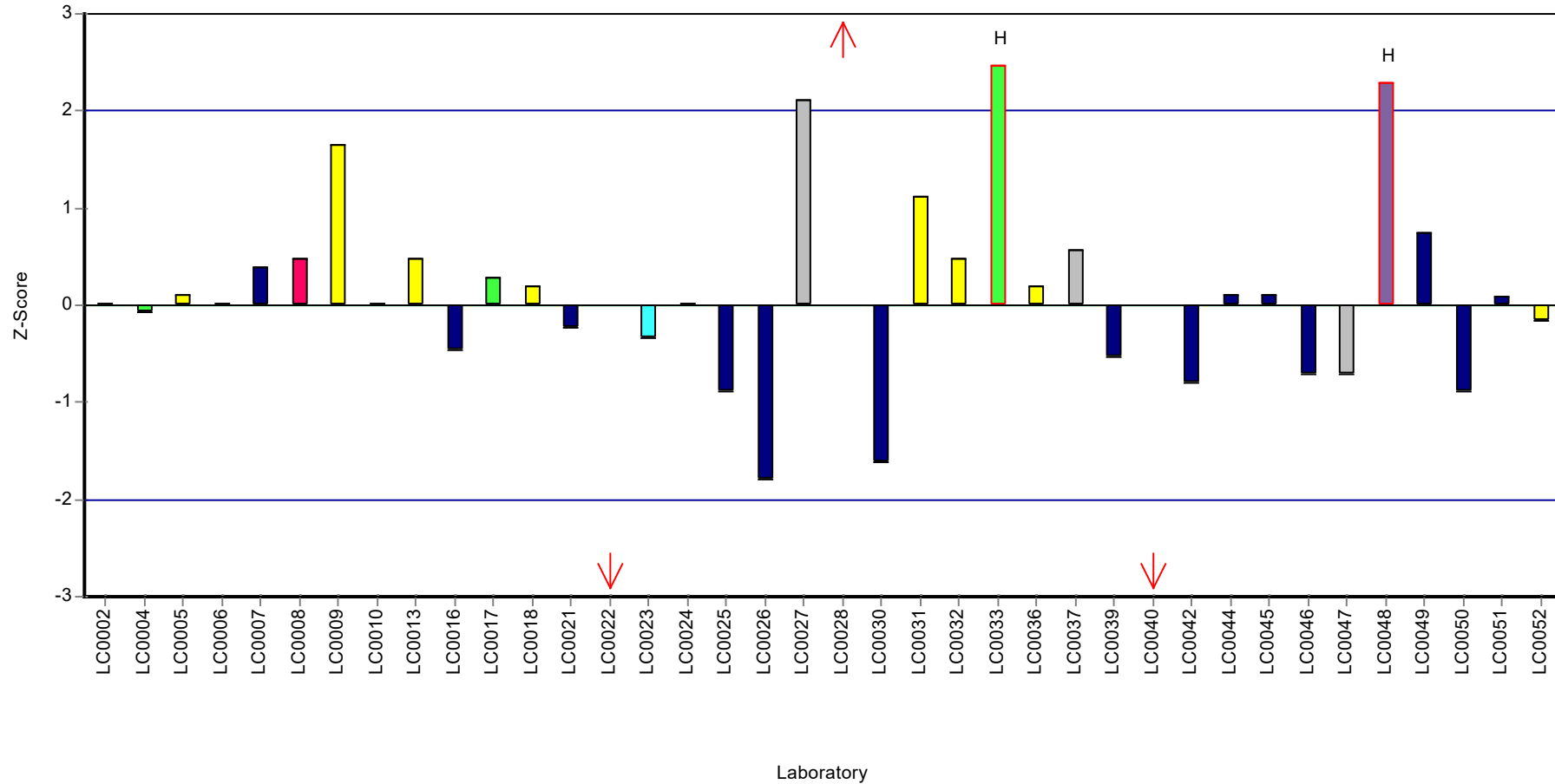
Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Nitrite (as NO₂)

Z-score



Parameter oriented report

N165 B

Nitrite (as NO₂)

| | |
|------------------------------|-----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.242 ± 0.00388 |
| Criterion | 0.0128 (5.3 %) |
| Minimum - Maximum | 0.221 - 0.272 |
| Control test value ± U (k=2) | 0.247 ± 0.0371 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|------------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 0.242 | 0.017 | 99.8 | -0.03 | |
| LC0003 | - | - | - | - | |
| LC0004 | 0.243 | 0.01 | 100 | 0.04 | |
| LC0005 | 0.246 | 0.013 | 101 | 0.28 | |
| LC0006 | 0.239 | 0.026 | 98.6 | -0.27 | |
| LC0007 | 0.247 | 0.025 | 102 | 0.35 | |
| LC0008 | 0.246 | 0.012 | 101 | 0.28 | |
| LC0009 | 0.261 | 0.073 | 108 | 1.44 | |
| LC0010 | 0.244 | 0.042 | 101 | 0.12 | |
| LC0011 | - | - | - | - | |
| LC0012 | <0.5 (LOD) | - | - | - | |
| LC0013 | 0.25 | 0.0165 | 103 | 0.59 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.2397 | 0.0147 | 98.9 | -0.21 | |
| LC0017 | 0.243 | 0.02 | 100 | 0.04 | |
| LC0018 | 0.245 | 0.02205 | 101 | 0.2 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.2207 | 0.002 | 91 | -1.69 | |
| LC0022 | 0.205 | 0.012 | 84.6 | -2.91 | H |
| LC0023 | 0.2 | 0.03 | 82.5 | -3.3 | H |
| LC0024 | 0.0239 | 0.001 | 9.9 | -17.01 | H |
| LC0025 | 0.236 | 0.014 | 97.3 | -0.5 | |
| LC0026 | 0.224 | 0.056 | 92.4 | -1.44 | |
| LC0027 | 0.272 | 0.01 | 112 | 2.3 | |
| LC0028 | 0.28 | 0.04 | 115 | 2.92 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 0.227 | 0.0181 | 93.6 | -1.2 | |
| LC0031 | 0.25 | 0.02 | 103 | 0.59 | |
| LC0032 | 0.248 | 0.0372 | 102 | 0.43 | |
| LC0033 | 0.265 | 0.05 | 109 | 1.76 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.246 | 0.025 | 101 | 0.28 | |
| LC0037 | 0.25 | 0.013 | 103 | 0.59 | |
| LC0038 | - | - | - | - | |
| LC0039 | 0.234 | 0.018 | 96.5 | -0.66 | |
| LC0040 | 0.084 | 0.0084 | 34.6 | -12.33 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrite (as NO₂)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0042 | 0.235 | 0.094 | 96.9 | -0.58 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.24 | 0.021 | 99 | -0.19 | |
| LC0045 | 0.24 | 0.024 | 99 | -0.19 | |
| LC0046 | 0.24 | 0.01 | 99 | -0.19 | |
| LC0047 | 0.23 | 0.01 | 94.9 | -0.97 | |
| LC0048 | 0.276 | 0.00018 | 114 | 2.61 | H |
| LC0049 | 0.25 | 0.02 | 103 | 0.59 | |
| LC0050 | 0.235 | 0.087 | 96.9 | -0.58 | |
| LC0051 | 0.2418 | 0.019 | 99.7 | -0.05 | |
| LC0052 | 0.228 | 0.00417 | 94 | -1.12 | |

Characteristics of parameter

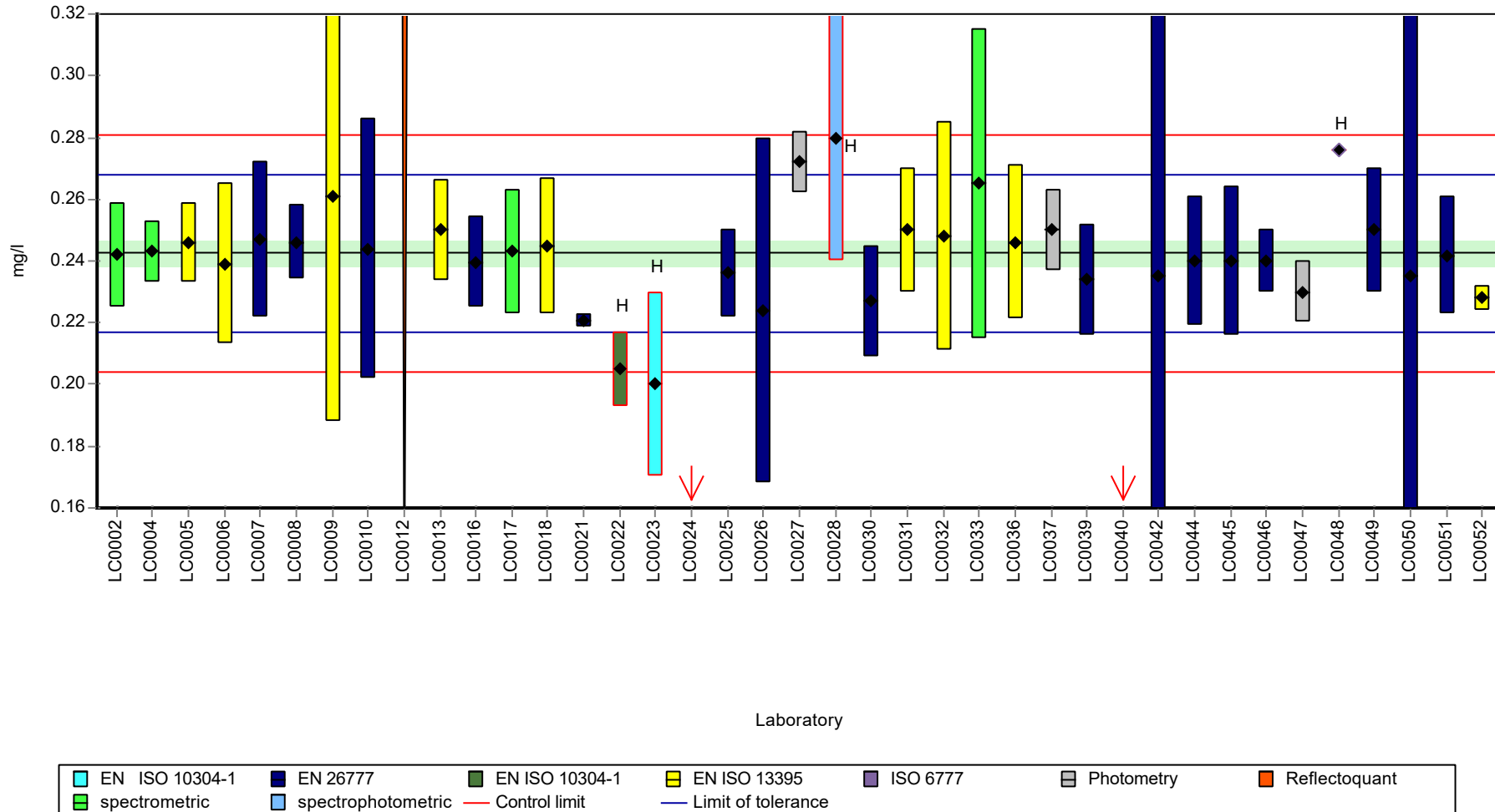
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.232 ± 0.0224 | 0.242 ± 0.00582 | mg/l |
| Minimum | 0.0239 | 0.221 | mg/l |
| Maximum | 0.28 | 0.272 | mg/l |
| Standard deviation | 0.046 | 0.011 | mg/l |
| rel. standard deviation | 19.8 | 4.52 | % |
| n | 38 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrite (as NO₂)

Graphical presentation of results

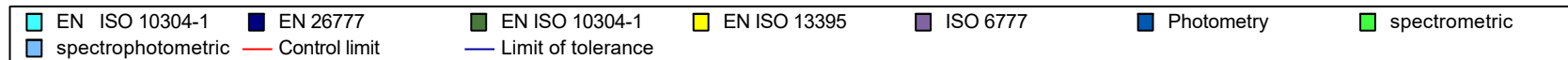
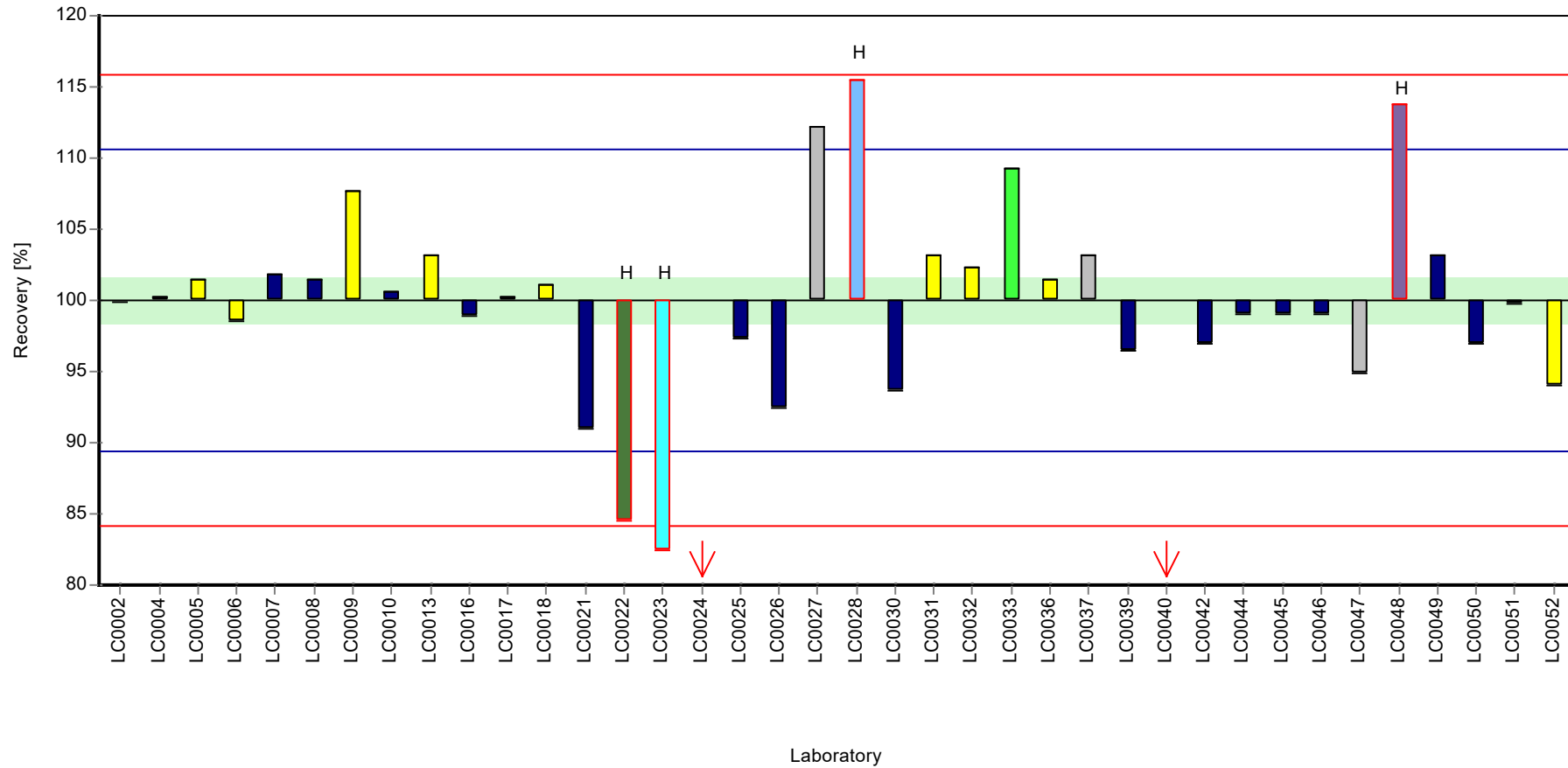
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrite (as NO₂)

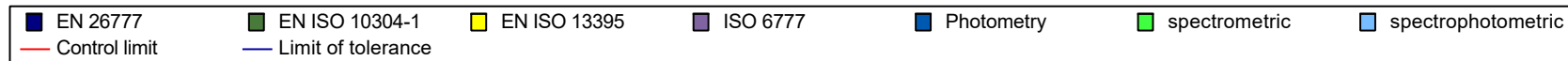
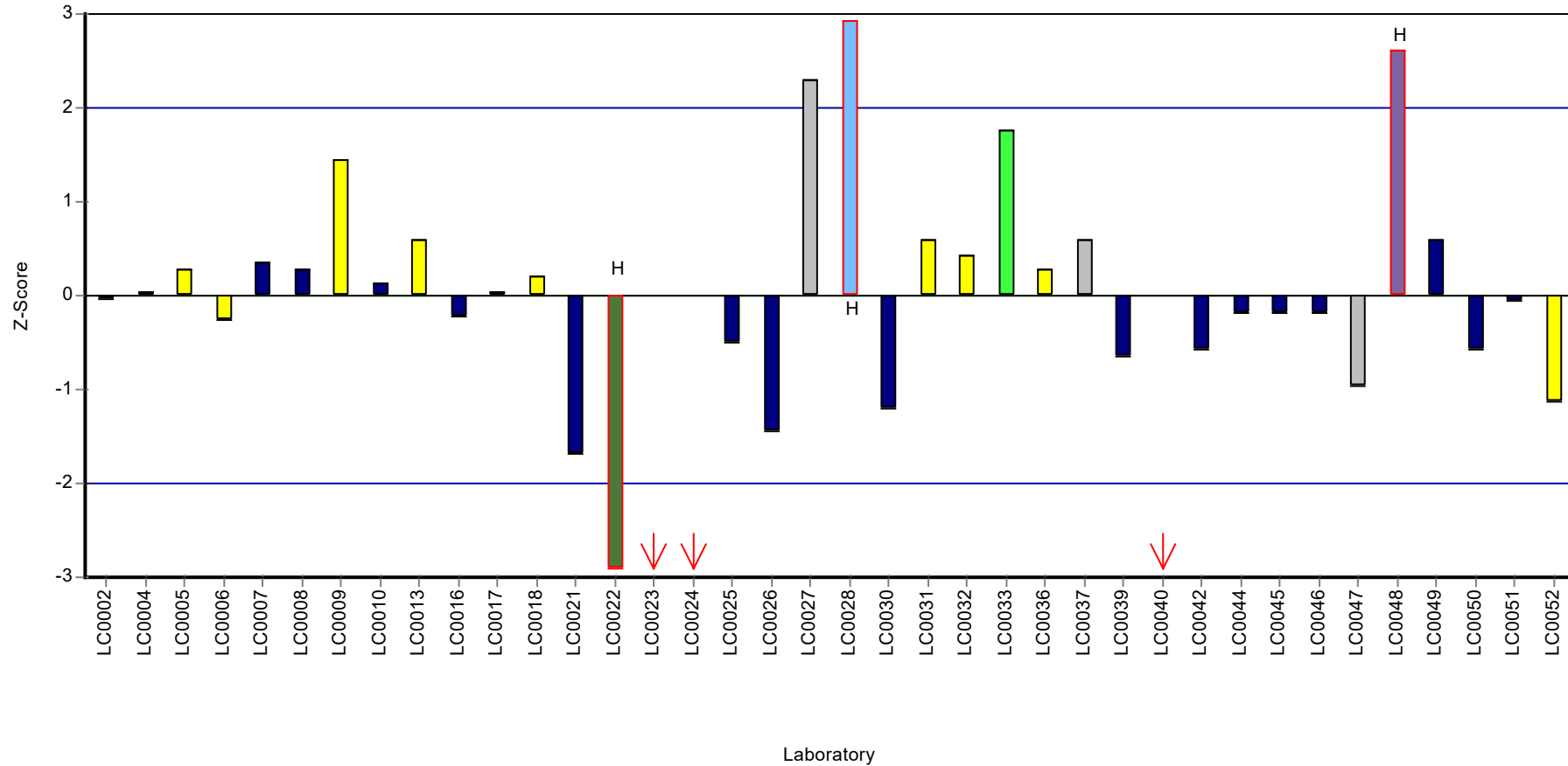
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Nitrite (as NO₂)

Z-score



Parameter oriented report Nutrients/Major Ions N165 Sample: N165A, Parameter: Orthophosphate (as PO4)

Parameter oriented report

N165 A

Orthophosphate (as PO4)

| | |
|------------------------------|-----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.131 ± 0.0163 |
| Criterion | 0.0392 (30 %) |
| Minimum - Maximum | 0.06 - 0.18 |
| Control test value ± U (k=2) | 0.0891 ± 0.0134 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|-----------|---------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 0.156 | 0.008 | 119 | 0.65 | |
| LC0006 | 0.117 | 0.0094 | 89.5 | -0.35 | |
| LC0007 | 0.087 | 0.013 | 66.6 | -1.11 | |
| LC0008 | 0.163 | 0.008 | 125 | 0.82 | |
| LC0009 | 0.113 | 0.019 | 86.5 | -0.45 | |
| LC0010 | 0.158 | 0.025 | 121 | 0.7 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 0.138 | 0.0104 | 106 | 0.19 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.0649 | 0.0045 | 49.7 | -1.68 | |
| LC0017 | 0.172 | 0.02 | 132 | 1.05 | |
| LC0018 | 0.066 | 0.02175 | 50.5 | -1.65 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.068 | 0.002 | 52 | -1.6 | |
| LC0022 | < 1 (LOQ) | - | - | - | |
| LC0023 | 0.108 | 0.016 | 82.6 | -0.58 | |
| LC0024 | 0.155 | 0.004 | 119 | 0.62 | |
| LC0025 | 0.158 | 0.005 | 121 | 0.7 | |
| LC0026 | - | - | - | - | |
| LC0027 | 0.144 | 0.015 | 110 | 0.34 | |
| LC0028 | 0.144 | 0.015 | 110 | 0.34 | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.144 | 0.0173 | 110 | 0.34 | |
| LC0031 | 0.06 | 0.02 | 45.9 | -1.8 | |
| LC0032 | 0.0805 | 0.012 | 61.6 | -1.28 | |
| LC0033 | 0.11 | 0.01 | 84.2 | -0.53 | |
| LC0034 | 0.143 | 0.01 | 109 | 0.31 | |
| LC0035 | - | - | - | - | |
| LC0036 | - | - | - | - | |
| LC0037 | 0.064 | 0.0038 | 49 | -1.7 | |
| LC0038 | 0.173 | 0.012 | 132 | 1.08 | |
| LC0039 | 0.164 | 0.022 | 125 | 0.85 | |
| LC0040 | 0.01 | 0.001 | 7.7 | -3.08 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165 Sample: N165A, Parameter: Orthophosphate (as PO4)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0042 | 0.18 | 0.054 | 138 | 1.26 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.165 | 0.07 | 126 | 0.87 | |
| LC0045 | 0.16 | 0.015 | 122 | 0.75 | |
| LC0046 | - | - | - | - | |
| LC0047 | - | - | - | - | |
| LC0048 | 0.162 | 0.00014 | 124 | 0.8 | |
| LC0049 | 0.163 | 0.02 | 125 | 0.82 | |
| LC0050 | 0.148 | 0.076 | 113 | 0.44 | |
| LC0051 | 0.1615 | 0.025 | 124 | 0.79 | |
| LC0052 | 0.155 | 0.0016 | 119 | 0.62 | |

Characteristics of parameter

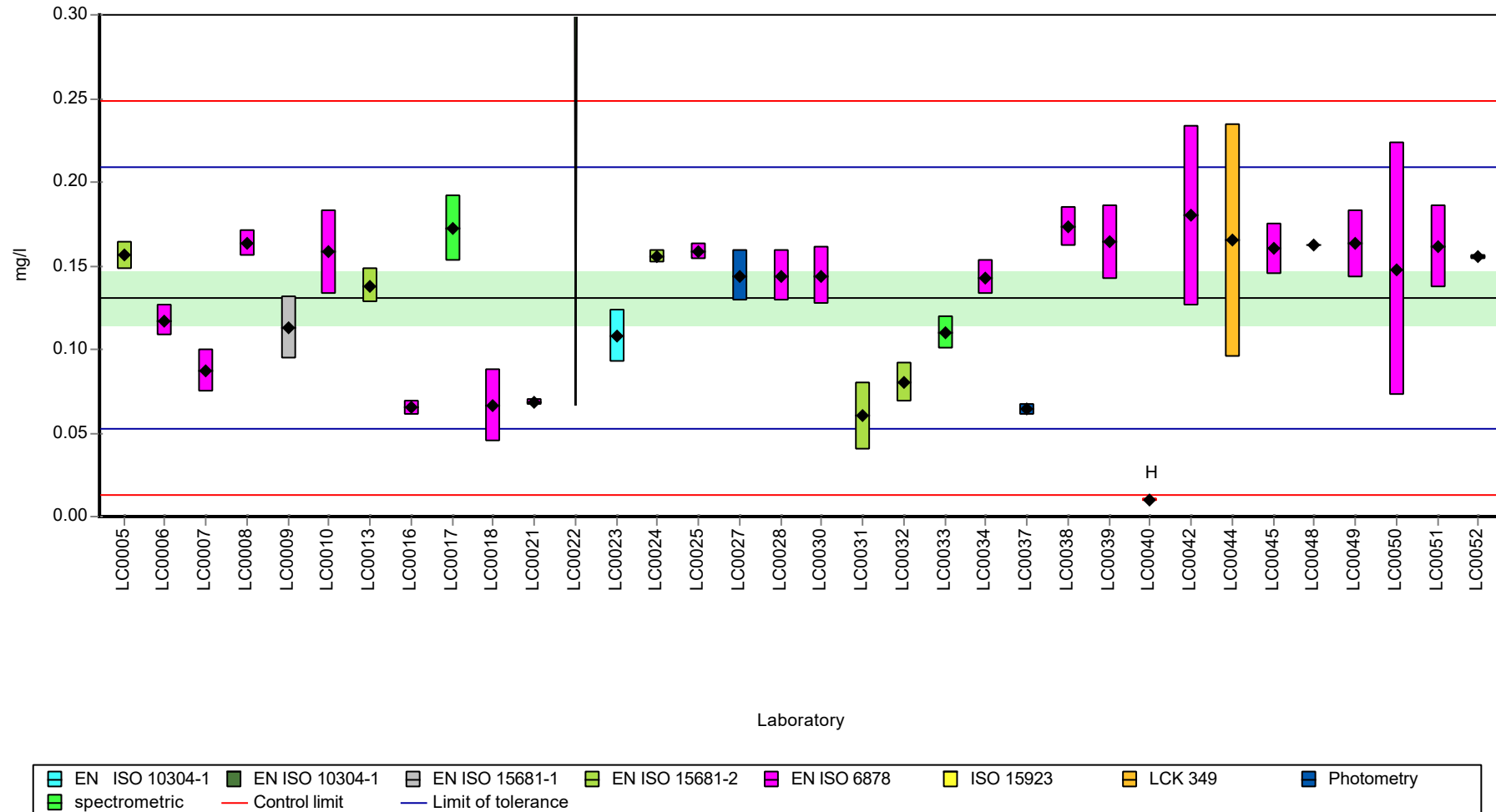
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.129 ± 0.0226 | 0.133 ± 0.0202 | mg/l |
| Minimum | 0.01 | 0.06 | mg/l |
| Maximum | 0.18 | 0.18 | mg/l |
| Standard deviation | 0.0432 | 0.0381 | mg/l |
| rel. standard deviation | 33.5 | 28.7 | % |
| n | 33 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Orthophosphate (as PO4)

Graphical presentation of results

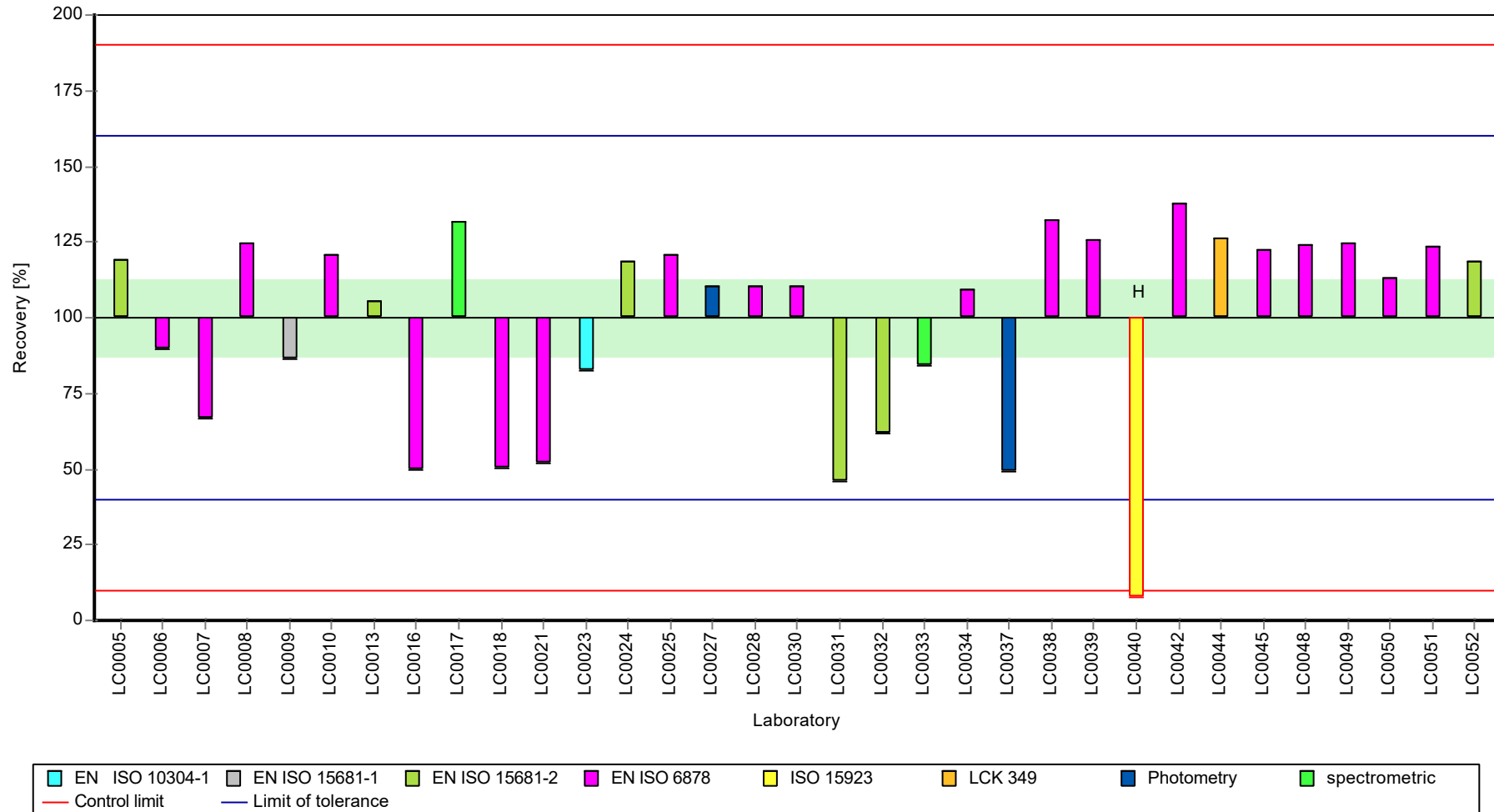
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Orthophosphate (as PO4)

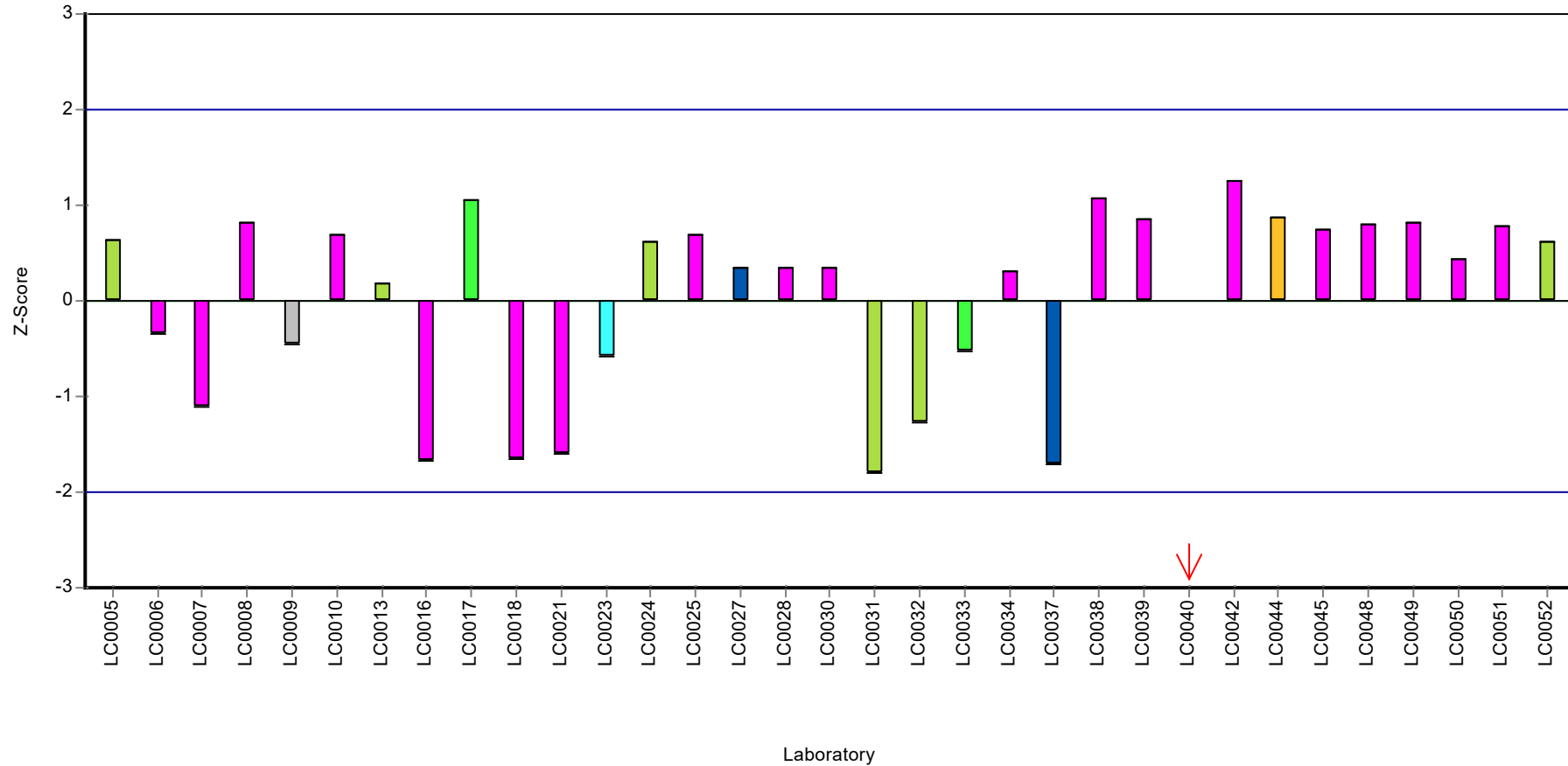
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Orthophosphate (as PO4)

Z-score



Parameter oriented report Nutrients/Major Ions N165 Sample: N165B, Parameter: Orthophosphate (as PO4)

Parameter oriented report

N165 B

Orthophosphate (as PO4)

| | |
|------------------------------|----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.151 ± 0.0066 |
| Criterion | 0.0166 (11 %) |
| Minimum - Maximum | 0.103 - 0.18 |
| Control test value ± U (k=2) | 0.141 ± 0.0212 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|-----------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 0.166 | 0.008 | 110 | 0.93 | |
| LC0006 | 0.169 | 0.014 | 112 | 1.11 | |
| LC0007 | 0.143 | 0.021 | 95 | -0.46 | |
| LC0008 | 0.168 | 0.008 | 112 | 1.05 | |
| LC0009 | 0.165 | 0.028 | 110 | 0.87 | |
| LC0010 | 0.156 | 0.025 | 104 | 0.33 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 0.138 | 0.0104 | 91.6 | -0.76 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.1386 | 0.0096 | 92 | -0.72 | |
| LC0017 | 0.179 | 0.02 | 119 | 1.72 | |
| LC0018 | 0.13 | 0.0195 | 86.3 | -1.24 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.1412 | 0.002 | 93.8 | -0.57 | |
| LC0022 | < 1 (LOQ) | - | - | - | |
| LC0023 | 0.103 | 0.016 | 68.4 | -2.87 | |
| LC0024 | 0.153 | 0.001 | 102 | 0.15 | |
| LC0025 | 0.158 | 0.005 | 105 | 0.45 | |
| LC0026 | - | - | - | - | |
| LC0027 | 0.161 | 0.017 | 107 | 0.63 | |
| LC0028 | 0.104 | 0.012 | 69.1 | -2.81 | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.169 | 0.0202 | 112 | 1.11 | |
| LC0031 | 0.15 | 0.02 | 99.6 | -0.04 | |
| LC0032 | 0.15 | 0.0225 | 99.6 | -0.04 | |
| LC0033 | 0.14 | 0.02 | 93 | -0.64 | |
| LC0034 | 0.146 | 0.01 | 97 | -0.28 | |
| LC0035 | - | - | - | - | |
| LC0036 | 0.146 | 0.015 | 97 | -0.28 | |
| LC0037 | 0.12 | 0.0072 | 79.7 | -1.85 | |
| LC0038 | 0.18 | 0.013 | 120 | 1.78 | |
| LC0039 | 0.168 | 0.022 | 112 | 1.05 | |
| LC0040 | 0.014 | 0.0014 | 9.3 | -8.25 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165 Sample: N165B, Parameter: Orthophosphate (as PO4)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0042 | 0.15 | 0.045 | 99.6 | -0.04 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.156 | 0.07 | 104 | 0.33 | |
| LC0045 | 0.163 | 0.0016 | 108 | 0.75 | |
| LC0046 | - | - | - | - | |
| LC0047 | - | - | - | - | |
| LC0048 | 0.122 | 0.00037 | 81 | -1.73 | |
| LC0049 | 0.167 | 0.03 | 111 | 0.99 | |
| LC0050 | 0.16 | 0.082 | 106 | 0.57 | |
| LC0051 | 0.1476 | 0.022 | 98 | -0.18 | |
| LC0052 | 0.162 | 0.00162 | 108 | 0.69 | |

Characteristics of parameter

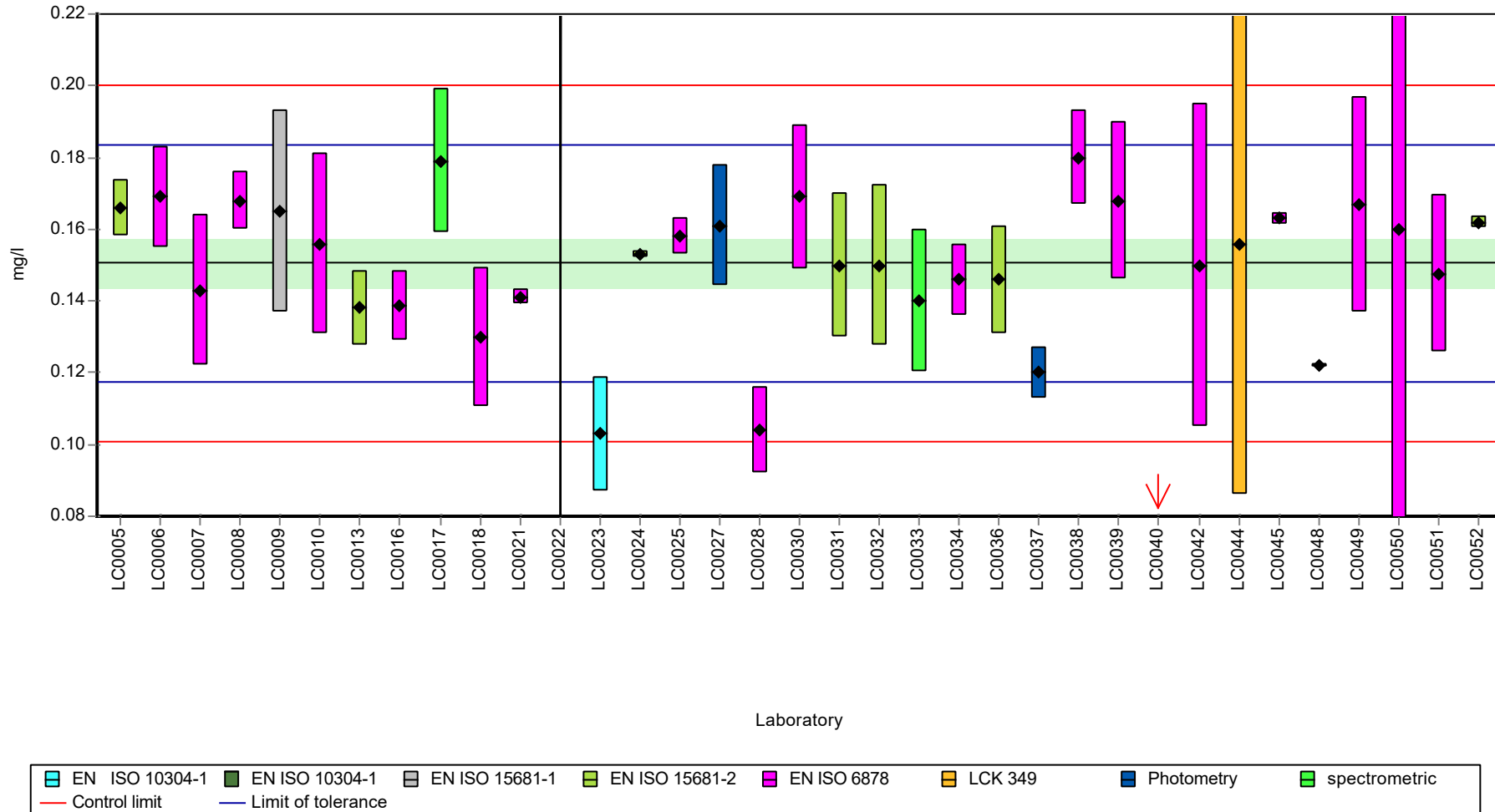
| | all results | without outliers | Unit |
|-------------------------|----------------|------------------|------|
| Mean ± CI (99%) | 0.147 ± 0.0154 | 0.151 ± 0.0099 | mg/l |
| Minimum | 0.014 | 0.103 | mg/l |
| Maximum | 0.18 | 0.18 | mg/l |
| Standard deviation | 0.03 | 0.019 | mg/l |
| rel. standard deviation | 20.4 | 12.6 | % |
| n | 34 | 33 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Orthophosphate (as PO4)

Graphical presentation of results

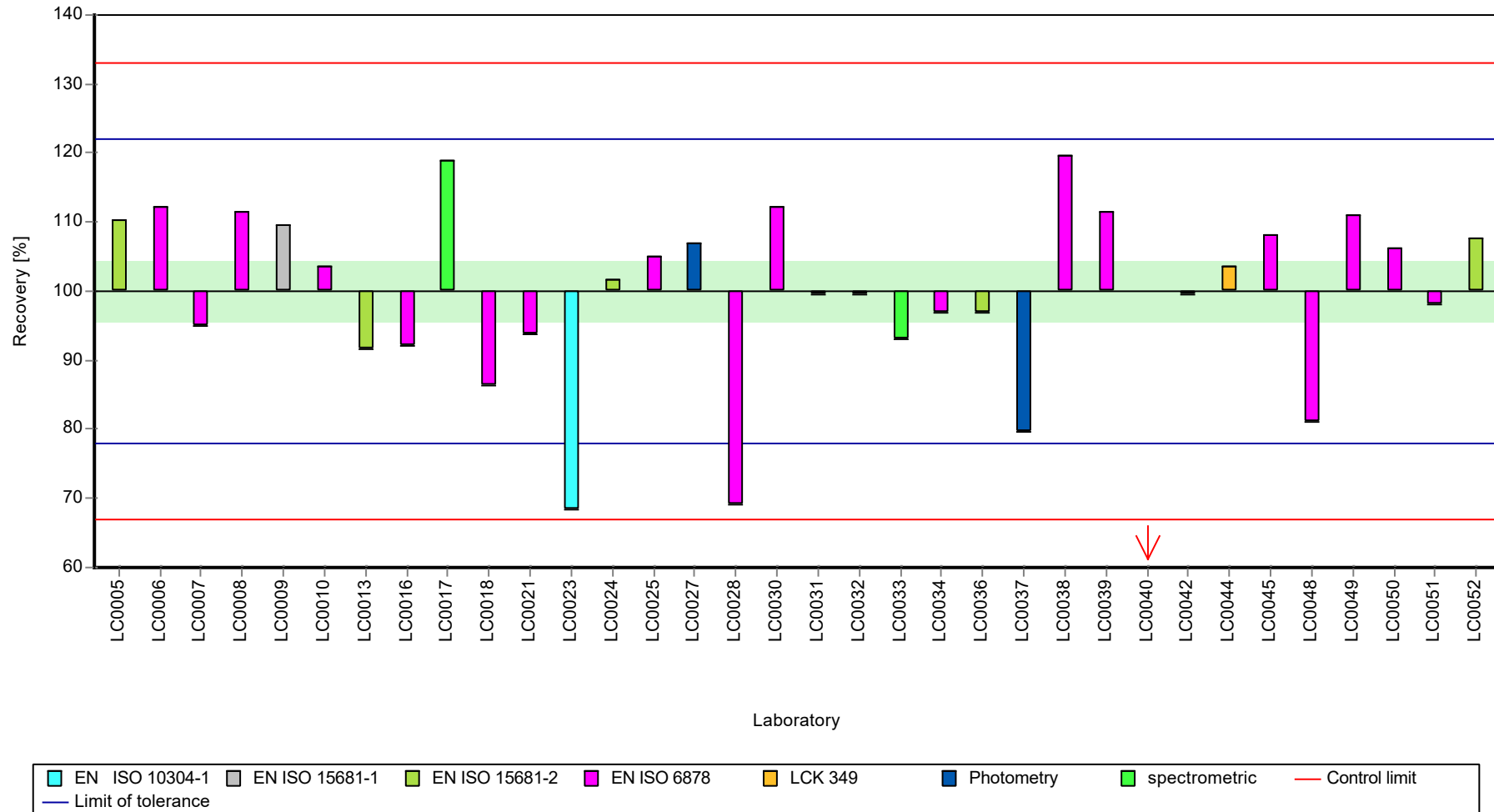
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Orthophosphate (as PO4)

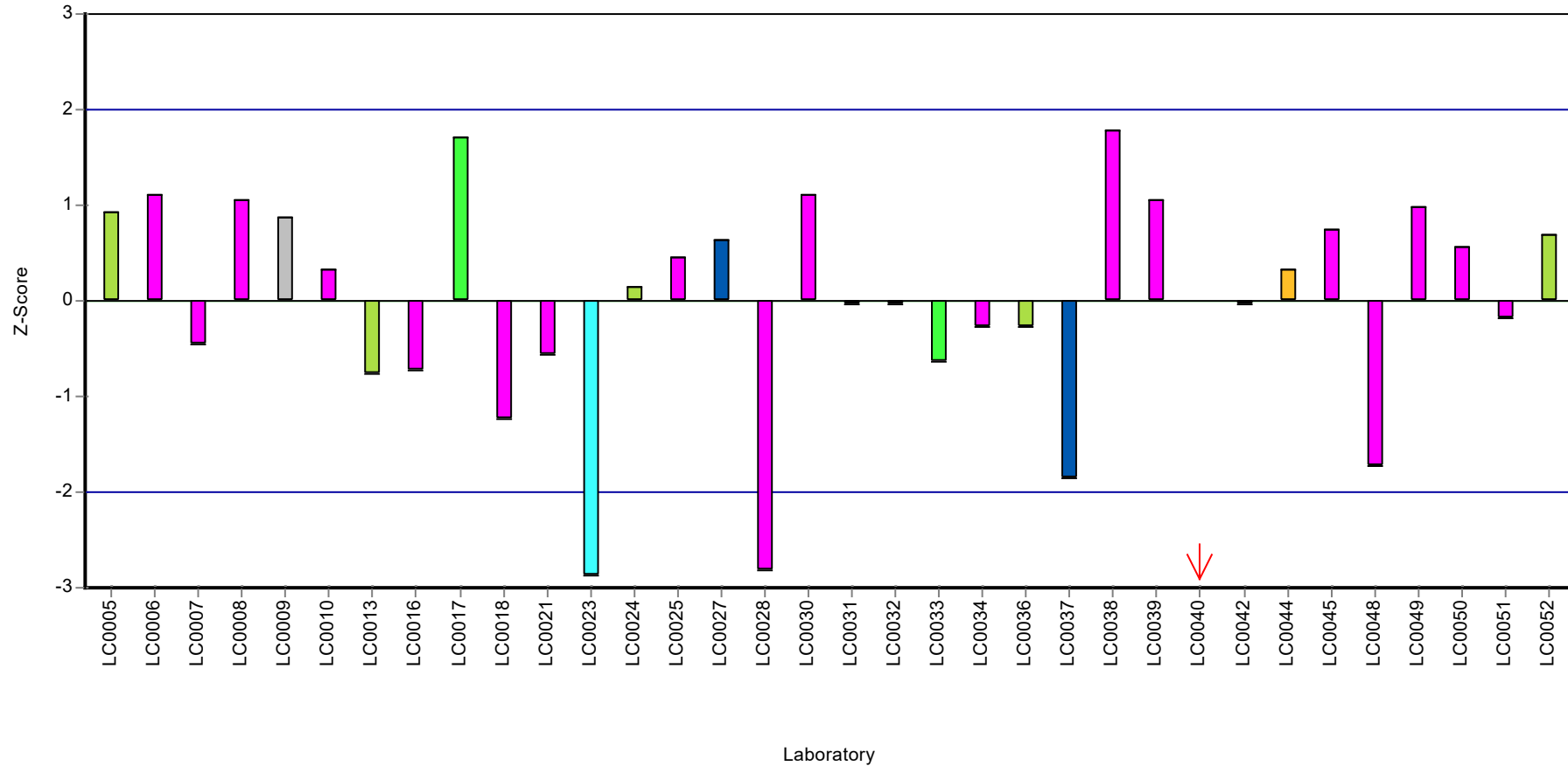
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Orthophosphate (as PO4)

Z-score



Parameter oriented report

N165 A

pH-value

| | |
|------------------------------|---------------|
| Unit | - |
| Assigned value ± U (k=2) | 7.68 ± 0.034 |
| Criterion | 0.154 (2 %) |
| Minimum - Maximum | 7.44 - 7.9 |
| Control test value ± U (k=2) | 7.71 ± 0.0385 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 7.66 | 0.31 | 99.7 | -0.15 | |
| LC0003 | - | - | - | - | |
| LC0004 | 7.69 | 0.04 | 100 | 0.04 | |
| LC0005 | 7.75 | 0.15 | 101 | 0.43 | |
| LC0006 | 7.69 | 0.23 | 100 | 0.04 | |
| LC0007 | 7.7 | 0.1 | 100 | 0.11 | |
| LC0008 | 7.53 | 0.02 | 98 | -1 | |
| LC0009 | 7.65 | 0.77 | 99.6 | -0.22 | |
| LC0010 | 7.59 | 0.2 | 98.8 | -0.61 | |
| LC0011 | 7.44 | 0.1 | 96.8 | -1.58 | |
| LC0012 | 7.7 | 0.2 | 100 | 0.11 | |
| LC0013 | 7.67 | 0.117 | 99.8 | -0.09 | |
| LC0014 | 7.53 | 0.13 | 98 | -1 | |
| LC0015 | - | - | - | - | |
| LC0016 | 7.7 | 0.1 | 100 | 0.11 | |
| LC0017 | 7.62 | 0.01 | 99.2 | -0.41 | |
| LC0018 | 7.53 | 0.2259 | 98 | -1 | |
| LC0019 | 7.62 | 0.134 | 99.2 | -0.41 | |
| LC0020 | 7.64 | 0.2 | 99.4 | -0.28 | |
| LC0021 | 8.03 | 0.05 | 105 | 2.26 | H |
| LC0022 | 7.85 | 0.1 | 102 | 1.09 | |
| LC0023 | 7.6 | 0.76 | 98.9 | -0.54 | |
| LC0024 | 7.86 | 0.006 | 102 | 1.15 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 7.73 | 0.39 | 101 | 0.3 | |
| LC0028 | 7.71 | 0.1 | 100 | 0.17 | |
| LC0029 | 7.7 | 0.14 | 100 | 0.11 | |
| LC0030 | 7.7 | 0.46 | 100 | 0.11 | |
| LC0031 | 7.71 | 0.2 | 100 | 0.17 | |
| LC0032 | 7.88 | 0.394 | 103 | 1.28 | |
| LC0033 | 7.44 | 0.1 | 96.8 | -1.58 | |
| LC0034 | - | - | - | - | |
| LC0035 | 7.8 | 0.16 | 102 | 0.76 | |
| LC0036 | 7.7 | 0.2 | 100 | 0.11 | |
| LC0037 | 7.67 | 0.15 | 99.8 | -0.09 | |
| LC0038 | - | - | - | - | |
| LC0039 | 7.6 | 0.2 | 98.9 | -0.54 | |
| LC0040 | 7.7 | 0.1 | 100 | 0.11 | |
| LC0041 | 7.83 | 0.39 | 102 | 0.96 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: pH-value

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 7.81 | 0.063 | 102 | 0.83 | |
| LC0043 | 7.7 | 0.1 | 100 | 0.11 | |
| LC0044 | 7.66 | 0.2 | 99.7 | -0.15 | |
| LC0045 | 7.67 | 0.1 | 99.8 | -0.09 | |
| LC0046 | 7.52 | 0.26 | 97.9 | -1.06 | |
| LC0047 | 7.6 | 0.1 | 98.9 | -0.54 | |
| LC0048 | 7.87 | 0.0033 | 102 | 1.22 | |
| LC0049 | 7.62 | 0.4 | 99.2 | -0.41 | |
| LC0050 | 7.89 | 0.35 | 103 | 1.35 | |
| LC0051 | 7.63 | 0.1 | 99.3 | -0.35 | |
| LC0052 | 7.9 | 0.079 | 103 | 1.41 | |

Characteristics of parameter

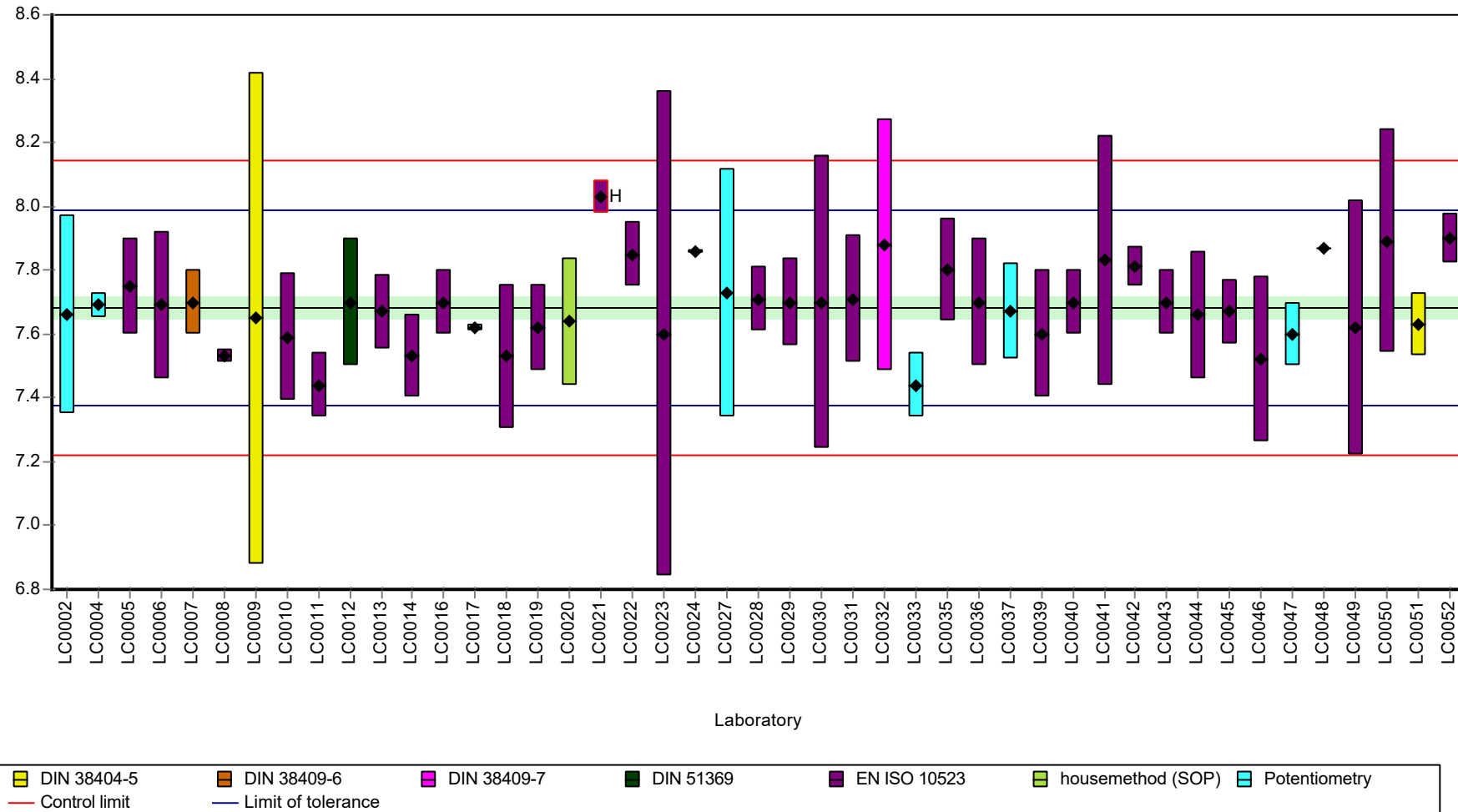
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 7.69 ± 0.055 | 7.68 ± 0.0511 | - |
| Minimum | 7.44 | 7.44 | - |
| Maximum | 8.03 | 7.9 | - |
| Standard deviation | 0.123 | 0.113 | - |
| rel. standard deviation | 1.6 | 1.47 | % |
| n | 45 | 44 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: pH-value

Graphical presentation of results

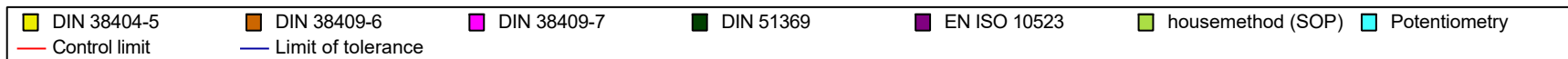
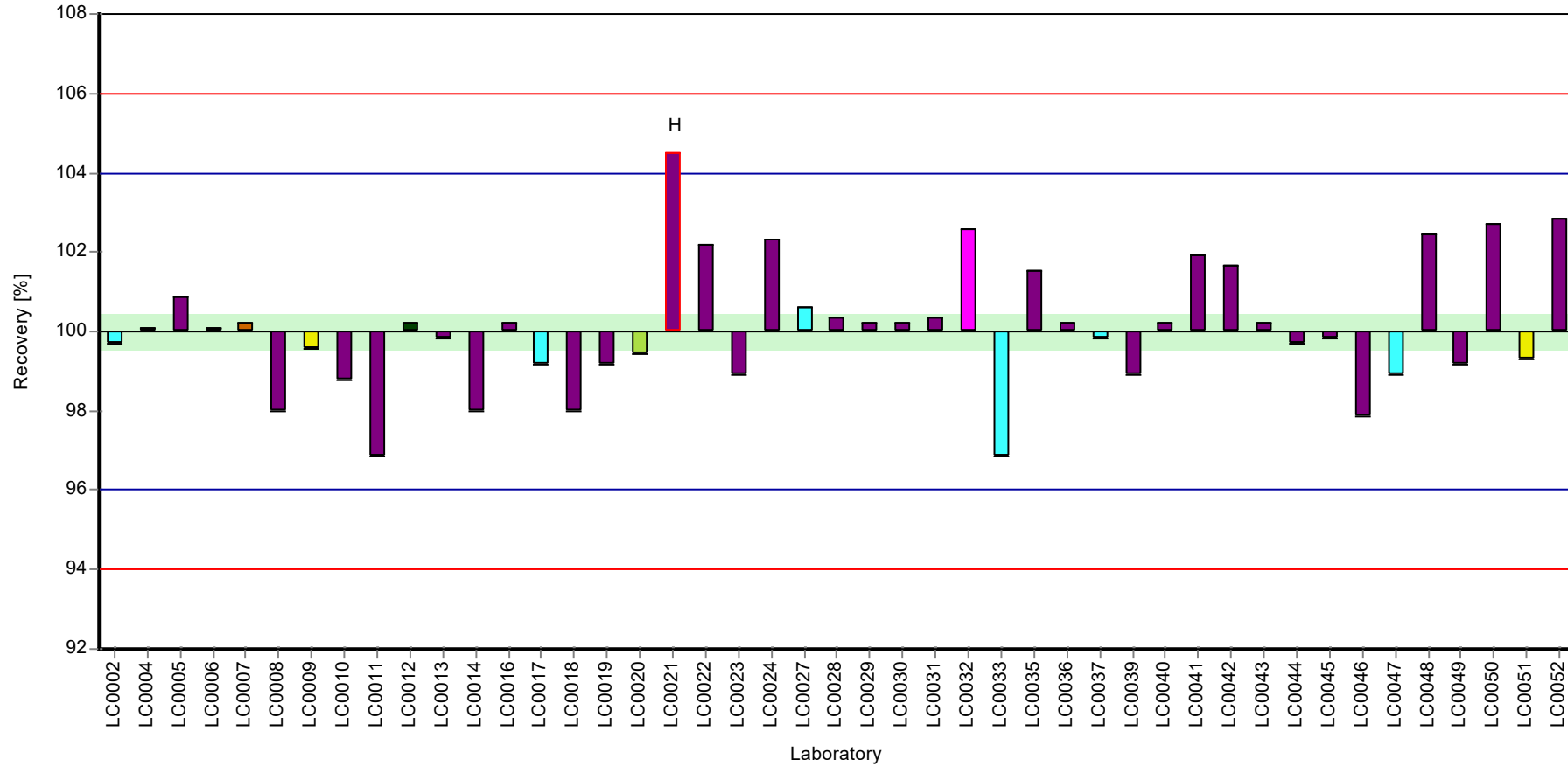
Results



Parameter oriented report Nutrients/Major Ions N165

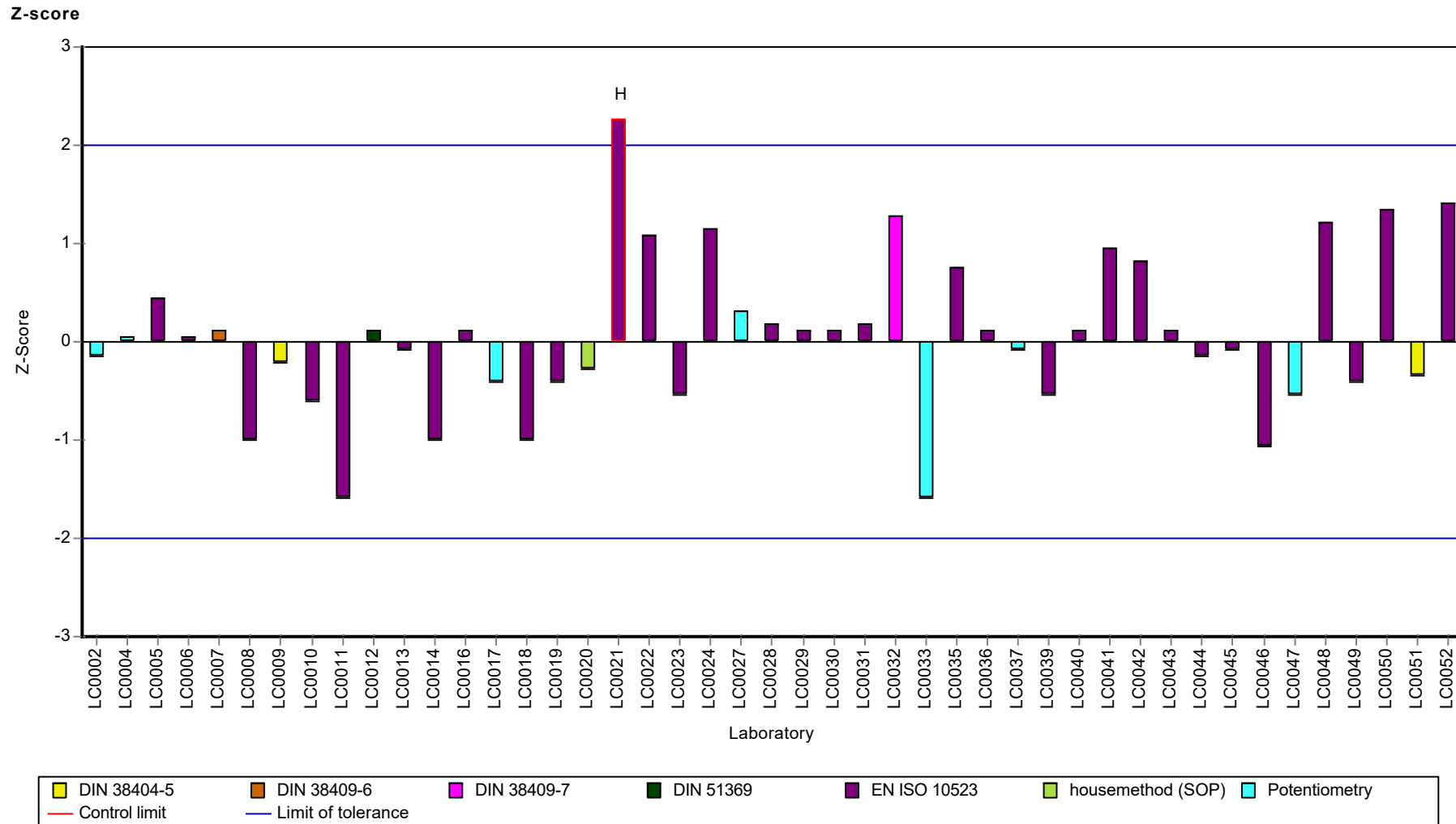
Sample: N165A, Parameter: pH-value

Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: pH-value



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: pH-value

Parameter oriented report

N165 B

pH-value

| | |
|------------------------------|---------------|
| Unit | - |
| Assigned value ± U (k=2) | 7.84 ± 0.0268 |
| Criterion | 0.157 (2 %) |
| Minimum - Maximum | 7.65 - 8.01 |
| Control test value ± U (k=2) | 7.88 ± 0.0394 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 7.88 | 0.32 | 101 | 0.25 | |
| LC0003 | - | - | - | - | |
| LC0004 | 7.84 | 0.04 | 100 | 0.00 | |
| LC0005 | 7.81 | 0.15 | 99.6 | -0.19 | |
| LC0006 | 7.84 | 0.24 | 100 | 0.00 | |
| LC0007 | 7.8 | 0.1 | 99.5 | -0.26 | |
| LC0008 | 7.7 | 0.02 | 98.2 | -0.89 | |
| LC0009 | 7.75 | 0.78 | 98.8 | -0.58 | |
| LC0010 | 7.81 | 0.2 | 99.6 | -0.19 | |
| LC0011 | 7.65 | 0.1 | 97.6 | -1.21 | |
| LC0012 | 7.91 | 0.2 | 101 | 0.44 | |
| LC0013 | 7.88 | 0.12 | 101 | 0.25 | |
| LC0014 | 7.7 | 0.14 | 98.2 | -0.89 | |
| LC0015 | - | - | - | - | |
| LC0016 | 7.86 | 0.1 | 100 | 0.13 | |
| LC0017 | 7.84 | 0.01 | 100 | 0.00 | |
| LC0018 | 7.82 | 0.2346 | 99.7 | -0.13 | |
| LC0019 | 7.8 | 0.137 | 99.5 | -0.26 | |
| LC0020 | 7.82 | 0.2 | 99.7 | -0.13 | |
| LC0021 | 7.96 | 0.05 | 102 | 0.76 | |
| LC0022 | 8 | 0.1 | 102 | 1.02 | |
| LC0023 | 7.8 | 0.78 | 99.5 | -0.26 | |
| LC0024 | 7.92 | 0.015 | 101 | 0.51 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 8.01 | 0.4 | 102 | 1.08 | |
| LC0028 | 7.96 | 0.1 | 102 | 0.76 | |
| LC0029 | 7.8 | 0.14 | 99.5 | -0.26 | |
| LC0030 | 7.8 | 0.47 | 99.5 | -0.26 | |
| LC0031 | 7.81 | 0.2 | 99.6 | -0.19 | |
| LC0032 | 7.96 | 0.398 | 102 | 0.76 | |
| LC0033 | 7.65 | 0.1 | 97.6 | -1.21 | |
| LC0034 | - | - | - | - | |
| LC0035 | 7.9 | 0.16 | 101 | 0.38 | |
| LC0036 | 7.8 | 0.2 | 99.5 | -0.26 | |
| LC0037 | 7.8 | 0.16 | 99.5 | -0.26 | |
| LC0038 | - | - | - | - | |
| LC0039 | 7.8 | 0.2 | 99.5 | -0.26 | |
| LC0040 | 7.87 | 0.1 | 100 | 0.19 | |
| LC0041 | 7.88 | 0.39 | 101 | 0.25 | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: pH-value

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 7.94 | 0.064 | 101 | 0.64 | |
| LC0043 | 7.8 | 0.1 | 99.5 | -0.26 | |
| LC0044 | 7.89 | 0.2 | 101 | 0.32 | |
| LC0045 | 7.83 | 0.1 | 99.9 | -0.07 | |
| LC0046 | 7.68 | 0.27 | 98 | -1.02 | |
| LC0047 | 7.8 | 0.1 | 99.5 | -0.26 | |
| LC0048 | 7.99 | 0.0058 | 102 | 0.96 | |
| LC0049 | 7.79 | 0.4 | 99.4 | -0.32 | |
| LC0050 | 8.04 | 0.36 | 103 | 1.27 | H |
| LC0051 | 7.84 | 0.1 | 100 | 0.00 | |
| LC0052 | 7.98 | 0.0798 | 102 | 0.89 | |

Characteristics of parameter

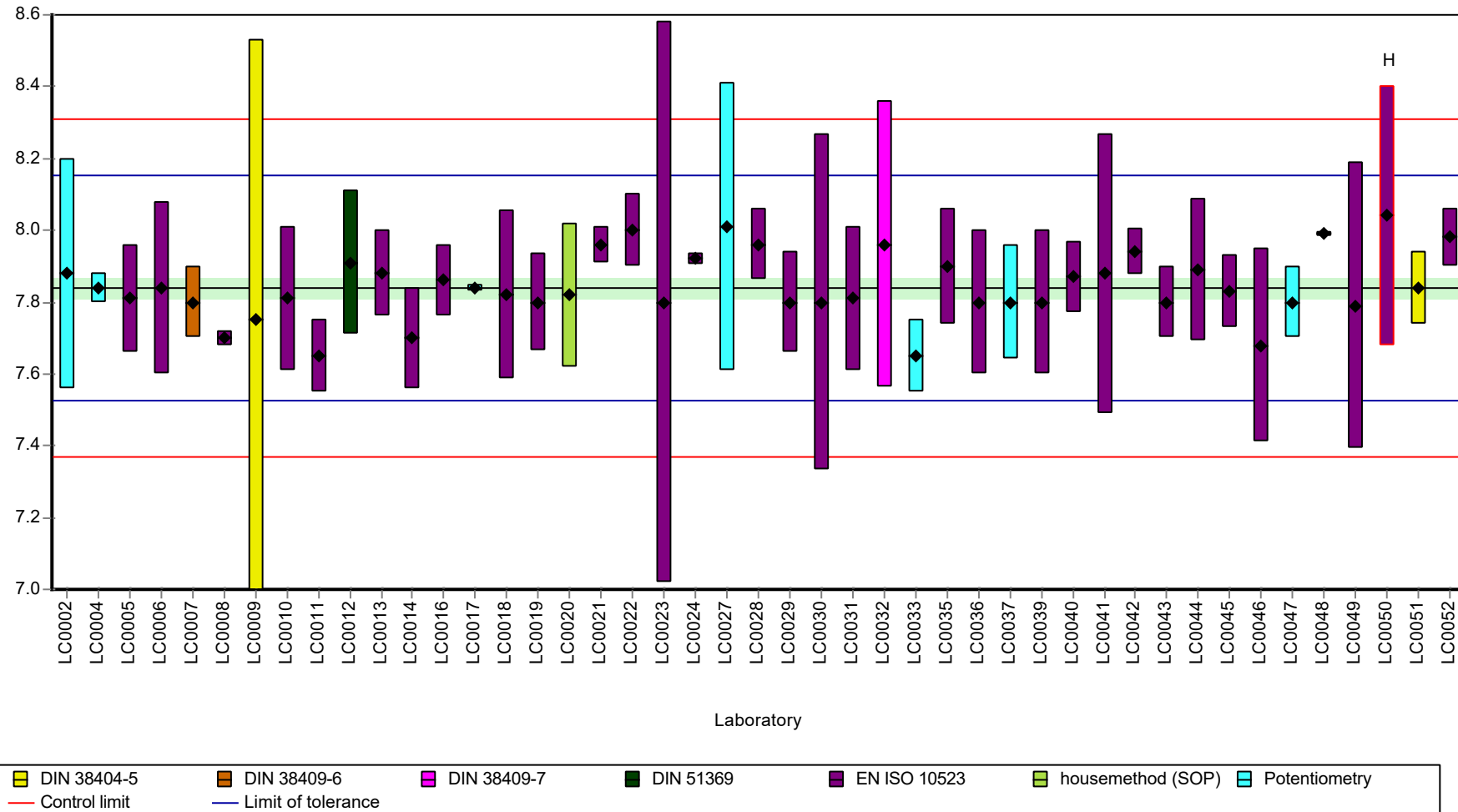
| | all results | without outliers | Unit |
|-------------------------|---------------|------------------|------|
| Mean ± CI (99%) | 7.84 ± 0.0415 | 7.84 ± 0.0402 | - |
| Minimum | 7.65 | 7.65 | - |
| Maximum | 8.04 | 8.01 | - |
| Standard deviation | 0.0929 | 0.089 | - |
| rel. standard deviation | 1.18 | 1.14 | % |
| n | 45 | 44 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: pH-value

Graphical presentation of results

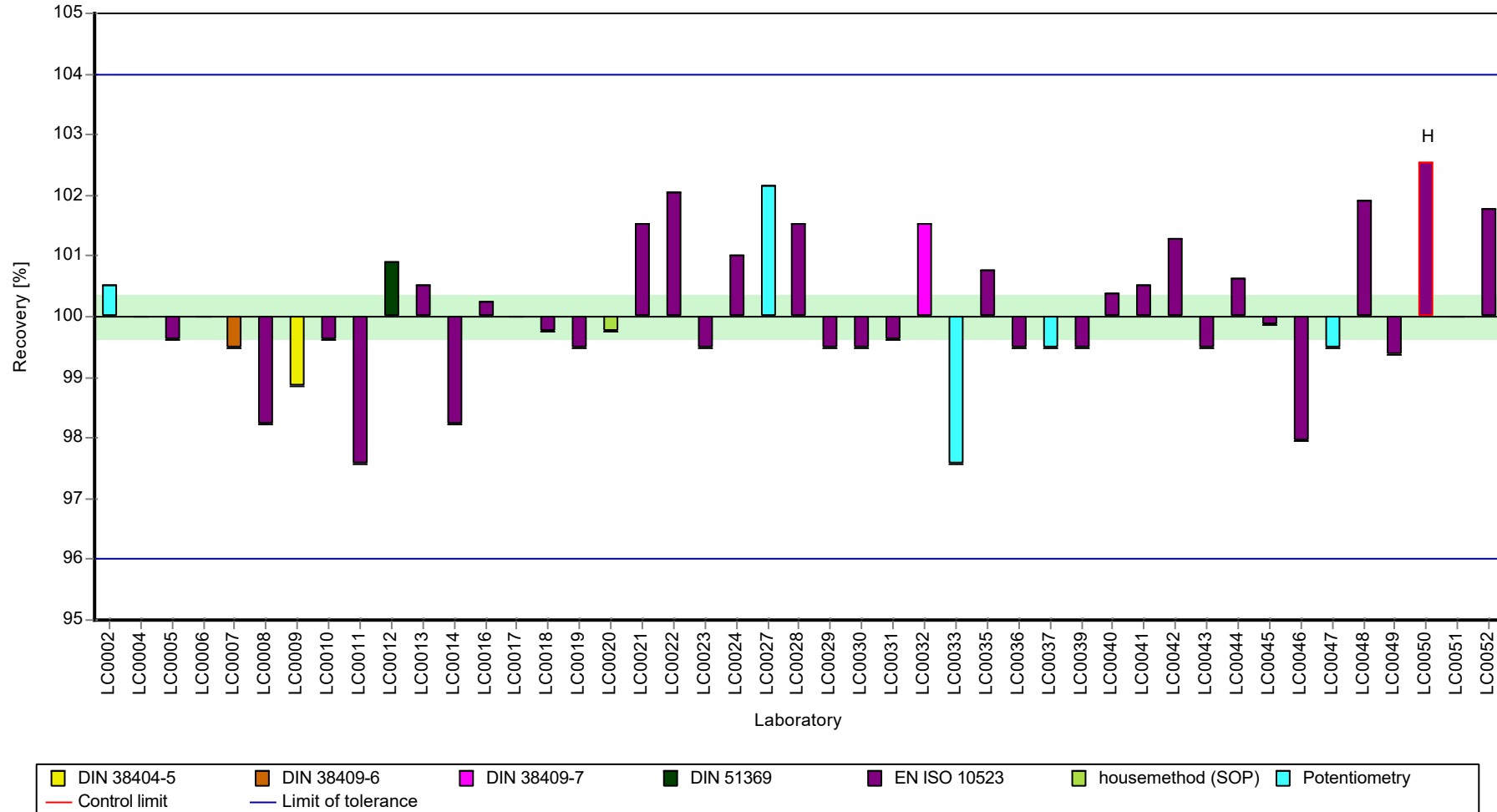
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: pH-value

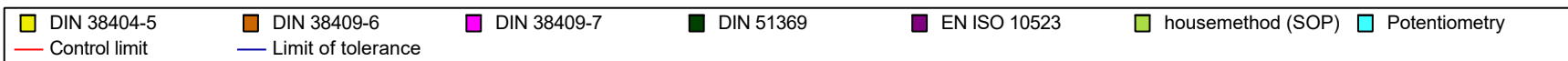
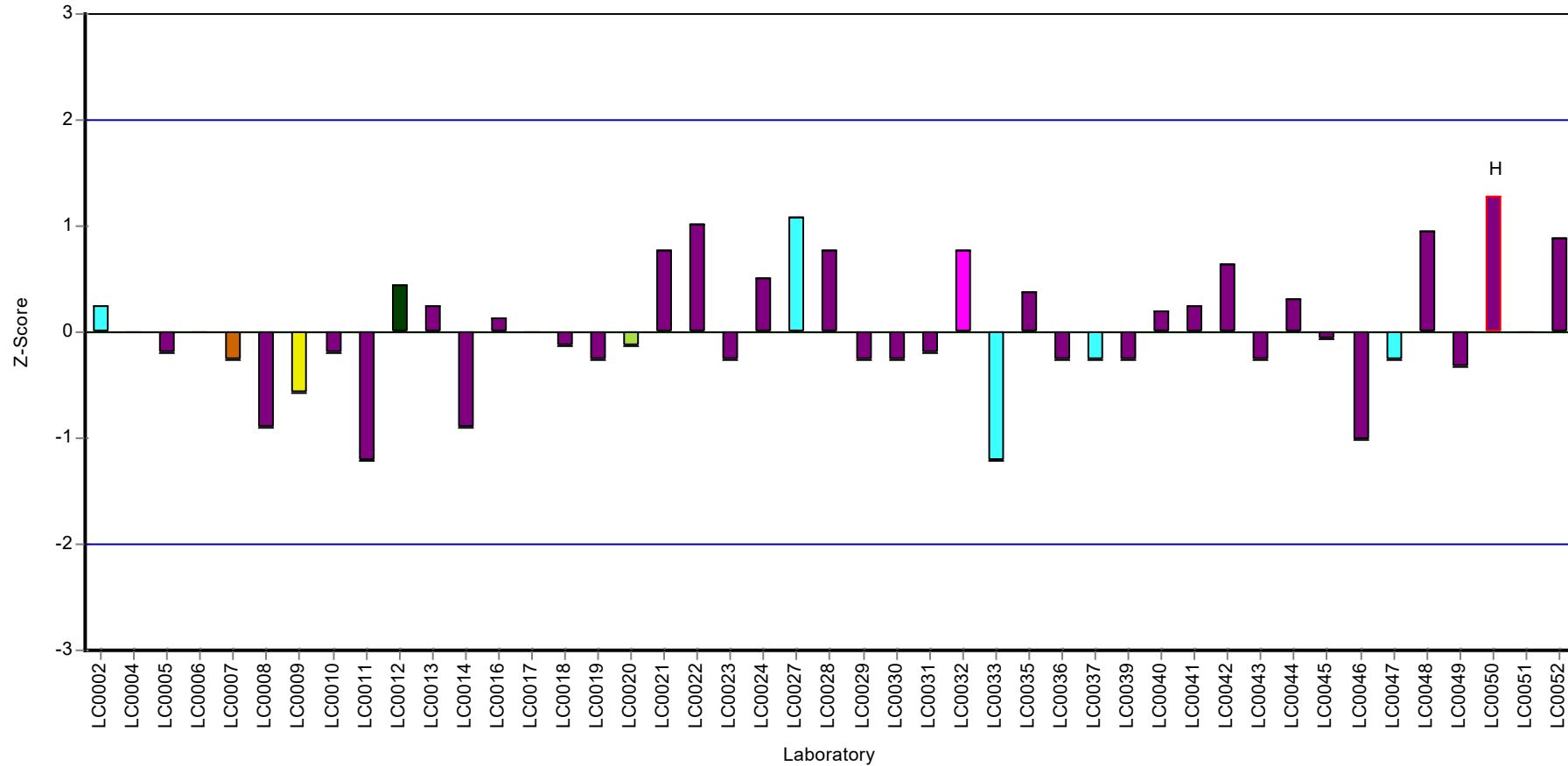
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: pH-value

Z-score



Parameter oriented report

N165 A

Potassium

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 4.79 ± 0.051 |
| Criterion | 0.249 (5.2 %) |
| Minimum - Maximum | 4.49 - 5.12 |
| Control test value ± U (k=2) | 4.36 ± 0.436 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 4.79 | 0.31 | 100 | 0.00 | |
| LC0003 | - | - | - | - | |
| LC0004 | 4.81 | 0.2 | 100 | 0.08 | |
| LC0005 | 4.81 | 0.19 | 100 | 0.08 | |
| LC0006 | 4.54 | 0.68 | 94.8 | -1.01 | |
| LC0007 | 4.81 | 0.5 | 100 | 0.08 | |
| LC0008 | 4.8 | 0.4 | 100 | 0.04 | |
| LC0009 | - | - | - | - | |
| LC0010 | 4.71 | 0.5 | 98.3 | -0.33 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 4.84 | 2.3 | 101 | 0.2 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 5.01 | 1 | 105 | 0.88 | |
| LC0017 | - | - | - | - | |
| LC0018 | 4.85 | 0.3686 | 101 | 0.24 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 4.72 | 0.02 | 98.5 | -0.29 | |
| LC0022 | 4.9 | 0.38 | 102 | 0.44 | |
| LC0023 | 5.25 | 1.1 | 110 | 1.84 | H |
| LC0024 | 4.6 | 0.092 | 96 | -0.77 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 4.67 | 0.23 | 97.5 | -0.49 | |
| LC0028 | 4.6 | 0.5 | 96 | -0.77 | |
| LC0029 | - | - | - | - | |
| LC0030 | 4.77 | 0.477 | 99.6 | -0.08 | |
| LC0031 | 4.9 | 0.4 | 102 | 0.44 | |
| LC0032 | - | - | - | - | |
| LC0033 | 4.9 | 0.25 | 102 | 0.44 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 5 | 0.5 | 104 | 0.84 | |
| LC0037 | 4.91 | 0.16 | 102 | 0.48 | |
| LC0038 | 4.76 | 0.19 | 99.4 | -0.12 | |
| LC0039 | 4.9 | 0.2 | 102 | 0.44 | |
| LC0040 | 4.69 | 0.2345 | 97.9 | -0.41 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Potassium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 4.73 | 0.31 | 98.7 | -0.25 | |
| LC0043 | - | - | - | - | |
| LC0044 | 5.124 | 0.43 | 107 | 1.34 | |
| LC0045 | 4.488 | 0.4 | 93.7 | -1.22 | |
| LC0046 | - | - | - | - | |
| LC0047 | 4.6 | 0.5 | 96 | -0.77 | |
| LC0048 | 4.873 | 0.44 | 102 | 0.33 | |
| LC0049 | 4.73 | 0.7 | 98.7 | -0.25 | |
| LC0050 | - | - | - | - | |
| LC0051 | 4.77 | 0.53 | 99.6 | -0.08 | |
| LC0052 | 4.92 | 0.247 | 103 | 0.52 | |

Characteristics of parameter

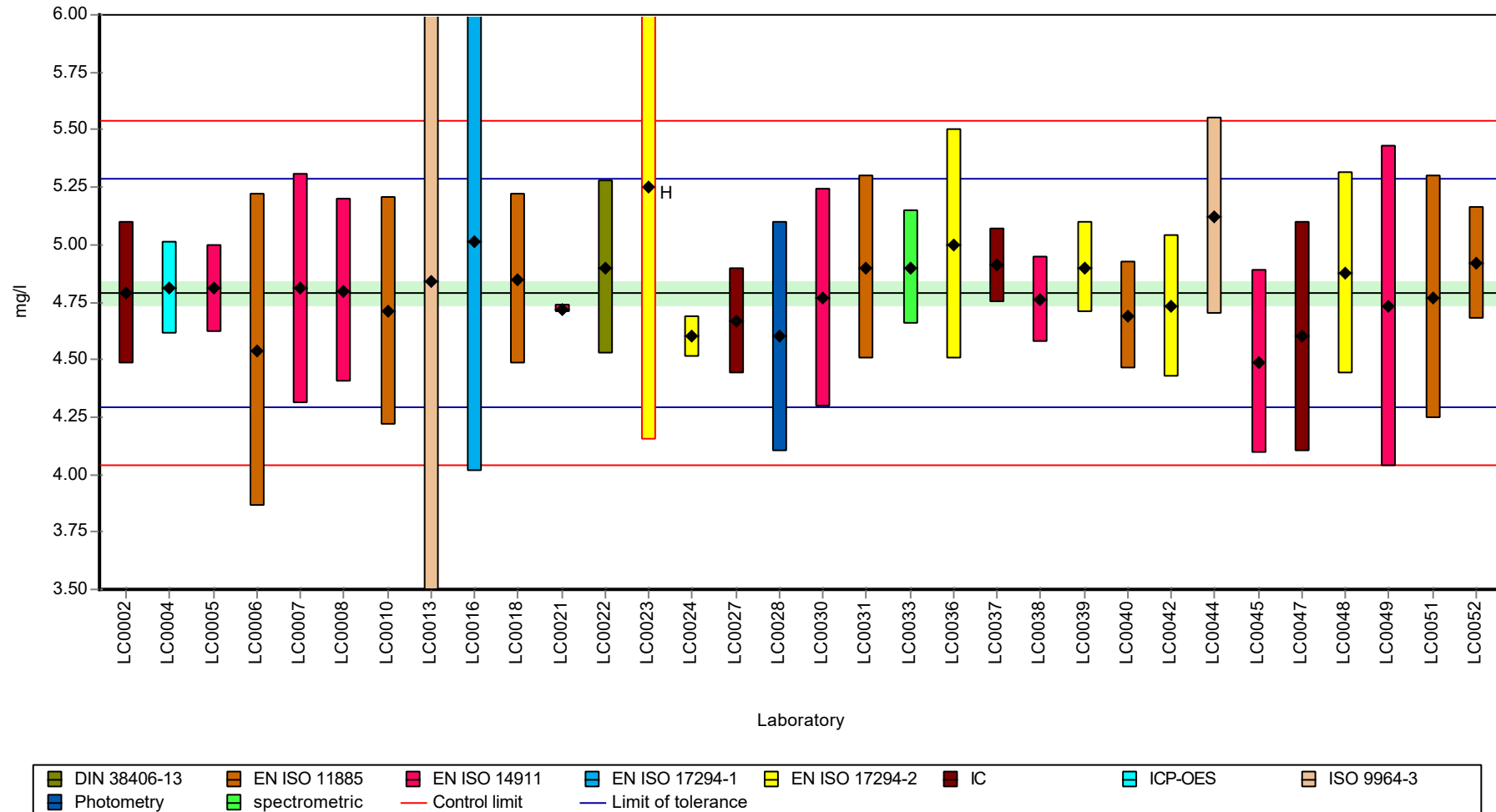
| | all results | without outliers | Unit |
|-------------------------|---------------|------------------|------|
| Mean ± CI (99%) | 4.81 ± 0.0856 | 4.79 ± 0.0765 | mg/l |
| Minimum | 4.49 | 4.49 | mg/l |
| Maximum | 5.25 | 5.12 | mg/l |
| Standard deviation | 0.162 | 0.142 | mg/l |
| rel. standard deviation | 3.36 | 2.96 | % |
| n | 32 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Potassium

Graphical presentation of results

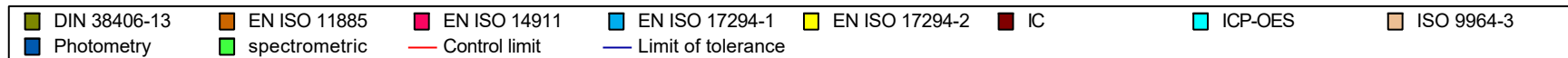
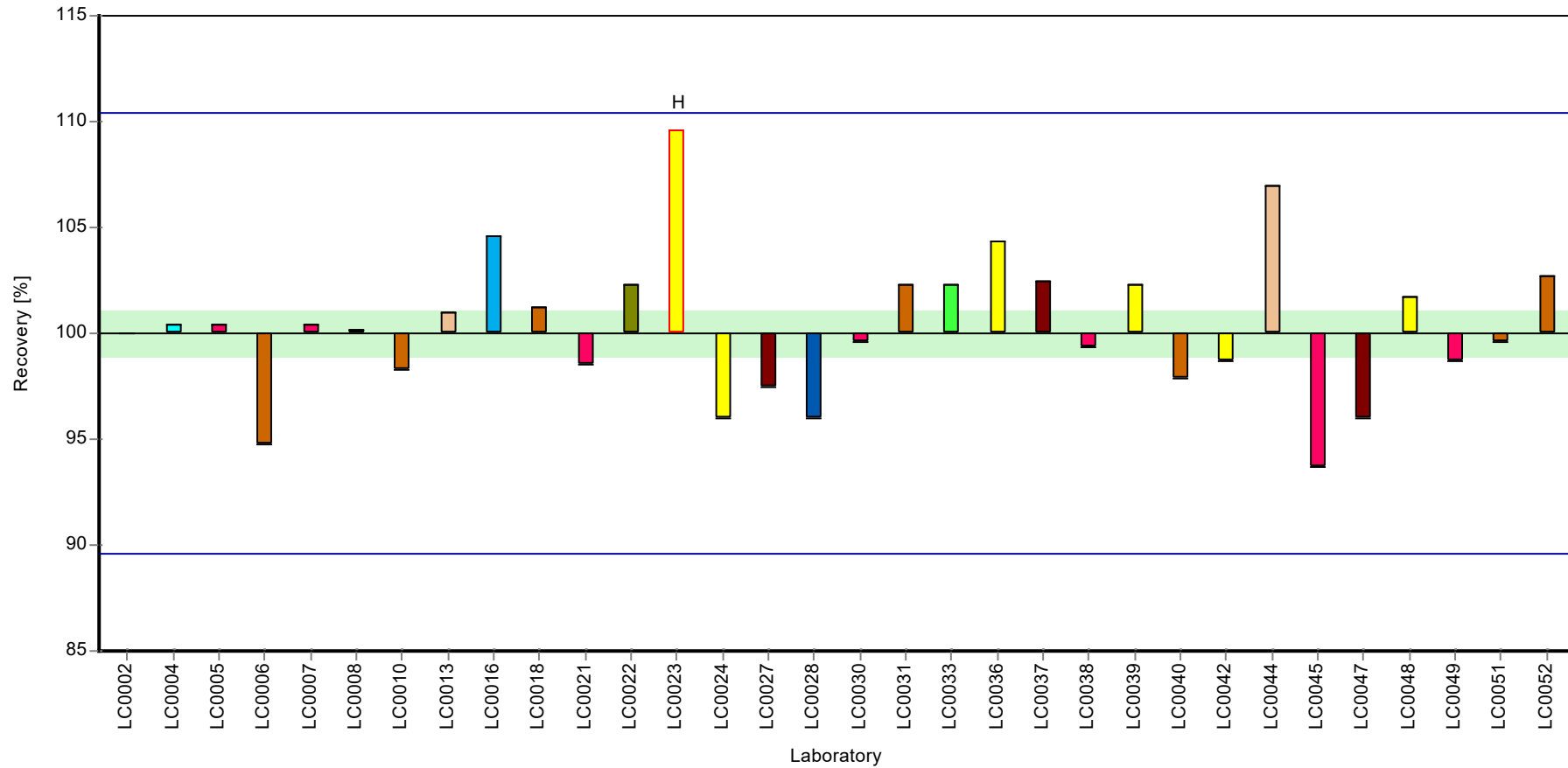
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Potassium

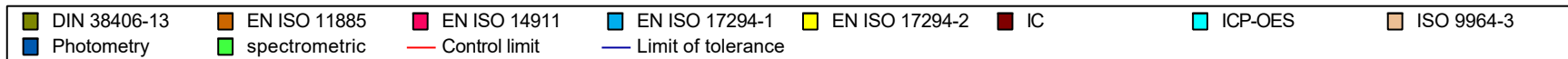
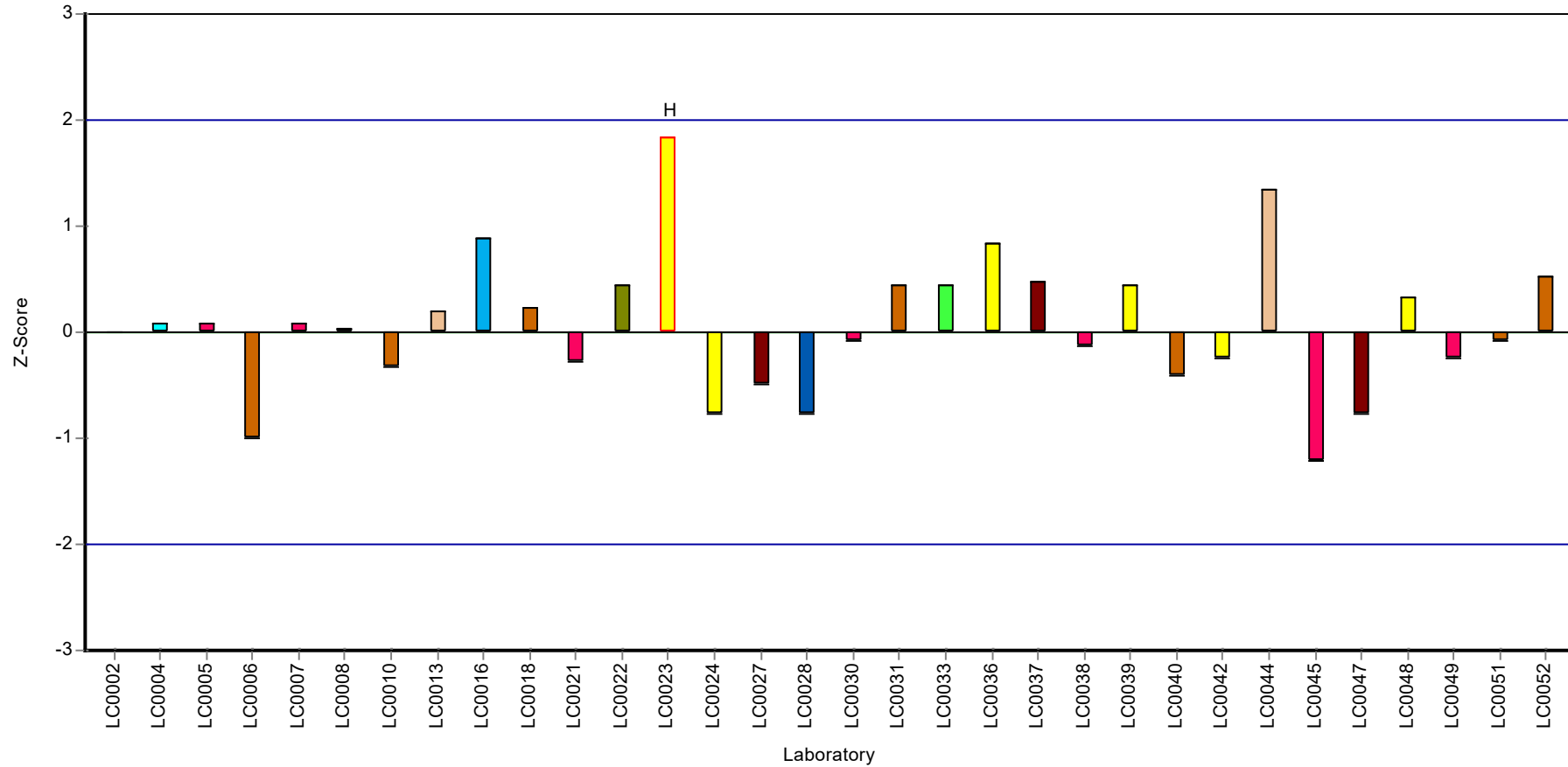
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Potassium

Z-score



Parameter oriented report

N165 B

Potassium

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 2.38 ± 0.0289 |
| Criterion | 0.124 (5.2 %) |
| Minimum - Maximum | 2.15 - 2.5 |
| Control test value ± U (k=2) | 1.98 ± 0.198 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 2.37 | 0.15 | 99.8 | -0.04 | |
| LC0003 | - | - | - | - | |
| LC0004 | 2.42 | 0.2 | 102 | 0.36 | |
| LC0005 | 2.35 | 0.12 | 98.9 | -0.21 | |
| LC0006 | 2.25 | 0.23 | 94.7 | -1.02 | |
| LC0007 | 2.38 | 0.3 | 100 | 0.04 | |
| LC0008 | 2.36 | 0.22 | 99.3 | -0.13 | |
| LC0009 | - | - | - | - | |
| LC0010 | 2.32 | 0.25 | 97.7 | -0.45 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 2.35 | 1.11 | 98.9 | -0.21 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 2.46 | 0.5 | 104 | 0.68 | |
| LC0017 | - | - | - | - | |
| LC0018 | 2.4 | 0.1824 | 101 | 0.2 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 2.25 | 0.02 | 94.7 | -1.02 | |
| LC0022 | 2.4 | 0.19 | 101 | 0.2 | |
| LC0023 | 2.45 | 0.49 | 103 | 0.6 | |
| LC0024 | 2.24 | 0.032 | 94.3 | -1.1 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 2.26 | 0.11 | 95.1 | -0.93 | |
| LC0028 | 2.15 | 0.3 | 90.5 | -1.83 | |
| LC0029 | - | - | - | - | |
| LC0030 | 2.32 | 0.232 | 97.7 | -0.45 | |
| LC0031 | 2.4 | 0.2 | 101 | 0.2 | |
| LC0032 | - | - | - | - | |
| LC0033 | 2.8 | 0.14 | 118 | 3.44 | H |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 2.5 | 0.25 | 105 | 1.01 | |
| LC0037 | 2.44 | 0.081 | 103 | 0.52 | |
| LC0038 | 2.27 | 0.091 | 95.6 | -0.85 | |
| LC0039 | 2.4 | 0.1 | 101 | 0.2 | |
| LC0040 | 2.32 | 0.116 | 97.7 | -0.45 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Potassium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 2.34 | 0.15 | 98.5 | -0.29 | |
| LC0043 | - | - | - | - | |
| LC0044 | 2.484 | 0.18 | 105 | 0.88 | |
| LC0045 | 2.458 | 0.25 | 103 | 0.67 | |
| LC0046 | - | - | - | - | |
| LC0047 | 2.3 | 0.5 | 96.8 | -0.61 | |
| LC0048 | 2.454 | 0.11 | 103 | 0.64 | |
| LC0049 | 2.28 | 0.3 | 96 | -0.77 | |
| LC0050 | - | - | - | - | |
| LC0051 | 2.38 | 0.265 | 100 | 0.04 | |
| LC0052 | 2.47 | 0.042 | 104 | 0.77 | |

Characteristics of parameter

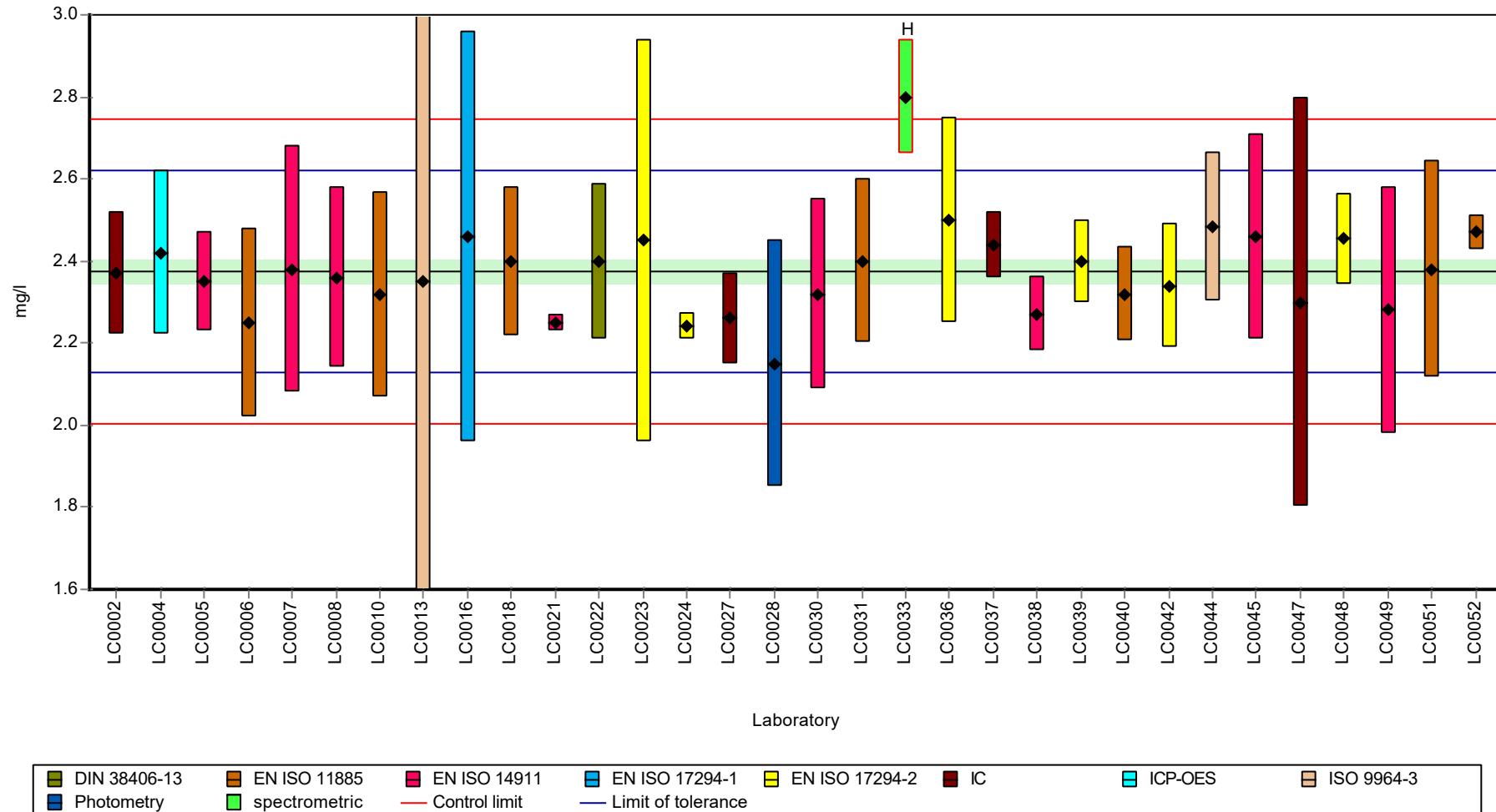
| | all results | without outliers | Unit |
|-------------------------|---------------|------------------|------|
| Mean ± CI (99%) | 2.38 ± 0.0604 | 2.36 ± 0.0458 | mg/l |
| Minimum | 2.15 | 2.15 | mg/l |
| Maximum | 2.8 | 2.5 | mg/l |
| Standard deviation | 0.114 | 0.085 | mg/l |
| rel. standard deviation | 4.8 | 3.6 | % |
| n | 32 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Potassium

Graphical presentation of results

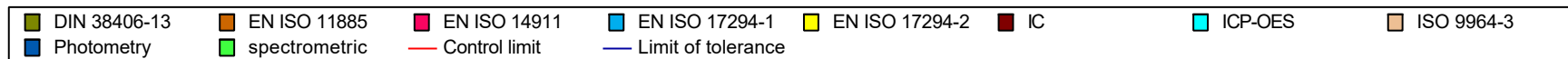
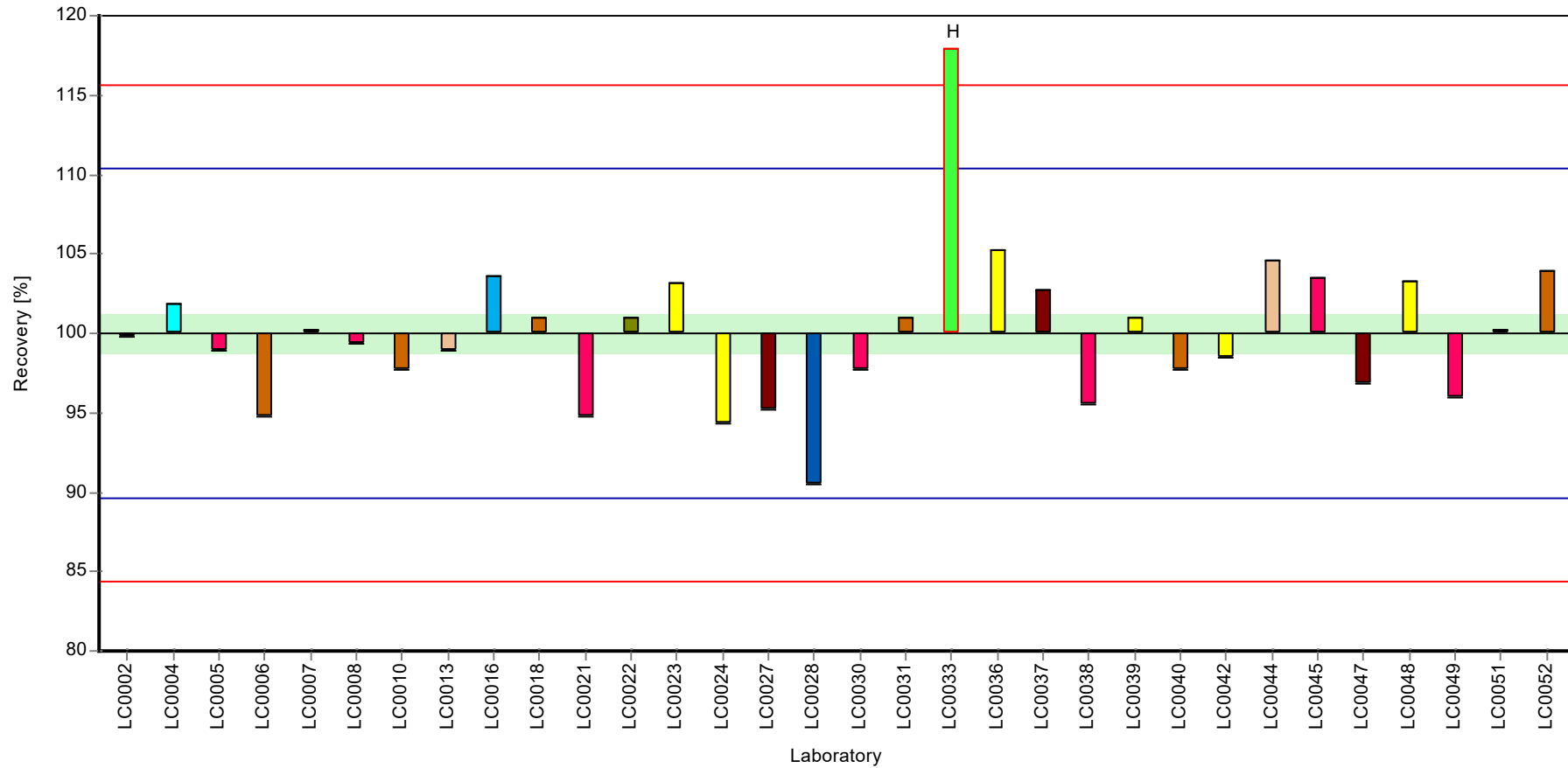
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Potassium

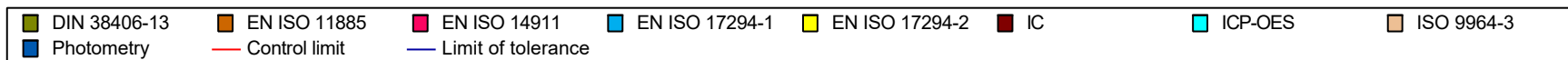
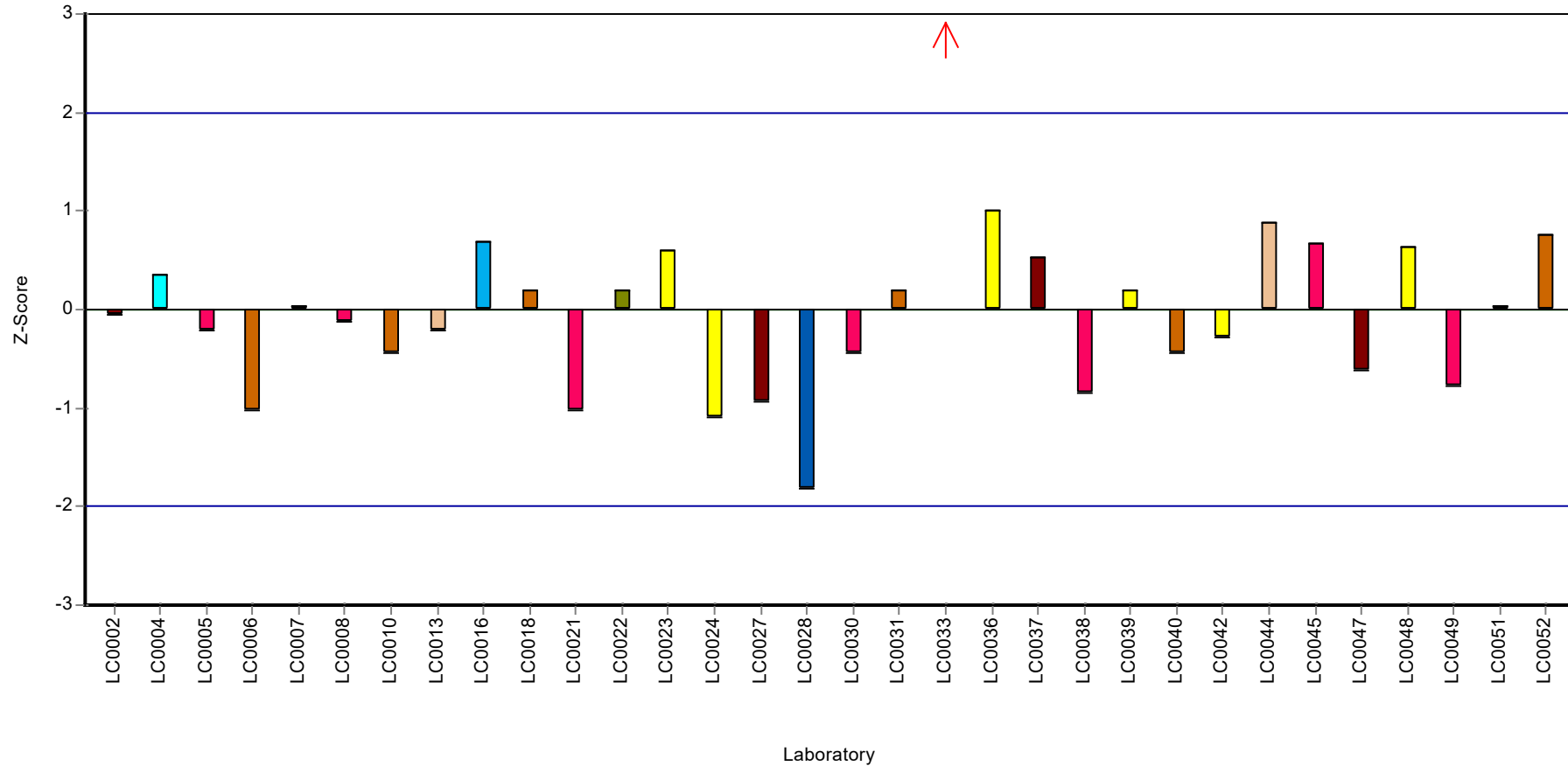
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Potassium

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sodium

Parameter oriented report

N165 A

Sodium

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 26.9 ± 0.356 |
| Criterion | 0.914 (3.4 %) |
| Minimum - Maximum | 24.9 - 29.3 |
| Control test value ± U (k=2) | 24.7 ± 2.47 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | 29 | 0.19 | 108 | 2.32 | |
| LC0002 | 26.59 | 1.28 | 98.9 | -0.32 | |
| LC0003 | - | - | - | - | |
| LC0004 | 25.75 | 1 | 95.8 | -1.24 | |
| LC0005 | 27.6 | 0.6 | 103 | 0.79 | |
| LC0006 | 26.8 | 3.5 | 99.7 | -0.09 | |
| LC0007 | 26.9 | 1.6 | 100 | 0.02 | |
| LC0008 | 26.8 | 2.4 | 99.7 | -0.09 | |
| LC0009 | - | - | - | - | |
| LC0010 | 26.8 | 2.83 | 99.7 | -0.09 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 25.8 | 4.72 | 96 | -1.18 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 27.1 | 4.1 | 101 | 0.24 | |
| LC0017 | - | - | - | - | |
| LC0018 | 26 | 1.664 | 96.7 | -0.96 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 26.56 | 0.2 | 98.8 | -0.35 | |
| LC0022 | 25.6 | 1.7 | 95.2 | -1.4 | |
| LC0023 | 27.5 | 5.5 | 102 | 0.68 | |
| LC0024 | 27.1 | 0.351 | 101 | 0.24 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 29.3 | 1.5 | 109 | 2.65 | |
| LC0028 | 26.2 | 1.8 | 97.5 | -0.74 | |
| LC0029 | - | - | - | - | |
| LC0030 | 26.99 | 2.699 | 100 | 0.12 | |
| LC0031 | 28.4 | 1.6 | 106 | 1.66 | |
| LC0032 | - | - | - | - | |
| LC0033 | 25.4 | 1.27 | 94.5 | -1.62 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 28 | 2.8 | 104 | 1.23 | |
| LC0037 | 26.62 | 0.27 | 99 | -0.28 | |
| LC0038 | 27.2 | 0.545 | 101 | 0.35 | |
| LC0039 | 26.8 | 1.4 | 99.7 | -0.09 | |
| LC0040 | 25.7 | 1.285 | 95.6 | -1.29 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sodium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 27.4 | 1.84 | 102 | 0.57 | |
| LC0043 | - | - | - | - | |
| LC0044 | 26.9 | 4.3 | 100 | 0.02 | |
| LC0045 | 24.864 | 2.4 | 92.5 | -2.21 | |
| LC0046 | - | - | - | - | |
| LC0047 | 24 | 1 | 89.3 | -3.15 | H |
| LC0048 | 21.78 | 0.22 | 81 | -5.58 | H |
| LC0049 | 26.8 | 5 | 99.7 | -0.09 | |
| LC0050 | - | - | - | - | |
| LC0051 | 27.79 | 2.195 | 103 | 1 | |
| LC0052 | 27 | 0.314 | 100 | 0.13 | |

Characteristics of parameter

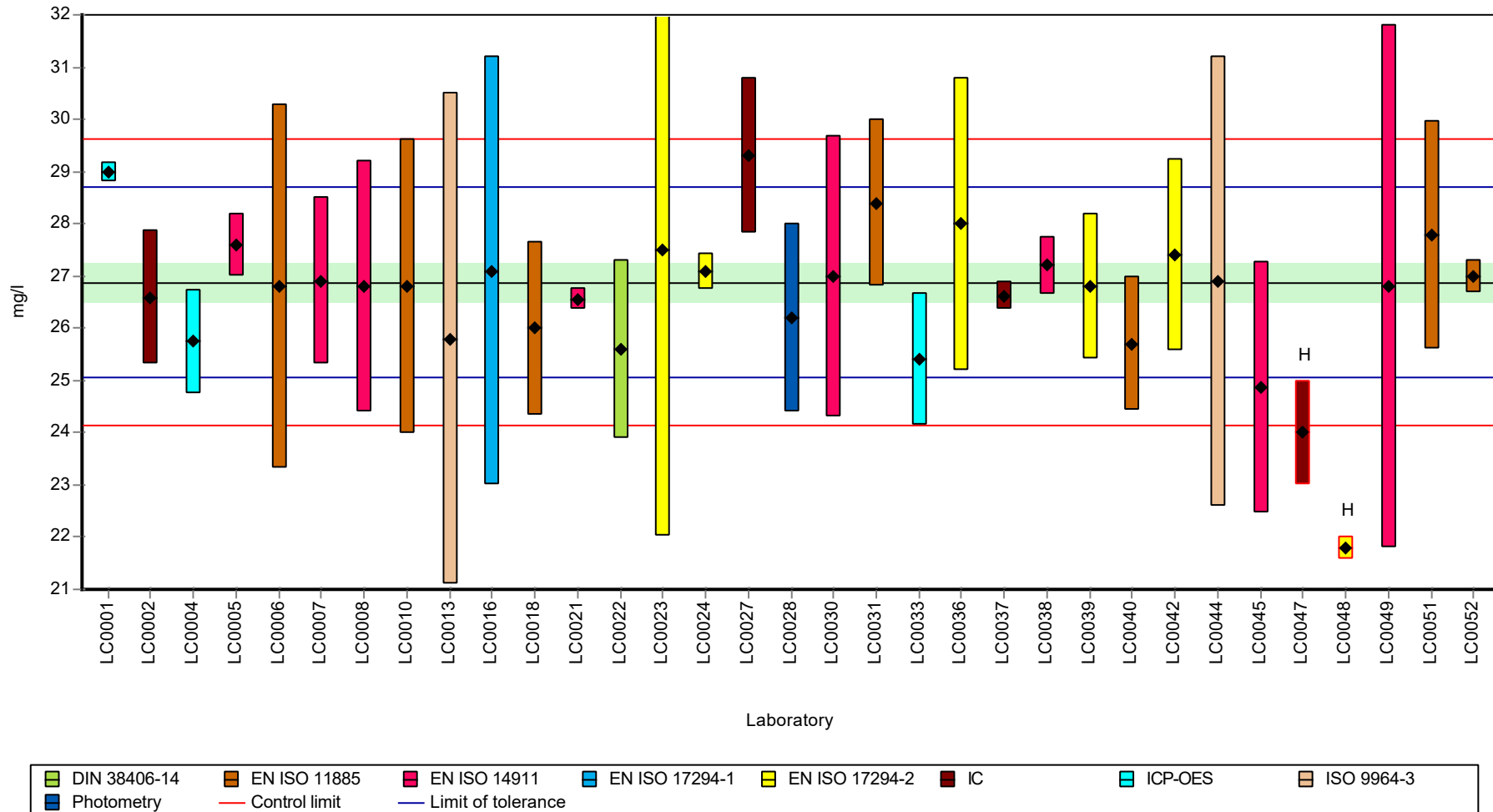
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 26.6 ± 0.726 | 26.9 ± 0.533 | mg/l |
| Minimum | 21.8 | 24.9 | mg/l |
| Maximum | 29.3 | 29.3 | mg/l |
| Standard deviation | 1.39 | 0.99 | mg/l |
| rel. standard deviation | 5.22 | 3.68 | % |
| n | 33 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sodium

Graphical presentation of results

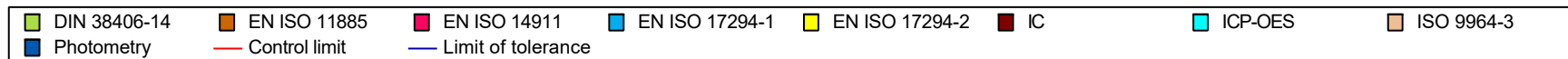
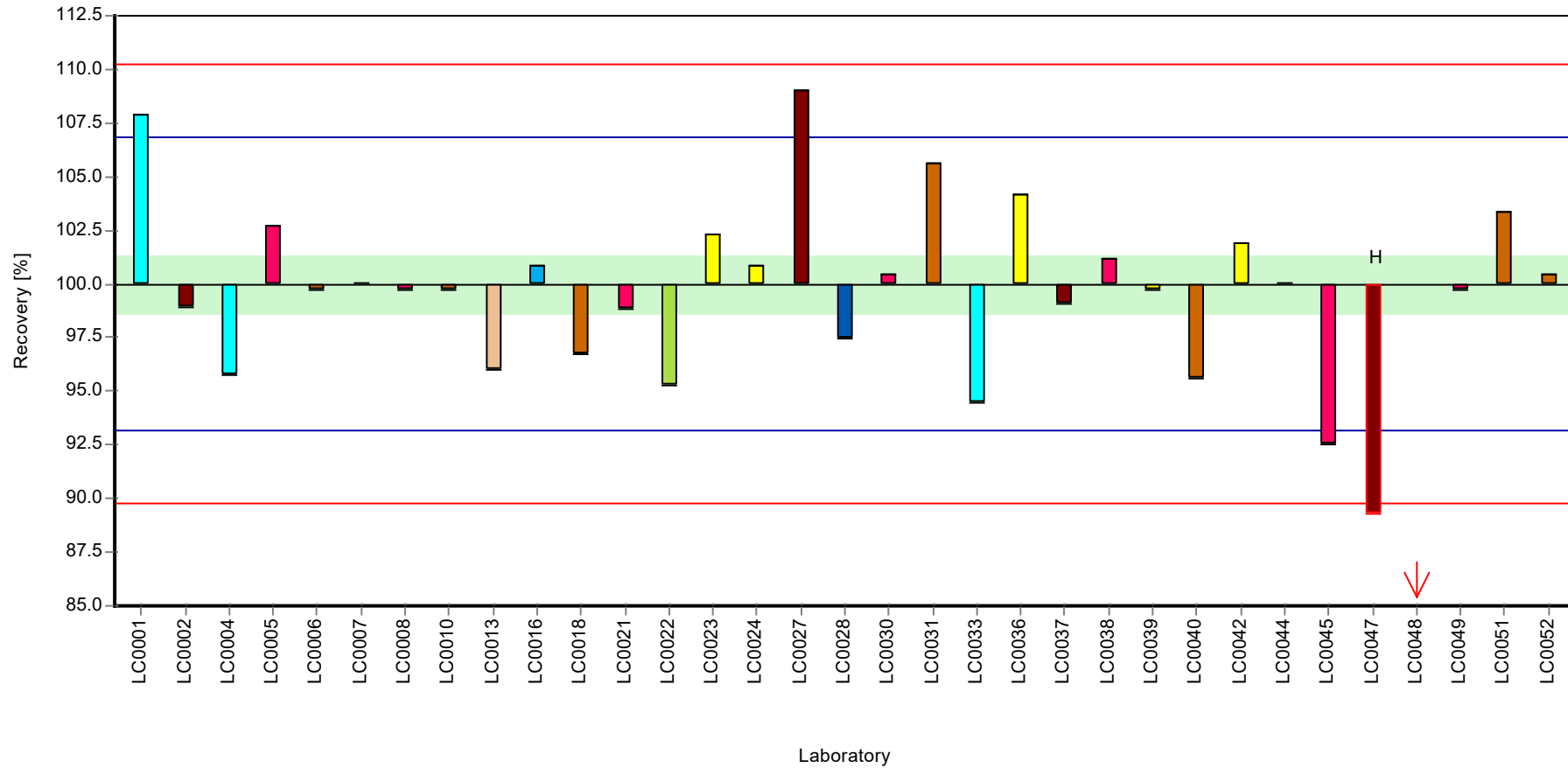
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sodium

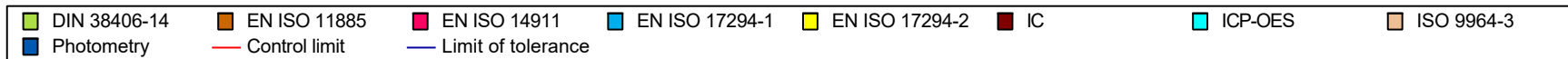
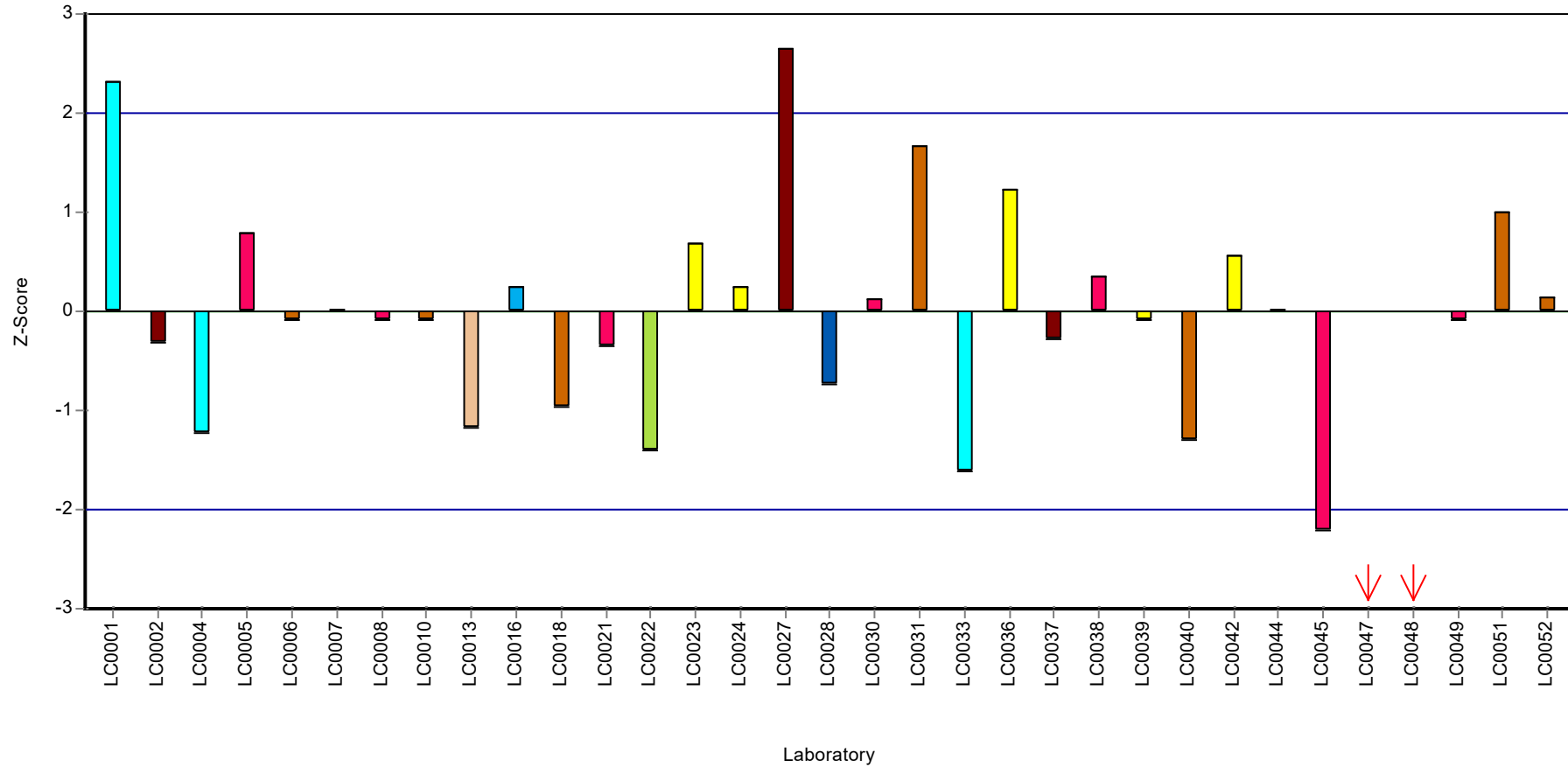
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sodium

Z-score



Parameter oriented report

N165 B

Sodium

| | |
|----------------------------------|------------------|
| Unit | mg/l |
| Assigned value \pm U (k=2) | 15.4 \pm 0.239 |
| Criterion | 0.525 (3.4 %) |
| Minimum - Maximum | 14 - 17.2 |
| Control test value \pm U (k=2) | 14.7 \pm 1.47 |

| Labcode | Result | \pm U | Recovery [%] | z-score | Comments |
|---------|--------|---------|--------------|---------|----------|
| LC0001 | 19.4 | 0.27 | 126 | 7.53 | H |
| LC0002 | 15.44 | 0.74 | 100 | -0.01 | |
| LC0003 | - | - | - | - | |
| LC0004 | 15 | 1 | 97.1 | -0.85 | |
| LC0005 | 16 | 0.4 | 104 | 1.05 | |
| LC0006 | 15.8 | 2.1 | 102 | 0.67 | |
| LC0007 | 16.8 | 1.9 | 109 | 2.58 | |
| LC0008 | 15.2 | 1.4 | 98.4 | -0.47 | |
| LC0009 | - | - | - | - | |
| LC0010 | 15.5 | 1.6 | 100 | 0.1 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | 14.5 | 2.65 | 93.9 | -1.8 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 16 | 2.4 | 104 | 1.05 | |
| LC0017 | - | - | - | - | |
| LC0018 | 16 | 1.024 | 104 | 1.05 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 15.4 | 0.2 | 99.7 | -0.09 | |
| LC0022 | 14.9 | 0.96 | 96.5 | -1.04 | |
| LC0023 | 15.8 | 3.2 | 102 | 0.67 | |
| LC0024 | 15.8 | 0.231 | 102 | 0.67 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 15 | 0.75 | 97.1 | -0.85 | |
| LC0028 | 15.6 | 1.1 | 101 | 0.29 | |
| LC0029 | - | - | - | - | |
| LC0030 | 15.57 | 1.557 | 101 | 0.23 | |
| LC0031 | 17.2 | 1 | 111 | 3.34 | |
| LC0032 | - | - | - | - | |
| LC0033 | 14.2 | 0.71 | 91.9 | -2.37 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 16 | 1.6 | 104 | 1.05 | |
| LC0037 | 15.4 | 0.15 | 99.7 | -0.09 | |
| LC0038 | 15.6 | 0.311 | 101 | 0.29 | |
| LC0039 | 15.7 | 0.8 | 102 | 0.48 | |
| LC0040 | 15 | 0.75 | 97.1 | -0.85 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sodium

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 15.5 | 1.03 | 100 | 0.1 | |
| LC0043 | - | - | - | - | |
| LC0044 | 15.115 | 1.93 | 97.9 | -0.63 | |
| LC0045 | 14.389 | 1.4 | 93.2 | -2.01 | |
| LC0046 | - | - | - | - | |
| LC0047 | 14 | 1 | 90.6 | -2.75 | |
| LC0048 | 14.74 | 0.69 | 95.4 | -1.35 | |
| LC0049 | 15.6 | 2.4 | 101 | 0.29 | |
| LC0050 | - | - | - | - | |
| LC0051 | 15.84 | 1.251 | 103 | 0.75 | |
| LC0052 | 15.7 | 0.327 | 102 | 0.48 | |

Characteristics of parameter

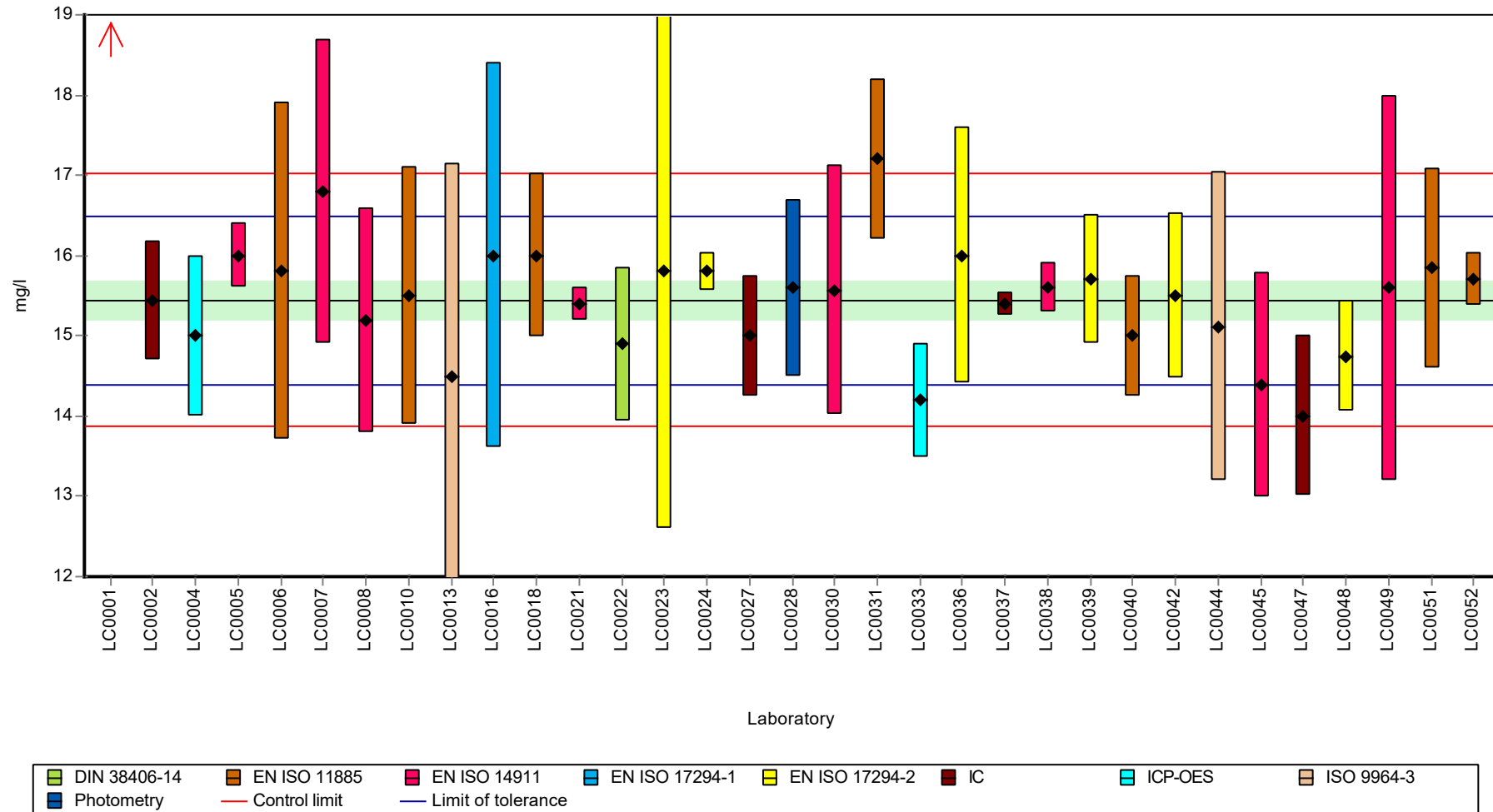
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 15.6 ± 0.499 | 15.4 ± 0.358 | mg/l |
| Minimum | 14 | 14 | mg/l |
| Maximum | 19.4 | 17.2 | mg/l |
| Standard deviation | 0.956 | 0.675 | mg/l |
| rel. standard deviation | 6.14 | 4.37 | % |
| n | 33 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sodium

Graphical presentation of results

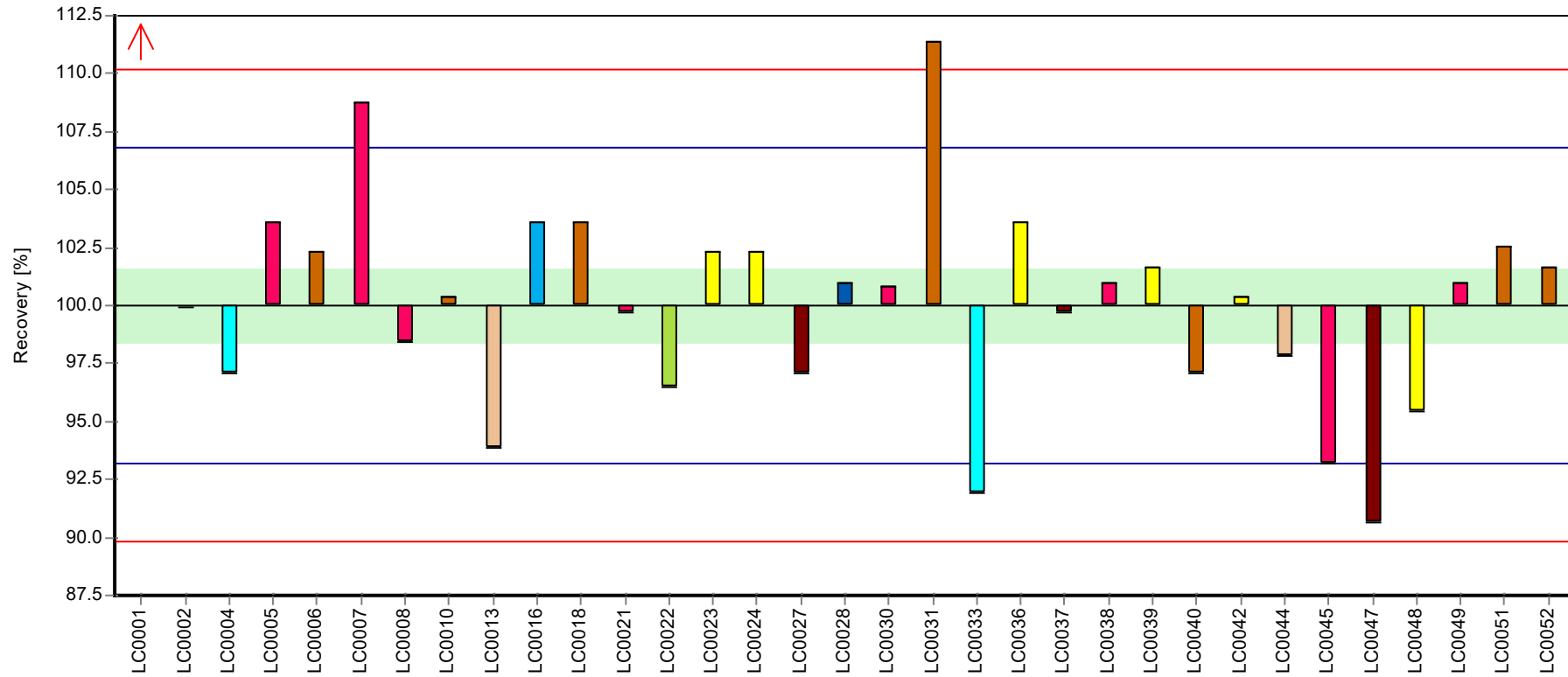
Results



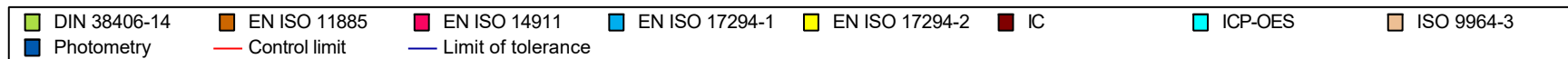
Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sodium

Recovery rate



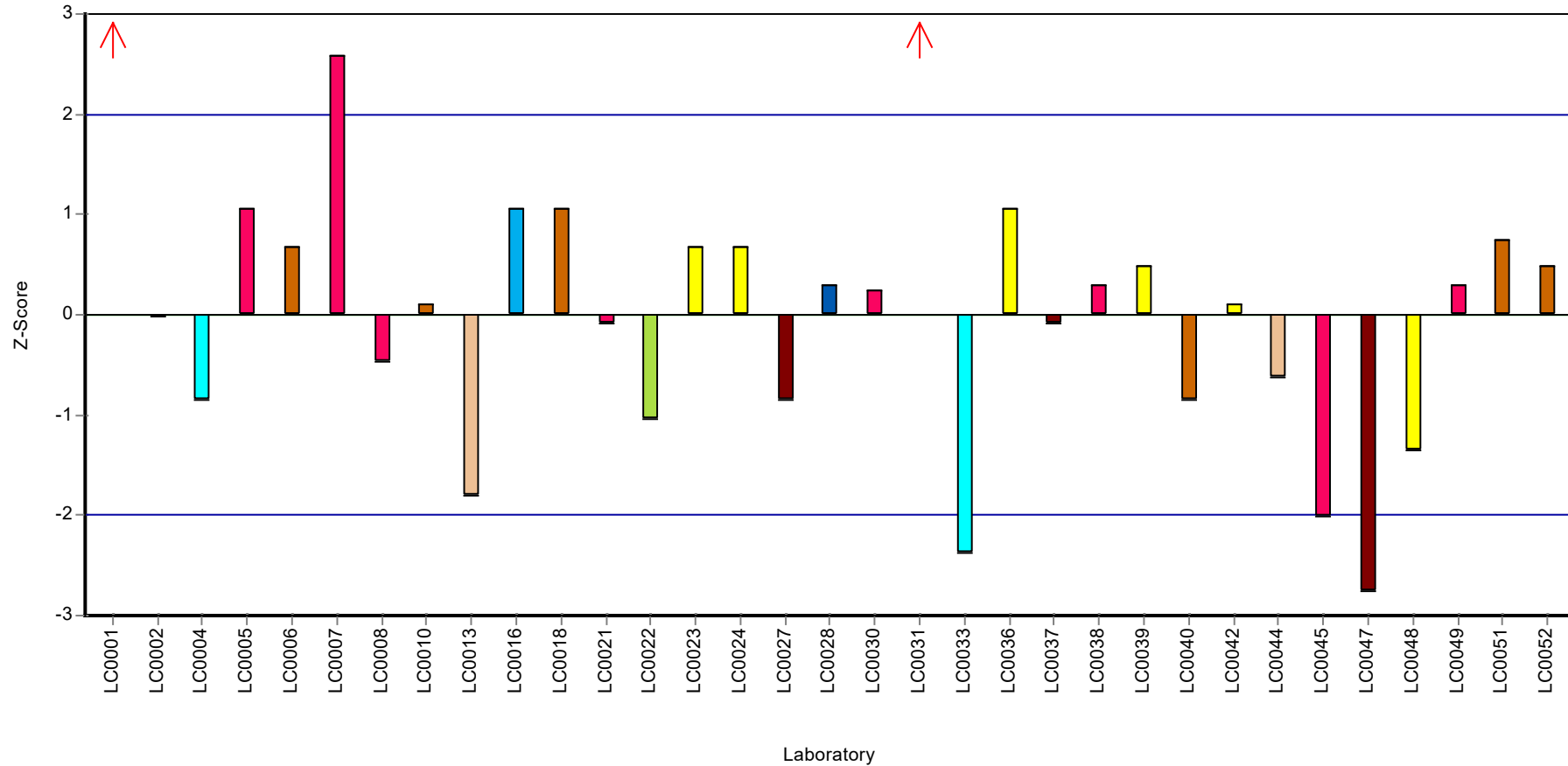
Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sodium

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sulfate (as SO₄)

Parameter oriented report

N165 A

Sulfate (as SO₄)

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 41.6 ± 0.241 |
| Criterion | 1.37 (3.3 %) |
| Minimum - Maximum | 40.3 - 43.7 |
| Control test value ± U (k=2) | 41.0 ± 4.1 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 41.33 | 2.07 | 99.3 | -0.22 | |
| LC0003 | 41.9 | 4.84 | 101 | 0.19 | |
| LC0004 | 40.85 | 1.5 | 98.1 | -0.57 | |
| LC0005 | 41.4 | 1.3 | 99.4 | -0.17 | |
| LC0006 | 42.3 | 6.8 | 102 | 0.48 | |
| LC0007 | 41.3 | 2.5 | 99.2 | -0.25 | |
| LC0008 | 41.3 | 1.8 | 99.2 | -0.25 | |
| LC0009 | 41.373 | 2.52 | 99.4 | -0.19 | |
| LC0010 | 41.7 | 5.5 | 100 | 0.04 | |
| LC0011 | 43.65 | 5 | 105 | 1.46 | |
| LC0012 | - | - | - | - | |
| LC0013 | 37.9 | 3.24 | 91 | -2.72 | H |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 41.37 | 4.1 | 99.4 | -0.2 | |
| LC0017 | - | - | - | - | |
| LC0018 | 42.3 | 3.807 | 102 | 0.48 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 41.27 | 2 | 99.1 | -0.27 | |
| LC0022 | 42.1 | 2.4 | 101 | 0.34 | |
| LC0023 | 45.3 | 6.8 | 109 | 2.66 | H |
| LC0024 | 42.8 | 0.289 | 103 | 0.85 | |
| LC0025 | 42.1 | 1.5 | 101 | 0.34 | |
| LC0026 | - | - | - | - | |
| LC0027 | 42.3 | 2.1 | 102 | 0.48 | |
| LC0028 | 28.09 | 3.47 | 67.5 | -9.86 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 41.28 | 2.064 | 99.1 | -0.26 | |
| LC0031 | 41 | 4 | 98.5 | -0.46 | |
| LC0032 | 42.3 | 4.23 | 102 | 0.48 | |
| LC0033 | 40.8 | 4.1 | 98 | -0.61 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 41.11 | 2.06 | 98.7 | -0.38 | |
| LC0037 | 42.17 | 0.63 | 101 | 0.39 | |
| LC0038 | - | - | - | - | |
| LC0039 | 41.5 | 3.9 | 99.7 | -0.1 | |
| LC0040 | 40.7 | 2.035 | 97.7 | -0.68 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sulfate (as SO₄)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 40.3 | 9.34 | 96.8 | -0.97 | |
| LC0043 | - | - | - | - | |
| LC0044 | 41.33 | 1.9 | 99.3 | -0.22 | |
| LC0045 | 41.506 | 4.1 | 99.7 | -0.1 | |
| LC0046 | - | - | - | - | |
| LC0047 | 42 | 2 | 101 | 0.26 | |
| LC0048 | 41.09 | 0.29 | 98.7 | -0.4 | |
| LC0049 | 42.3 | 3 | 102 | 0.48 | |
| LC0050 | 37.7 | 2.6 | 90.5 | -2.87 | H |
| LC0051 | 36.276 | 3.37 | 87.1 | -3.9 | H |
| LC0052 | 41.7 | 0.351 | 100 | 0.04 | |

Characteristics of parameter

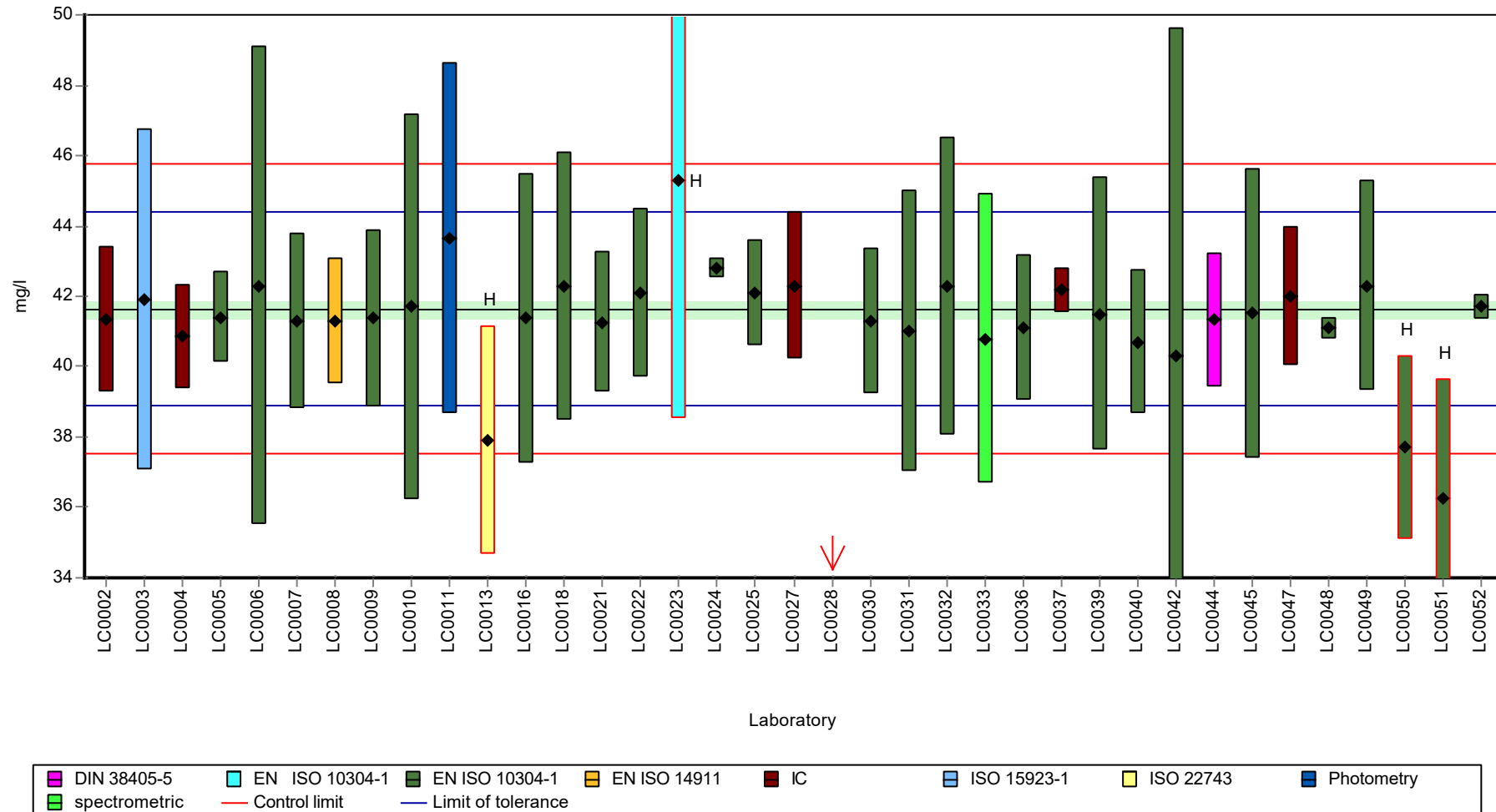
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 41 ± 1.31 | 41.6 ± 0.361 | mg/l |
| Minimum | 28.1 | 40.3 | mg/l |
| Maximum | 45.3 | 43.7 | mg/l |
| Standard deviation | 2.66 | 0.682 | mg/l |
| rel. standard deviation | 6.49 | 1.64 | % |
| n | 37 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sulfate (as SO₄)

Graphical presentation of results

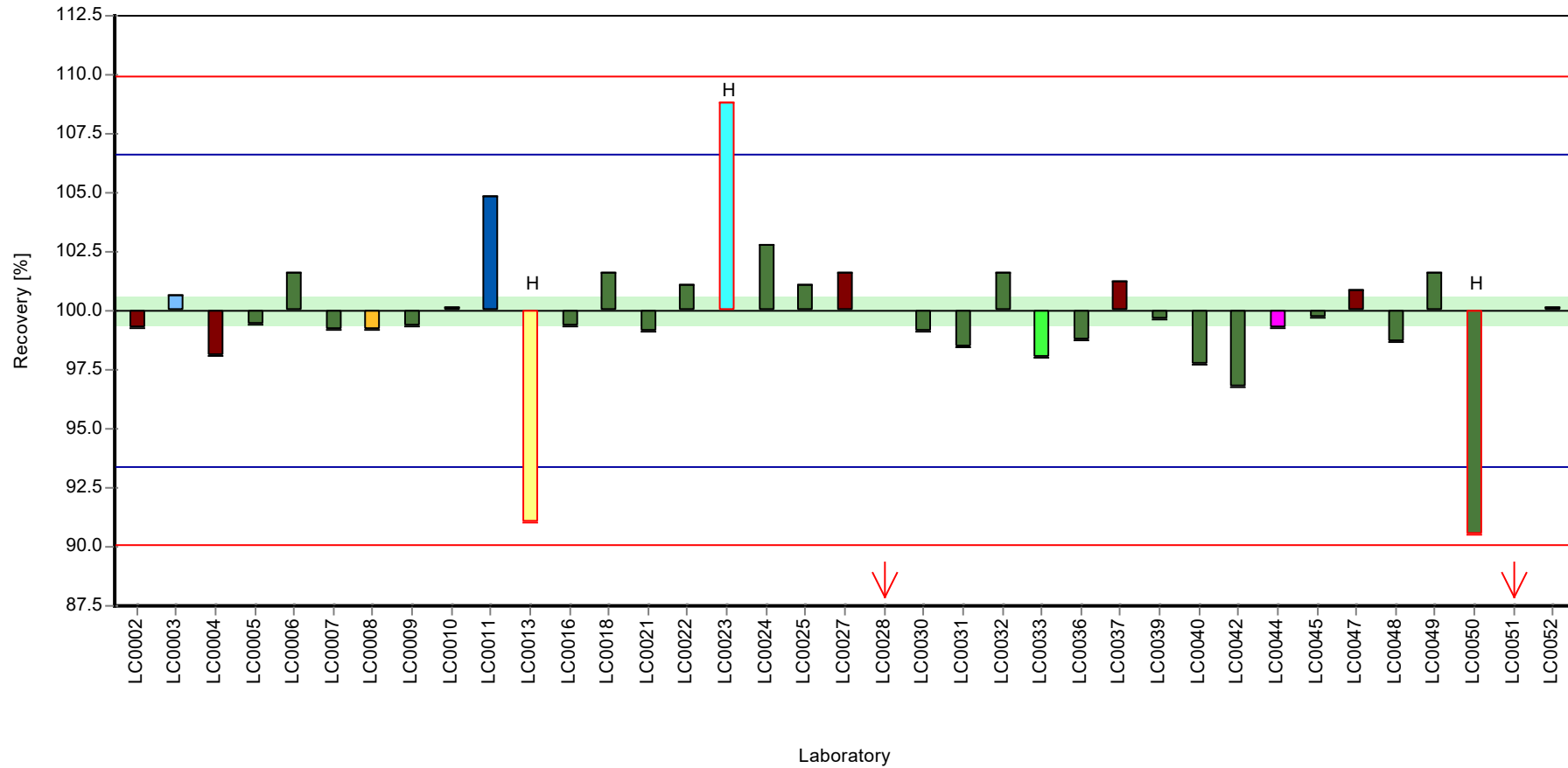
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sulfate (as SO4)

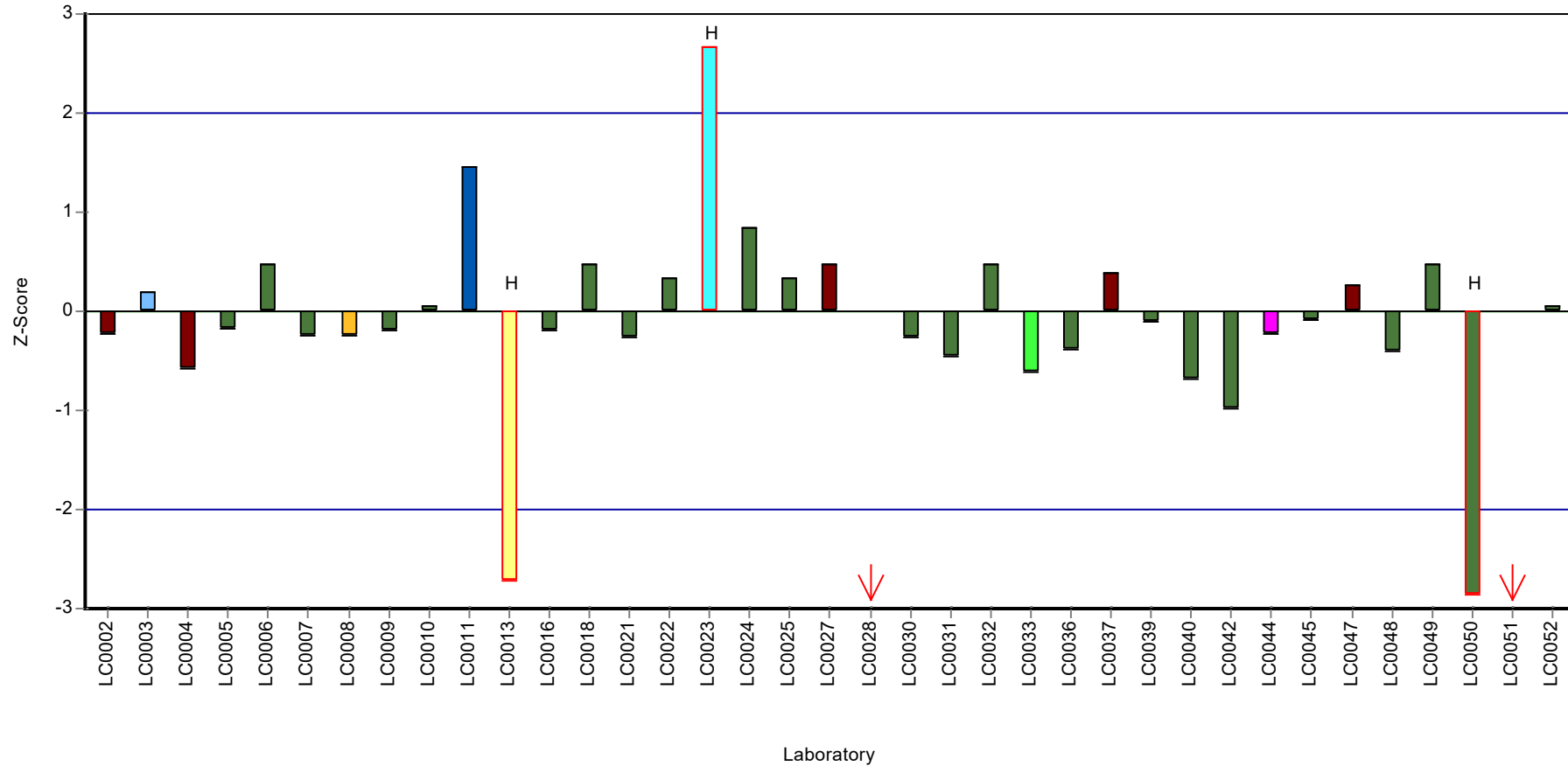
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Sulfate (as SO4)

Z-score



Parameter oriented report

N165 B

Sulfate (as SO₄)

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 30.8 ± 0.304 |
| Criterion | 1.02 (3.3 %) |
| Minimum - Maximum | 28.6 - 32.1 |
| Control test value ± U (k=2) | 29.9 ± 2.99 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 30.66 | 1.53 | 99.7 | -0.1 | |
| LC0003 | 32.1 | 3.71 | 104 | 1.32 | |
| LC0004 | 28.6 | 1.5 | 93 | -2.13 | |
| LC0005 | 31 | 1.3 | 101 | 0.24 | |
| LC0006 | 31.9 | 5.1 | 104 | 1.13 | |
| LC0007 | 30.4 | 1.8 | 98.8 | -0.35 | |
| LC0008 | 30.4 | 1.3 | 98.8 | -0.35 | |
| LC0009 | 30.587 | 1.863 | 99.4 | -0.17 | |
| LC0010 | 30.8 | 4.1 | 100 | 0.04 | |
| LC0011 | 32 | 5 | 104 | 1.22 | |
| LC0012 | - | - | - | - | |
| LC0013 | 28.7 | 2.45 | 93.3 | -2.03 | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 30.37 | 3 | 98.7 | -0.38 | |
| LC0017 | - | - | - | - | |
| LC0018 | 31.5 | 2.835 | 102 | 0.73 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 30.42 | 2 | 98.9 | -0.33 | |
| LC0022 | 31.2 | 1.8 | 101 | 0.44 | |
| LC0023 | 33.5 | 5 | 109 | 2.7 | H |
| LC0024 | 31.9 | 0.252 | 104 | 1.13 | |
| LC0025 | 30.8 | 1.1 | 100 | 0.04 | |
| LC0026 | - | - | - | - | |
| LC0027 | 31 | 1.6 | 101 | 0.24 | |
| LC0028 | 25.35 | 3.14 | 82.4 | -5.33 | H |
| LC0029 | - | - | - | - | |
| LC0030 | 33.67 | 1.684 | 109 | 2.87 | H |
| LC0031 | 31 | 2.8 | 101 | 0.24 | |
| LC0032 | 31.1 | 3.11 | 101 | 0.34 | |
| LC0033 | 30.52 | 3 | 99.2 | -0.23 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 30.03 | 1.5 | 97.6 | -0.72 | |
| LC0037 | 30.74 | 0.46 | 99.9 | -0.02 | |
| LC0038 | - | - | - | - | |
| LC0039 | 31.3 | 2.9 | 102 | 0.53 | |
| LC0040 | 30 | 1.5 | 97.5 | -0.75 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sulfate (as SO₄)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0042 | 30 | 6.95 | 97.5 | -0.75 | |
| LC0043 | - | - | - | - | |
| LC0044 | 31.16 | 3 | 101 | 0.4 | |
| LC0045 | 31.474 | 3.15 | 102 | 0.71 | |
| LC0046 | - | - | - | - | |
| LC0047 | 31 | 2 | 101 | 0.24 | |
| LC0048 | 31.54 | 0.14 | 103 | 0.77 | |
| LC0049 | 31.3 | 2 | 102 | 0.53 | |
| LC0050 | 28.7 | 2 | 93.3 | -2.03 | |
| LC0051 | 27.373 | 2.543 | 89 | -3.33 | H |
| LC0052 | 30.8 | 0.321 | 100 | 0.04 | |

Characteristics of parameter

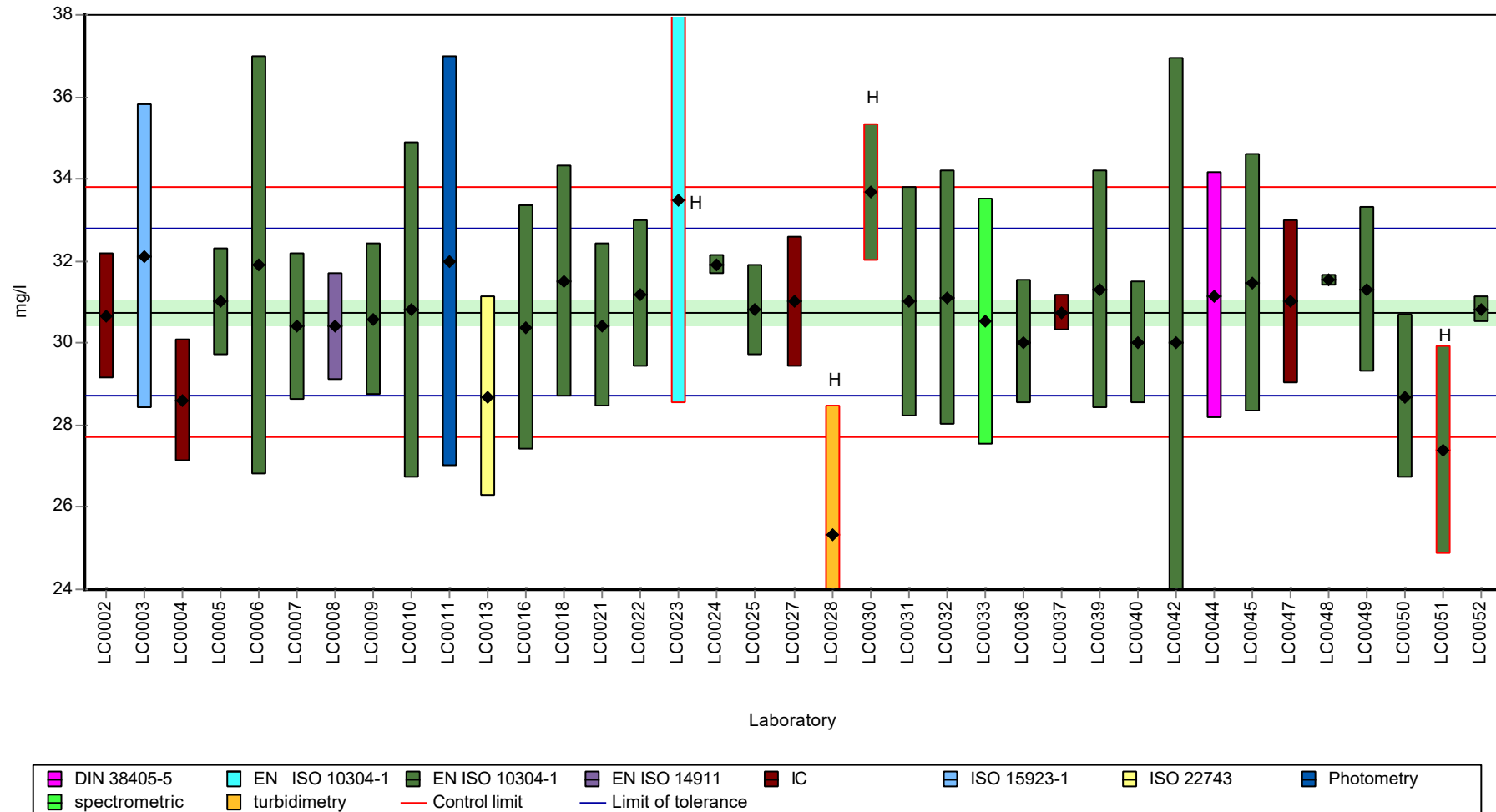
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 30.7 ± 0.739 | 30.8 ± 0.456 | mg/l |
| Minimum | 25.4 | 28.6 | mg/l |
| Maximum | 33.7 | 32.1 | mg/l |
| Standard deviation | 1.5 | 0.872 | mg/l |
| rel. standard deviation | 4.88 | 2.84 | % |
| n | 37 | 33 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sulfate (as SO₄)

Graphical presentation of results

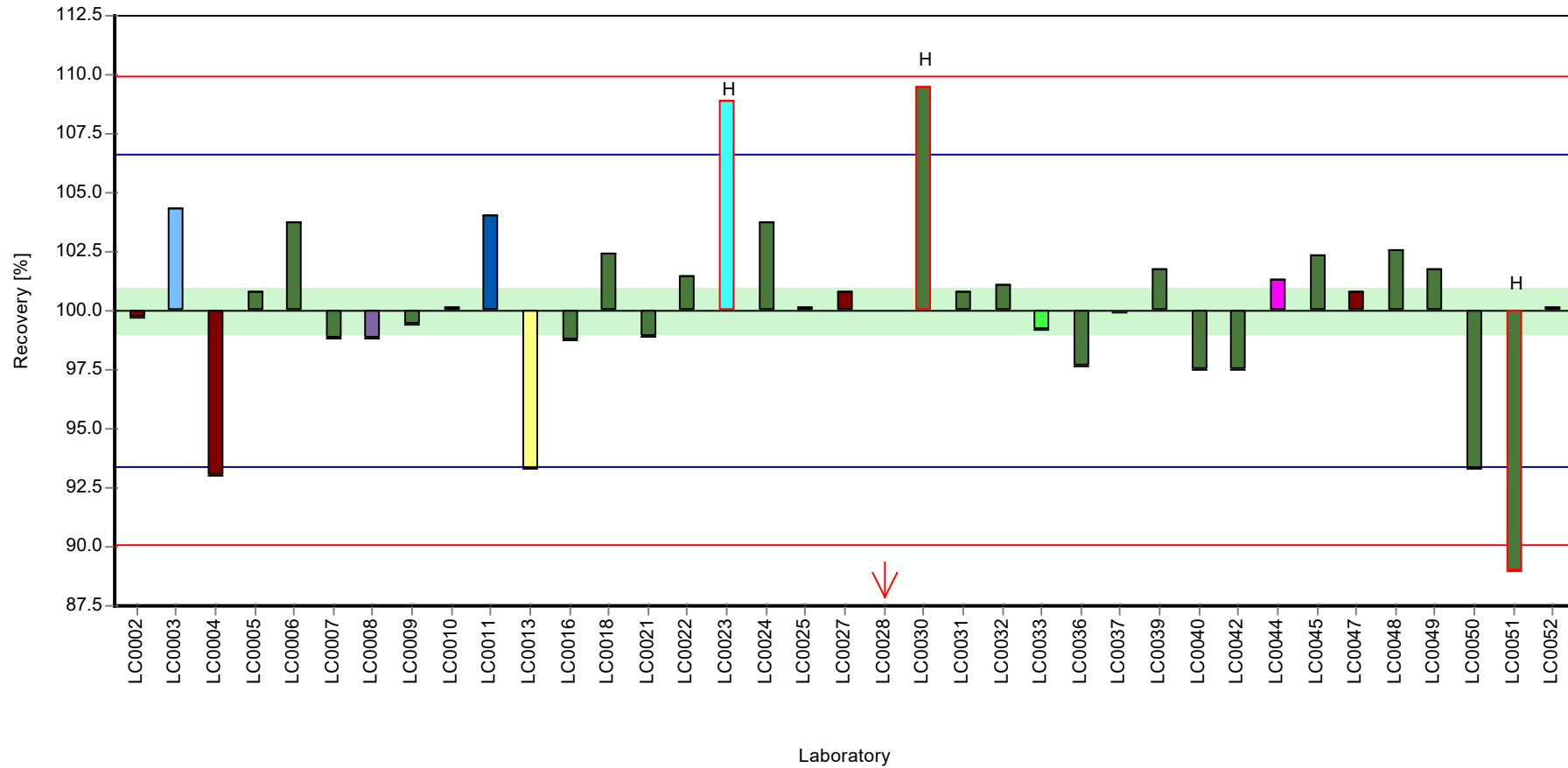
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sulfate (as SO₄)

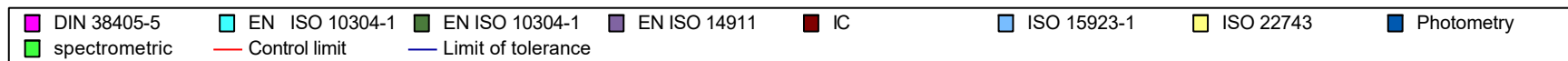
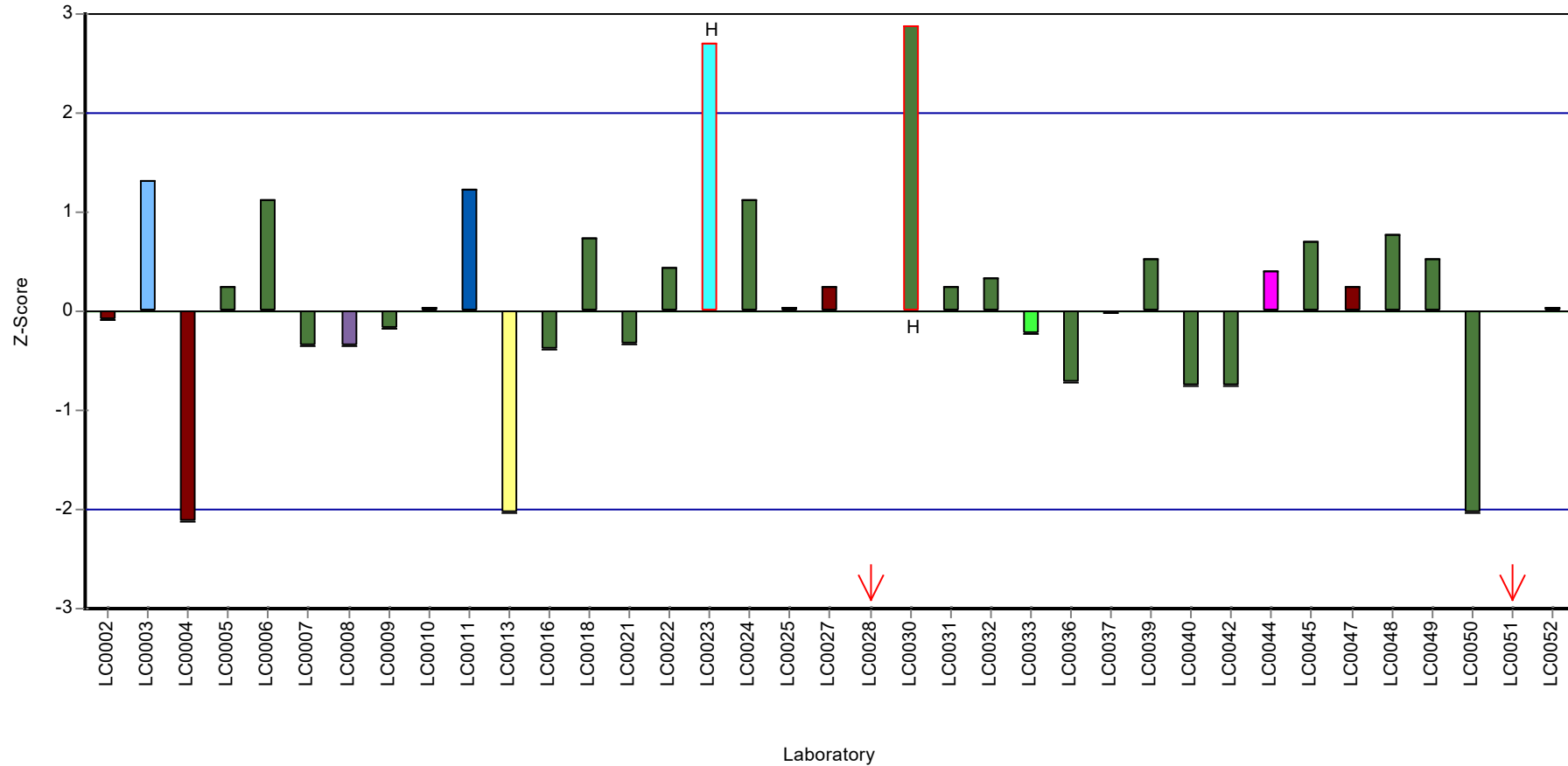
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Sulfate (as SO4)

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total-P (as PO4)

Parameter oriented report

N165 A

Total-P (as PO4)

| | |
|------------------------------|----------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 0.432 ± 0.012 |
| Criterion | 0.0324 (7.5 %) |
| Minimum - Maximum | 0.363 - 0.508 |
| Control test value ± U (k=2) | 0.439 ± 0.0658 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | 0.393 | 0.0391 | 90.9 | -1.21 | |
| LC0004 | 0.414 | 0.03 | 95.8 | -0.56 | |
| LC0005 | 0.448 | 0.022 | 104 | 0.49 | |
| LC0006 | 0.442 | 0.035 | 102 | 0.3 | |
| LC0007 | 0.423 | 0.055 | 97.9 | -0.28 | |
| LC0008 | - | - | - | - | |
| LC0009 | 0.39 | 0.047 | 90.2 | -1.3 | |
| LC0010 | 0.431 | 0.081 | 99.7 | -0.04 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 0.3304 | 0.0229 | 76.5 | -3.14 | H |
| LC0017 | 0.451 | 0.06 | 104 | 0.58 | |
| LC0018 | 0.46 | 0.0736 | 106 | 0.86 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 0.427 | 0.005 | 98.8 | -0.16 | |
| LC0022 | 0.377 | 0.027 | 87.2 | -1.7 | |
| LC0023 | 0.429 | 0.086 | 99.3 | -0.1 | |
| LC0024 | 0.363 | 0.001 | 84 | -2.13 | |
| LC0025 | 0.441 | 0.017 | 102 | 0.27 | |
| LC0026 | - | - | - | - | |
| LC0027 | 1.34 | 0.13 | 310 | 28.01 | H |
| LC0028 | 0.491 | 0.011 | 114 | 1.81 | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.432 | 0.065 | 100 | -0.01 | |
| LC0031 | 0.43 | 0.07 | 99.5 | -0.07 | |
| LC0032 | - | - | - | - | |
| LC0033 | 0.036 | 0.02 | 8.3 | -12.22 | H |
| LC0034 | 0.428 | 0.01 | 99 | -0.13 | |
| LC0035 | - | - | - | - | |
| LC0036 | - | - | - | - | |
| LC0037 | 0.405 | 0.036 | 93.7 | -0.84 | |
| LC0038 | 0.463 | 0.046 | 107 | 0.95 | |
| LC0039 | 0.428 | 0.063 | 99 | -0.13 | |
| LC0040 | 1.55 | 0.155 | 359 | 34.49 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total-P (as PO4)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 0.42 | 0.063 | 97.2 | -0.38 | |
| LC0043 | - | - | - | - | |
| LC0044 | 0.592 | 0.07 | 137 | 4.93 | H |
| LC0045 | 0.428 | 0.04 | 99 | -0.13 | |
| LC0046 | - | - | - | - | |
| LC0047 | 0.45 | 0.03 | 104 | 0.55 | |
| LC0048 | 0.526 | 0.012 | 122 | 2.89 | H |
| LC0049 | 0.439 | 0.04 | 102 | 0.21 | |
| LC0050 | - | - | - | - | |
| LC0051 | 0.5078 | 0.077 | 117 | 2.33 | |
| LC0052 | 0.458 | 0.0145 | 106 | 0.8 | |

Characteristics of parameter

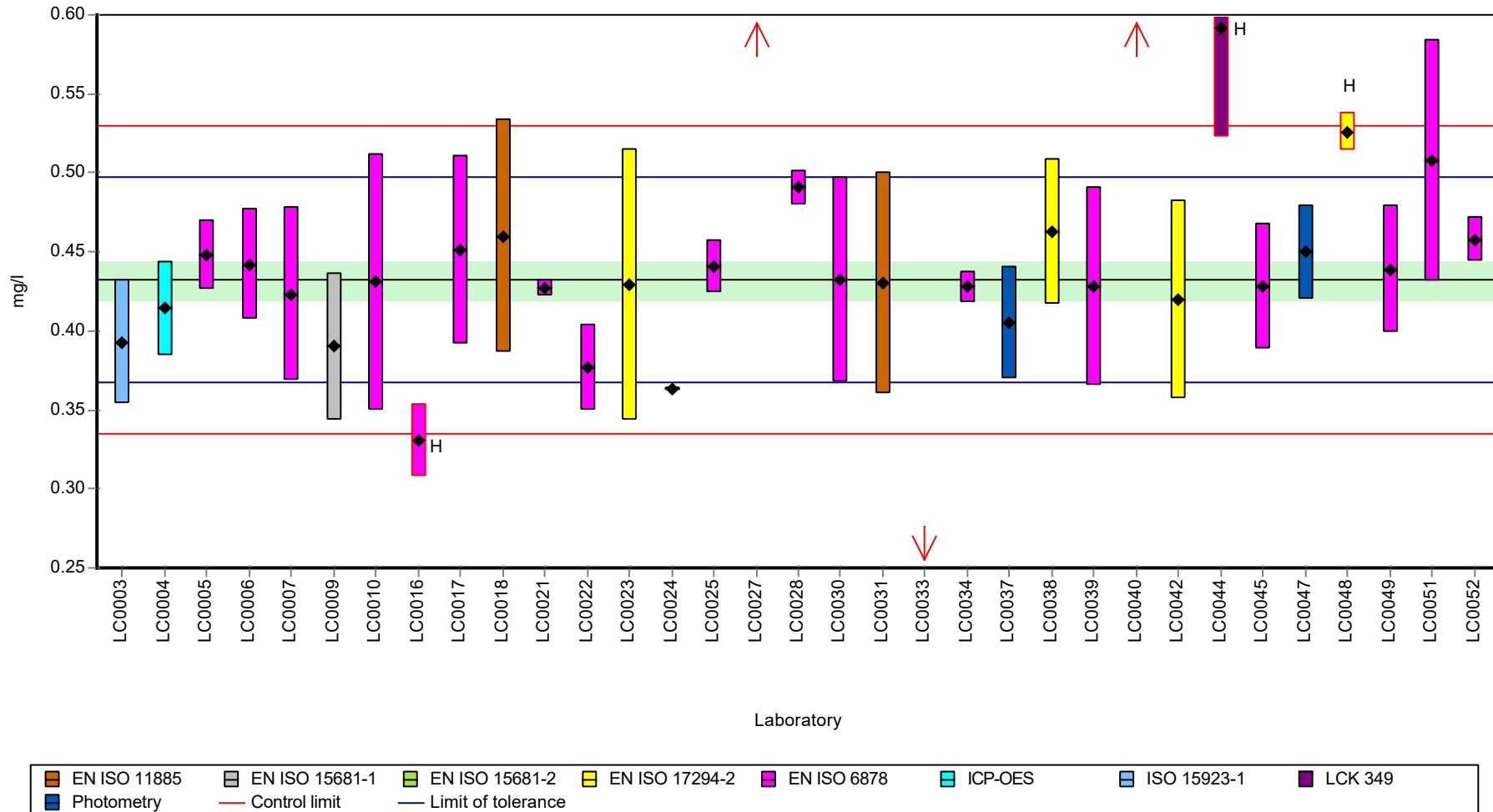
| | all results | without outliers | Unit |
|-------------------------|---------------|------------------|------|
| Mean ± CI (99%) | 0.486 ± 0.137 | 0.432 ± 0.018 | mg/l |
| Minimum | 0.036 | 0.363 | mg/l |
| Maximum | 1.55 | 0.508 | mg/l |
| Standard deviation | 0.262 | 0.0312 | mg/l |
| rel. standard deviation | 54 | 7.21 | % |
| n | 33 | 27 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total-P (as PO4)

Graphical presentation of results

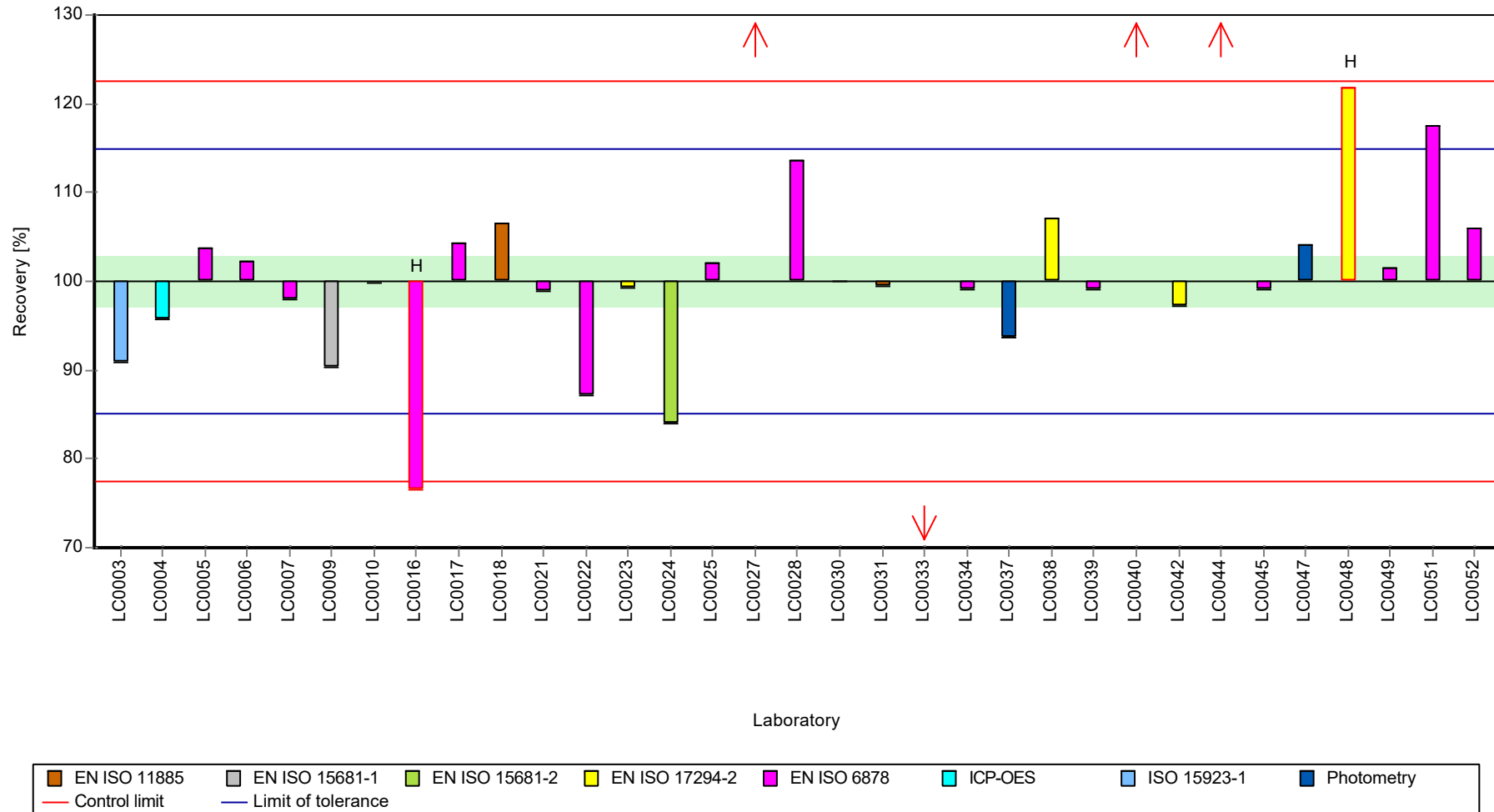
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total-P (as PO4)

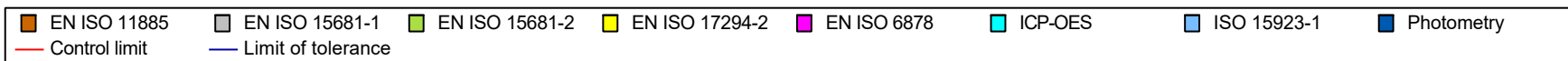
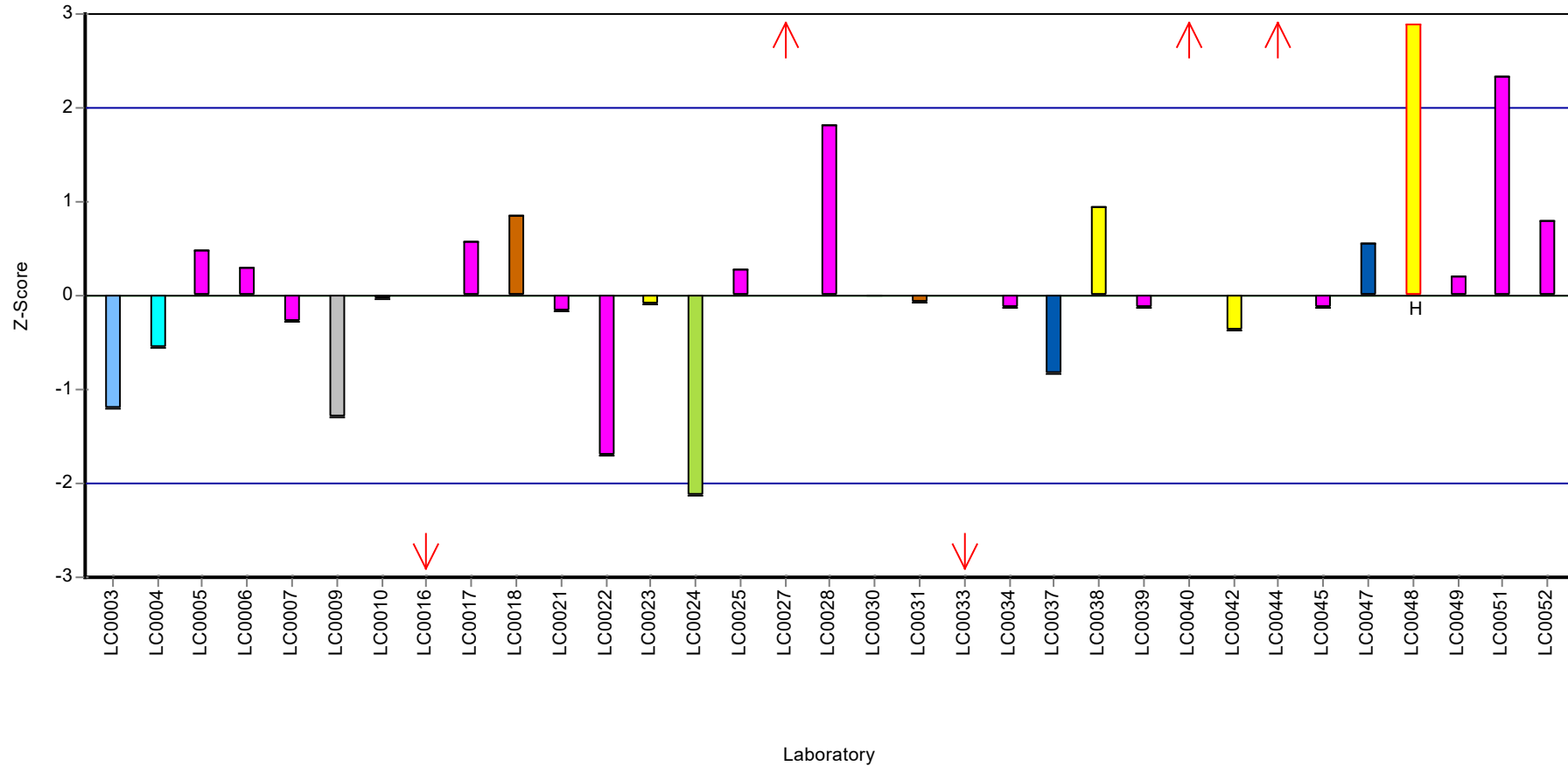
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total-P (as PO4)

Z-score



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total-P (as PO4)

Parameter oriented report

N165 B

Total-P (as PO4)

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 1.77 ± 0.0469 |
| Criterion | 0.133 (7.5 %) |
| Minimum - Maximum | 1.37 - 1.98 |
| Control test value ± U (k=2) | 1.85 ± 0.277 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | 1.652 | 0.164 | 93.6 | -0.86 | |
| LC0004 | 1.95 | 0.03 | 110 | 1.39 | |
| LC0005 | 1.79 | 0.08 | 101 | 0.19 | |
| LC0006 | 1.81 | 0.14 | 103 | 0.34 | |
| LC0007 | 1.712 | 0.223 | 97 | -0.4 | |
| LC0008 | - | - | - | - | |
| LC0009 | 1.746 | 0.21 | 98.9 | -0.15 | |
| LC0010 | 1.75 | 0.32 | 99.1 | -0.12 | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 1.6551 | 0.1147 | 93.8 | -0.83 | |
| LC0017 | 1.81 | 0.24 | 103 | 0.34 | |
| LC0018 | 1.95 | 0.312 | 110 | 1.39 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 1.824 | 0.005 | 103 | 0.44 | |
| LC0022 | 1.65 | 0.12 | 93.5 | -0.87 | |
| LC0023 | 1.69 | 0.34 | 95.7 | -0.57 | |
| LC0024 | 1.37 | 0.021 | 77.6 | -2.98 | |
| LC0025 | 1.81 | 0.07 | 103 | 0.34 | |
| LC0026 | - | - | - | - | |
| LC0027 | 1.58 | 0.16 | 89.5 | -1.4 | |
| LC0028 | 1.888 | 0.03 | 107 | 0.92 | |
| LC0029 | - | - | - | - | |
| LC0030 | 1.7875 | 0.261 | 101 | 0.17 | |
| LC0031 | 1.81 | 0.3 | 103 | 0.34 | |
| LC0032 | - | - | - | - | |
| LC0033 | 0.044 | 0.02 | 2.5 | -12.98 | H |
| LC0034 | 1.59 | 0.02 | 90.1 | -1.32 | |
| LC0035 | - | - | - | - | |
| LC0036 | 1.834 | 0.183 | 104 | 0.52 | |
| LC0037 | 1.904 | 0.17 | 108 | 1.05 | |
| LC0038 | 1.92 | 0.19 | 109 | 1.17 | |
| LC0039 | 1.72 | 0.25 | 97.4 | -0.34 | |
| LC0040 | 2.25 | 0.225 | 127 | 3.65 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total-P (as PO4)

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 1.91 | 0.29 | 108 | 1.09 | |
| LC0043 | - | - | - | - | |
| LC0044 | 1.8 | 0.07 | 102 | 0.26 | |
| LC0045 | 1.714 | 0.117 | 97.1 | -0.39 | |
| LC0046 | - | - | - | - | |
| LC0047 | 1.8 | 0.05 | 102 | 0.26 | |
| LC0048 | 1.984 | 0.018 | 112 | 1.65 | |
| LC0049 | 1.6 | 0.2 | 90.6 | -1.25 | |
| LC0050 | - | - | - | - | |
| LC0051 | 1.622 | 0.246 | 91.9 | -1.08 | |
| LC0052 | 1.86 | 0.0552 | 105 | 0.71 | |

Characteristics of parameter

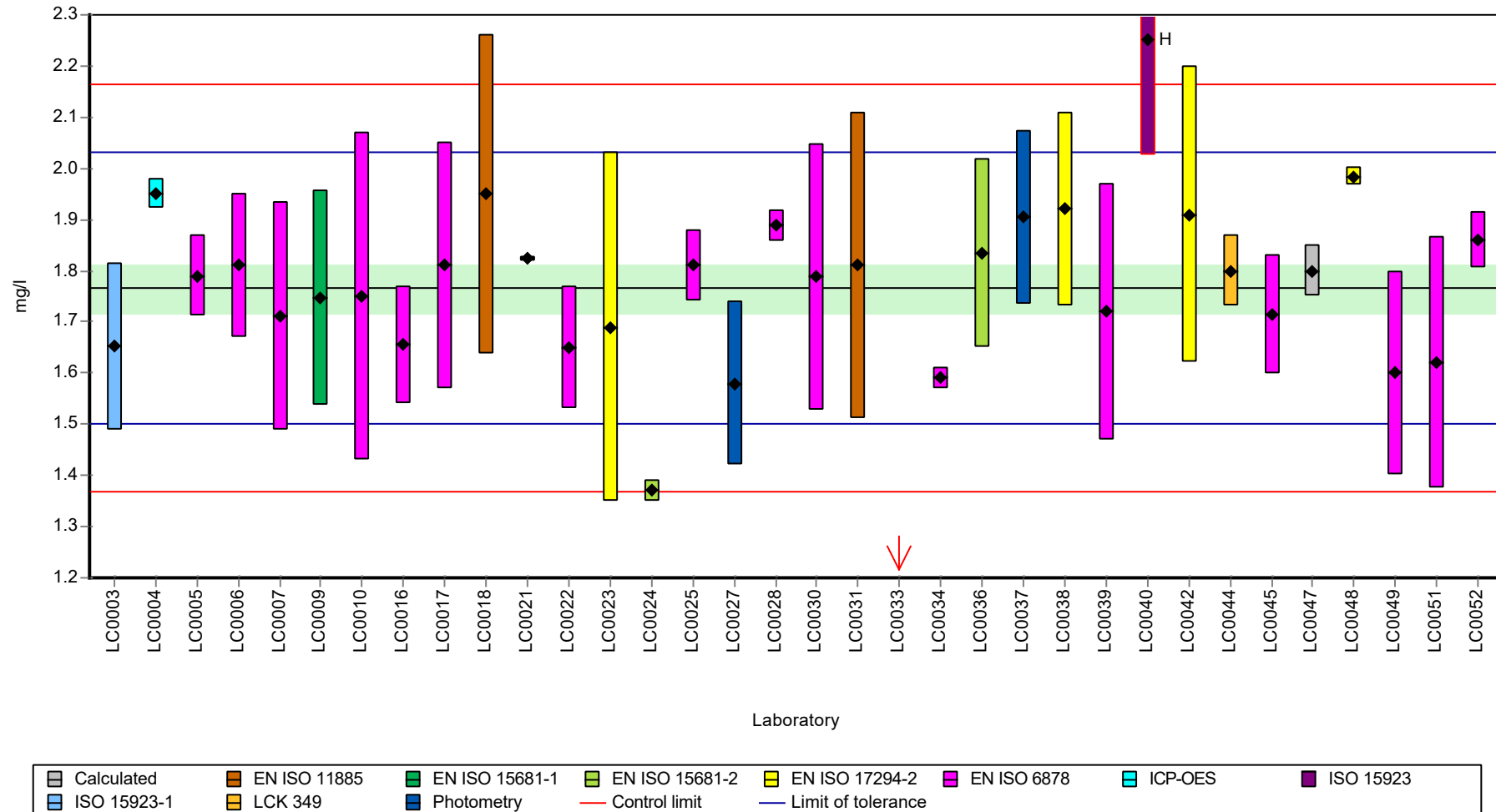
| | all results | without outliers | Unit |
|-------------------------|--------------|------------------|------|
| Mean ± CI (99%) | 1.73 ± 0.172 | 1.77 ± 0.0703 | mg/l |
| Minimum | 0.044 | 1.37 | mg/l |
| Maximum | 2.25 | 1.98 | mg/l |
| Standard deviation | 0.335 | 0.133 | mg/l |
| rel. standard deviation | 19.4 | 7.51 | % |
| n | 34 | 32 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total-P (as PO₄)

Graphical presentation of results

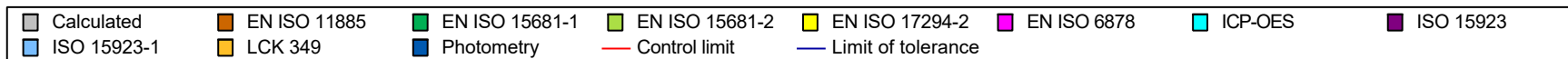
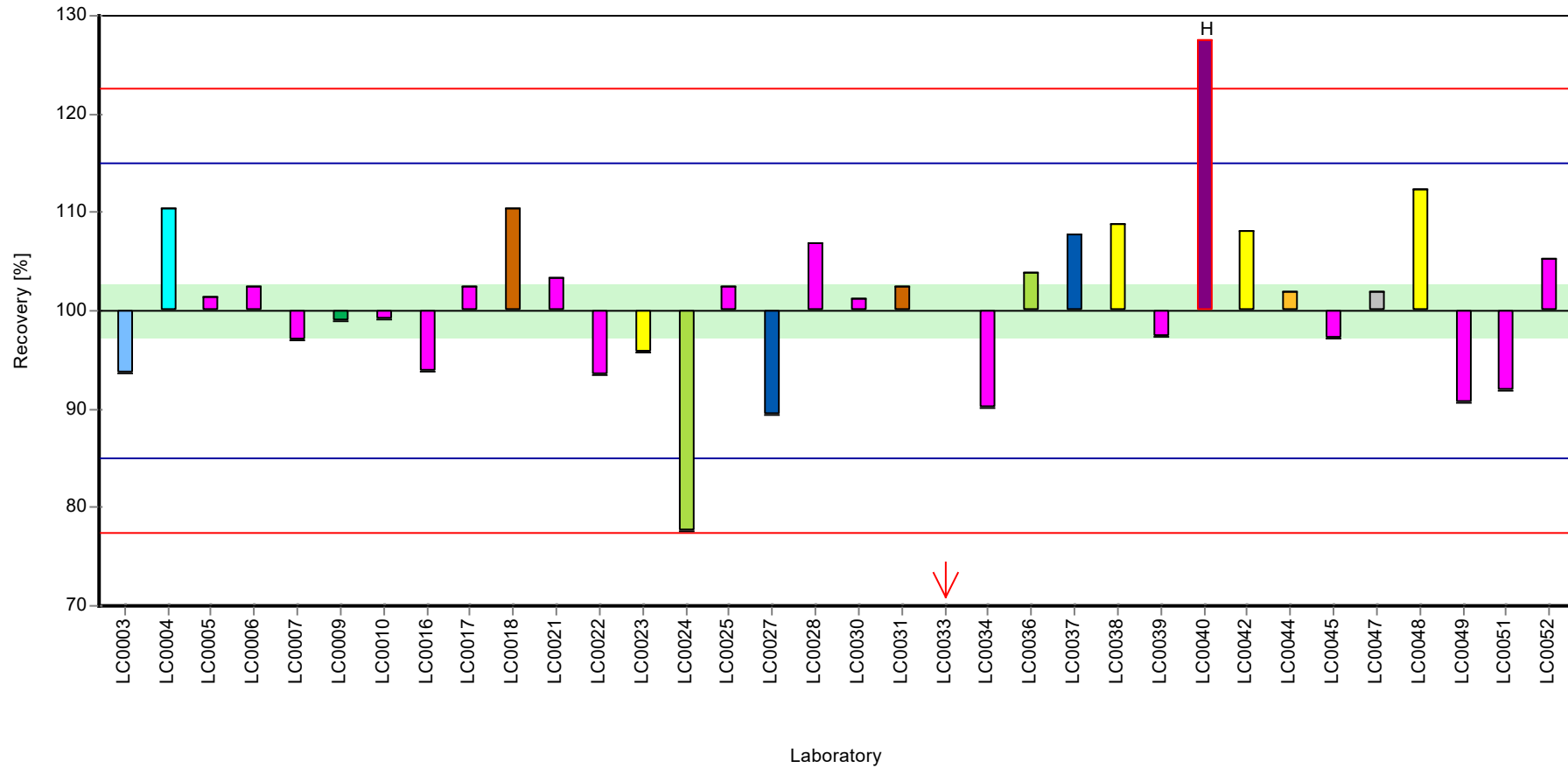
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total-P (as PO4)

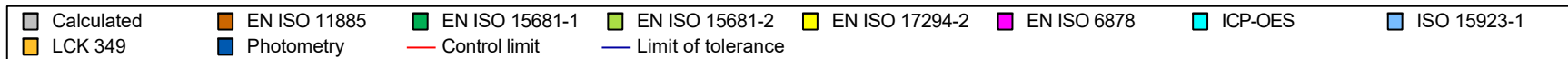
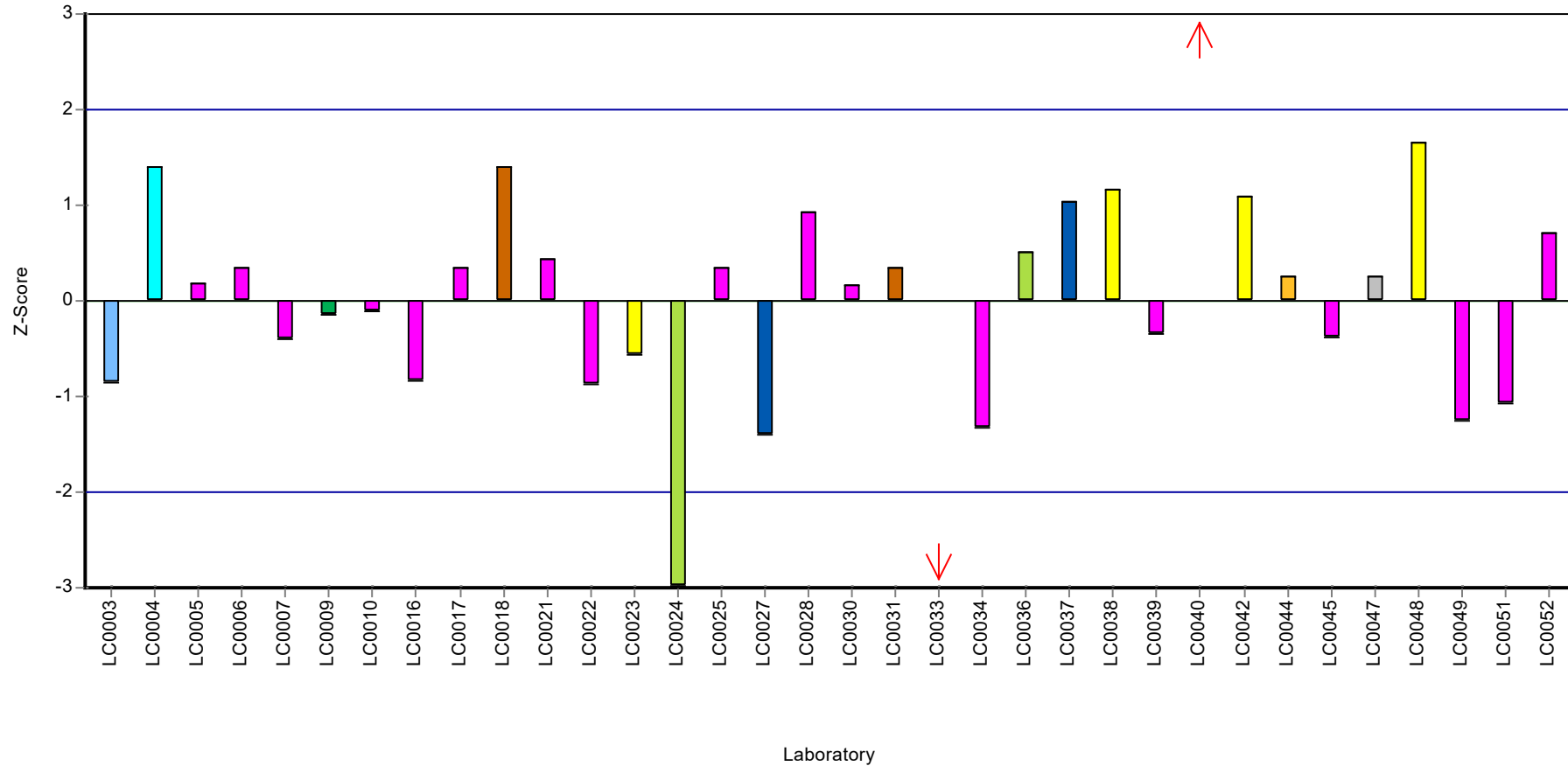
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total-P (as PO4)

Z-score



Parameter oriented report

N165 A

Total hardness

| | |
|------------------------------|---------------|
| Unit | mmol/l |
| Assigned value ± U (k=2) | 4.36 ± 0.0397 |
| Criterion | 0.131 (3 %) |
| Minimum - Maximum | 4.11 - 4.54 |
| Control test value ± U (k=2) | 4.80 ± 0.96 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 4.332 | 0.17 | 99.4 | -0.2 | |
| LC0003 | 4.24 | 0.549 | 97.3 | -0.9 | |
| LC0004 | 4.299 | 0.025 | 98.7 | -0.45 | |
| LC0005 | 4.5 | 0.18 | 103 | 1.09 | |
| LC0006 | 4.29 | 0.64 | 98.4 | -0.52 | |
| LC0007 | 4.43 | 0.3 | 102 | 0.55 | |
| LC0008 | 4.46 | 0.4 | 102 | 0.78 | |
| LC0009 | - | - | - | - | |
| LC0010 | - | - | - | - | |
| LC0011 | 4.29 | 0.53 | 98.4 | -0.52 | |
| LC0012 | 4.49 | 0.48 | 103 | 1.01 | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 4.35 | 0.44 | 99.8 | -0.06 | |
| LC0017 | - | - | - | - | |
| LC0018 | 4.48 | 0.4 | 103 | 0.94 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 4.392 | 0.1 | 101 | 0.26 | |
| LC0022 | 22.58 | 0.9 | 518 | 139.39 | H |
| LC0023 | 4.41 | 0.88 | 101 | 0.4 | |
| LC0024 | 4.16 | 0.038 | 95.5 | -1.51 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 23.9 | 1.2 | 548 | 149.49 | H |
| LC0028 | 4.4 | 0.27 | 101 | 0.32 | |
| LC0029 | - | - | - | - | |
| LC0030 | 0.39 | 0.078 | 8.9 | -30.35 | H |
| LC0031 | 4.47 | 0.5 | 103 | 0.86 | |
| LC0032 | - | - | - | - | |
| LC0033 | 4.309 | 0.2 | 98.9 | -0.37 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 4.28 | 0.43 | 98.2 | -0.59 | |
| LC0037 | 4.37 | 0.022 | 100 | 0.09 | |
| LC0038 | 4.36 | 0.436 | 100 | 0.02 | |
| LC0039 | 4.36 | 0.22 | 100 | 0.02 | |
| LC0040 | 4.19 | 0.2095 | 96.2 | -1.28 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total hardness

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 4.23 | 0.42 | 97.1 | -0.98 | |
| LC0043 | - | - | - | - | |
| LC0044 | 4.542 | 0.29 | 104 | 1.41 | |
| LC0045 | 4.329 | 1 | 99.3 | -0.22 | |
| LC0046 | - | - | - | - | |
| LC0047 | 4.11 | 0.2 | 94.3 | -1.89 | |
| LC0048 | 3.966 | 0.18 | 91 | -3 | H |
| LC0049 | 4.41 | 0.2 | 101 | 0.4 | |
| LC0050 | - | - | - | - | |
| LC0051 | 4.45 | 0.1 | 102 | 0.71 | |
| LC0052 | 4.44 | 0.0332 | 102 | 0.63 | |

Characteristics of parameter

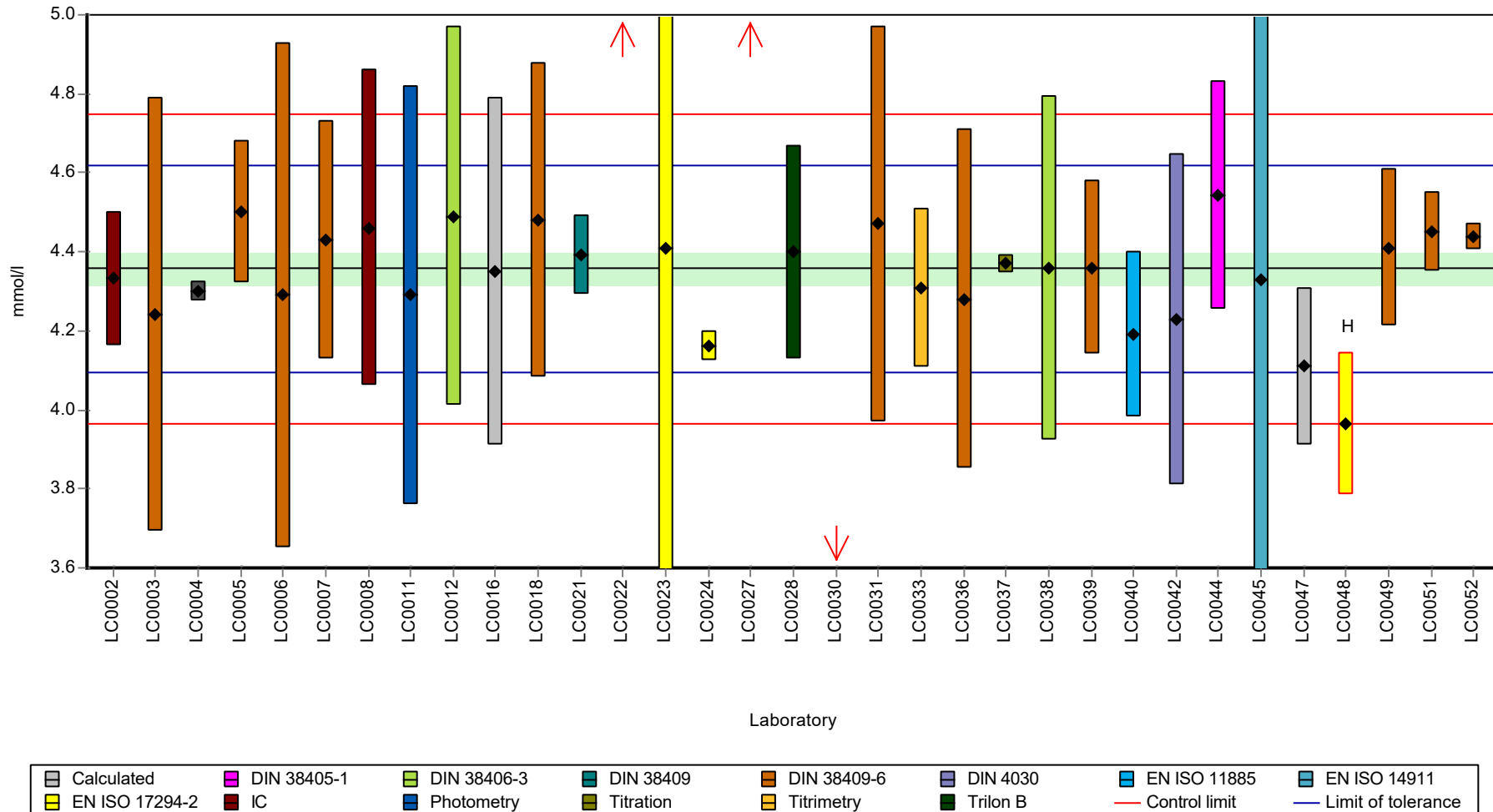
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|--------|
| Mean ± CI (99%) | 5.37 ± 2.44 | 4.36 ± 0.0596 | mmol/l |
| Minimum | 0.39 | 4.11 | mmol/l |
| Maximum | 23.9 | 4.54 | mmol/l |
| Standard deviation | 4.66 | 0.107 | mmol/l |
| rel. standard deviation | 86.9 | 2.45 | % |
| n | 33 | 29 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total hardness

Graphical presentation of results

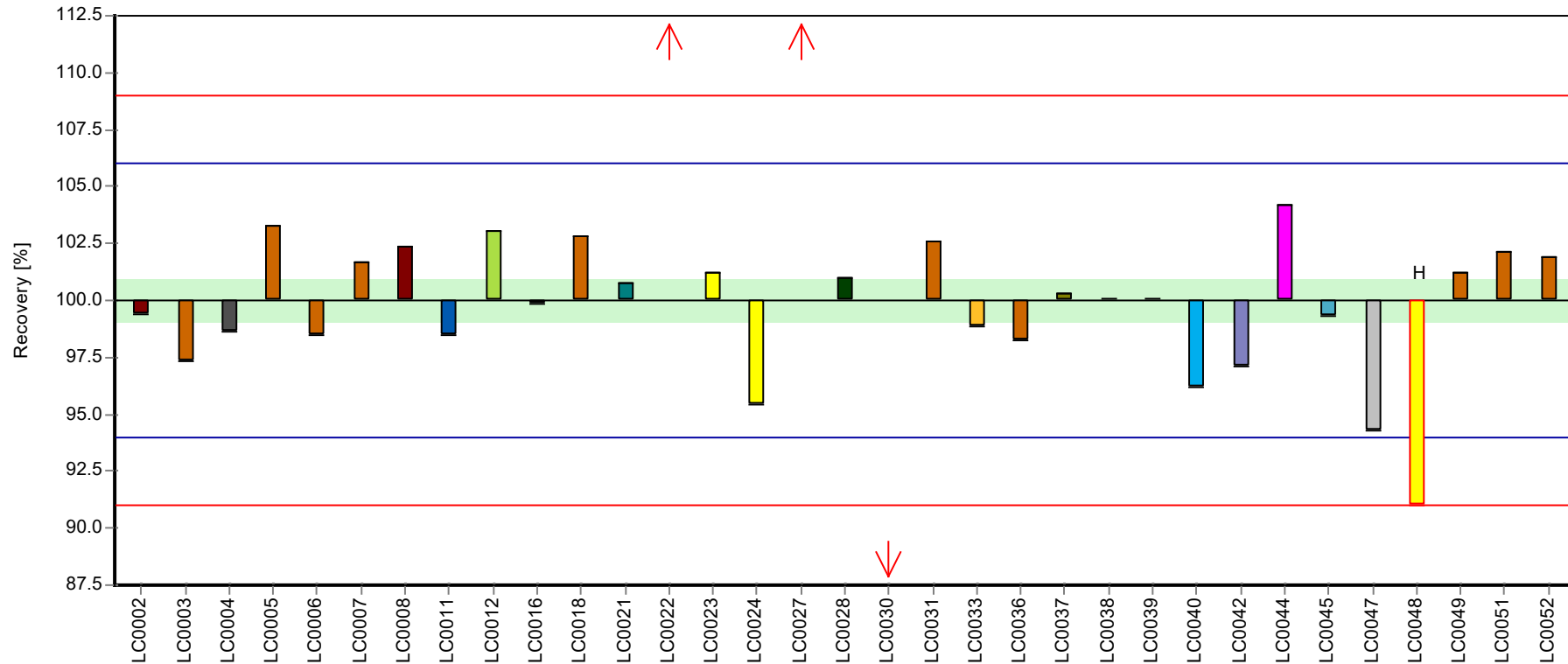
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total hardness

Recovery rate



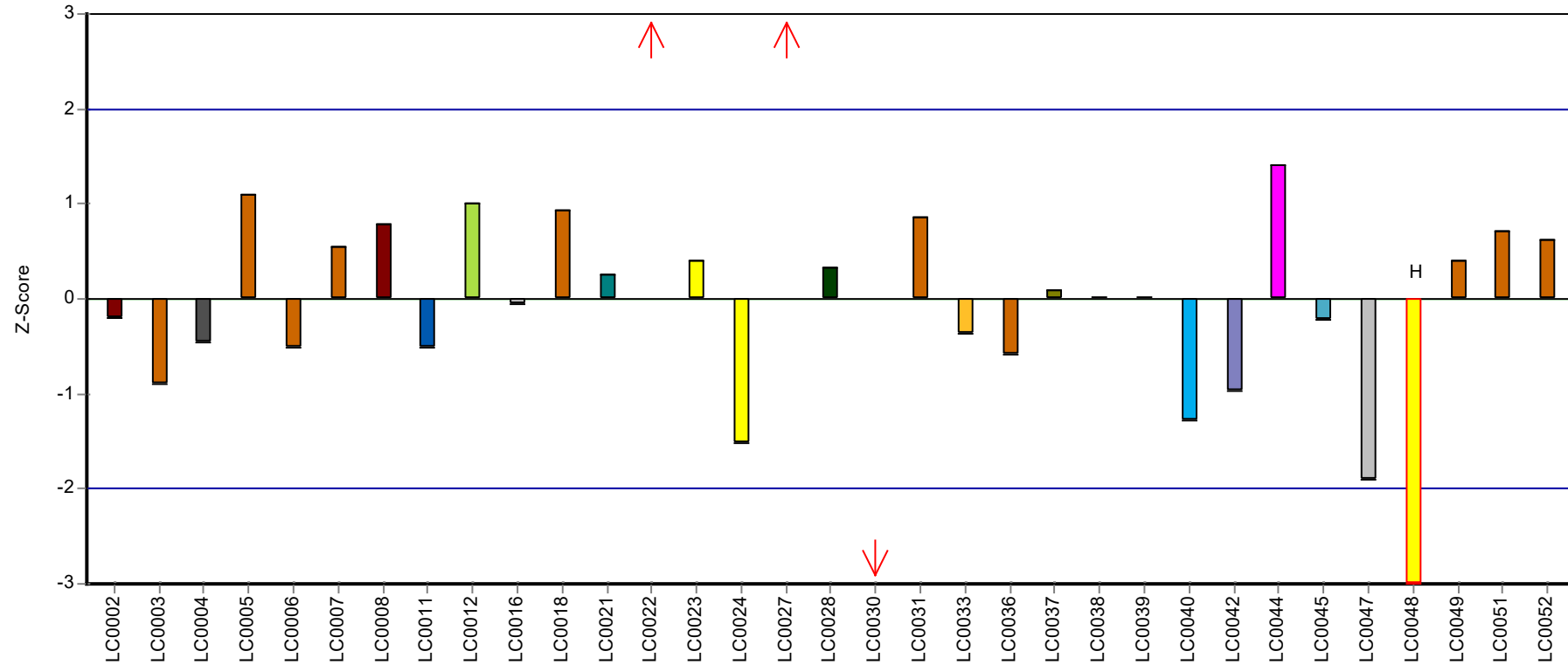
Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total hardness

Z-score



Laboratory



Parameter oriented report

N165 B

Total hardness

| | |
|------------------------------|---------------|
| Unit | mmol/l |
| Assigned value ± U (k=2) | 2.11 ± 0.0216 |
| Criterion | 0.0632 (3 %) |
| Minimum - Maximum | 1.94 - 2.23 |
| Control test value ± U (k=2) | 2.080 ± 0.416 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | 2.08 | 0.08 | 98.7 | -0.45 | |
| LC0003 | 2.05 | 0.265 | 97.2 | -0.92 | |
| LC0004 | 2.154 | 0.025 | 102 | 0.72 | |
| LC0005 | 2.15 | 0.09 | 102 | 0.66 | |
| LC0006 | 2.12 | 0.32 | 101 | 0.19 | |
| LC0007 | 2.16 | 0.1 | 102 | 0.82 | |
| LC0008 | 2.11 | 0.21 | 100 | 0.03 | |
| LC0009 | - | - | - | - | |
| LC0010 | - | - | - | - | |
| LC0011 | 2.06 | 0.53 | 97.7 | -0.76 | |
| LC0012 | 2.21 | 0.48 | 105 | 1.61 | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | 2.1 | 0.21 | 99.6 | -0.13 | |
| LC0017 | - | - | - | - | |
| LC0018 | 2.23 | 0.2 | 106 | 1.92 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 2.122 | 0.1 | 101 | 0.22 | |
| LC0022 | 11 | 0.44 | 522 | 140.58 | H |
| LC0023 | 2.13 | 0.43 | 101 | 0.34 | |
| LC0024 | 2.05 | 0.036 | 97.2 | -0.92 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 11.1 | 0.56 | 526 | 142.16 | H |
| LC0028 | 2.1 | 0.1 | 99.6 | -0.13 | |
| LC0029 | - | - | - | - | |
| LC0030 | 2.11 | 0.422 | 100 | 0.03 | |
| LC0031 | 2.15 | 0.2 | 102 | 0.66 | |
| LC0032 | - | - | - | - | |
| LC0033 | 2.112 | 0.1 | 100 | 0.06 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 2.08 | 0.02 | 98.7 | -0.45 | |
| LC0037 | 2.09 | 0.01 | 99.1 | -0.29 | |
| LC0038 | 2.09 | 0.209 | 99.1 | -0.29 | |
| LC0039 | 2.15 | 0.11 | 102 | 0.66 | |
| LC0040 | 2.06 | 0.103 | 97.7 | -0.76 | |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total hardness

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 2.07 | 0.21 | 98.2 | -0.61 | |
| LC0043 | - | - | - | - | |
| LC0044 | 2.174 | 0.12 | 103 | 1.04 | |
| LC0045 | 2.095 | 1 | 99.4 | -0.21 | |
| LC0046 | - | - | - | - | |
| LC0047 | 1.98 | 0.18 | 93.9 | -2.03 | |
| LC0048 | 1.94 | 0.14 | 92 | -2.66 | |
| LC0049 | 2.1 | 0.1 | 99.6 | -0.13 | |
| LC0050 | - | - | - | - | |
| LC0051 | 2.14 | 0.1 | 102 | 0.5 | |
| LC0052 | 2.19 | 0.0245 | 104 | 1.29 | |

Characteristics of parameter

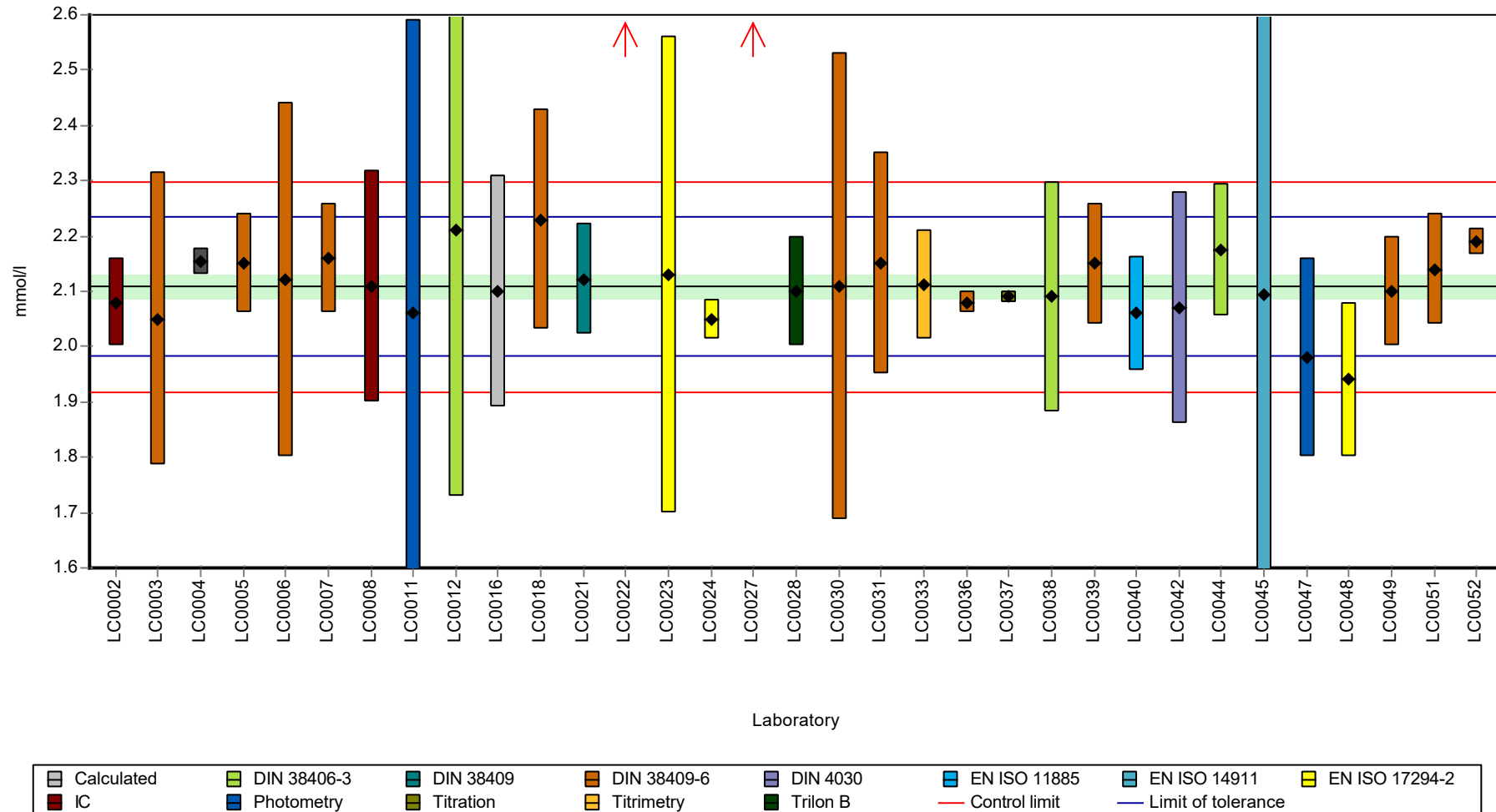
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|--------|
| Mean ± CI (99%) | 2.65 ± 1.13 | 2.11 ± 0.0324 | mmol/l |
| Minimum | 1.94 | 1.94 | mmol/l |
| Maximum | 11.1 | 2.23 | mmol/l |
| Standard deviation | 2.17 | 0.0601 | mmol/l |
| rel. standard deviation | 81.8 | 2.85 % | |
| n | 33 | 31 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total hardness

Graphical presentation of results

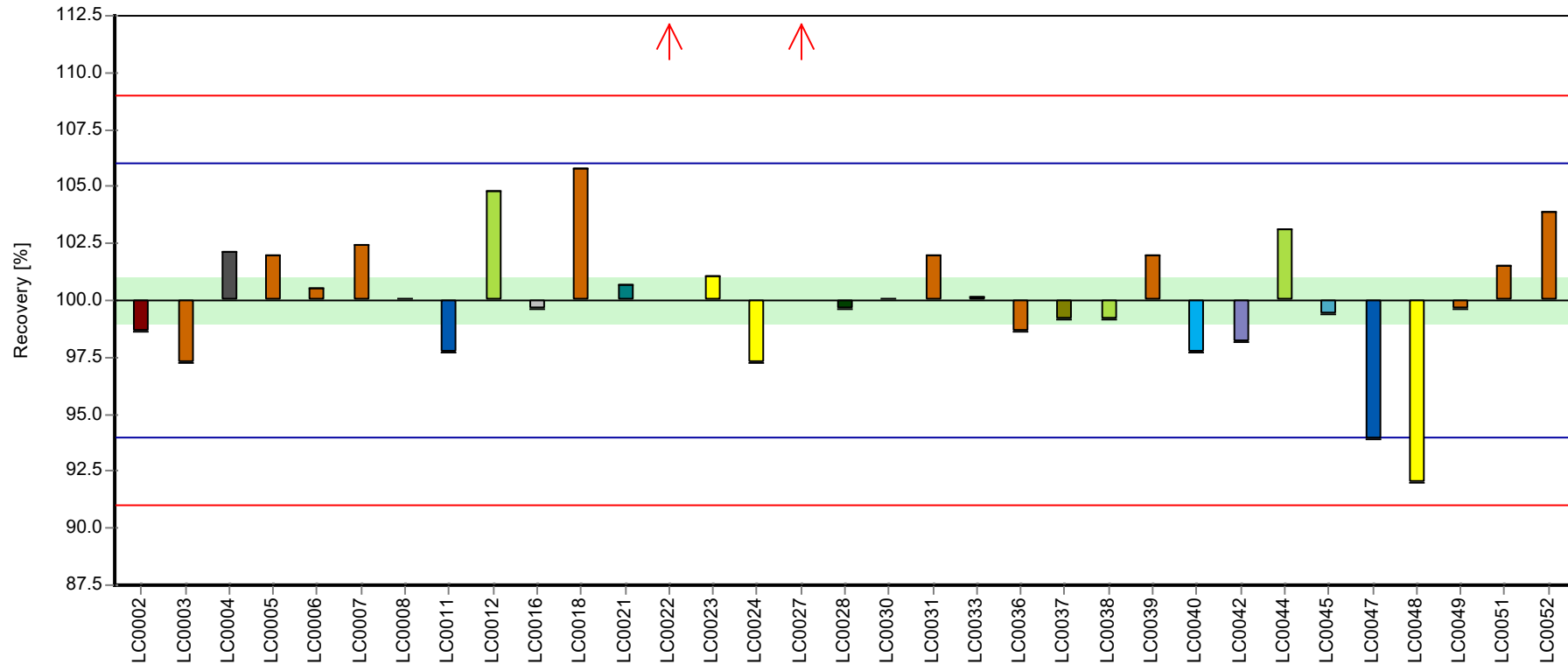
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total hardness

Recovery rate



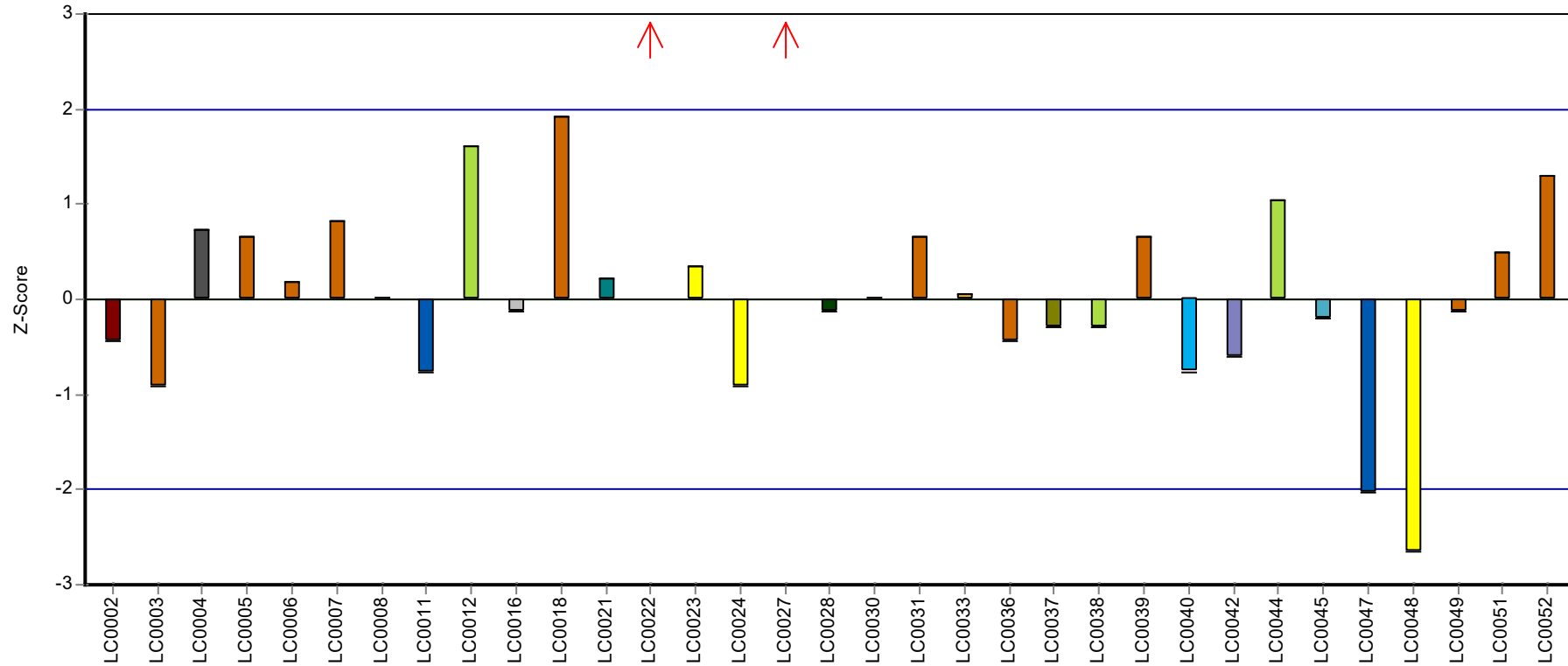
Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total hardness

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total nitrogen

Parameter oriented report

N165 A

Total nitrogen

| | |
|------------------------------|--------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 3.49 ± 0.151 |
| Criterion | 0.29 (8.3 %) |
| Minimum - Maximum | 3.02 - 4.37 |
| Control test value ± U (k=2) | 3.27 ± 0.491 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 3.21 | 0.17 | 91.9 | -0.98 | |
| LC0006 | 3.74 | 0.56 | 107 | 0.85 | |
| LC0007 | - | - | - | - | |
| LC0008 | - | - | - | - | |
| LC0009 | 3.473 | 0.496 | 99.4 | -0.07 | |
| LC0010 | - | - | - | - | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | - | - | - | - | |
| LC0017 | - | - | - | - | |
| LC0018 | 3.5 | 0.7 | 100 | 0.02 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 3.371 | 0.2 | 96.5 | -0.42 | |
| LC0022 | 4.37 | 0.25 | 125 | 3.02 | |
| LC0023 | - | - | - | - | |
| LC0024 | 3.39 | 0.079 | 97 | -0.36 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 3.79 | 0.38 | 108 | 1.02 | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | - | - | - | - | |
| LC0031 | 3.2 | 0.7 | 91.6 | -1.01 | |
| LC0032 | 3.45 | 0.69 | 98.8 | -0.15 | |
| LC0033 | 3.509 | 0.3 | 100 | 0.05 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 3.86 | 0.386 | 110 | 1.26 | |
| LC0037 | - | - | - | - | |
| LC0038 | - | - | - | - | |
| LC0039 | 3.3 | 0.4 | 94.5 | -0.67 | |
| LC0040 | 23.3 | 2.33 | 667 | 68.31 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total nitrogen

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 3.14 | 0.47 | 89.9 | -1.22 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 3.02 | 0.3 | 86.4 | -1.63 | |
| LC0046 | - | - | - | - | |
| LC0047 | - | - | - | - | |
| LC0048 | - | - | - | - | |
| LC0049 | 3.34 | 0.3 | 95.6 | -0.53 | |
| LC0050 | - | - | - | - | |
| LC0051 | 3.43 | 0.371 | 98.2 | -0.22 | |
| LC0052 | 3.79 | 0.0624 | 108 | 1.02 | |

Characteristics of parameter

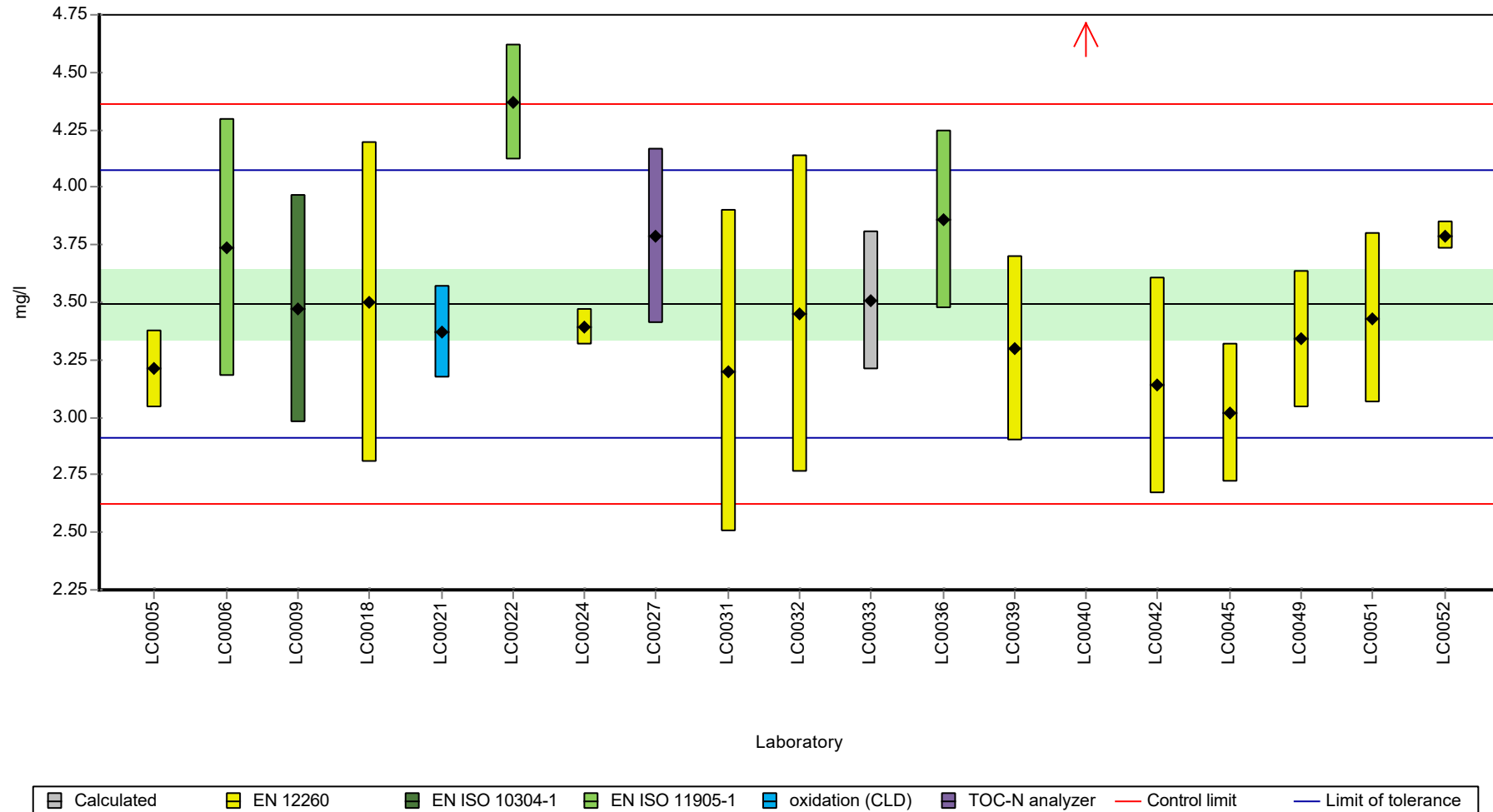
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 4.54 ± 3.13 | 3.49 ± 0.227 | mg/l |
| Minimum | 3.02 | 3.02 | mg/l |
| Maximum | 23.3 | 4.37 | mg/l |
| Standard deviation | 4.55 | 0.321 | mg/l |
| rel. standard deviation | 100 | 9.18 | % |
| n | 19 | 18 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total nitrogen

Graphical presentation of results

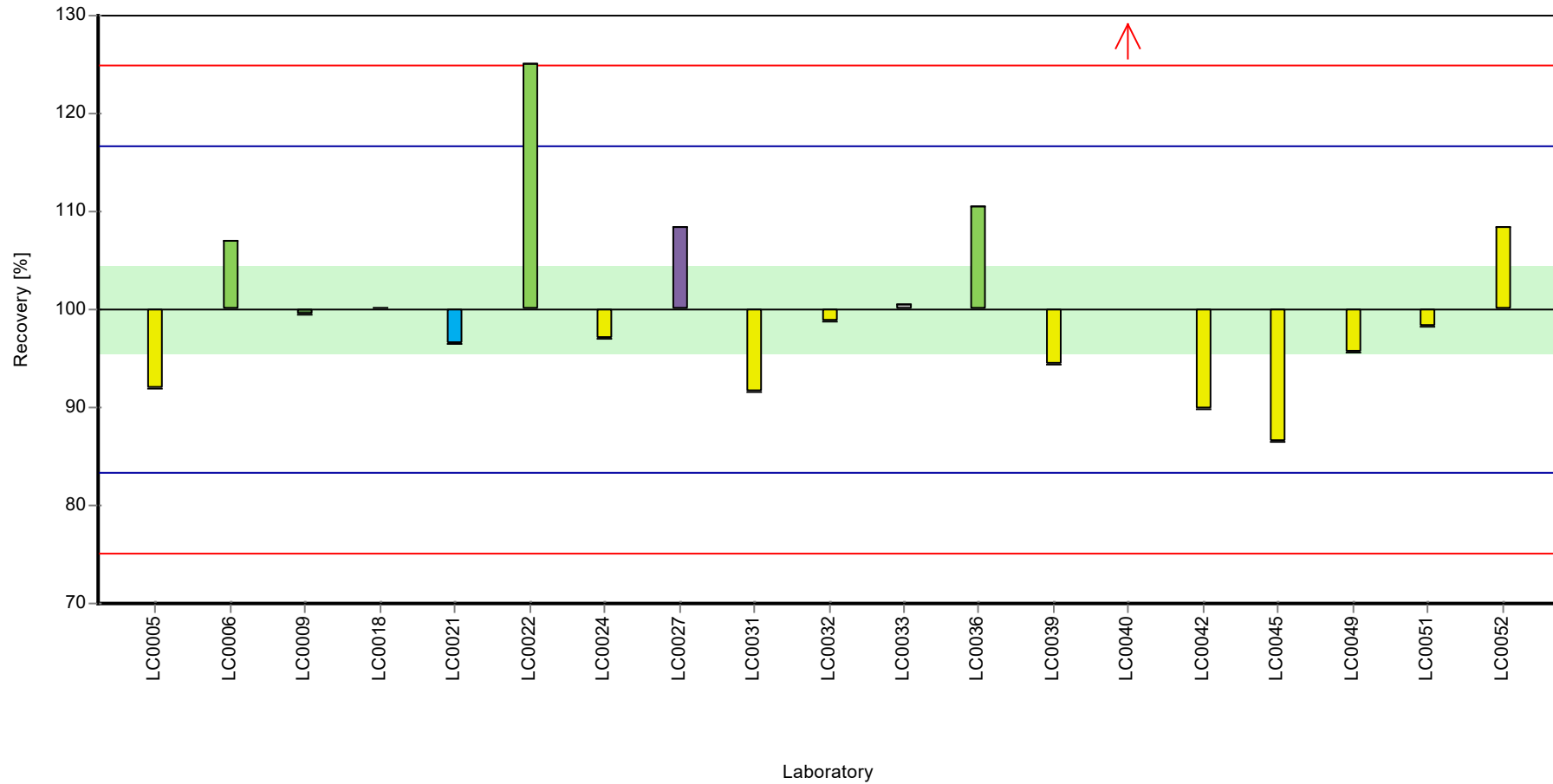
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total nitrogen

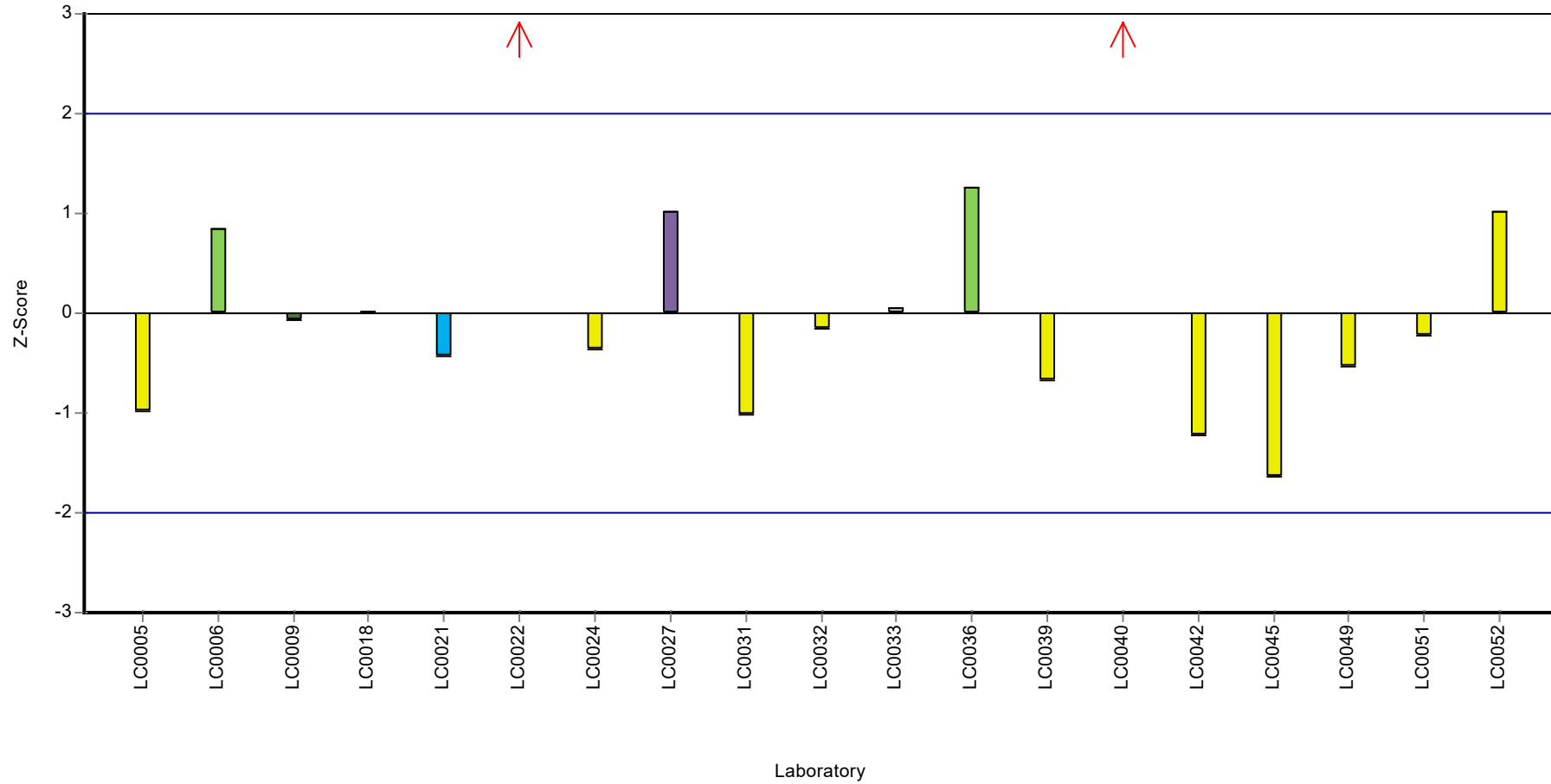
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165A, Parameter: Total nitrogen

Z-score



Calculated
 EN 12260
 EN ISO 10304-1
 EN ISO 11905-1
 oxidation (CLD)
 TOC-N analyzer
 Control limit
 Limit of tolerance

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total nitrogen

Parameter oriented report

N165 B

Total nitrogen

| | |
|------------------------------|---------------|
| Unit | mg/l |
| Assigned value ± U (k=2) | 3.89 ± 0.119 |
| Criterion | 0.323 (8.3 %) |
| Minimum - Maximum | 3.41 - 4.28 |
| Control test value ± U (k=2) | 3.88 ± 0.582 |

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001 | - | - | - | - | |
| LC0002 | - | - | - | - | |
| LC0003 | - | - | - | - | |
| LC0004 | - | - | - | - | |
| LC0005 | 3.59 | 0.18 | 92.3 | -0.93 | |
| LC0006 | 4.18 | 0.63 | 107 | 0.89 | |
| LC0007 | - | - | - | - | |
| LC0008 | - | - | - | - | |
| LC0009 | 3.984 | 0.569 | 102 | 0.29 | |
| LC0010 | - | - | - | - | |
| LC0011 | - | - | - | - | |
| LC0012 | - | - | - | - | |
| LC0013 | - | - | - | - | |
| LC0014 | - | - | - | - | |
| LC0015 | - | - | - | - | |
| LC0016 | - | - | - | - | |
| LC0017 | - | - | - | - | |
| LC0018 | 4.01 | 0.802 | 103 | 0.37 | |
| LC0019 | - | - | - | - | |
| LC0020 | - | - | - | - | |
| LC0021 | 3.795 | 0.2 | 97.5 | -0.3 | |
| LC0022 | 5.33 | 0.31 | 137 | 4.45 | H |
| LC0023 | - | - | - | - | |
| LC0024 | 3.86 | 0.031 | 99.2 | -0.1 | |
| LC0025 | - | - | - | - | |
| LC0026 | - | - | - | - | |
| LC0027 | 4.15 | 0.42 | 107 | 0.8 | |
| LC0028 | - | - | - | - | |
| LC0029 | - | - | - | - | |
| LC0030 | - | - | - | - | |
| LC0031 | 3.67 | 0.8 | 94.3 | -0.69 | |
| LC0032 | 3.91 | 0.782 | 100 | 0.06 | |
| LC0033 | 4.034 | 0.2 | 104 | 0.44 | |
| LC0034 | - | - | - | - | |
| LC0035 | - | - | - | - | |
| LC0036 | 4.21 | 0.42 | 108 | 0.99 | |
| LC0037 | - | - | - | - | |
| LC0038 | - | - | - | - | |
| LC0039 | 3.8 | 0.5 | 97.7 | -0.28 | |
| LC0040 | 17.5 | 1.75 | 450 | 42.13 | H |
| LC0041 | - | - | - | - | |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total nitrogen

| Labcode | Result | ± U | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0042 | 3.55 | 0.53 | 91.2 | -1.06 | |
| LC0043 | - | - | - | - | |
| LC0044 | - | - | - | - | |
| LC0045 | 3.41 | 0.34 | 87.6 | -1.49 | |
| LC0046 | - | - | - | - | |
| LC0047 | - | - | - | - | |
| LC0048 | - | - | - | - | |
| LC0049 | 3.83 | 0.34 | 98.4 | -0.19 | |
| LC0050 | - | - | - | - | |
| LC0051 | 3.89 | 0.421 | 100 | 0.00 | |
| LC0052 | 4.28 | 0.0632 | 110 | 1.2 | |

Characteristics of parameter

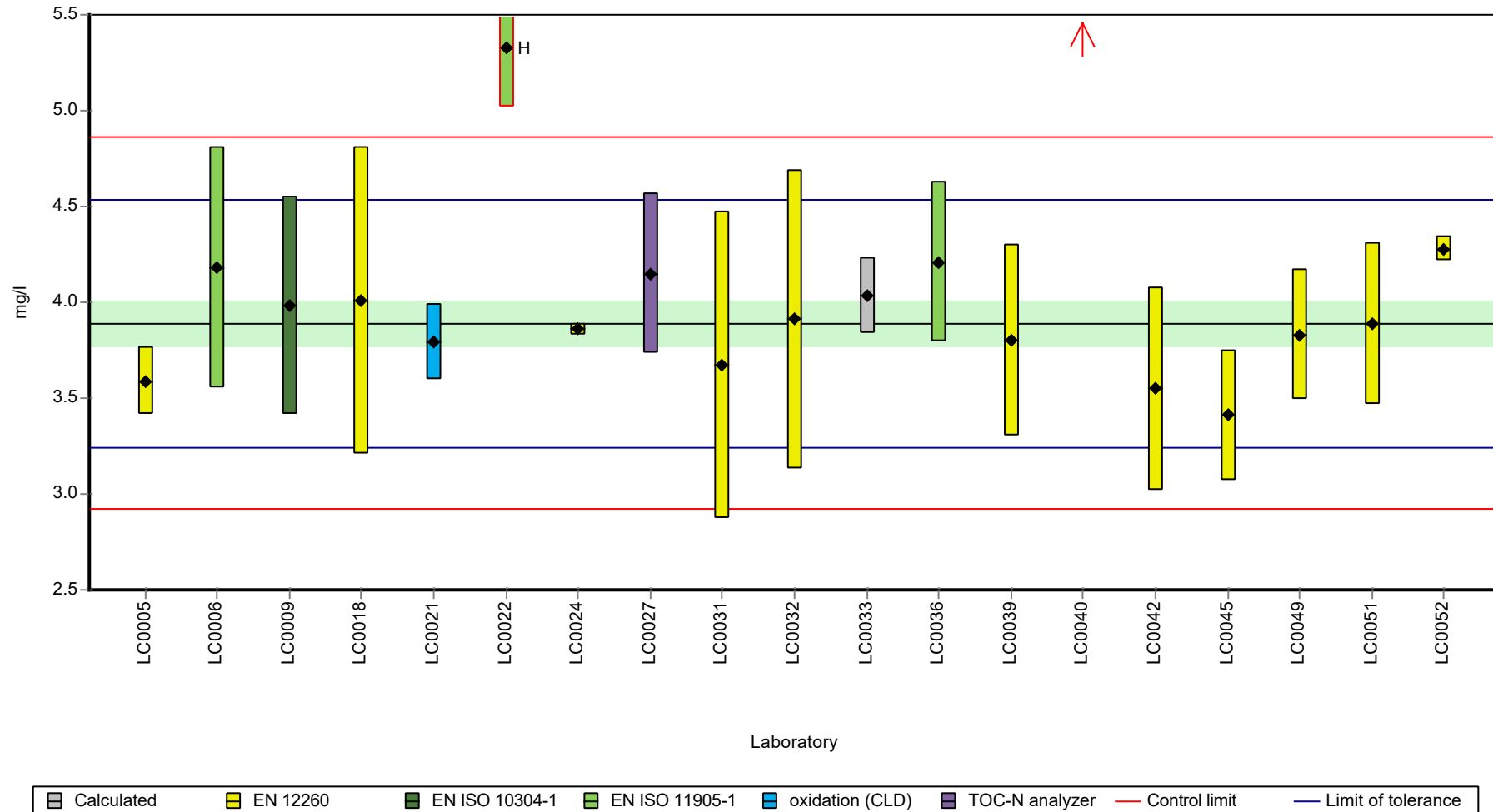
| | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%) | 4.68 ± 2.15 | 3.89 ± 0.178 | mg/l |
| Minimum | 3.41 | 3.41 | mg/l |
| Maximum | 17.5 | 4.28 | mg/l |
| Standard deviation | 3.13 | 0.245 | mg/l |
| rel. standard deviation | 66.8 | 6.28 | % |
| n | 19 | 17 | - |

Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total nitrogen

Graphical presentation of results

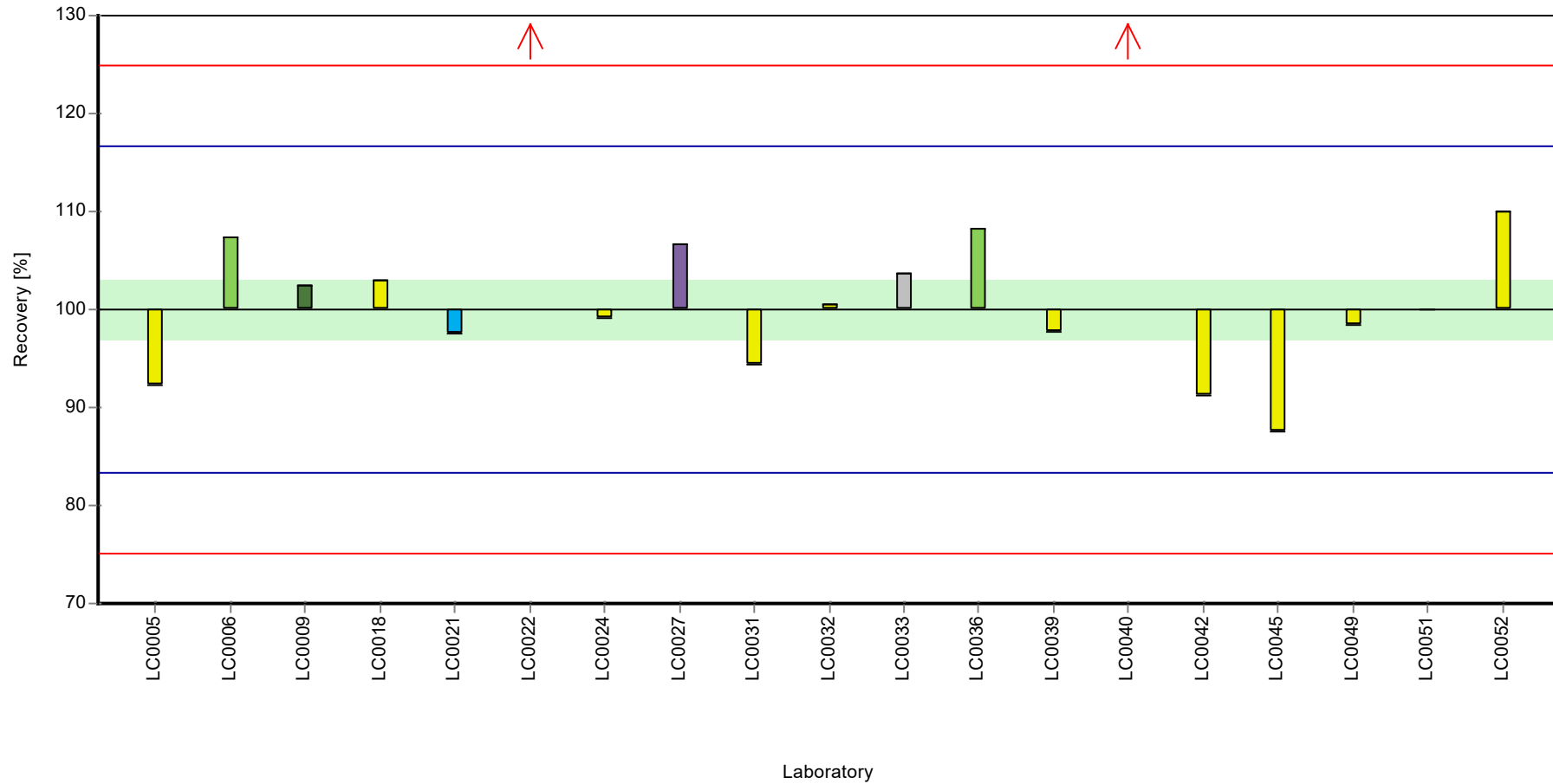
Results



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total nitrogen

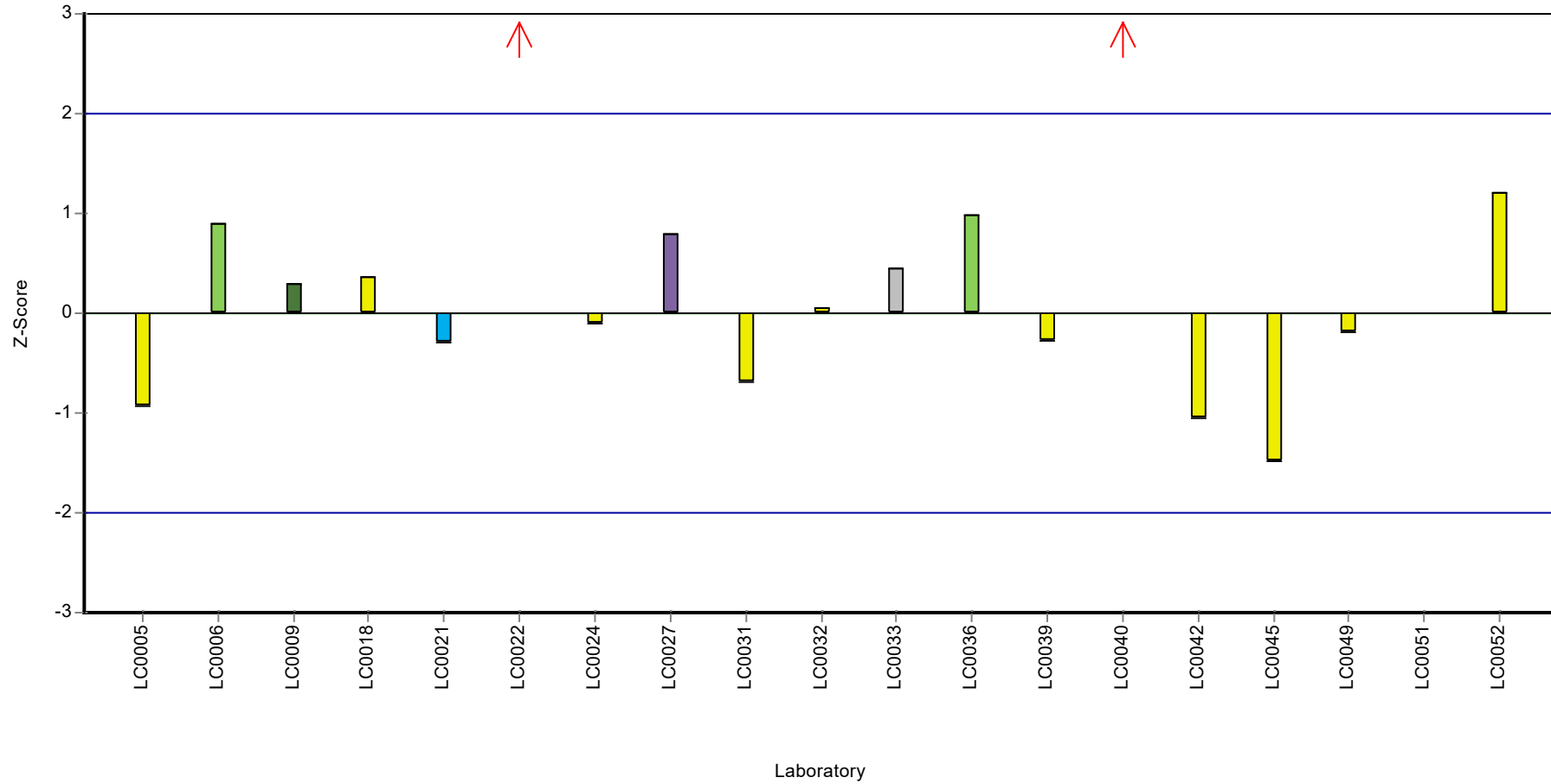
Recovery rate



Parameter oriented report Nutrients/Major Ions N165

Sample: N165B, Parameter: Total nitrogen

Z-score



Calculated
 EN 12260
 EN ISO 10304-1
 EN ISO 11905-1
 oxidation (CLD)
 TOC-N analyzer
 Control limit
 Limit of tolerance

E8. Labororientierte Auswertung / Laboratory oriented report

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.02 | 0.147 | 100 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | 29 ± 0.19 | 0.914 | 108 | 2.32 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

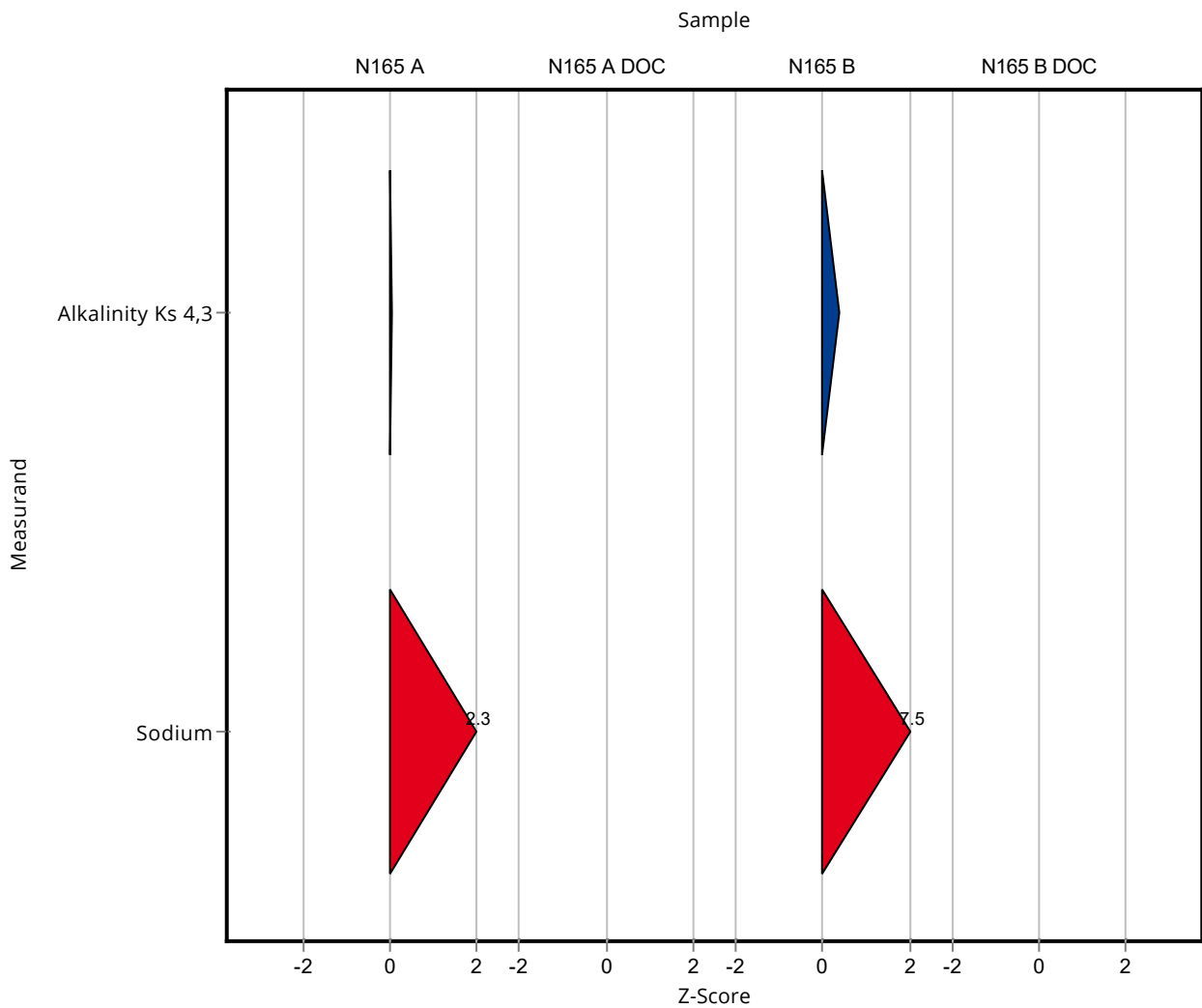
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.38 ± 0.03 | 0.0671 | 101 | 0.40 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | 19.4 ± 0.27 | 0.525 | 126 | 7.53 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.02 | 0.147 | 100 | 0.13 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | 29 ± 0.19 | 0.914 | 108 | 4.07 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

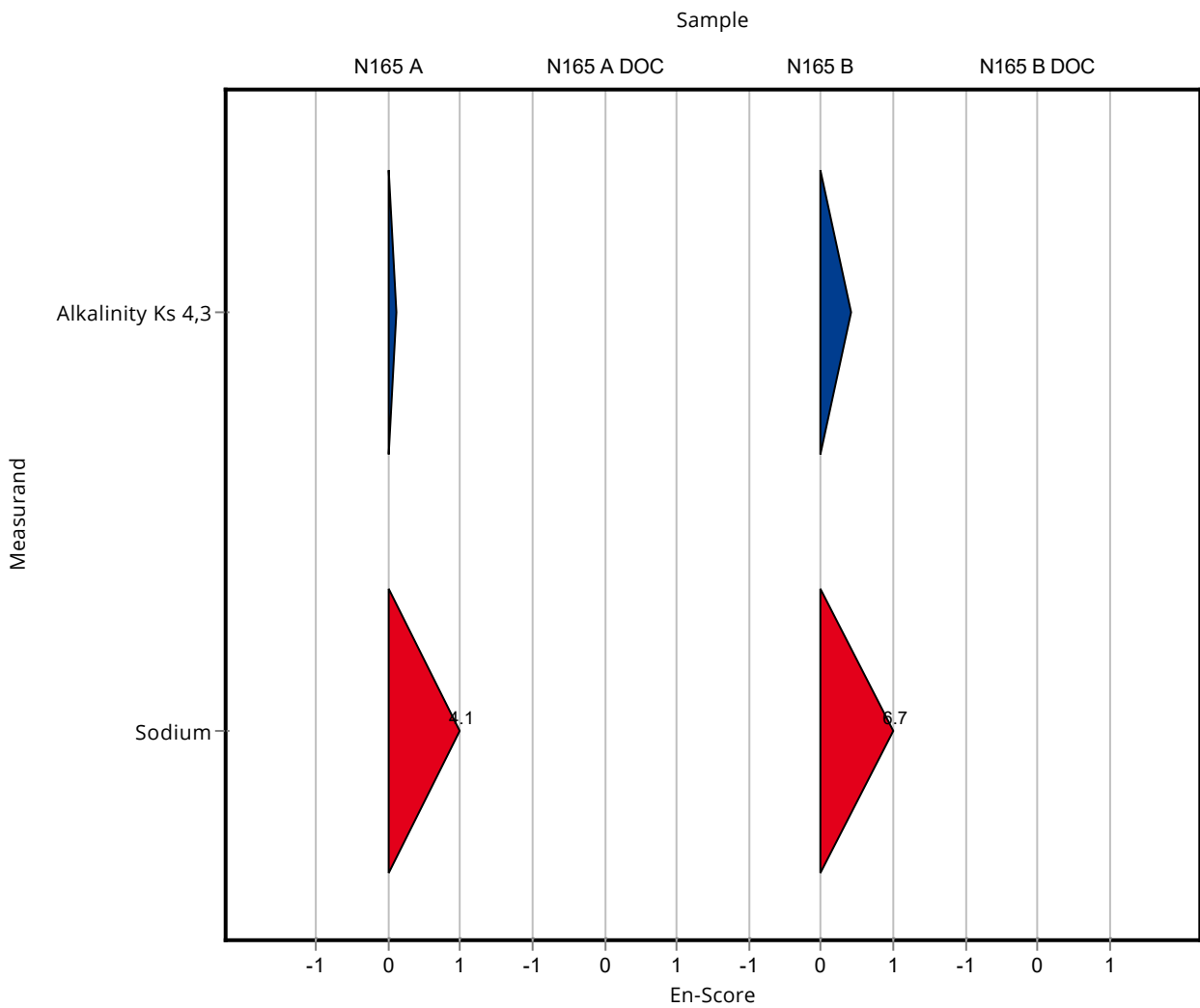
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0001

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.38 ± 0.03 | 0.0671 | 101 | 0.42 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | 19.4 ± 0.27 | 0.525 | 126 | 6.70 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.64 ± 0.16 | 0.147 | 104 | 2.10 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.042 ± 0.007 | 0.00999 | 75.7 | -1.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 124.4 ± 4.85 | 4.34 | 100 | 0.10 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.04 ± 2.73 | 2.3 | 101 | 0.19 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 916 ± 20.2 | 11.9 | 100 | 0.04 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 462.84 ± 9.72 | 8.9 | 104 | 2.01 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.86 ± 1.4 | 1.19 | 100 | 0.01 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.25 ± 0.95 | 0.716 | 99.5 | -0.10 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.014 | 0.011 | 100 | 0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.66 ± 0.31 | 0.154 | 99.7 | -0.15 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.79 ± 0.31 | 0.249 | 100 | 0.00 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.59 ± 1.28 | 0.914 | 98.9 | -0.32 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.33 ± 2.07 | 1.37 | 99.3 | -0.22 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.332 ± 0.17 | 0.131 | 99.4 | -0.20 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

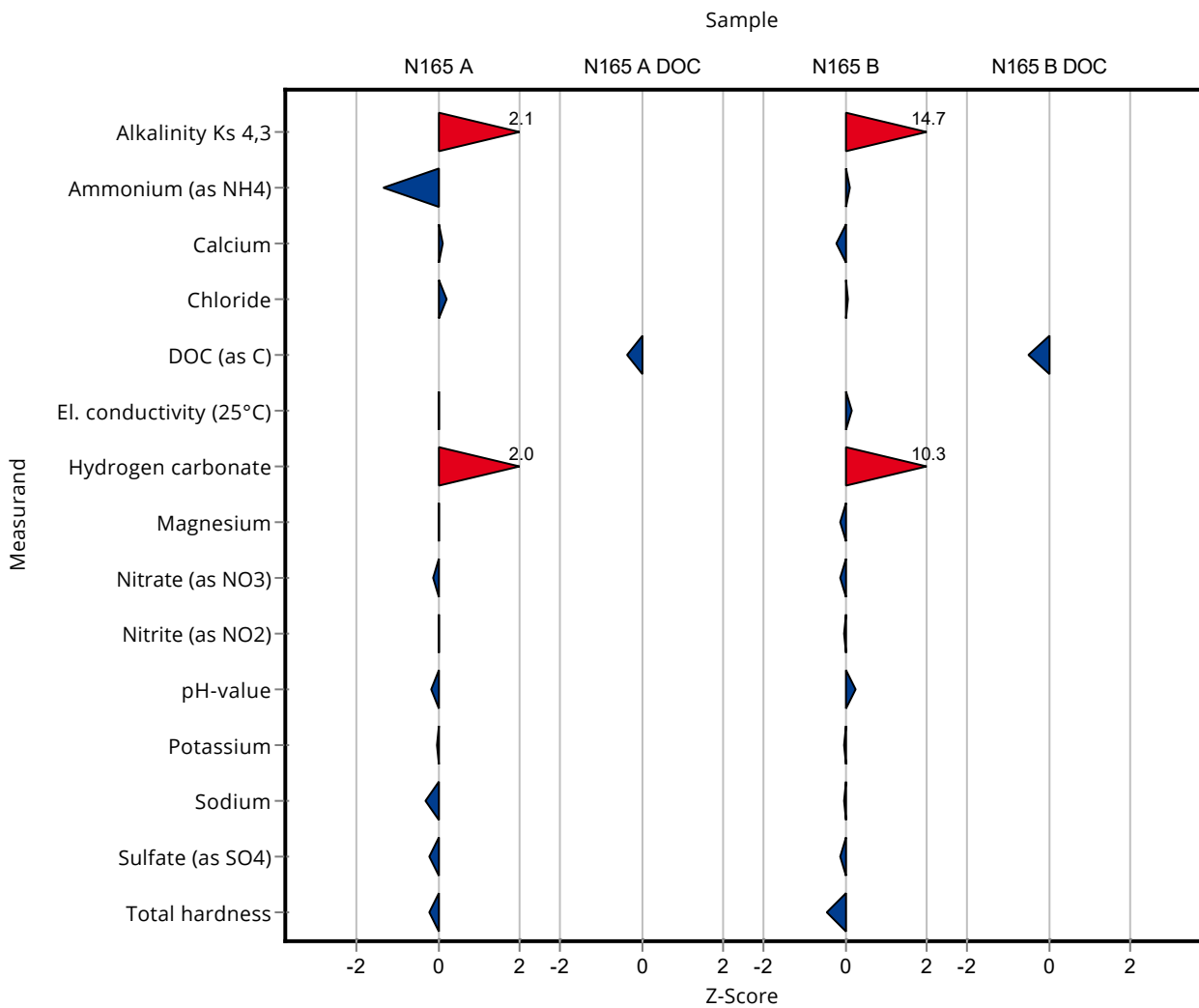
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.31 ± 0.23 | 0.193 | 95 | -0.36 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 4.34 ± 0.09 | 0.0671 | 129 | 14.71 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.028 | 0.0199 | 101 | 0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60 ± 2.34 | 1.87 | 99.3 | -0.23 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.72 ± 1.21 | 1.03 | 100 | 0.08 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 10.6 | 6.24 | 100 | 0.15 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 261.6 ± 5.49 | 5.68 | 129 | 10.33 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.18 ± 0.67 | 0.57 | 99.6 | -0.11 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.73 ± 1.05 | 0.791 | 99.4 | -0.11 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.242 ± 0.017 | 0.0128 | 99.8 | -0.03 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.32 | 0.157 | 101 | 0.25 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.37 ± 0.15 | 0.124 | 99.8 | -0.04 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.44 ± 0.74 | 0.525 | 100 | -0.01 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.66 ± 1.53 | 1.02 | 99.7 | -0.10 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.08 ± 0.08 | 0.0632 | 98.7 | -0.45 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.2 ± 0.56 | 0.337 | 94.8 | -0.52 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.64 ± 0.16 | 0.147 | 104 | 0.95 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.042 ± 0.007 | 0.00999 | 75.7 | -0.93 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 124.4 ± 4.85 | 4.34 | 100 | 0.05 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.04 ± 2.73 | 2.3 | 101 | 0.08 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 916 ± 20.2 | 11.9 | 100 | 0.01 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 462.84 ± 9.72 | 8.9 | 104 | 0.91 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.86 ± 1.4 | 1.19 | 100 | 0.00 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.25 ± 0.95 | 0.716 | 99.5 | -0.04 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.014 | 0.011 | 100 | 0.01 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.66 ± 0.31 | 0.154 | 99.7 | -0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.79 ± 0.31 | 0.249 | 100 | 0.00 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.59 ± 1.28 | 0.914 | 98.9 | -0.11 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.33 ± 2.07 | 1.37 | 99.3 | -0.07 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.332 ± 0.17 | 0.131 | 99.4 | -0.08 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.31 ± 0.23 | 0.193 | 95 | -0.15 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

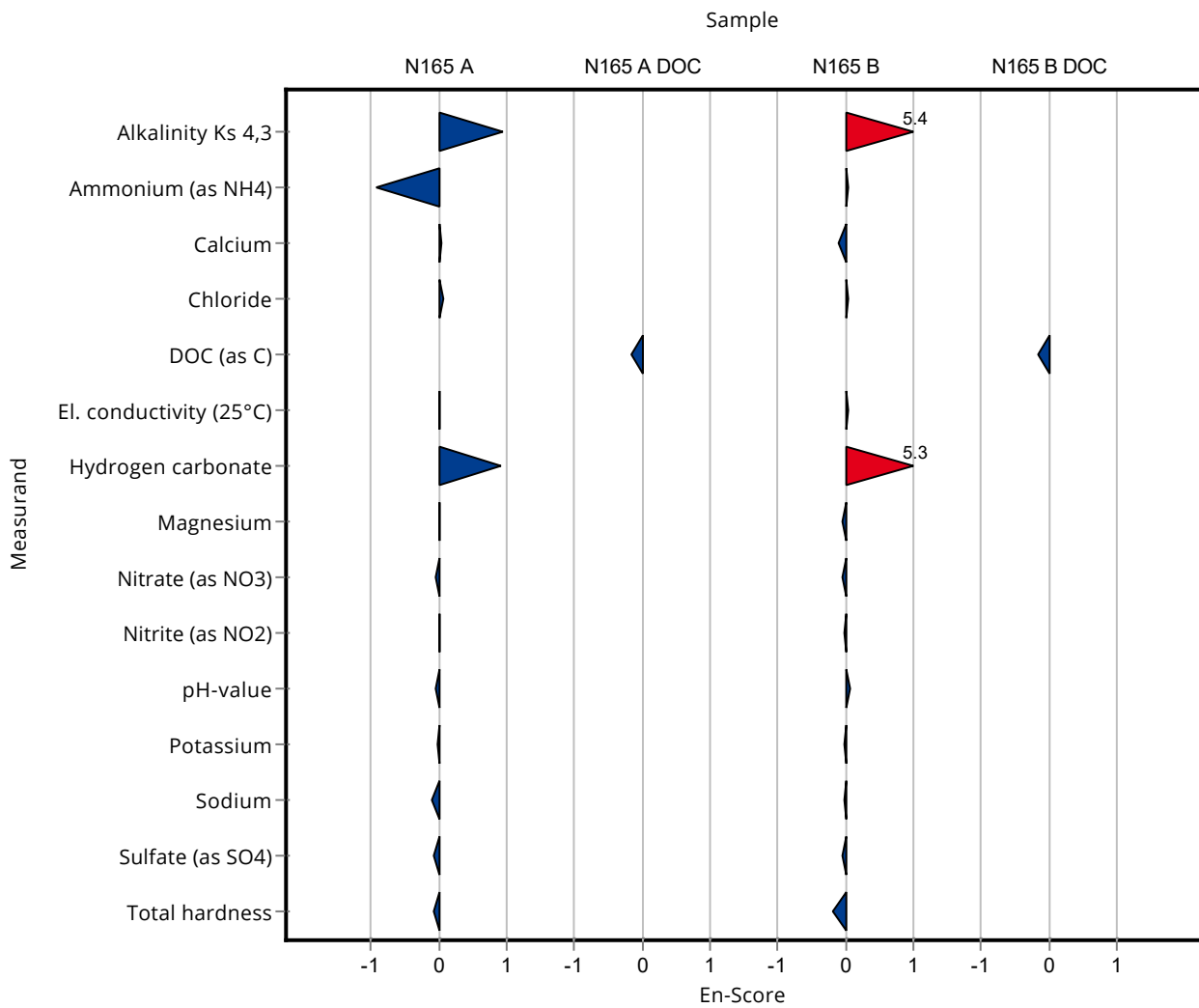
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0002

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 4.34 ± 0.09 | 0.0671 | 129 | 5.44 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.028 | 0.0199 | 101 | 0.04 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60 ± 2.34 | 1.87 | 99.3 | -0.09 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.72 ± 1.21 | 1.03 | 100 | 0.04 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 10.6 | 6.24 | 100 | 0.04 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 261.6 ± 5.49 | 5.68 | 129 | 5.26 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.18 ± 0.67 | 0.57 | 99.6 | -0.05 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.73 ± 1.05 | 0.791 | 99.4 | -0.04 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.242 ± 0.017 | 0.0128 | 99.8 | -0.01 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.32 | 0.157 | 101 | 0.06 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.37 ± 0.15 | 0.124 | 99.8 | -0.02 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.44 ± 0.74 | 0.525 | 100 | 0.00 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.66 ± 1.53 | 1.02 | 99.7 | -0.03 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.08 ± 0.08 | 0.0632 | 98.7 | -0.18 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.2 ± 0.56 | 0.337 | 94.8 | -0.16 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.373 | 0.147 | 98.6 | -0.70 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 56.8 ± 2.488 | 2.3 | 98.6 | -0.35 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.9 ± 4.84 | 1.37 | 101 | 0.19 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.393 ± 0.0391 | 0.0324 | 90.9 | -1.21 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.24 ± 0.549 | 0.131 | 97.3 | -0.90 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

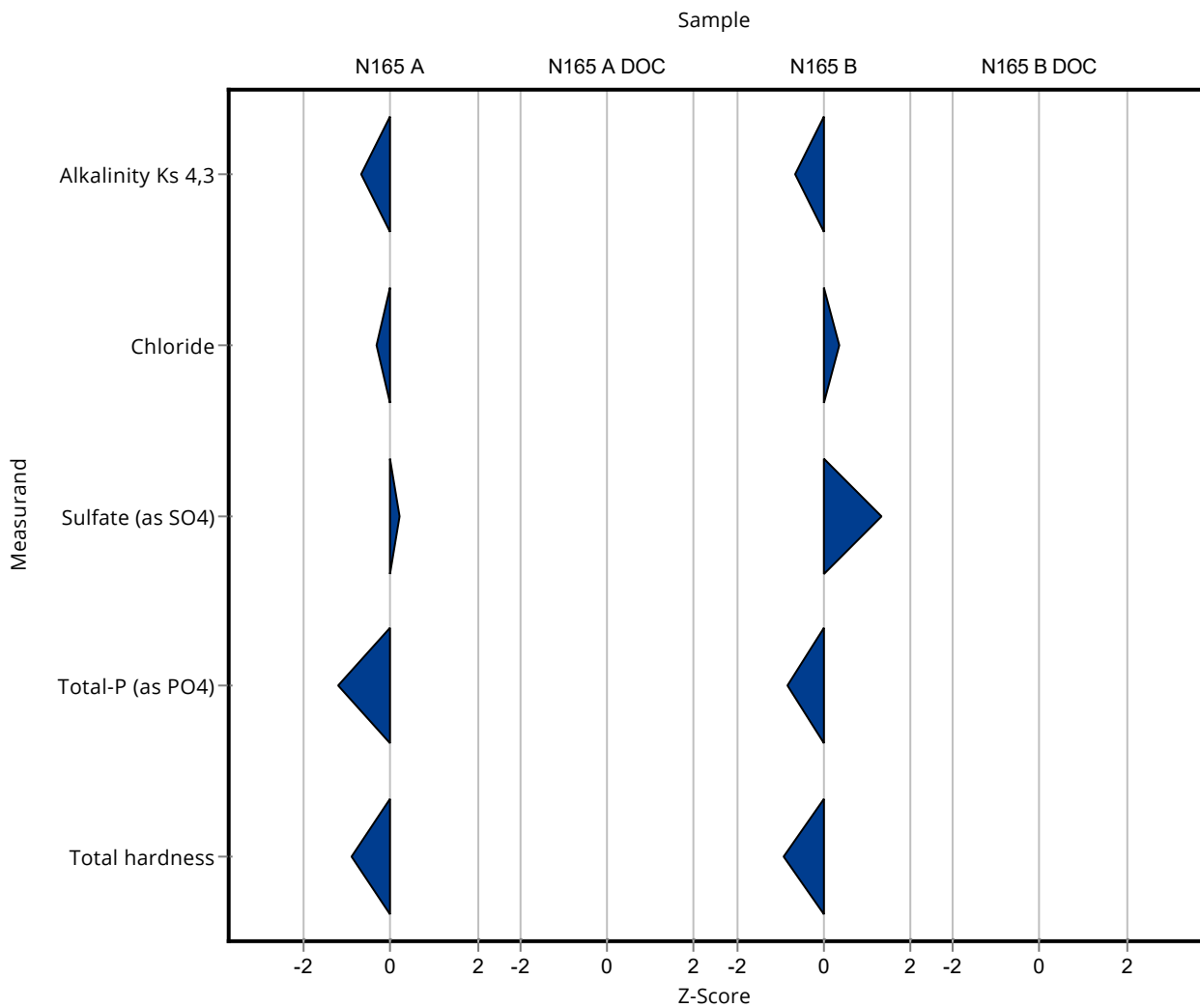
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.171 | 0.0671 | 98.7 | -0.65 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 1.14 | 1.03 | 101 | 0.36 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 32.1 ± 3.71 | 1.02 | 104 | 1.32 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.652 ± 0.164 | 0.133 | 93.6 | -0.86 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.05 ± 0.265 | 0.0632 | 97.2 | -0.92 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.373 | 0.147 | 98.6 | -0.14 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 56.8 ± 2.488 | 2.3 | 98.6 | -0.16 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.9 ± 4.84 | 1.37 | 101 | 0.03 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.393 ± 0.0391 | 0.0324 | 90.9 | -0.50 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.24 ± 0.549 | 0.131 | 97.3 | -0.11 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

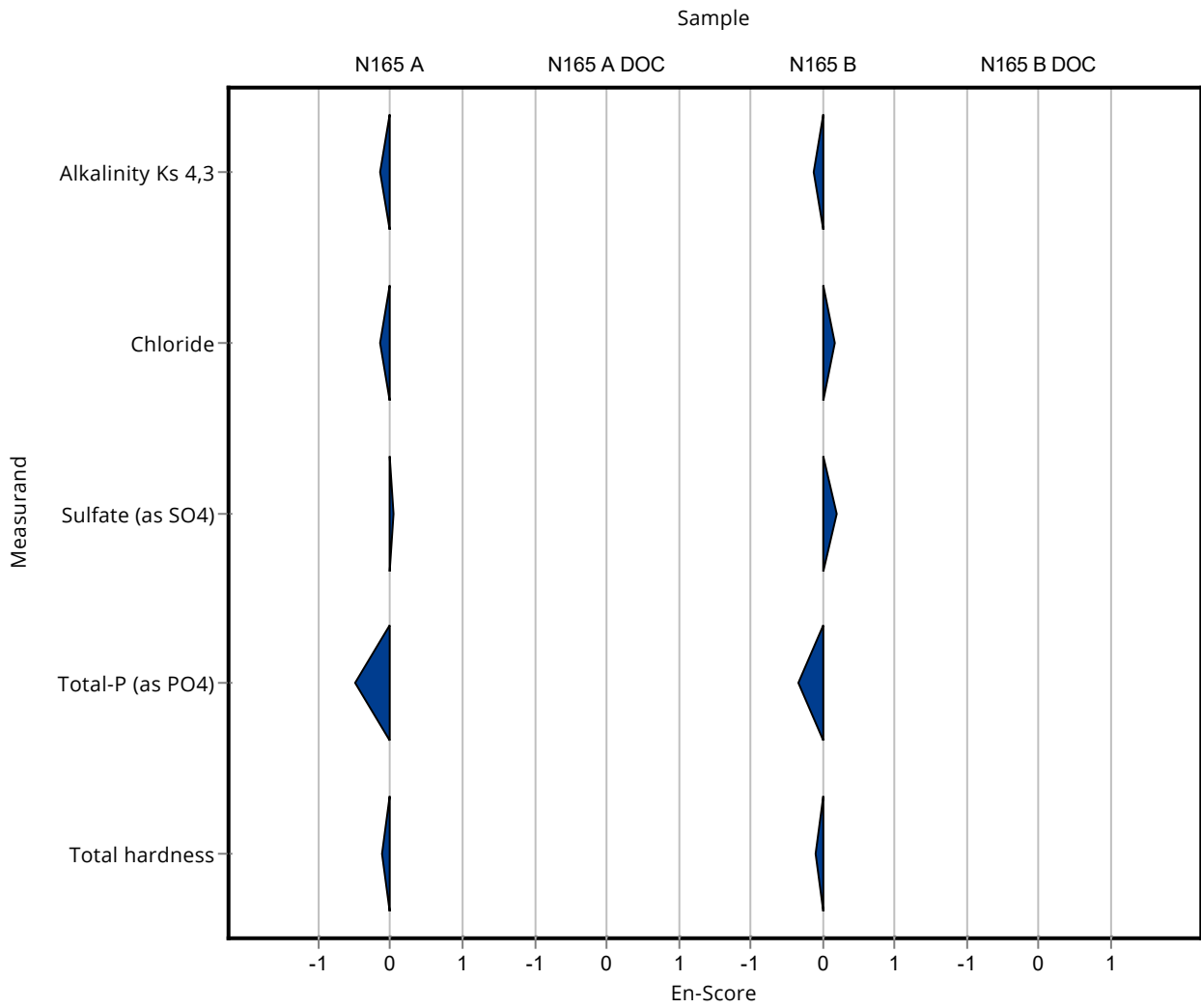
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.171 | 0.0671 | 98.7 | -0.13 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 1.14 | 1.03 | 101 | 0.16 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 32.1 ± 3.71 | 1.02 | 104 | 0.18 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.652 ± 0.164 | 0.133 | 93.6 | -0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.05 ± 0.265 | 0.0632 | 97.2 | -0.11 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.83 ± 0.025 | 0.147 | 93.2 | -3.42 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.04 ± 0.01 | 0.00999 | 72.1 | -1.55 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 121.5 ± 2 | 4.34 | 98 | -0.57 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.85 ± 1 | 2.3 | 102 | 0.54 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 909 ± 14 | 11.9 | 99.3 | -0.55 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 417 ± 10 | 8.9 | 93.7 | -3.14 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.6 ± 0.4 | 1.19 | 106 | 1.46 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.2 ± 1 | 0.716 | 92.2 | -1.57 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.207 ± 0.01 | 0.011 | 99.6 | -0.07 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.69 ± 0.04 | 0.154 | 100 | 0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.2 | 0.249 | 100 | 0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.75 ± 1 | 0.914 | 95.8 | -1.24 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.85 ± 1.5 | 1.37 | 98.1 | -0.57 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.414 ± 0.03 | 0.0324 | 95.8 | -0.56 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.299 ± 0.025 | 0.131 | 98.7 | -0.45 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

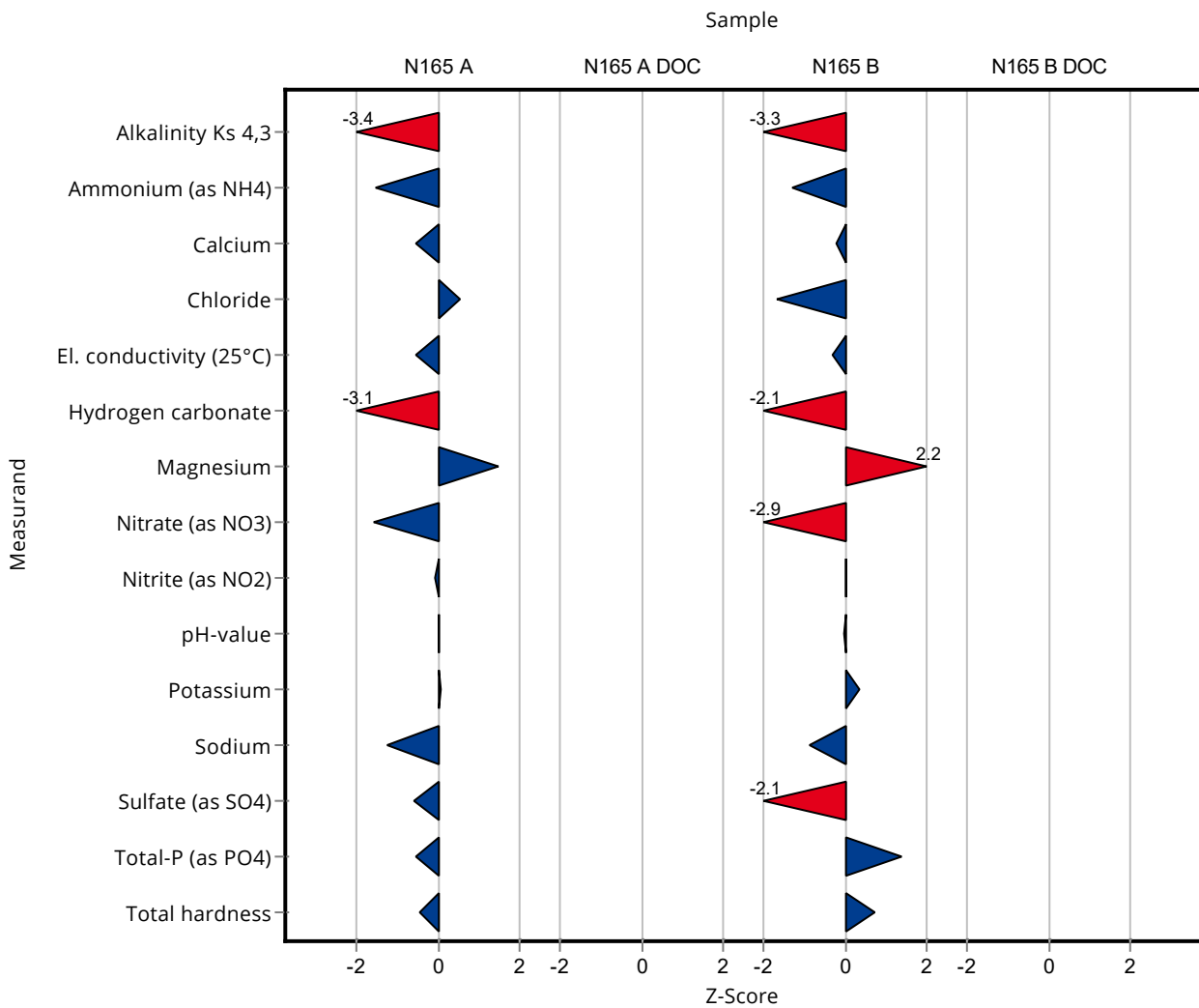
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.13 ± 0.025 | 0.0671 | 93.3 | -3.33 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.14 ± 0.01 | 0.0199 | 84.4 | -1.30 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60 ± 2 | 1.87 | 99.3 | -0.23 |
| Chloride | mg/l | 25.6 ± 0.265 | 23.9 ± 1 | 1.03 | 93.2 | -1.69 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 478 ± 14 | 6.24 | 99.6 | -0.33 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 191 ± 10 | 5.68 | 94.1 | -2.10 |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.5 ± 0.4 | 0.57 | 109 | 2.21 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 13.5 ± 1 | 0.791 | 85.3 | -2.93 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.243 ± 0.01 | 0.0128 | 100 | 0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.04 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.42 ± 0.2 | 0.124 | 102 | 0.36 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 1 | 0.525 | 97.1 | -0.85 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.6 ± 1.5 | 1.02 | 93 | -2.13 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.95 ± 0.03 | 0.133 | 110 | 1.39 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.154 ± 0.025 | 0.0632 | 102 | 0.72 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.83 ± 0.025 | 0.147 | 93.2 | -7.42 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.04 ± 0.01 | 0.00999 | 72.1 | -0.76 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 121.5 ± 2 | 4.34 | 98 | -0.57 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.85 ± 1 | 2.3 | 102 | 0.60 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 909 ± 14 | 11.9 | 99.3 | -0.23 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 417 ± 10 | 8.9 | 93.7 | -1.38 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.6 ± 0.4 | 1.19 | 106 | 1.93 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.2 ± 1 | 0.716 | 92.2 | -0.56 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.207 ± 0.01 | 0.011 | 99.6 | -0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.69 ± 0.04 | 0.154 | 100 | 0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.2 | 0.249 | 100 | 0.05 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.75 ± 1 | 0.914 | 95.8 | -0.56 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.85 ± 1.5 | 1.37 | 98.1 | -0.26 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.414 ± 0.03 | 0.0324 | 95.8 | -0.30 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.299 ± 0.025 | 0.131 | 98.7 | -0.92 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

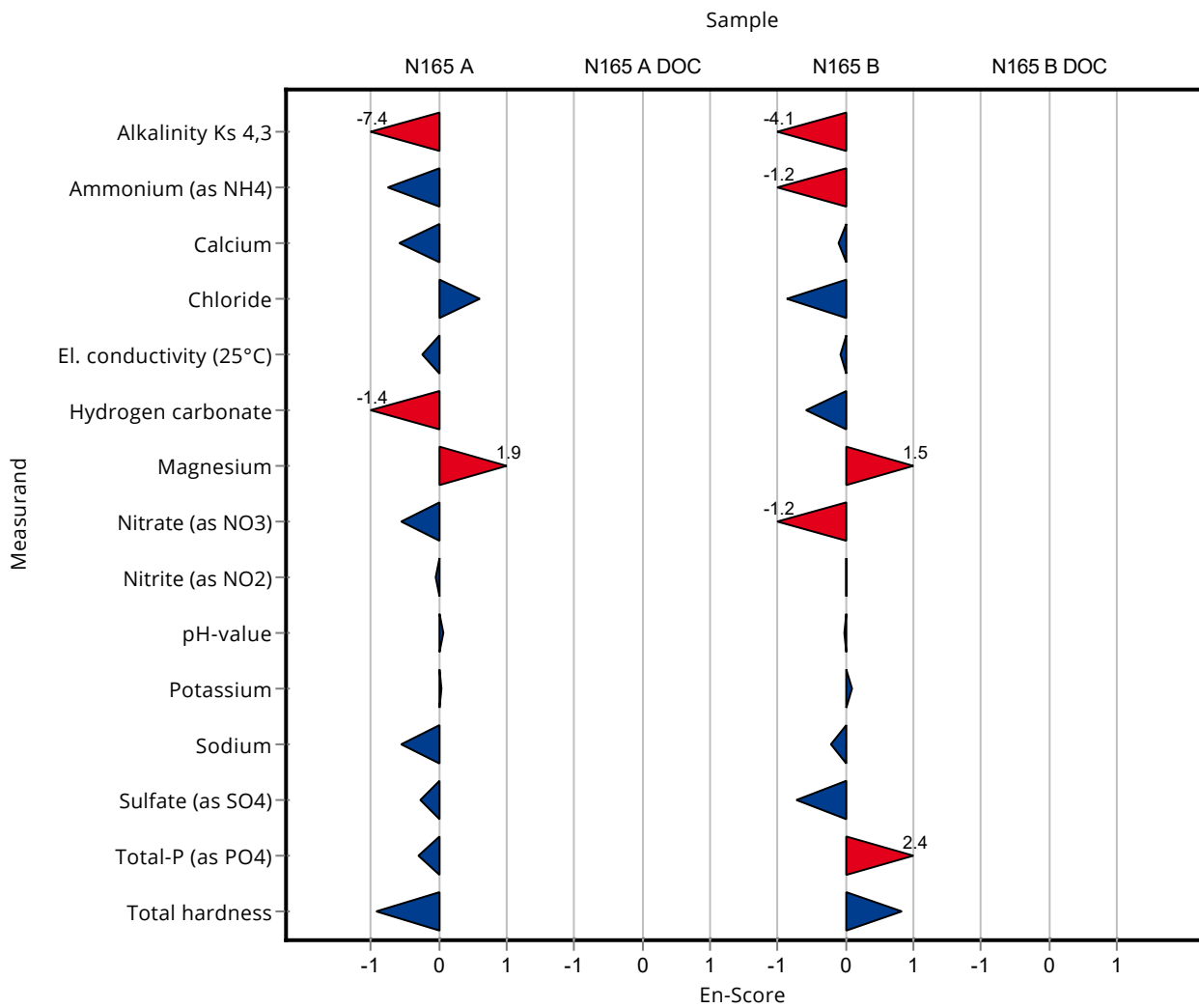
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0004

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.13 ± 0.025 | 0.0671 | 93.3 | -4.11 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.14 ± 0.01 | 0.0199 | 84.4 | -1.24 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60 ± 2 | 1.87 | 99.3 | -0.11 |
| Chloride | mg/l | 25.6 ± 0.265 | 23.9 ± 1 | 1.03 | 93.2 | -0.86 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 478 ± 14 | 6.24 | 99.6 | -0.07 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 191 ± 10 | 5.68 | 94.1 | -0.59 |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.5 ± 0.4 | 0.57 | 109 | 1.53 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 13.5 ± 1 | 0.791 | 85.3 | -1.15 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.243 ± 0.01 | 0.0128 | 100 | 0.03 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.04 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.42 ± 0.2 | 0.124 | 102 | 0.11 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 1 | 0.525 | 97.1 | -0.22 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.6 ± 1.5 | 1.02 | 93 | -0.72 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.95 ± 0.03 | 0.133 | 110 | 2.42 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.154 ± 0.025 | 0.0632 | 102 | 0.84 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.28 ± 0.15 | 0.147 | 99.3 | -0.36 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.003 | 0.00999 | 93.7 | -0.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.055 ± 0.003 | 0.00646 | 93.6 | -0.58 |
| Calcium | mg/l | 124 ± 1.6 | 128.6 ± 5.1 | 4.34 | 104 | 1.07 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.8 ± 1.8 | 2.3 | 100 | 0.09 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 14 | 11.9 | 99.9 | -0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 9 | 8.9 | 99.1 | -0.45 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.3 ± 1.3 | 1.19 | 105 | 1.21 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.9 ± 0.6 | 0.716 | 97.1 | -0.59 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.01 | 0.011 | 101 | 0.11 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.156 ± 0.008 | 0.0392 | 119 | 0.65 |
| pH-value | - | 7.68 ± 0.034 | 7.75 ± 0.15 | 0.154 | 101 | 0.43 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.19 | 0.249 | 100 | 0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.6 ± 0.6 | 0.914 | 103 | 0.79 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.4 ± 1.3 | 1.37 | 99.4 | -0.17 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.448 ± 0.022 | 0.0324 | 104 | 0.49 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.5 ± 0.18 | 0.131 | 103 | 1.09 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.21 ± 0.17 | 0.29 | 91.9 | -0.98 |

Sample: N165ADOC

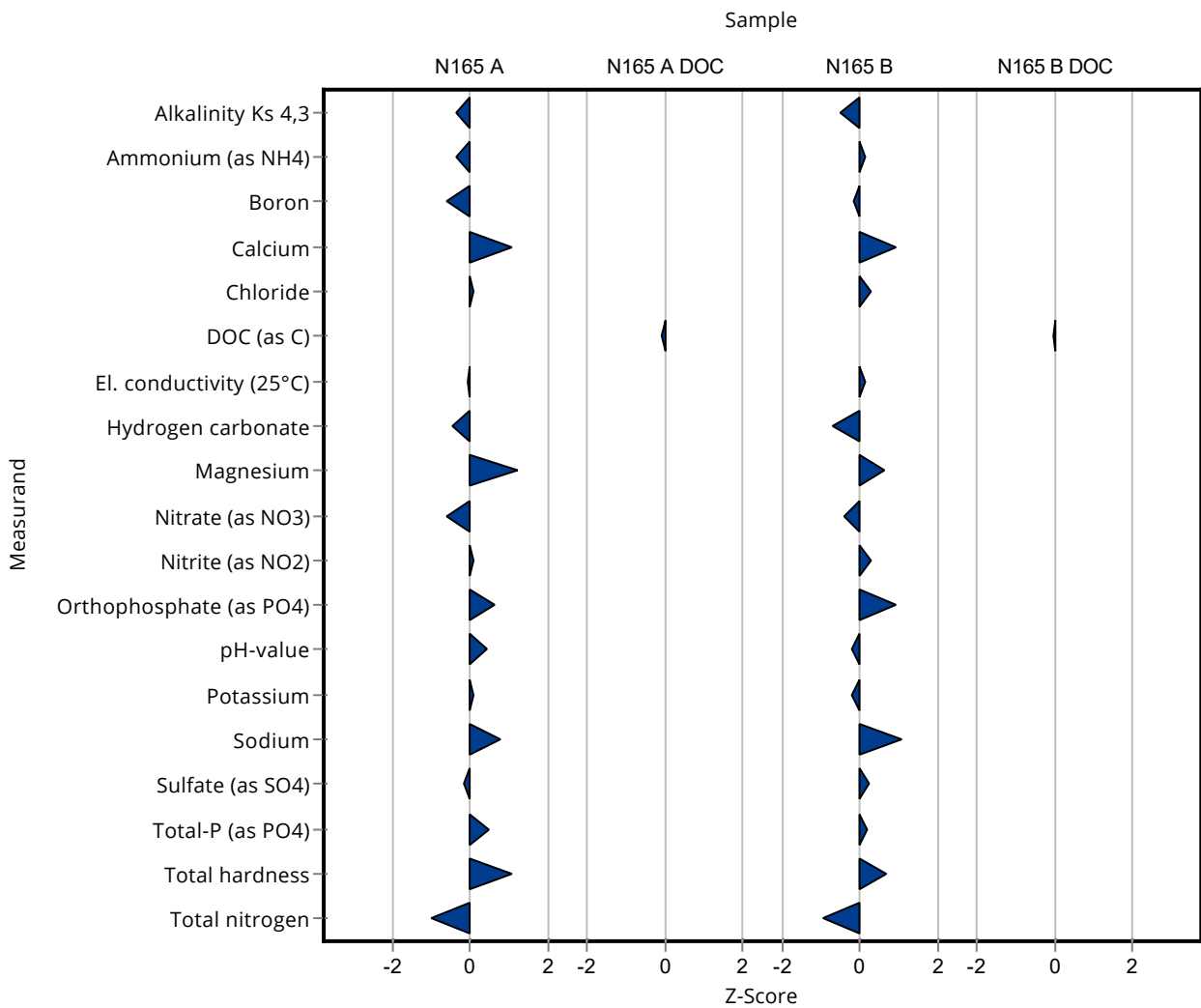
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.36 ± 0.07 | 0.193 | 98.6 | -0.10 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.07 | 0.0671 | 99 | -0.50 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.009 | 0.0199 | 101 | 0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.014 ± 0.001 | 0.00215 | 97.6 | -0.16 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.2 ± 1.9 | 1.87 | 103 | 0.94 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 0.8 | 1.03 | 101 | 0.26 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 8 | 6.24 | 100 | 0.15 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 199 ± 4 | 5.68 | 98.1 | -0.69 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 0.5 | 0.57 | 103 | 0.63 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.5 ± 0.7 | 0.791 | 98 | -0.41 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.013 | 0.0128 | 101 | 0.28 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.166 ± 0.008 | 0.0166 | 110 | 0.93 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.15 | 0.157 | 99.6 | -0.19 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.35 ± 0.12 | 0.124 | 98.9 | -0.21 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 0.4 | 0.525 | 104 | 1.05 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 1.3 | 1.02 | 101 | 0.24 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.79 ± 0.08 | 0.133 | 101 | 0.19 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.09 | 0.0632 | 102 | 0.66 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.59 ± 0.18 | 0.323 | 92.3 | -0.93 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.36 ± 0.17 | 0.337 | 99.6 | -0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.28 ± 0.15 | 0.147 | 99.3 | -0.17 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.003 | 0.00999 | 93.7 | -0.50 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.055 ± 0.003 | 0.00646 | 93.6 | -0.60 |
| Calcium | mg/l | 124 ± 1.6 | 128.6 ± 5.1 | 4.34 | 104 | 0.45 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.8 ± 1.8 | 2.3 | 100 | 0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 14 | 11.9 | 99.9 | -0.02 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 9 | 8.9 | 99.1 | -0.22 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.3 ± 1.3 | 1.19 | 105 | 0.55 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.9 ± 0.6 | 0.716 | 97.1 | -0.35 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.01 | 0.011 | 101 | 0.06 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.156 ± 0.008 | 0.0392 | 119 | 1.11 |
| pH-value | - | 7.68 ± 0.034 | 7.75 ± 0.15 | 0.154 | 101 | 0.22 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.19 | 0.249 | 100 | 0.05 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.6 ± 0.6 | 0.914 | 103 | 0.58 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.4 ± 1.3 | 1.37 | 99.4 | -0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.448 ± 0.022 | 0.0324 | 104 | 0.35 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.5 ± 0.18 | 0.131 | 103 | 0.39 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.21 ± 0.17 | 0.29 | 91.9 | -0.76 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.36 ± 0.07 | 0.193 | 98.6 | -0.12 |

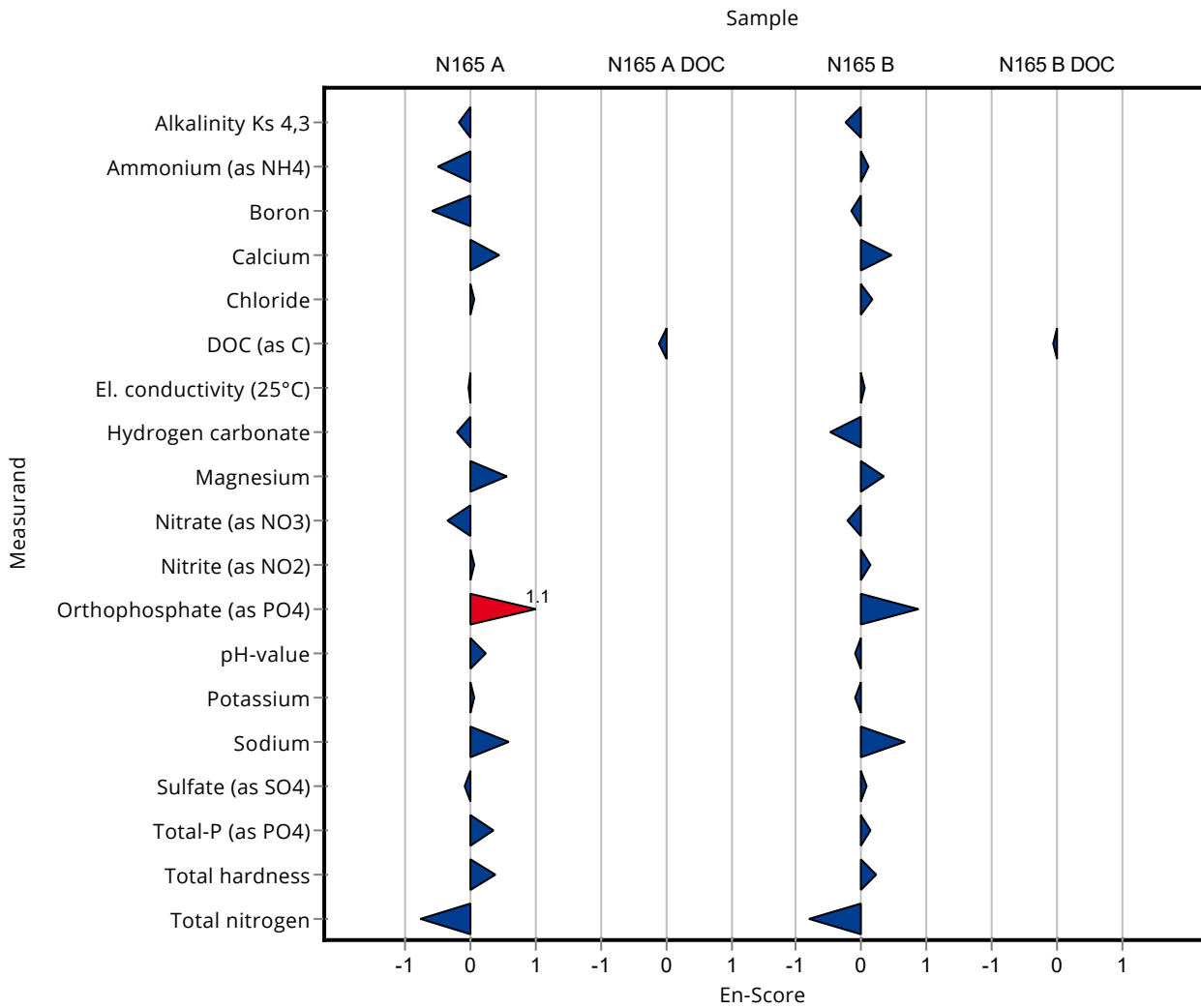
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.07 | 0.0671 | 99 | -0.24 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.009 | 0.0199 | 101 | 0.12 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.014 ± 0.001 | 0.00215 | 97.6 | -0.15 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.2 ± 1.9 | 1.87 | 103 | 0.45 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 0.8 | 1.03 | 101 | 0.16 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 8 | 6.24 | 100 | 0.06 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 199 ± 4 | 5.68 | 98.1 | -0.47 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 0.5 | 0.57 | 103 | 0.35 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.5 ± 0.7 | 0.791 | 98 | -0.23 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.013 | 0.0128 | 101 | 0.14 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.166 ± 0.008 | 0.0166 | 110 | 0.89 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.15 | 0.157 | 99.6 | -0.10 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.35 ± 0.12 | 0.124 | 98.9 | -0.11 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 0.4 | 0.525 | 104 | 0.66 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 1.3 | 1.02 | 101 | 0.09 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.79 ± 0.08 | 0.133 | 101 | 0.15 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.09 | 0.0632 | 102 | 0.23 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.59 ± 0.18 | 0.323 | 92.3 | -0.80 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.36 ± 0.17 | 0.337 | 99.6 | -0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.58 | 0.147 | 98.6 | -0.70 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0524 ± 0.0042 | 0.00999 | 94.4 | -0.31 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0644 ± 0.0084 | 0.00646 | 110 | 0.88 |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 18 | 4.34 | 99.2 | -0.22 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.4 ± 5.8 | 2.3 | 101 | 0.35 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 893 ± 27 | 11.9 | 97.5 | -1.90 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 35 | 8.9 | 99.1 | -0.45 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.6 ± 3.6 | 1.19 | 99.2 | -0.21 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.1 ± 1.5 | 0.716 | 105 | 1.09 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.023 | 0.011 | 100 | 0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.117 ± 0.0094 | 0.0392 | 89.5 | -0.35 |
| pH-value | - | 7.68 ± 0.034 | 7.69 ± 0.23 | 0.154 | 100 | 0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.54 ± 0.68 | 0.249 | 94.8 | -1.01 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 3.5 | 0.914 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 6.8 | 1.37 | 102 | 0.48 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.442 ± 0.035 | 0.0324 | 102 | 0.30 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.29 ± 0.64 | 0.131 | 98.4 | -0.52 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.74 ± 0.56 | 0.29 | 107 | 0.85 |

Sample: N165ADOC

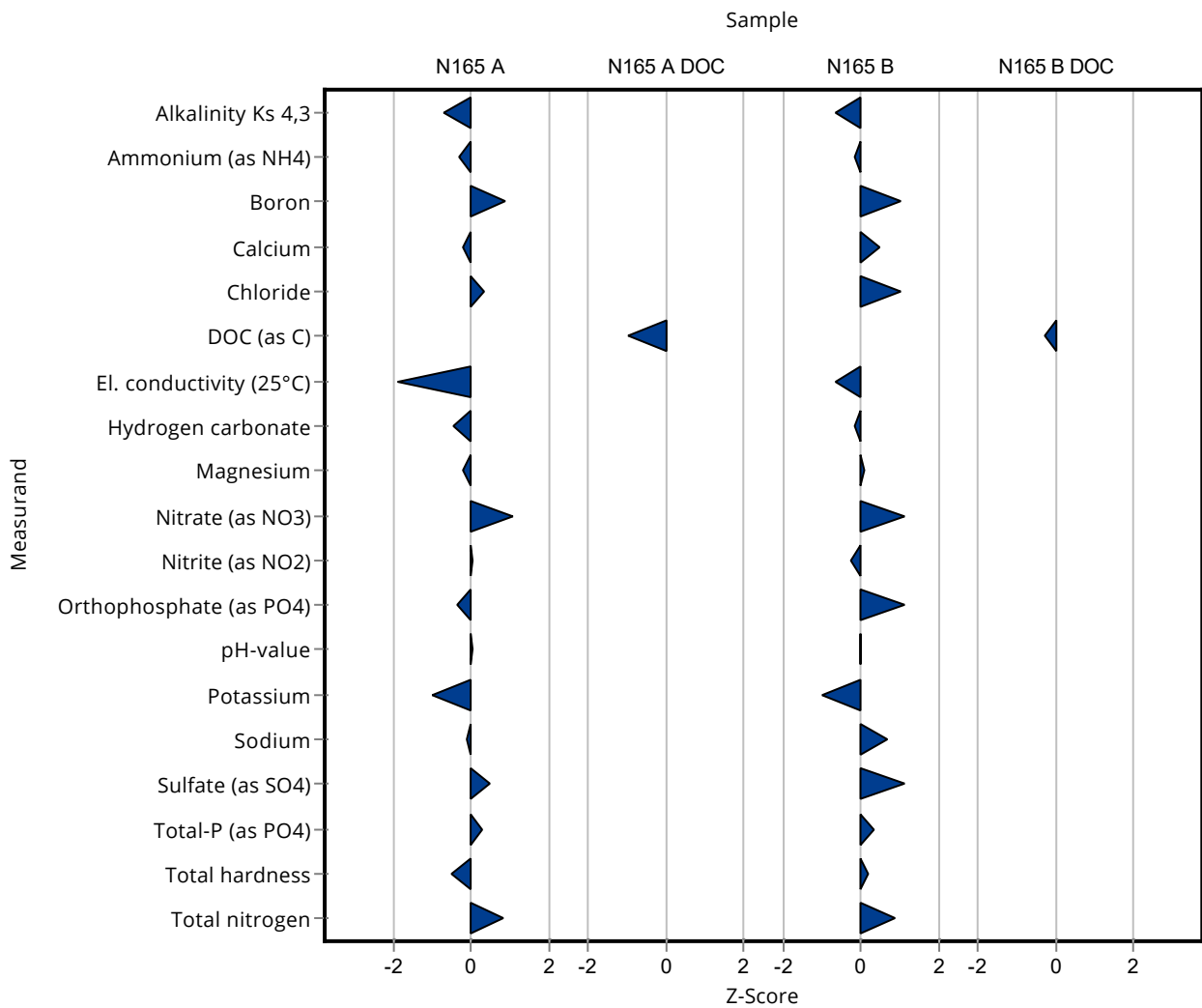
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.19 ± 0.24 | 0.193 | 86.3 | -0.98 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.26 | 0.0671 | 98.7 | -0.65 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.163 ± 0.013 | 0.0199 | 98.3 | -0.14 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0165 ± 0.0021 | 0.00215 | 115 | 1.00 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.3 ± 9.2 | 1.87 | 101 | 0.46 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.7 ± 2.7 | 1.03 | 104 | 1.04 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 14 | 6.24 | 99.2 | -0.65 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202 ± 16 | 5.68 | 99.6 | -0.16 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 1.7 | 0.57 | 100 | 0.10 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.7 ± 1.7 | 0.791 | 106 | 1.11 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.239 ± 0.026 | 0.0128 | 98.6 | -0.27 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.169 ± 0.014 | 0.0166 | 112 | 1.11 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.24 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.25 ± 0.23 | 0.124 | 94.7 | -1.02 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 2.1 | 0.525 | 102 | 0.67 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.9 ± 5.1 | 1.02 | 104 | 1.13 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.14 | 0.133 | 103 | 0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.12 ± 0.32 | 0.0632 | 101 | 0.19 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.18 ± 0.63 | 0.323 | 107 | 0.89 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.27 ± 0.65 | 0.337 | 96.9 | -0.31 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.58 | 0.147 | 98.6 | -0.09 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0524 ± 0.0042 | 0.00999 | 94.4 | -0.34 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0644 ± 0.0084 | 0.00646 | 110 | 0.34 |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 18 | 4.34 | 99.2 | -0.03 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.4 ± 5.8 | 2.3 | 101 | 0.07 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 893 ± 27 | 11.9 | 97.5 | -0.42 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 35 | 8.9 | 99.1 | -0.06 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.6 ± 3.6 | 1.19 | 99.2 | -0.03 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.1 ± 1.5 | 0.716 | 105 | 0.26 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.023 | 0.011 | 100 | 0.00 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.117 ± 0.0094 | 0.0392 | 89.5 | -0.55 |
| pH-value | - | 7.68 ± 0.034 | 7.69 ± 0.23 | 0.154 | 100 | 0.01 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.54 ± 0.68 | 0.249 | 94.8 | -0.18 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 3.5 | 0.914 | 99.7 | -0.01 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 6.8 | 1.37 | 102 | 0.05 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.442 ± 0.035 | 0.0324 | 102 | 0.14 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.29 ± 0.64 | 0.131 | 98.4 | -0.05 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.74 ± 0.56 | 0.29 | 107 | 0.22 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.19 ± 0.24 | 0.193 | 86.3 | -0.39 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

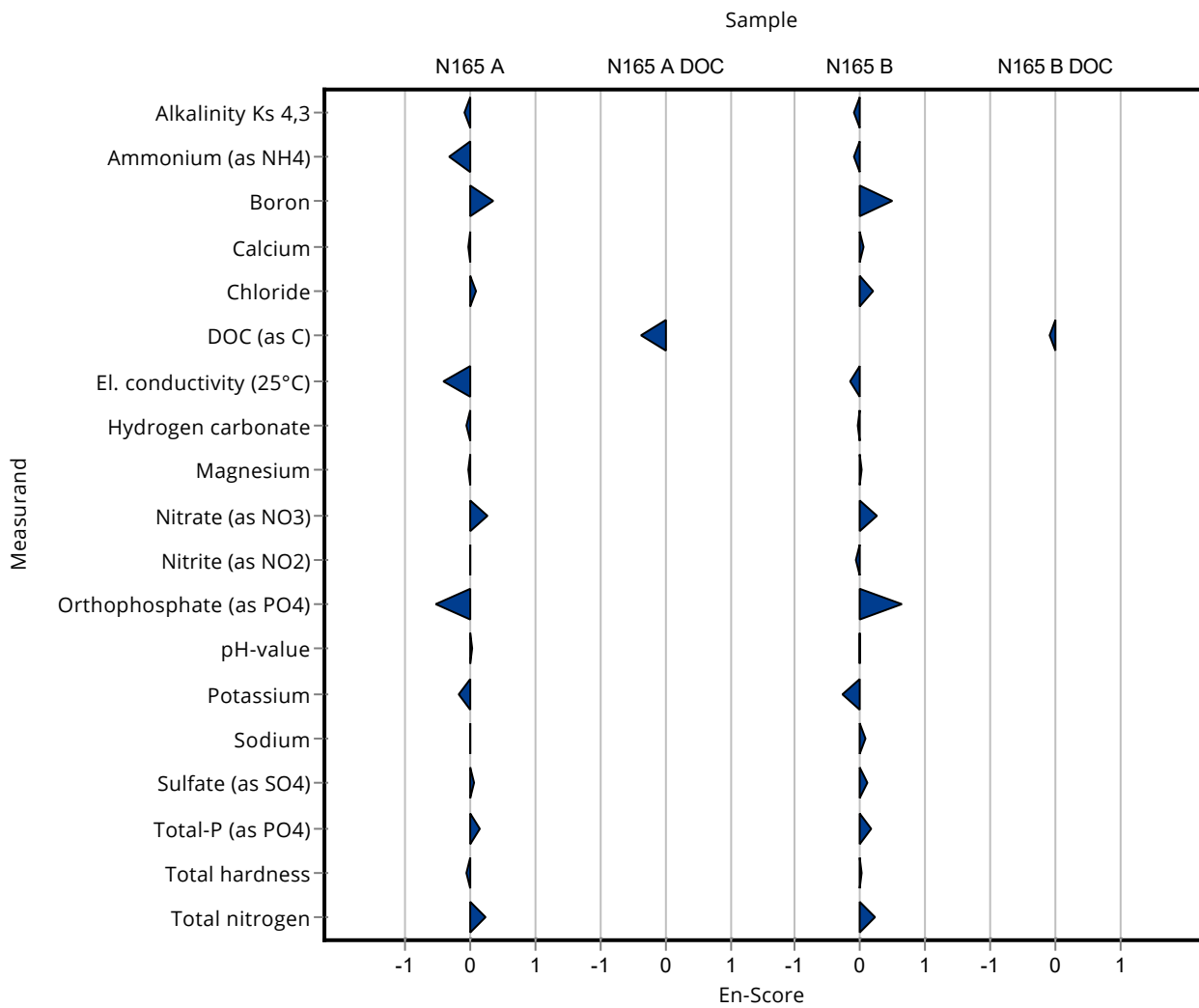
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0006

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.26 | 0.0671 | 98.7 | -0.08 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.163 ± 0.013 | 0.0199 | 98.3 | -0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0165 ± 0.0021 | 0.00215 | 115 | 0.49 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.3 ± 9.2 | 1.87 | 101 | 0.05 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.7 ± 2.7 | 1.03 | 104 | 0.20 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 14 | 6.24 | 99.2 | -0.14 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202 ± 16 | 5.68 | 99.6 | -0.03 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 1.7 | 0.57 | 100 | 0.02 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.7 ± 1.7 | 0.791 | 106 | 0.26 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.239 ± 0.026 | 0.0128 | 98.6 | -0.07 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.169 ± 0.014 | 0.0166 | 112 | 0.64 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.24 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.25 ± 0.23 | 0.124 | 94.7 | -0.27 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 2.1 | 0.525 | 102 | 0.08 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.9 ± 5.1 | 1.02 | 104 | 0.11 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.14 | 0.133 | 103 | 0.16 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.12 ± 0.32 | 0.0632 | 101 | 0.02 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.18 ± 0.63 | 0.323 | 107 | 0.23 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.27 ± 0.65 | 0.337 | 96.9 | -0.08 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.36 ± 0.52 | 0.147 | 100 | 0.19 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.053 ± 0.016 | 0.00999 | 95.5 | -0.25 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 127 ± 10 | 4.34 | 102 | 0.70 |
| Chloride | mg/l | 57.6 ± 0.558 | 57 ± 4.7 | 2.3 | 99 | -0.26 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 816 ± 16 | 11.9 | 89.1 | -8.37 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449 ± 35.9 | 8.9 | 101 | 0.45 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.6 ± 1.2 | 1.19 | 103 | 0.63 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.8 ± 1.1 | 0.716 | 96.4 | -0.73 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.212 ± 0.021 | 0.011 | 102 | 0.38 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.087 ± 0.013 | 0.0392 | 66.6 | -1.11 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.5 | 0.249 | 100 | 0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.9 ± 1.6 | 0.914 | 100 | 0.02 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.3 ± 2.5 | 1.37 | 99.2 | -0.25 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.423 ± 0.055 | 0.0324 | 97.9 | -0.28 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.43 ± 0.3 | 0.131 | 102 | 0.55 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

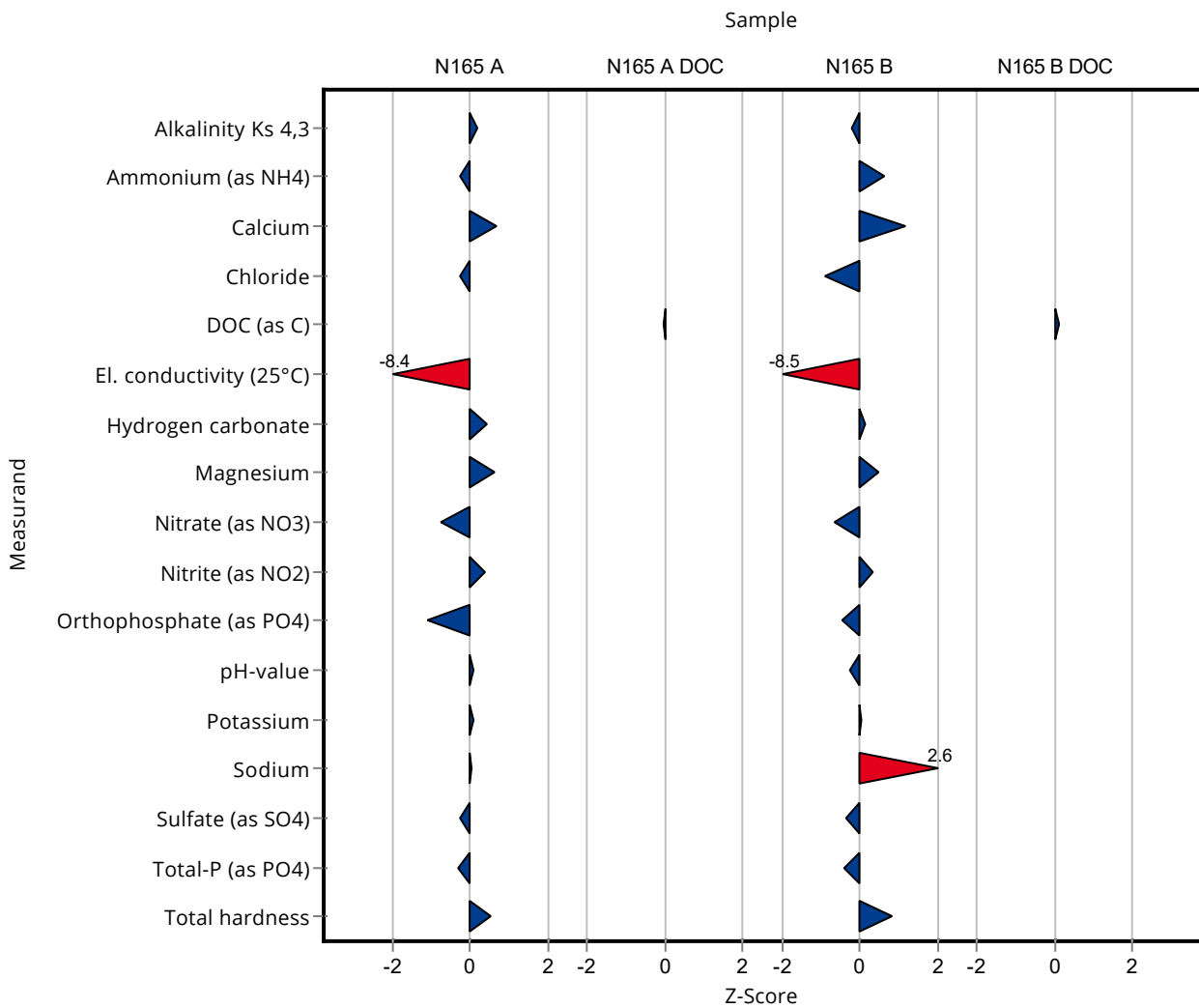
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.34 | 0.193 | 99.3 | -0.05 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.23 | 0.0671 | 99.6 | -0.20 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.178 ± 0.055 | 0.0199 | 107 | 0.61 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 62.6 ± 5 | 1.87 | 104 | 1.16 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.7 ± 2 | 1.03 | 96.4 | -0.91 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 427 ± 9 | 6.24 | 88.9 | -8.50 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.7 ± 16.3 | 5.68 | 100 | 0.14 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.2 | 0.57 | 102 | 0.45 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.3 ± 1.2 | 0.791 | 96.7 | -0.66 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.247 ± 0.025 | 0.0128 | 102 | 0.35 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.143 ± 0.021 | 0.0166 | 95 | -0.46 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.38 ± 0.3 | 0.124 | 100 | 0.04 |
| Sodium | mg/l | 15.4 ± 0.239 | 16.8 ± 1.9 | 0.525 | 109 | 2.58 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.4 ± 1.8 | 1.02 | 98.8 | -0.35 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.712 ± 0.223 | 0.133 | 97 | -0.40 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.16 ± 0.1 | 0.0632 | 102 | 0.82 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.41 ± 0.41 | 0.337 | 101 | 0.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.36 ± 0.52 | 0.147 | 100 | 0.03 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.053 ± 0.016 | 0.00999 | 95.5 | -0.08 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 127 ± 10 | 4.34 | 102 | 0.15 |
| Chloride | mg/l | 57.6 ± 0.558 | 57 ± 4.7 | 2.3 | 99 | -0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 816 ± 16 | 11.9 | 89.1 | -3.09 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449 ± 35.9 | 8.9 | 101 | 0.06 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.6 ± 1.2 | 1.19 | 103 | 0.31 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.8 ± 1.1 | 0.716 | 96.4 | -0.24 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.212 ± 0.021 | 0.011 | 102 | 0.10 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.087 ± 0.013 | 0.0392 | 66.6 | -1.43 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.81 ± 0.5 | 0.249 | 100 | 0.02 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.9 ± 1.6 | 0.914 | 100 | 0.01 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.3 ± 2.5 | 1.37 | 99.2 | -0.07 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.423 ± 0.055 | 0.0324 | 97.9 | -0.08 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.43 ± 0.3 | 0.131 | 102 | 0.12 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.34 | 0.193 | 99.3 | -0.01 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

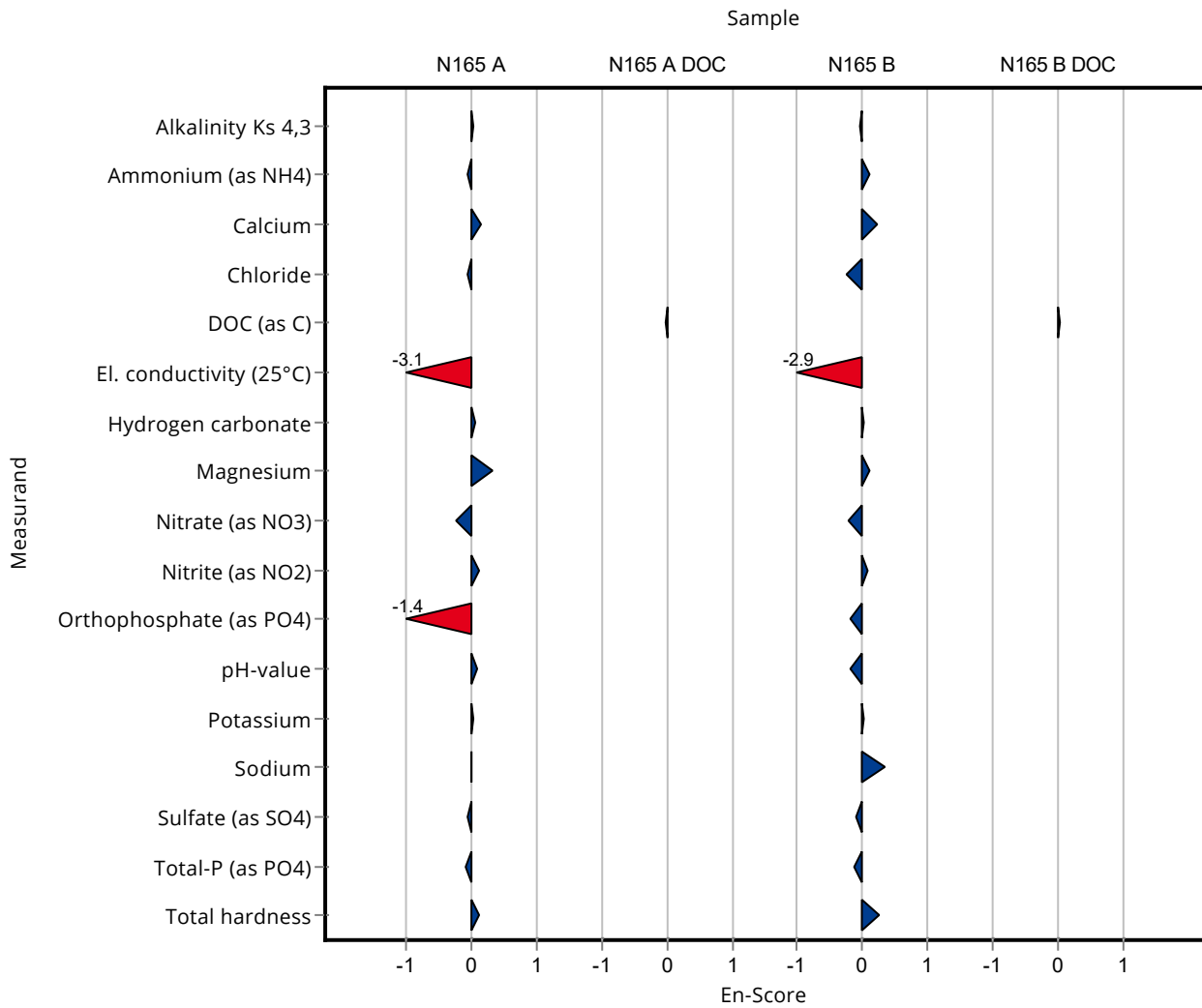
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0007

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.23 | 0.0671 | 99.6 | -0.03 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.178 ± 0.055 | 0.0199 | 107 | 0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 62.6 ± 5 | 1.87 | 104 | 0.22 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.7 ± 2 | 1.03 | 96.4 | -0.23 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 427 ± 9 | 6.24 | 88.9 | -2.94 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.7 ± 16.3 | 5.68 | 100 | 0.02 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.2 | 0.57 | 102 | 0.11 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.3 ± 1.2 | 0.791 | 96.7 | -0.22 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.247 ± 0.025 | 0.0128 | 102 | 0.09 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.143 ± 0.021 | 0.0166 | 95 | -0.18 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.20 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.38 ± 0.3 | 0.124 | 100 | 0.01 |
| Sodium | mg/l | 15.4 ± 0.239 | 16.8 ± 1.9 | 0.525 | 109 | 0.36 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.4 ± 1.8 | 1.02 | 98.8 | -0.10 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.712 ± 0.223 | 0.133 | 97 | -0.12 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.16 ± 0.1 | 0.0632 | 102 | 0.26 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.41 ± 0.41 | 0.337 | 101 | 0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.3 | 0.147 | 98.6 | -0.70 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.051 ± 0.014 | 0.00999 | 91.9 | -0.45 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128 ± 12.5 | 4.34 | 103 | 0.93 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.5 ± 2.8 | 2.3 | 99.8 | -0.04 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 935 ± 8.4 | 11.9 | 102 | 1.63 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 18.1 | 8.9 | 99.1 | -0.45 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.7 ± 3.3 | 1.19 | 103 | 0.71 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.7 | 0.716 | 99.8 | -0.03 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.011 | 0.011 | 103 | 0.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.163 ± 0.008 | 0.0392 | 125 | 0.82 |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.02 | 0.154 | 98 | -1.00 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.8 ± 0.4 | 0.249 | 100 | 0.04 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 2.4 | 0.914 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.3 ± 1.8 | 1.37 | 99.2 | -0.25 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.46 ± 0.4 | 0.131 | 102 | 0.78 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

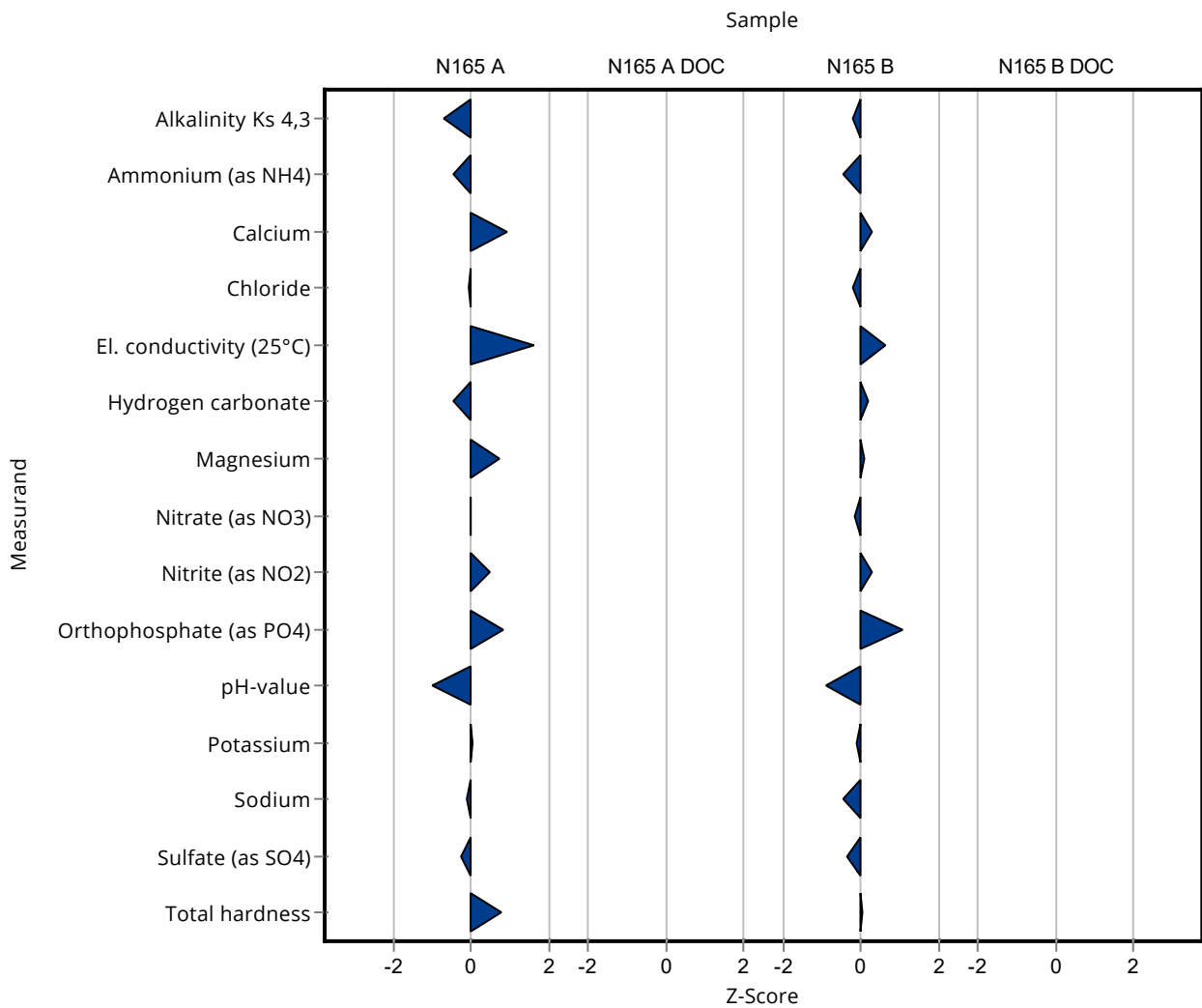
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.14 | 0.0671 | 99.6 | -0.20 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.157 ± 0.04 | 0.0199 | 94.7 | -0.44 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61 ± 6 | 1.87 | 101 | 0.30 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.4 ± 1.2 | 1.03 | 99.1 | -0.23 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 4.3 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204 ± 8.4 | 5.68 | 101 | 0.19 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 1.6 | 0.57 | 100 | 0.10 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.7 ± 0.7 | 0.791 | 99.2 | -0.15 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.012 | 0.0128 | 101 | 0.28 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.168 ± 0.008 | 0.0166 | 112 | 1.05 |
| pH-value | - | 7.84 ± 0.0268 | 7.7 ± 0.02 | 0.157 | 98.2 | -0.89 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.36 ± 0.22 | 0.124 | 99.3 | -0.13 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.2 ± 1.4 | 0.525 | 98.4 | -0.47 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.4 ± 1.3 | 1.02 | 98.8 | -0.35 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.11 ± 0.21 | 0.0632 | 100 | 0.03 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.3 | 0.147 | 98.6 | -0.17 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.051 ± 0.014 | 0.00999 | 91.9 | -0.16 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128 ± 12.5 | 4.34 | 103 | 0.16 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.5 ± 2.8 | 2.3 | 99.8 | -0.02 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 935 ± 8.4 | 11.9 | 102 | 1.13 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 441 ± 18.1 | 8.9 | 99.1 | -0.11 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.7 ± 3.3 | 1.19 | 103 | 0.13 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.7 | 0.716 | 99.8 | -0.02 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.011 | 0.011 | 103 | 0.24 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.163 ± 0.008 | 0.0392 | 125 | 1.42 |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.02 | 0.154 | 98 | -2.92 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.8 ± 0.4 | 0.249 | 100 | 0.01 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 2.4 | 0.914 | 99.7 | -0.02 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.3 ± 1.8 | 1.37 | 99.2 | -0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.46 ± 0.4 | 0.131 | 102 | 0.13 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

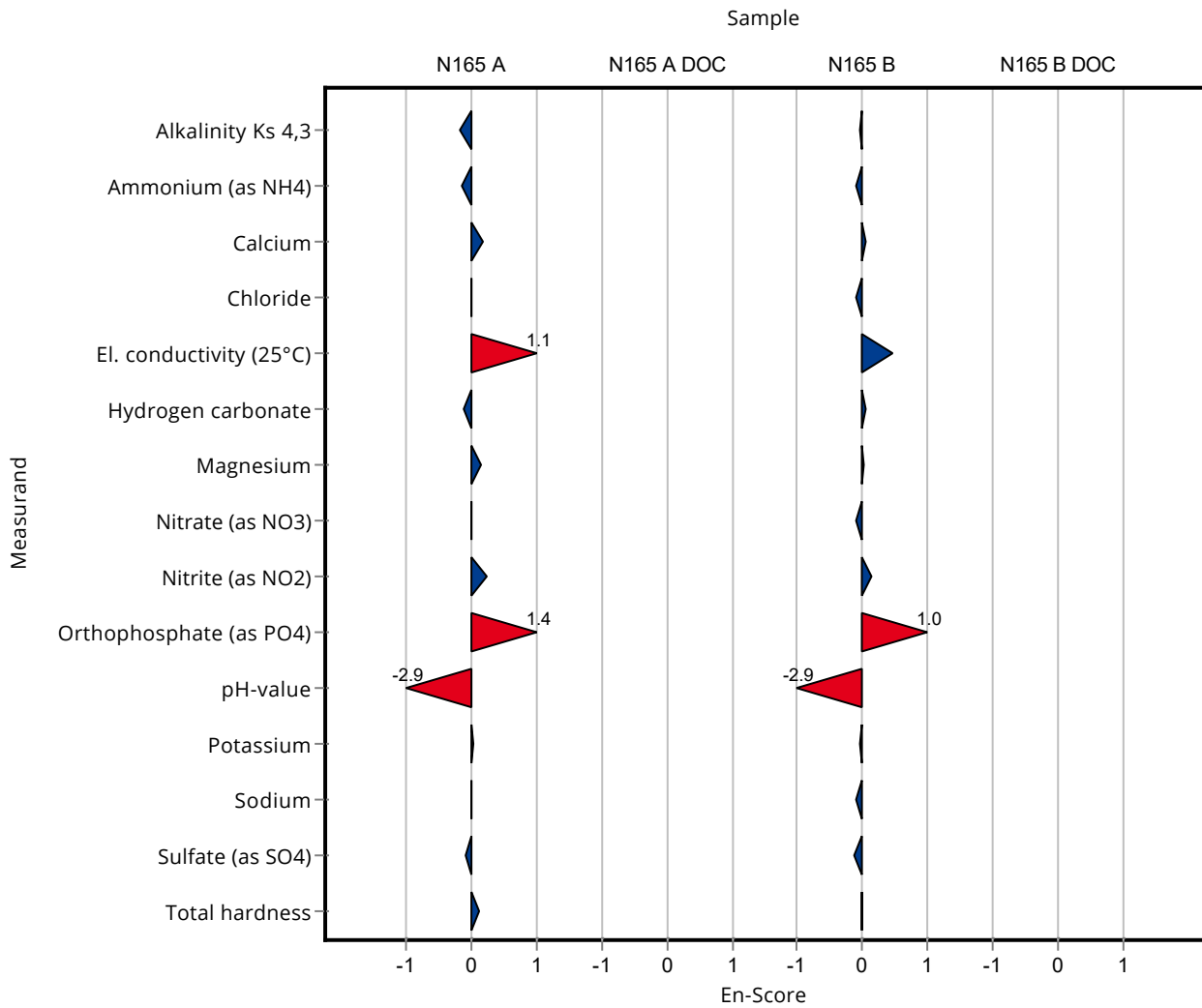
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.14 | 0.0671 | 99.6 | -0.05 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.157 ± 0.04 | 0.0199 | 94.7 | -0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61 ± 6 | 1.87 | 101 | 0.05 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.4 ± 1.2 | 1.03 | 99.1 | -0.10 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 4.3 | 6.24 | 101 | 0.45 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204 ± 8.4 | 5.68 | 101 | 0.06 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 1.6 | 0.57 | 100 | 0.02 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.7 ± 0.7 | 0.791 | 99.2 | -0.09 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.012 | 0.0128 | 101 | 0.15 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.168 ± 0.008 | 0.0166 | 112 | 1.01 |
| pH-value | - | 7.84 ± 0.0268 | 7.7 ± 0.02 | 0.157 | 98.2 | -2.91 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.36 ± 0.22 | 0.124 | 99.3 | -0.04 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.2 ± 1.4 | 0.525 | 98.4 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.4 ± 1.3 | 1.02 | 98.8 | -0.14 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.11 ± 0.21 | 0.0632 | 100 | 0.00 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.064 ± 0.015 | 0.00999 | 115 | 0.85 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 56.668 ± 7.412 | 2.3 | 98.4 | -0.40 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 46 | 11.9 | 101 | 0.79 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.393 ± 0.638 | 0.716 | 100 | 0.10 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.226 ± 0.063 | 0.011 | 109 | 1.65 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.113 ± 0.019 | 0.0392 | 86.5 | -0.45 |
| pH-value | - | 7.68 ± 0.034 | 7.65 ± 0.77 | 0.154 | 99.6 | -0.22 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.373 ± 2.52 | 1.37 | 99.4 | -0.19 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.39 ± 0.047 | 0.0324 | 90.2 | -1.30 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.473 ± 0.496 | 0.29 | 99.4 | -0.07 |

Sample: N165ADOC

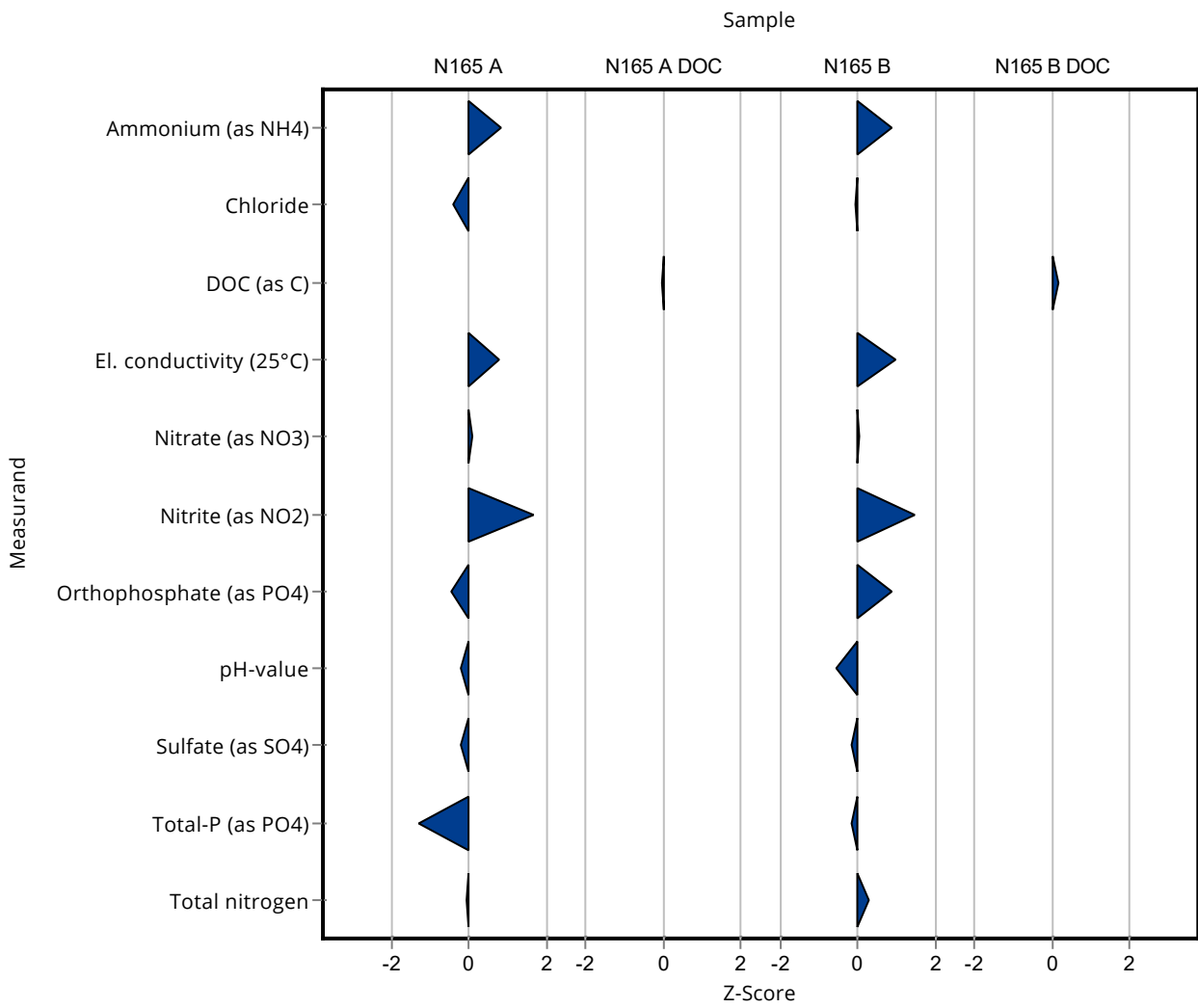
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.247 | 0.193 | 99.3 | -0.05 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.183 ± 0.042 | 0.0199 | 110 | 0.86 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.568 ± 3.344 | 1.03 | 99.7 | -0.06 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 24 | 6.24 | 101 | 0.95 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.848 ± 0.702 | 0.791 | 100 | 0.03 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.261 ± 0.073 | 0.0128 | 108 | 1.44 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.165 ± 0.028 | 0.0166 | 110 | 0.87 |
| pH-value | - | 7.84 ± 0.0268 | 7.75 ± 0.78 | 0.157 | 98.8 | -0.58 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.587 ± 1.863 | 1.02 | 99.4 | -0.17 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.746 ± 0.21 | 0.133 | 98.9 | -0.15 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.984 ± 0.569 | 0.323 | 102 | 0.29 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.43 ± 0.617 | 0.337 | 102 | 0.17 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.064 ± 0.015 | 0.00999 | 115 | 0.28 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 56.668 ± 7.412 | 2.3 | 98.4 | -0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 46 | 11.9 | 101 | 0.10 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.393 ± 0.638 | 0.716 | 100 | 0.06 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.226 ± 0.063 | 0.011 | 109 | 0.14 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.113 ± 0.019 | 0.0392 | 86.5 | -0.43 |
| pH-value | - | 7.68 ± 0.034 | 7.65 ± 0.77 | 0.154 | 99.6 | -0.02 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.373 ± 2.52 | 1.37 | 99.4 | -0.05 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.39 ± 0.047 | 0.0324 | 90.2 | -0.45 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.473 ± 0.496 | 0.29 | 99.4 | -0.02 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.247 | 0.193 | 99.3 | -0.02 |

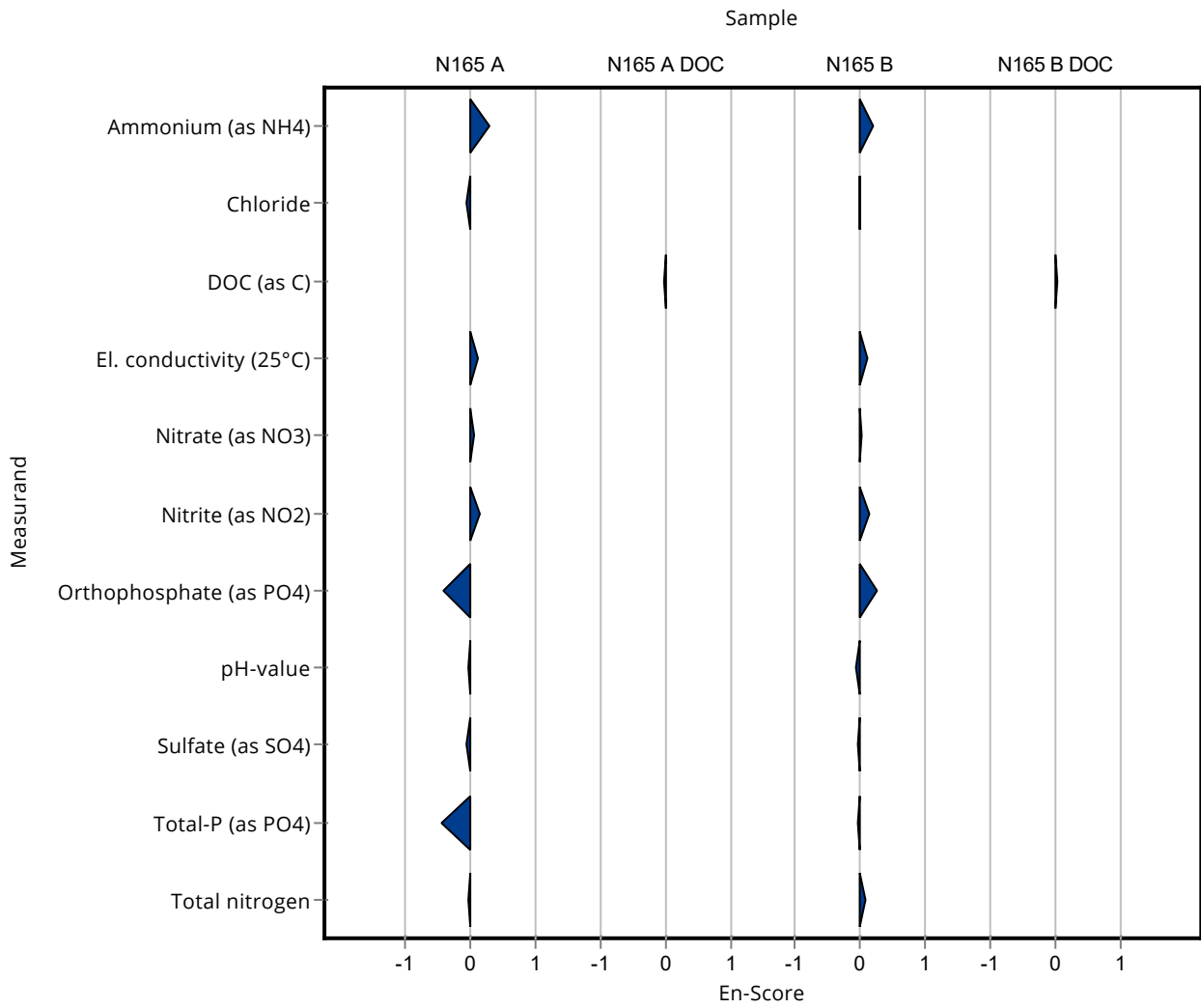
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.183 ± 0.042 | 0.0199 | 110 | 0.20 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.568 ± 3.344 | 1.03 | 99.7 | -0.01 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 24 | 6.24 | 101 | 0.12 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.848 ± 0.702 | 0.791 | 100 | 0.02 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.261 ± 0.073 | 0.0128 | 108 | 0.13 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.165 ± 0.028 | 0.0166 | 110 | 0.26 |
| pH-value | - | 7.84 ± 0.0268 | 7.75 ± 0.78 | 0.157 | 98.8 | -0.06 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.587 ± 1.863 | 1.02 | 99.4 | -0.05 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.746 ± 0.21 | 0.133 | 98.9 | -0.05 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.984 ± 0.569 | 0.323 | 102 | 0.08 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.43 ± 0.617 | 0.337 | 102 | 0.05 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.46 ± 0.15 | 0.147 | 102 | 0.87 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.0086 | 0.00999 | 93.7 | -0.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0583 ± 0.00806 | 0.00646 | 99.3 | -0.07 |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 13 | 4.34 | 99.2 | -0.22 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.3 ± 9.6 | 2.3 | 99.5 | -0.13 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 924 ± 29.2 | 11.9 | 101 | 0.71 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 452 ± 9 | 8.9 | 102 | 0.79 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29 ± 3.1 | 1.19 | 97.1 | -0.71 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.5 ± 2.1 | 0.716 | 101 | 0.25 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.036 | 0.011 | 100 | 0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.158 ± 0.025 | 0.0392 | 121 | 0.70 |
| pH-value | - | 7.68 ± 0.034 | 7.59 ± 0.2 | 0.154 | 98.8 | -0.61 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.71 ± 0.5 | 0.249 | 98.3 | -0.33 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 2.83 | 0.914 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.7 ± 5.5 | 1.37 | 100 | 0.04 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.431 ± 0.081 | 0.0324 | 99.7 | -0.04 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

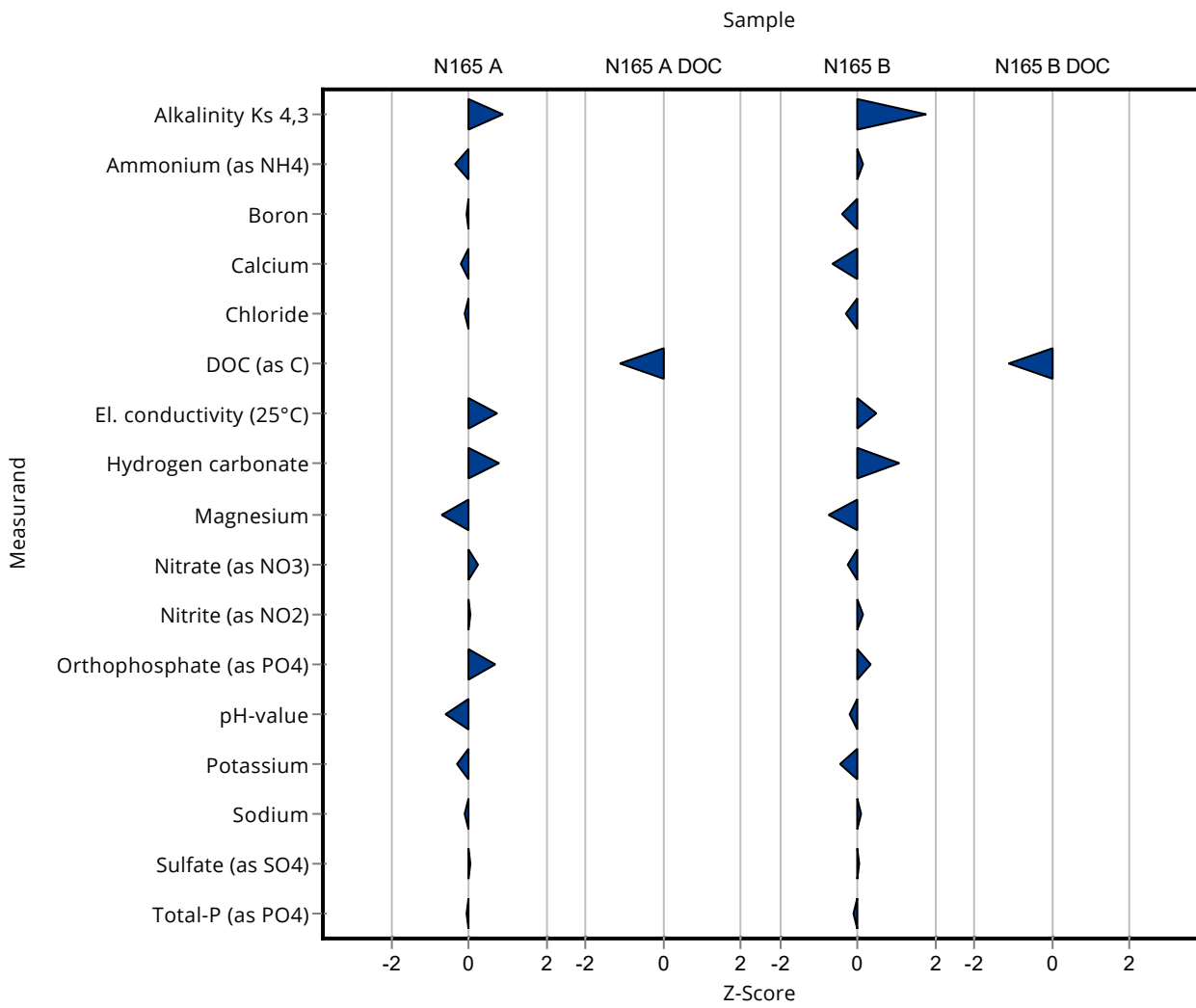
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.16 ± 0.25 | 0.193 | 84.1 | -1.13 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.47 ± 0.1 | 0.0671 | 103 | 1.74 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.026 | 0.0199 | 101 | 0.11 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0135 ± 0.0035 | 0.00215 | 94.1 | -0.39 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.2 ± 6.31 | 1.87 | 98 | -0.66 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.3 ± 4.4 | 1.03 | 98.7 | -0.32 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 17.2 | 6.24 | 101 | 0.47 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 209 ± 6 | 5.68 | 103 | 1.07 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 1.5 | 0.57 | 96.9 | -0.77 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 2.3 | 0.791 | 98.6 | -0.28 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.244 ± 0.042 | 0.0128 | 101 | 0.12 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.156 ± 0.025 | 0.0166 | 104 | 0.33 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.2 | 0.157 | 99.6 | -0.19 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.25 | 0.124 | 97.7 | -0.45 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.5 ± 1.6 | 0.525 | 100 | 0.10 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 4.1 | 1.02 | 100 | 0.04 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.75 ± 0.32 | 0.133 | 99.1 | -0.12 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.3 | 0.337 | 88.9 | -1.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.46 ± 0.15 | 0.147 | 102 | 0.42 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.0086 | 0.00999 | 93.7 | -0.20 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0583 ± 0.00806 | 0.00646 | 99.3 | -0.03 |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 13 | 4.34 | 99.2 | -0.04 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.3 ± 9.6 | 2.3 | 99.5 | -0.02 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 924 ± 29.2 | 11.9 | 101 | 0.14 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 452 ± 9 | 8.9 | 102 | 0.39 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29 ± 3.1 | 1.19 | 97.1 | -0.14 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.5 ± 2.1 | 0.716 | 101 | 0.04 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.036 | 0.011 | 100 | 0.00 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.158 ± 0.025 | 0.0392 | 121 | 0.52 |
| pH-value | - | 7.68 ± 0.034 | 7.59 ± 0.2 | 0.154 | 98.8 | -0.23 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.71 ± 0.5 | 0.249 | 98.3 | -0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 2.83 | 0.914 | 99.7 | -0.01 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.7 ± 5.5 | 1.37 | 100 | 0.01 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.431 ± 0.081 | 0.0324 | 99.7 | -0.01 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.16 ± 0.25 | 0.193 | 84.1 | -0.43 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

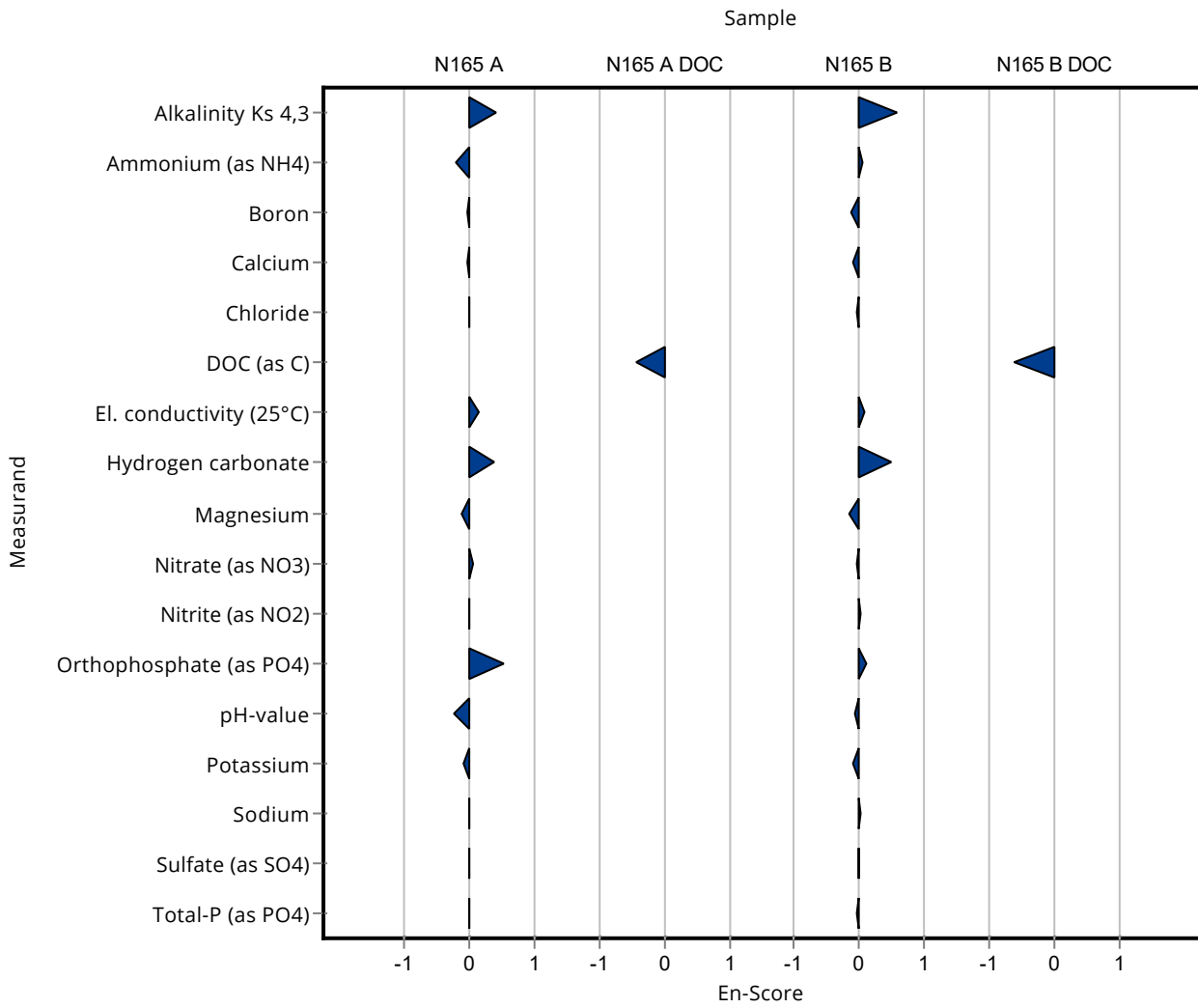
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0010

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.47 ± 0.1 | 0.0671 | 103 | 0.58 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.168 ± 0.026 | 0.0199 | 101 | 0.04 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0135 ± 0.0035 | 0.00215 | 94.1 | -0.12 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.2 ± 6.31 | 1.87 | 98 | -0.10 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.3 ± 4.4 | 1.03 | 98.7 | -0.04 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 17.2 | 6.24 | 101 | 0.09 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 209 ± 6 | 5.68 | 103 | 0.50 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 1.5 | 0.57 | 96.9 | -0.15 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 2.3 | 0.791 | 98.6 | -0.05 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.244 ± 0.042 | 0.0128 | 101 | 0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.156 ± 0.025 | 0.0166 | 104 | 0.11 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.2 | 0.157 | 99.6 | -0.08 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.25 | 0.124 | 97.7 | -0.11 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.5 ± 1.6 | 0.525 | 100 | 0.02 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 4.1 | 1.02 | 100 | 0.01 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.75 ± 0.32 | 0.133 | 99.1 | -0.02 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.3 | 0.337 | 88.9 | -0.62 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 116.5 ± 5 | 4.34 | 94 | -1.72 |
| Chloride | mg/l | 57.6 ± 0.558 | 55.95 ± 1 | 2.3 | 97.1 | -0.72 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 2 | 11.9 | 99.9 | -0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 32.8 ± 2.5 | 1.19 | 110 | 2.47 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.05 ± 0.8 | 0.716 | 105 | 1.02 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.44 ± 0.1 | 0.154 | 96.8 | -1.58 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 43.65 ± 5 | 1.37 | 105 | 1.46 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.29 ± 0.53 | 0.131 | 98.4 | -0.52 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

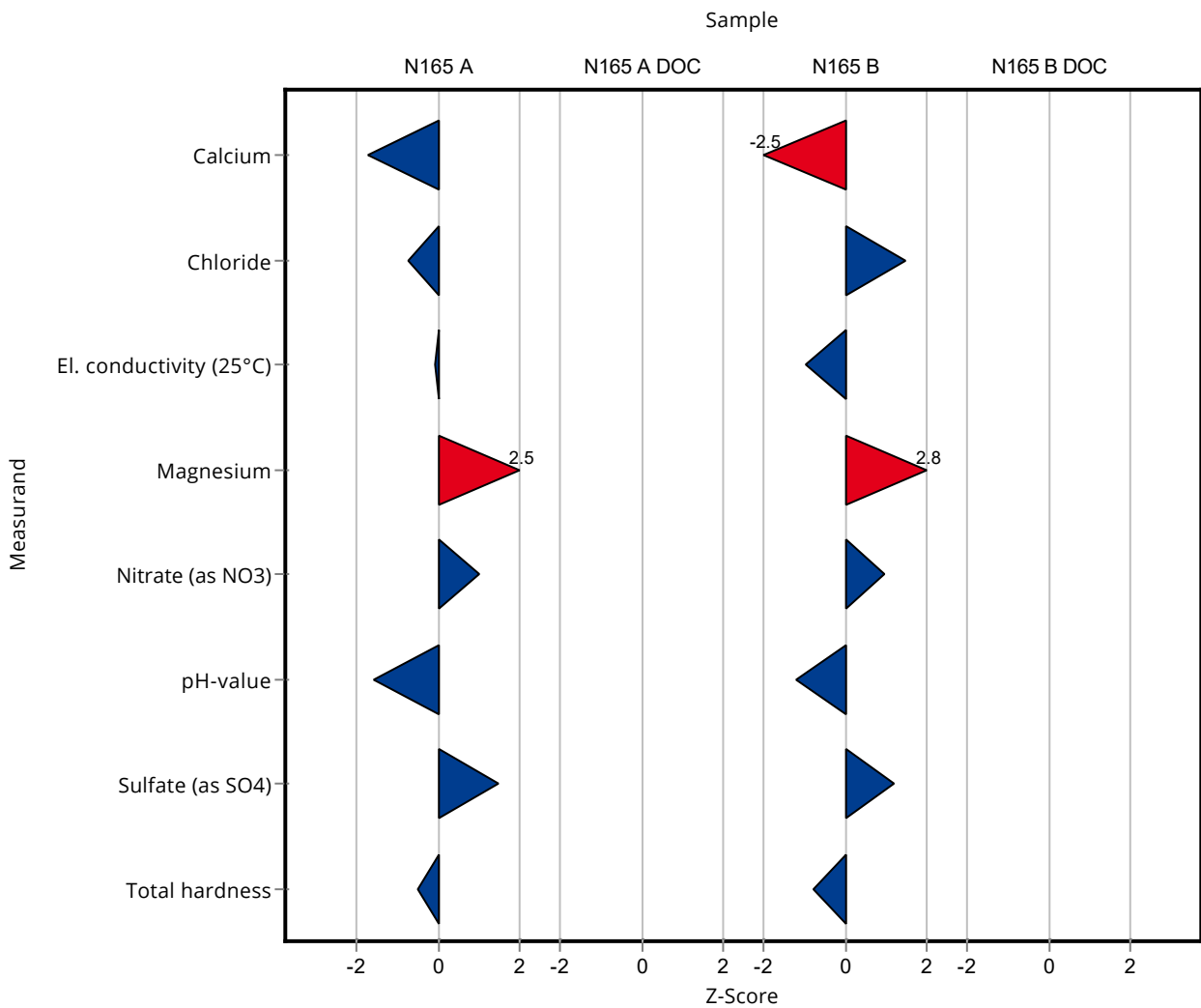
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 55.8 ± 5 | 1.87 | 92.3 | -2.47 |
| Chloride | mg/l | 25.6 ± 0.265 | 27.15 ± 1 | 1.03 | 106 | 1.48 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 474 ± 2 | 6.24 | 98.7 | -0.97 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.85 ± 2.5 | 0.57 | 111 | 2.82 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.6 ± 0.5 | 0.791 | 105 | 0.99 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.65 ± 0.1 | 0.157 | 97.6 | -1.21 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 32 ± 5 | 1.02 | 104 | 1.22 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.06 ± 0.53 | 0.0632 | 97.7 | -0.76 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 116.5 ± 5 | 4.34 | 94 | -0.74 |
| Chloride | mg/l | 57.6 ± 0.558 | 55.95 ± 1 | 2.3 | 97.1 | -0.79 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 2 | 11.9 | 99.9 | -0.11 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 32.8 ± 2.5 | 1.19 | 110 | 0.59 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.05 ± 0.8 | 0.716 | 105 | 0.45 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.44 ± 0.1 | 0.154 | 96.8 | -1.20 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 43.65 ± 5 | 1.37 | 105 | 0.20 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.29 ± 0.53 | 0.131 | 98.4 | -0.06 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

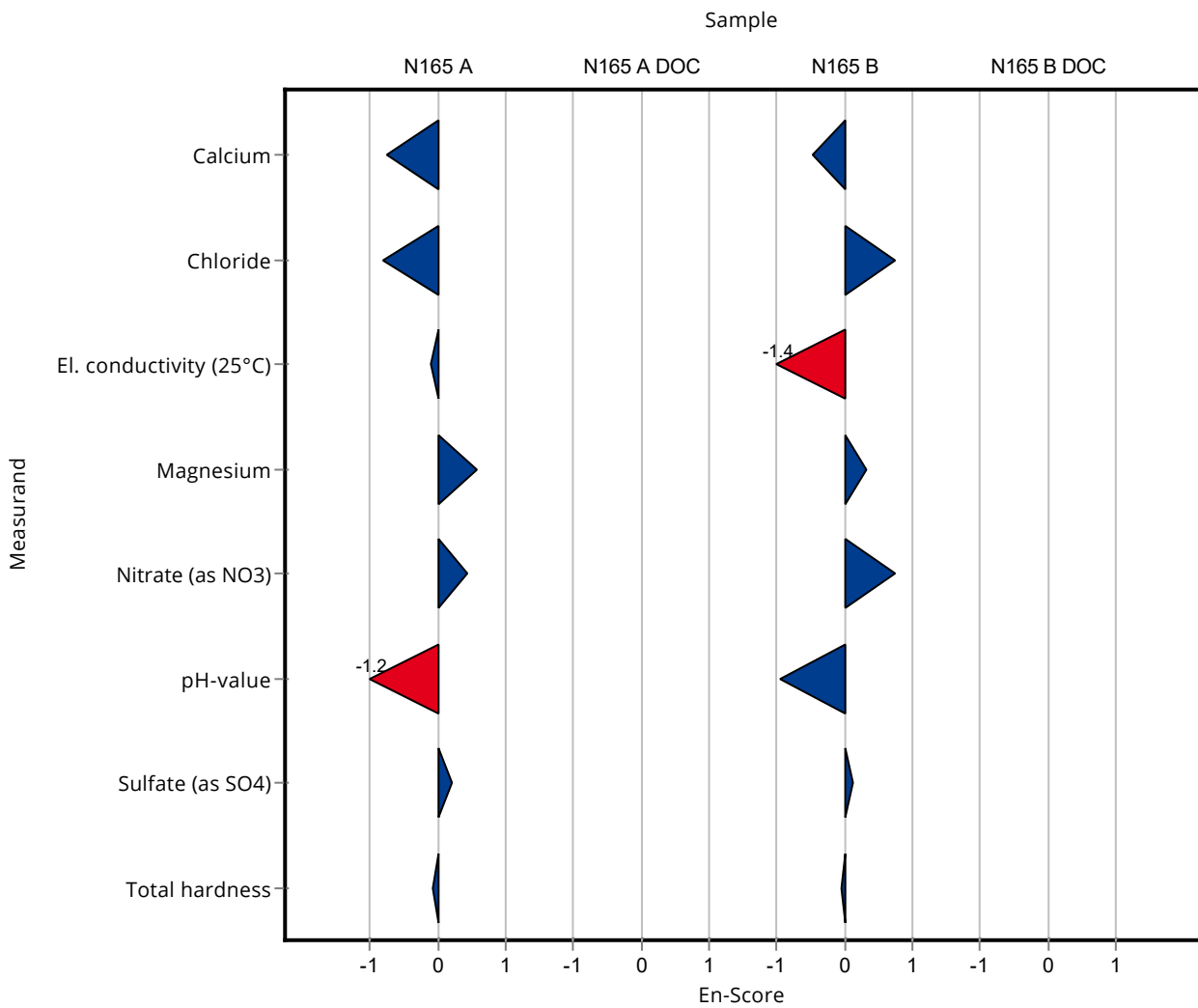
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0011

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 55.8 ± 5 | 1.87 | 92.3 | -0.46 |
| Chloride | mg/l | 25.6 ± 0.265 | 27.15 ± 1 | 1.03 | 106 | 0.75 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 474 ± 2 | 6.24 | 98.7 | -1.42 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.85 ± 2.5 | 0.57 | 111 | 0.32 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.6 ± 0.5 | 0.791 | 105 | 0.76 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.65 ± 0.1 | 0.157 | 97.6 | -0.94 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 32 ± 5 | 1.02 | 104 | 0.12 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.06 ± 0.53 | 0.0632 | 97.7 | -0.05 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.26 ± 0.08 | 0.147 | 99 | -0.49 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 57.7 ± 1.67 | 2.3 | 100 | 0.04 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 898 ± 19.6 | 11.9 | 98.1 | -1.48 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.6 ± 2 | 0.716 | 102 | 0.39 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | <0.5 (LOD) ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.2 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.49 ± 0.48 | 0.131 | 103 | 1.01 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

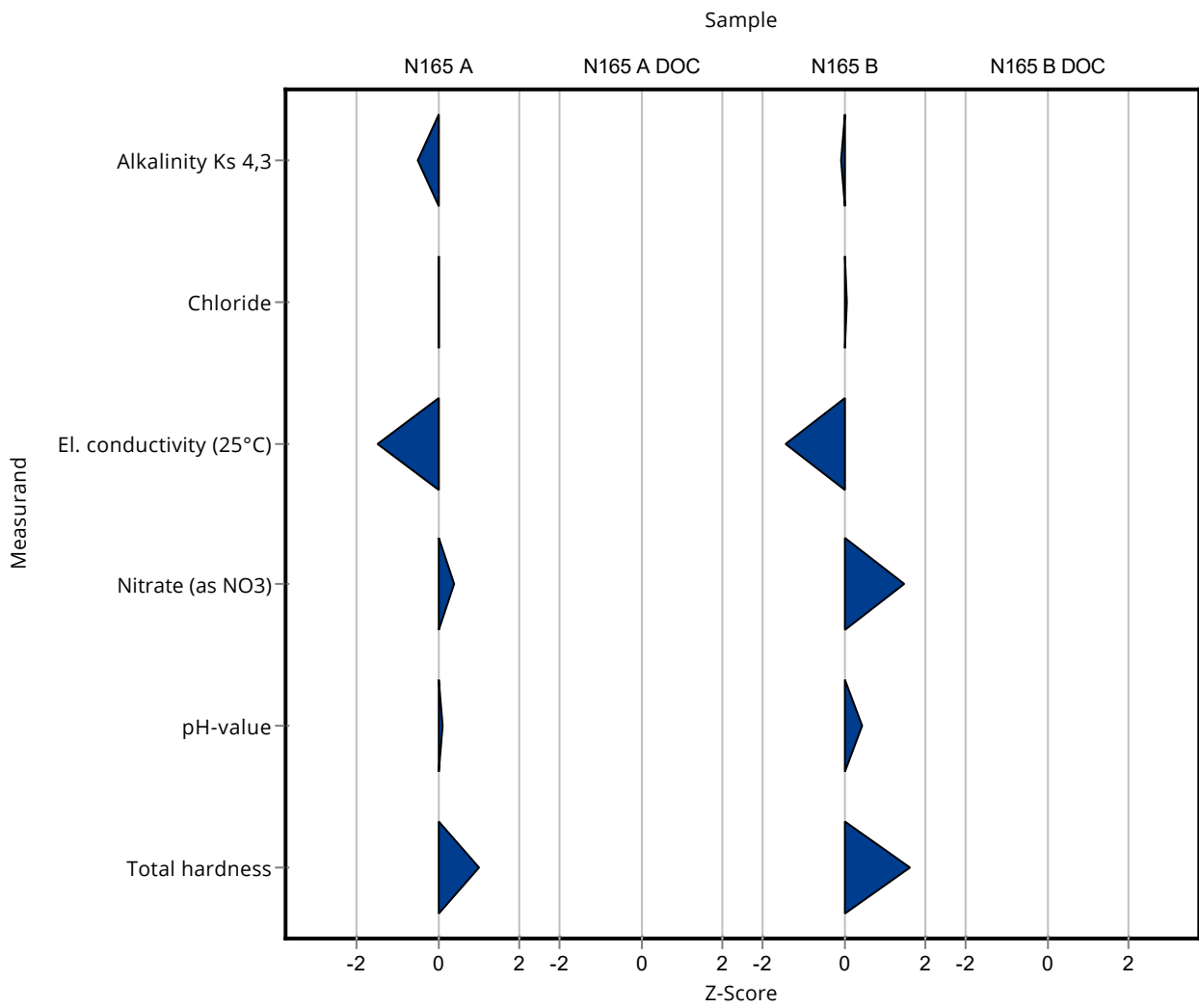
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.35 ± 0.05 | 0.0671 | 99.9 | -0.05 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.7 ± 1.64 | 1.03 | 100 | 0.07 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 23.7 | 6.24 | 98.1 | -1.45 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 17 ± 2 | 0.791 | 107 | 1.49 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | <0.5 (LOD) ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.91 ± 0.2 | 0.157 | 101 | 0.44 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.21 ± 0.48 | 0.0632 | 105 | 1.61 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.26 ± 0.08 | 0.147 | 99 | -0.43 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 57.7 ± 1.67 | 2.3 | 100 | 0.03 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 898 ± 19.6 | 11.9 | 98.1 | -0.45 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.6 ± 2 | 0.716 | 102 | 0.07 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | <0.5 (LOD) ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.2 | 0.154 | 100 | 0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.49 ± 0.48 | 0.131 | 103 | 0.14 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

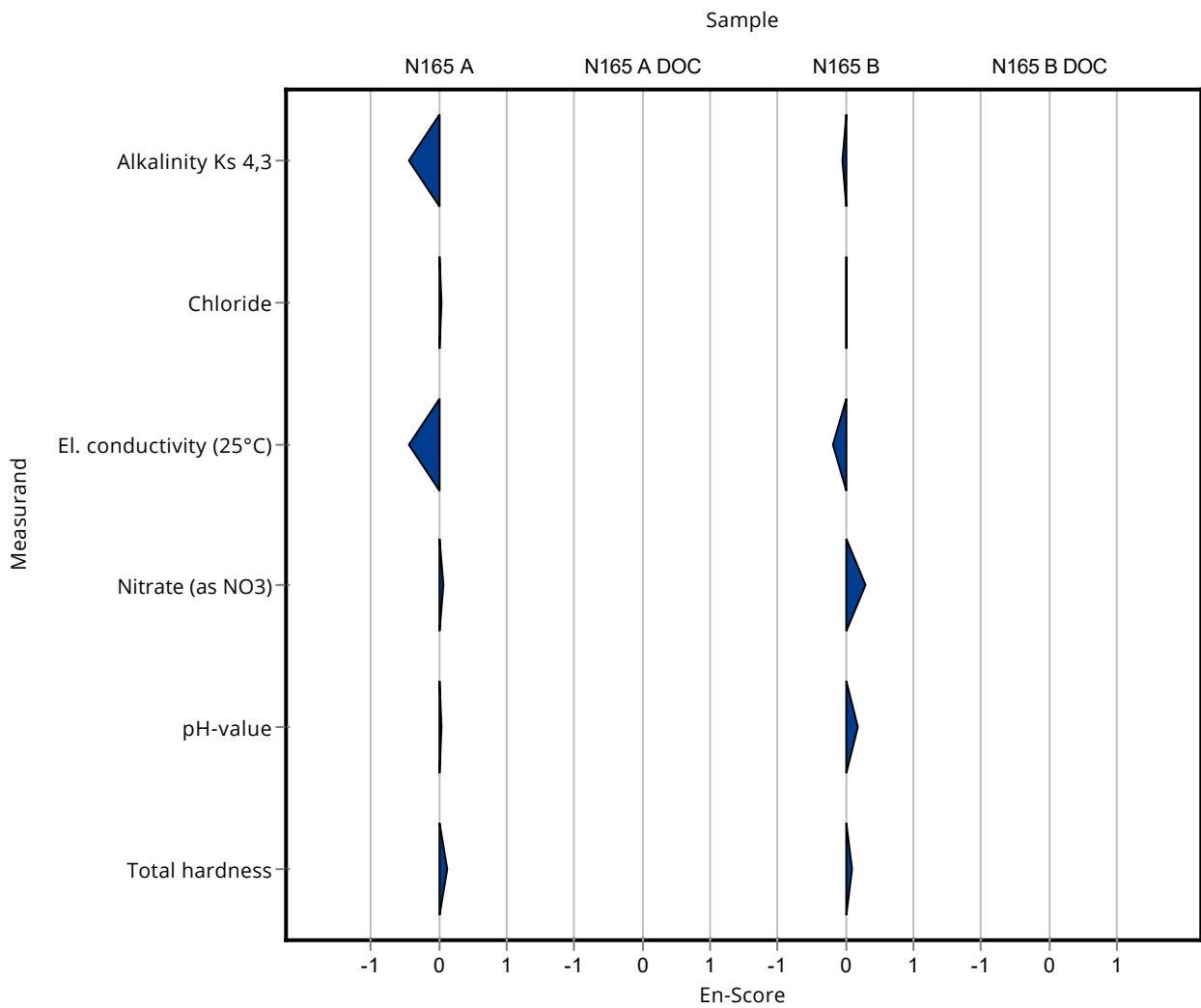
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0012

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.35 ± 0.05 | 0.0671 | 99.9 | -0.03 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.7 ± 1.64 | 1.03 | 100 | 0.02 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 23.7 | 6.24 | 98.1 | -0.19 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 17 ± 2 | 0.791 | 107 | 0.29 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | <0.5 (LOD) ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.91 ± 0.2 | 0.157 | 101 | 0.17 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.21 ± 0.48 | 0.0632 | 105 | 0.11 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0787 ± 0.00331 | 0.00999 | 142 | 2.32 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 125 ± 4.25 | 4.34 | 101 | 0.24 |
| Chloride | mg/l | 57.6 ± 0.558 | 59.9 ± 3.68 | 2.3 | 104 | 1.00 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 900 ± 22.1 | 11.9 | 98.3 | -1.31 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 1.9 | 1.19 | 103 | 0.79 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.6 ± 0.204 | 0.716 | 102 | 0.39 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.0141 | 0.011 | 103 | 0.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.138 ± 0.0104 | 0.0392 | 106 | 0.19 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.117 | 0.154 | 99.8 | -0.09 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.84 ± 2.3 | 0.249 | 101 | 0.20 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.8 ± 4.72 | 0.914 | 96 | -1.18 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 37.9 ± 3.24 | 1.37 | 91 | -2.72 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

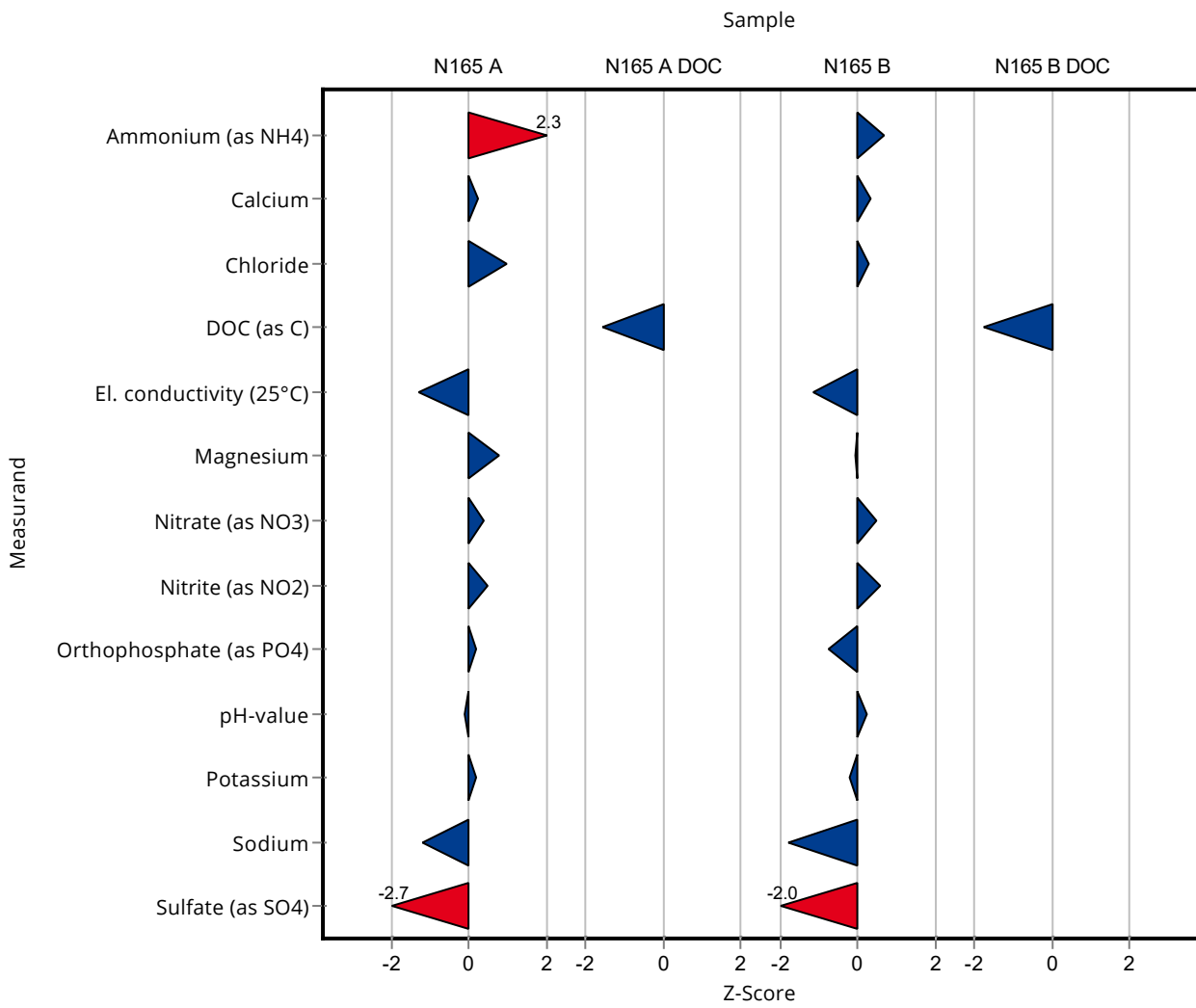
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.08 ± 0.097 | 0.193 | 78.3 | -1.55 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.179 ± 0.00752 | 0.0199 | 108 | 0.66 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61.1 ± 2.08 | 1.87 | 101 | 0.36 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 1.59 | 1.03 | 101 | 0.26 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 473 ± 11.6 | 6.24 | 98.5 | -1.13 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.2 ± 0.869 | 0.57 | 99.7 | -0.07 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 0.227 | 0.791 | 102 | 0.48 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.0165 | 0.0128 | 103 | 0.59 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.138 ± 0.0104 | 0.0166 | 91.6 | -0.76 |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.12 | 0.157 | 101 | 0.25 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.35 ± 1.11 | 0.124 | 98.9 | -0.21 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.5 ± 2.65 | 0.525 | 93.9 | -1.80 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.7 ± 2.45 | 1.02 | 93.3 | -2.03 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 2.78 ± 0.249 | 0.337 | 82.4 | -1.76 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0787 ± 0.00331 | 0.00999 | 142 | 3.07 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 125 ± 4.25 | 4.34 | 101 | 0.12 |
| Chloride | mg/l | 57.6 ± 0.558 | 59.9 ± 3.68 | 2.3 | 104 | 0.31 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 900 ± 22.1 | 11.9 | 98.3 | -0.35 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 1.9 | 1.19 | 103 | 0.25 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.6 ± 0.204 | 0.716 | 102 | 0.63 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.0141 | 0.011 | 103 | 0.18 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.138 ± 0.0104 | 0.0392 | 106 | 0.28 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.117 | 0.154 | 99.8 | -0.06 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.84 ± 2.3 | 0.249 | 101 | 0.01 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.8 ± 4.72 | 0.914 | 96 | -0.11 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 37.9 ± 3.24 | 1.37 | 91 | -0.58 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.08 ± 0.097 | 0.193 | 78.3 | -1.45 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

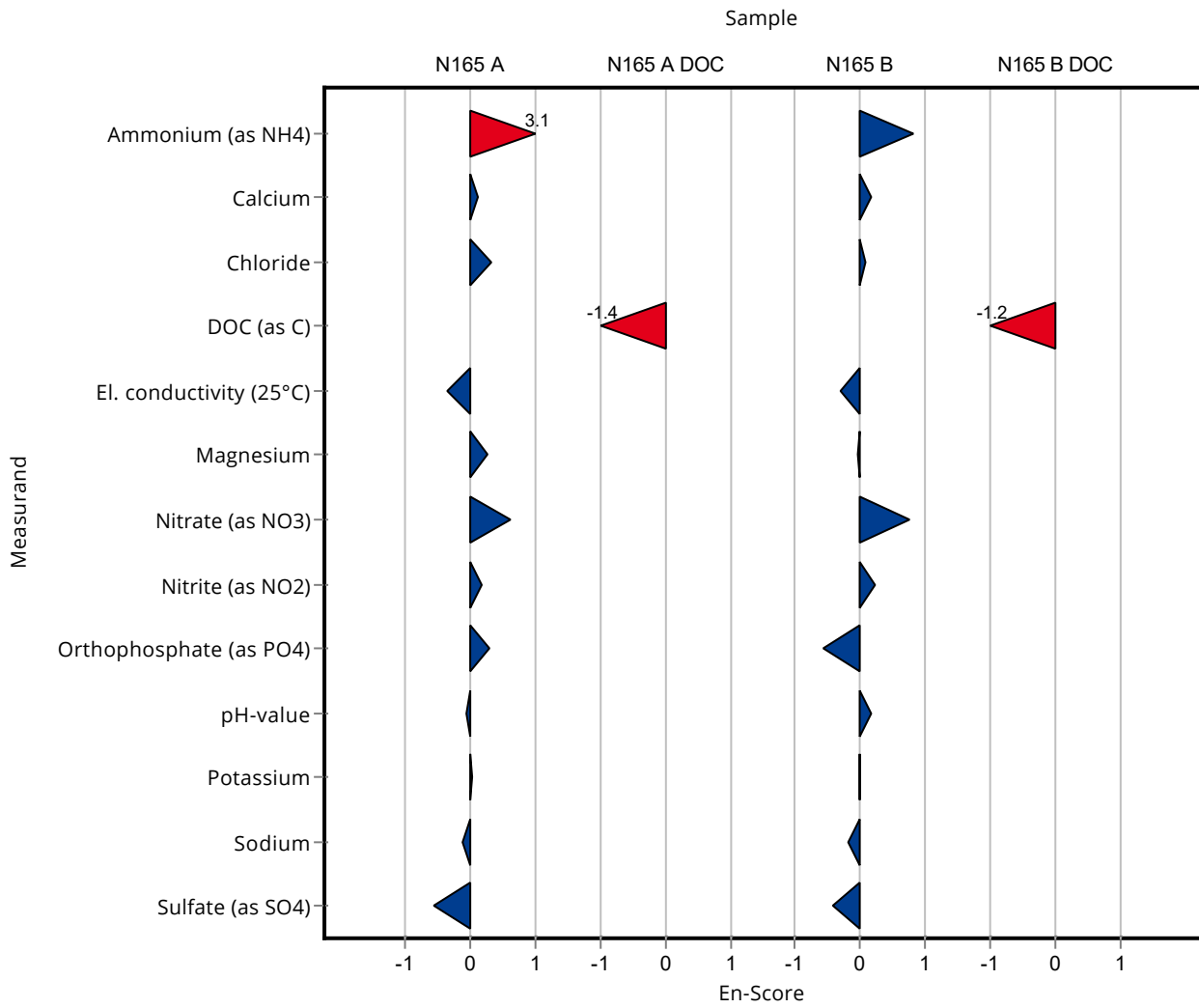
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0013

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.179 ± 0.00752 | 0.0199 | 108 | 0.82 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61.1 ± 2.08 | 1.87 | 101 | 0.16 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 1.59 | 1.03 | 101 | 0.08 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 473 ± 11.6 | 6.24 | 98.5 | -0.30 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.2 ± 0.869 | 0.57 | 99.7 | -0.02 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 0.227 | 0.791 | 102 | 0.76 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.0165 | 0.0128 | 103 | 0.23 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.138 ± 0.0104 | 0.0166 | 91.6 | -0.58 |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.12 | 0.157 | 101 | 0.16 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.35 ± 1.11 | 0.124 | 98.9 | -0.01 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.5 ± 2.65 | 0.525 | 93.9 | -0.18 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.7 ± 2.45 | 1.02 | 93.3 | -0.42 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 2.78 ± 0.249 | 0.337 | 82.4 | -1.18 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.19 ± 0.32 | 0.147 | 98.1 | -0.97 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 12.34 | 11.9 | 99.8 | -0.13 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.13 | 0.154 | 98 | -1.00 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

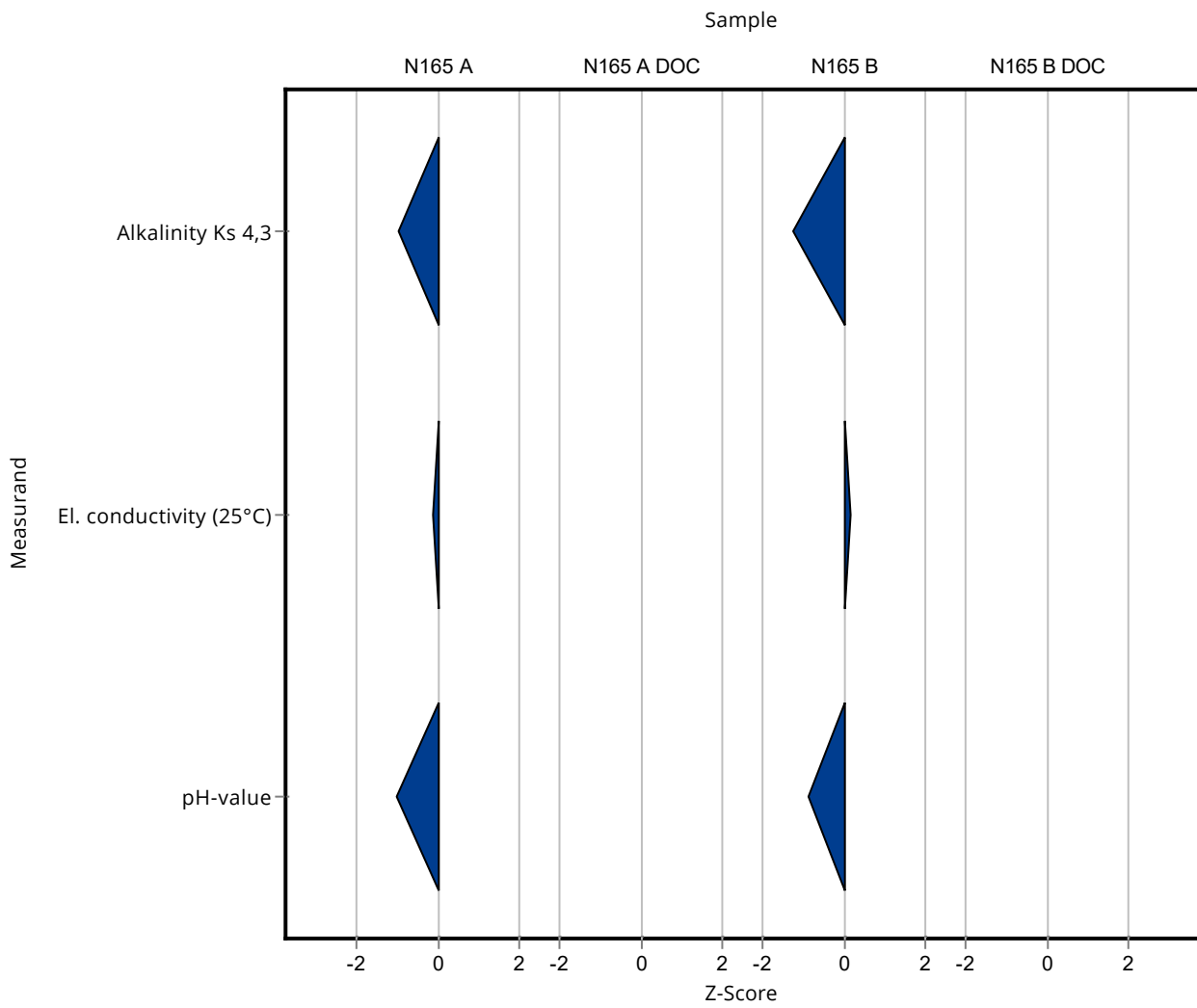
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.27 ± 0.15 | 0.0671 | 97.5 | -1.24 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 6.49 | 6.24 | 100 | 0.15 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.7 ± 0.14 | 0.157 | 98.2 | -0.89 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.19 ± 0.32 | 0.147 | 98.1 | -0.22 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 12.34 | 11.9 | 99.8 | -0.06 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.13 | 0.154 | 98 | -0.58 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

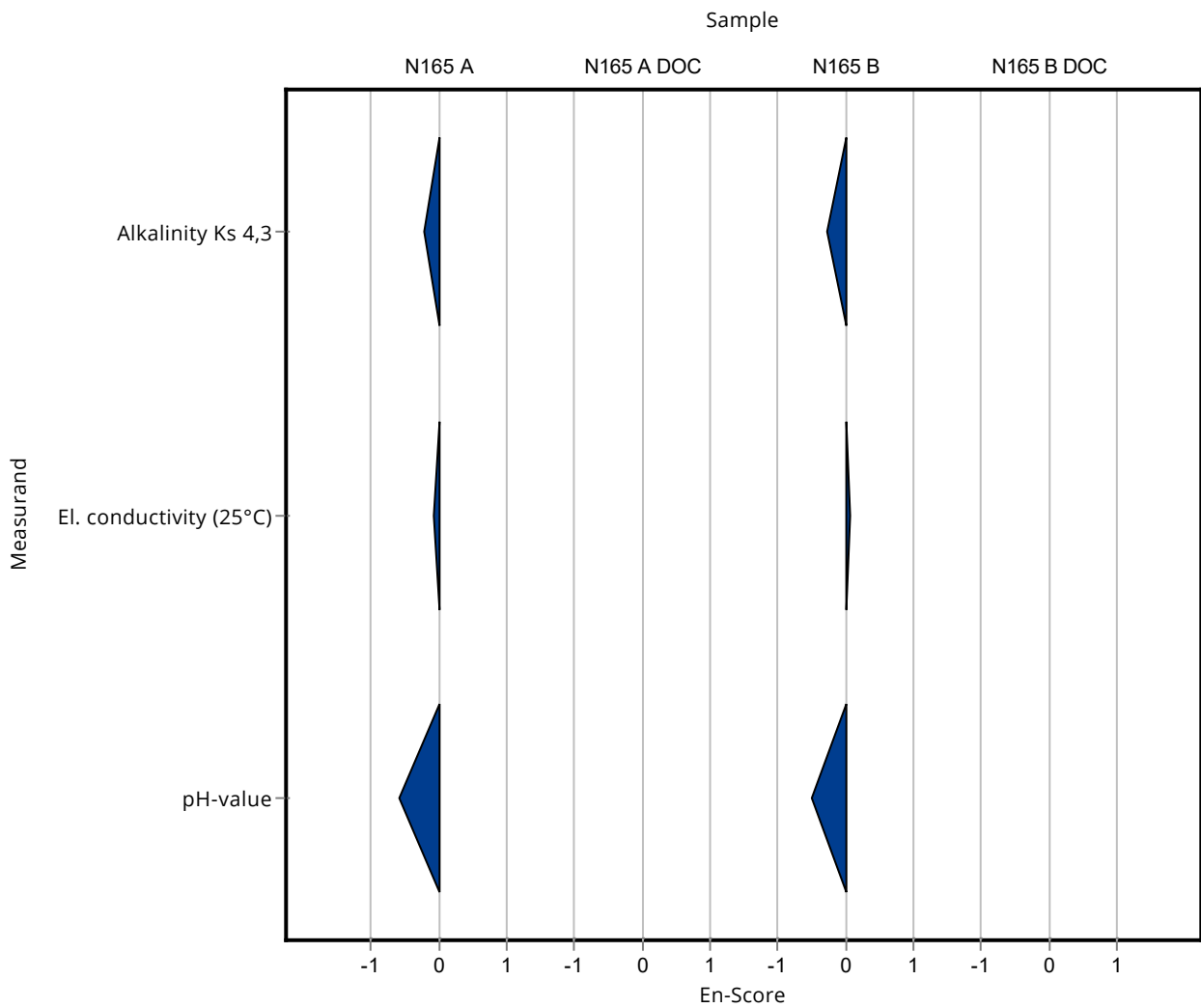
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.27 ± 0.15 | 0.0671 | 97.5 | -0.28 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 6.49 | 6.24 | 100 | 0.07 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.7 ± 0.14 | 0.157 | 98.2 | -0.50 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.86 ± 0.055 | 0.147 | 107 | 3.60 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

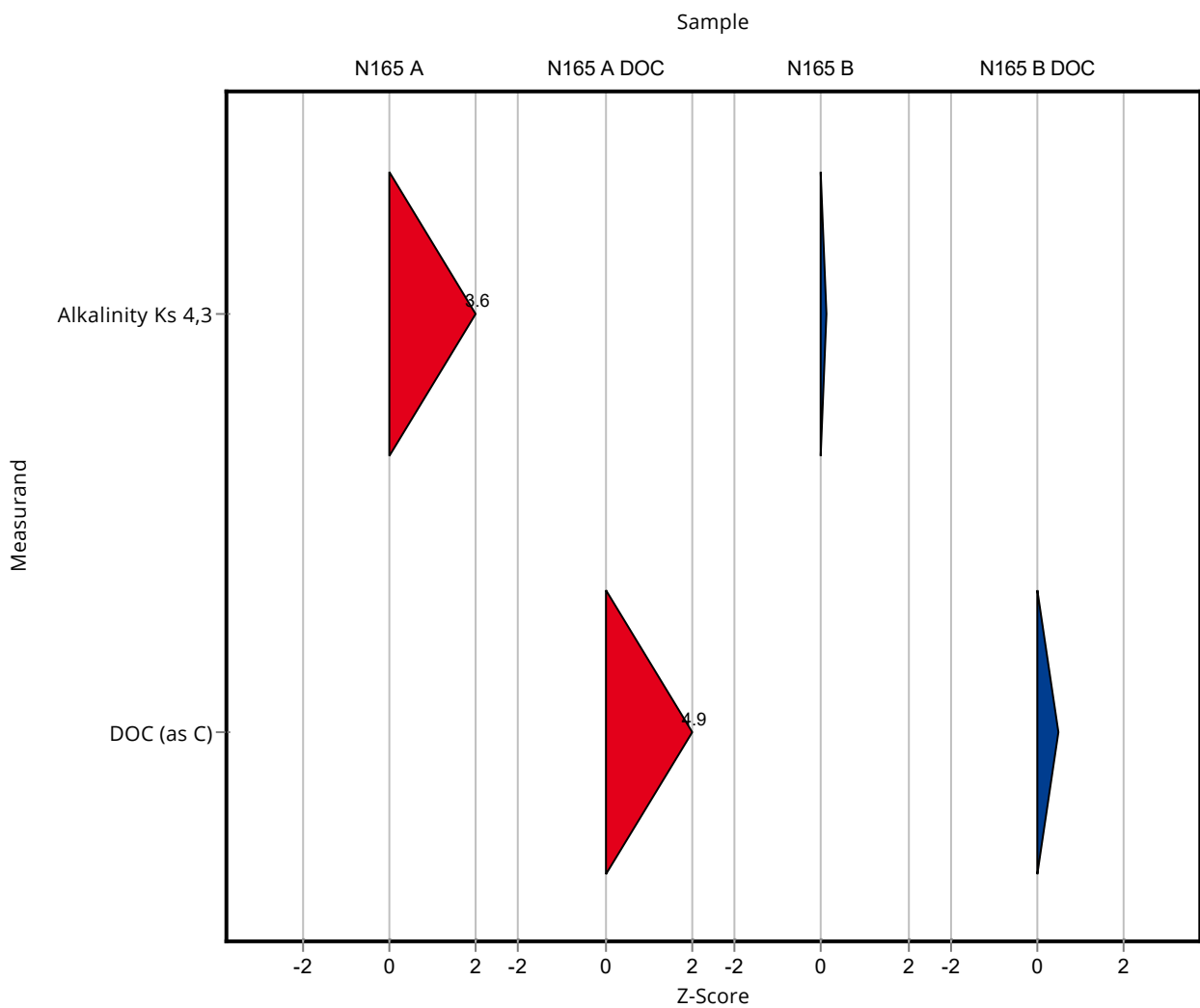
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 2.32 ± 0.27 | 0.193 | 168 | 4.87 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.024 | 0.0671 | 100 | 0.10 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.53 ± 0.41 | 0.337 | 105 | 0.46 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.86 ± 0.055 | 0.147 | 107 | 4.43 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 2.32 ± 0.27 | 0.193 | 168 | 1.73 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

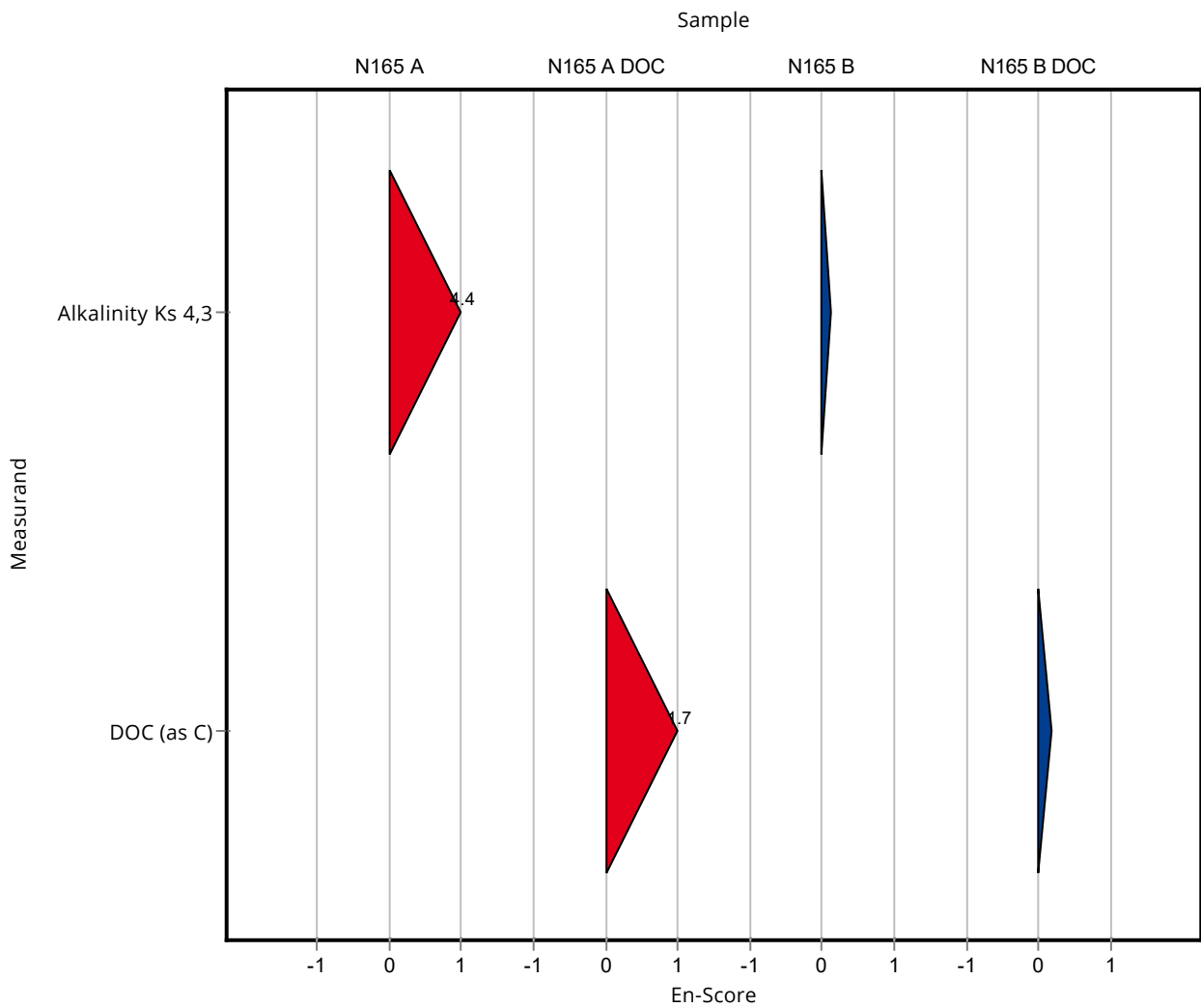
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0015

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.024 | 0.0671 | 100 | 0.13 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.53 ± 0.41 | 0.337 | 105 | 0.19 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.3 ± 0.73 | 0.147 | 99.6 | -0.22 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0655 ± 0.0035 | 0.00999 | 118 | 1.00 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0583 ± 0.015 | 0.00646 | 99.3 | -0.07 |
| Calcium | mg/l | 124 ± 1.6 | 124 ± 25 | 4.34 | 100 | 0.01 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.39 ± 5.7 | 2.3 | 99.6 | -0.09 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 920 ± 10 | 11.9 | 100 | 0.37 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 442.4 ± 44.2 | 8.9 | 99.4 | -0.29 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.4 ± 6.1 | 1.19 | 102 | 0.46 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.34 ± 1.4 | 0.716 | 100 | 0.03 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2026 ± 0.0124 | 0.011 | 97.5 | -0.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.0649 ± 0.0045 | 0.0392 | 49.7 | -1.68 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.01 ± 1 | 0.249 | 105 | 0.88 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.1 ± 4.1 | 0.914 | 101 | 0.24 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.37 ± 4.1 | 1.37 | 99.4 | -0.20 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.3304 ± 0.0229 | 0.0324 | 76.5 | -3.14 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.35 ± 0.44 | 0.131 | 99.8 | -0.06 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

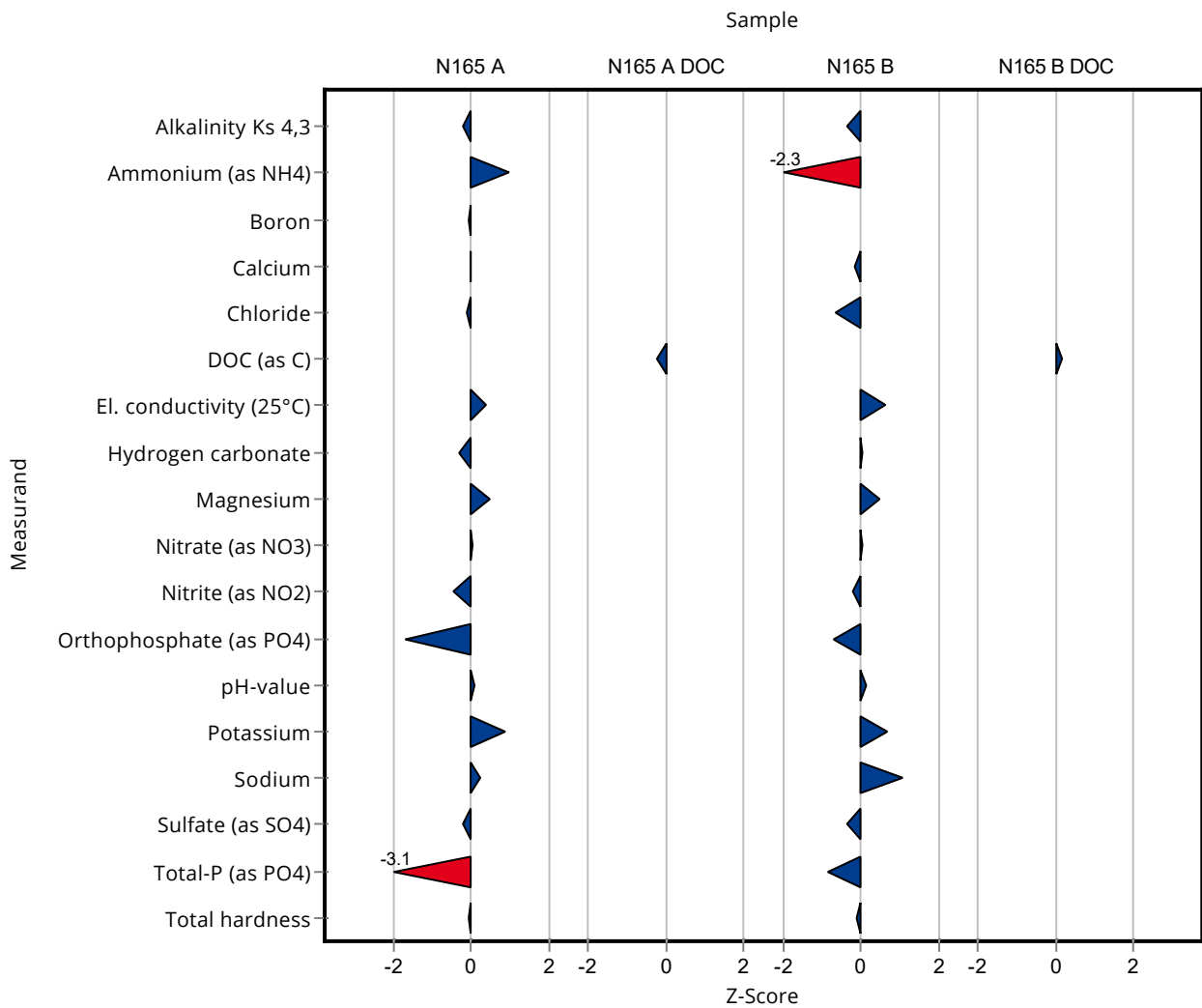
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.338 ± 0.13 | 0.193 | 97 | -0.21 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.33 | 0.0671 | 99.3 | -0.35 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1201 ± 0.0065 | 0.0199 | 72.4 | -2.30 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60.1 ± 12.1 | 1.87 | 99.4 | -0.18 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 2.5 | 1.03 | 97.3 | -0.68 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 10 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.2 ± 20.3 | 5.68 | 100 | 0.05 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 2.9 | 0.57 | 102 | 0.45 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.83 ± 1.6 | 0.791 | 100 | 0.01 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2397 ± 0.0147 | 0.0128 | 98.9 | -0.21 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1386 ± 0.0096 | 0.0166 | 92 | -0.72 |
| pH-value | - | 7.84 ± 0.0268 | 7.86 ± 0.1 | 0.157 | 100 | 0.13 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.46 ± 0.5 | 0.124 | 104 | 0.68 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 2.4 | 0.525 | 104 | 1.05 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.37 ± 3 | 1.02 | 98.7 | -0.38 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.6551 ± 0.1147 | 0.133 | 93.8 | -0.83 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.21 | 0.0632 | 99.6 | -0.13 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.426 ± 0.34 | 0.337 | 102 | 0.15 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.3 ± 0.73 | 0.147 | 99.6 | -0.02 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0655 ± 0.0035 | 0.00999 | 118 | 1.27 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0583 ± 0.015 | 0.00646 | 99.3 | -0.01 |
| Calcium | mg/l | 124 ± 1.6 | 124 ± 25 | 4.34 | 100 | 0.00 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.39 ± 5.7 | 2.3 | 99.6 | -0.02 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 920 ± 10 | 11.9 | 100 | 0.22 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 442.4 ± 44.2 | 8.9 | 99.4 | -0.03 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.4 ± 6.1 | 1.19 | 102 | 0.04 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.34 ± 1.4 | 0.716 | 100 | 0.01 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2026 ± 0.0124 | 0.011 | 97.5 | -0.21 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.0649 ± 0.0045 | 0.0392 | 49.7 | -3.54 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.01 ± 1 | 0.249 | 105 | 0.11 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.1 ± 4.1 | 0.914 | 101 | 0.03 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.37 ± 4.1 | 1.37 | 99.4 | -0.03 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.3304 ± 0.0229 | 0.0324 | 76.5 | -2.15 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.35 ± 0.44 | 0.131 | 99.8 | -0.01 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.338 ± 0.13 | 0.193 | 97 | -0.15 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

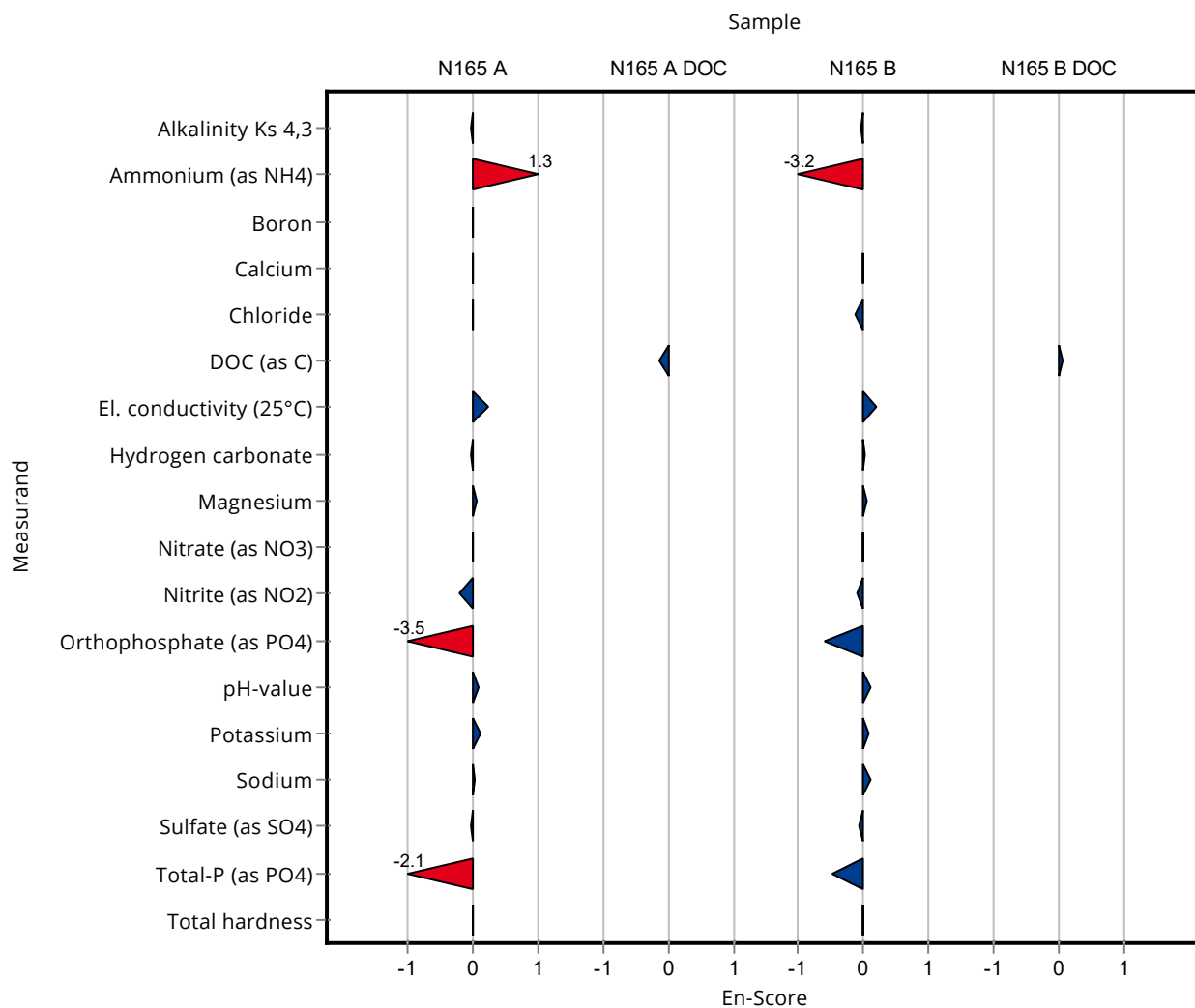
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0016

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.33 | 0.0671 | 99.3 | -0.04 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1201 ± 0.0065 | 0.0199 | 72.4 | -3.22 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60.1 ± 12.1 | 1.87 | 99.4 | -0.01 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 2.5 | 1.03 | 97.3 | -0.14 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 10 | 6.24 | 101 | 0.20 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.2 ± 20.3 | 5.68 | 100 | 0.01 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 2.9 | 0.57 | 102 | 0.04 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.83 ± 1.6 | 0.791 | 100 | 0.00 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2397 ± 0.0147 | 0.0128 | 98.9 | -0.09 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1386 ± 0.0096 | 0.0166 | 92 | -0.59 |
| pH-value | - | 7.84 ± 0.0268 | 7.86 ± 0.1 | 0.157 | 100 | 0.10 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.46 ± 0.5 | 0.124 | 104 | 0.08 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 2.4 | 0.525 | 104 | 0.12 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.37 ± 3 | 1.02 | 98.7 | -0.06 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.6551 ± 0.1147 | 0.133 | 93.8 | -0.47 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.21 | 0.0632 | 99.6 | -0.02 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.426 ± 0.34 | 0.337 | 102 | 0.08 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.21 | 0.147 | 100 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.062 ± 0.01 | 0.00999 | 112 | 0.65 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 60.7 ± 0.62 | 2.3 | 105 | 1.35 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 928 ± 6.57 | 11.9 | 101 | 1.04 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 446 ± 6.44 | 8.9 | 100 | 0.12 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.13 ± 0.97 | 0.716 | 98.7 | -0.27 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.211 ± 0.02 | 0.011 | 102 | 0.29 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.172 ± 0.02 | 0.0392 | 132 | 1.05 |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.01 | 0.154 | 99.2 | -0.41 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.451 ± 0.06 | 0.0324 | 104 | 0.58 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

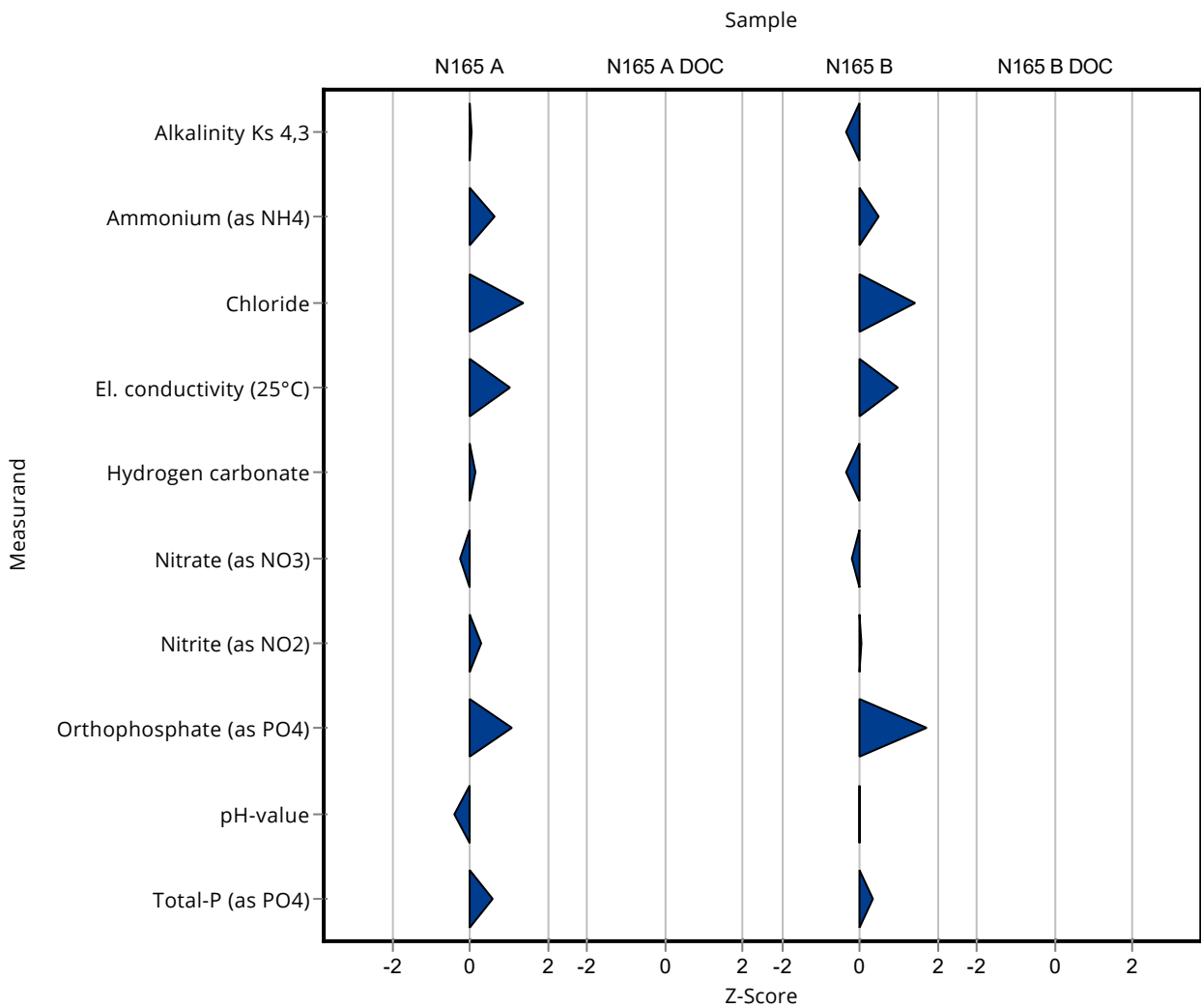
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.09 | 0.0671 | 99.3 | -0.35 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.175 ± 0.03 | 0.0199 | 106 | 0.46 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 27.1 ± 0.27 | 1.03 | 106 | 1.43 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 3.44 | 6.24 | 101 | 0.95 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 201 ± 2.9 | 5.68 | 99.1 | -0.33 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.67 ± 1.07 | 0.791 | 99 | -0.19 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.243 ± 0.02 | 0.0128 | 100 | 0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.179 ± 0.02 | 0.0166 | 119 | 1.72 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.01 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.24 | 0.133 | 103 | 0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.21 | 0.147 | 100 | 0.02 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.062 ± 0.01 | 0.00999 | 112 | 0.32 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 60.7 ± 0.62 | 2.3 | 105 | 2.28 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 928 ± 6.57 | 11.9 | 101 | 0.91 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 446 ± 6.44 | 8.9 | 100 | 0.08 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.13 ± 0.97 | 0.716 | 98.7 | -0.10 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.211 ± 0.02 | 0.011 | 102 | 0.08 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.172 ± 0.02 | 0.0392 | 132 | 0.96 |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.01 | 0.154 | 99.2 | -1.60 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.451 ± 0.06 | 0.0324 | 104 | 0.16 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

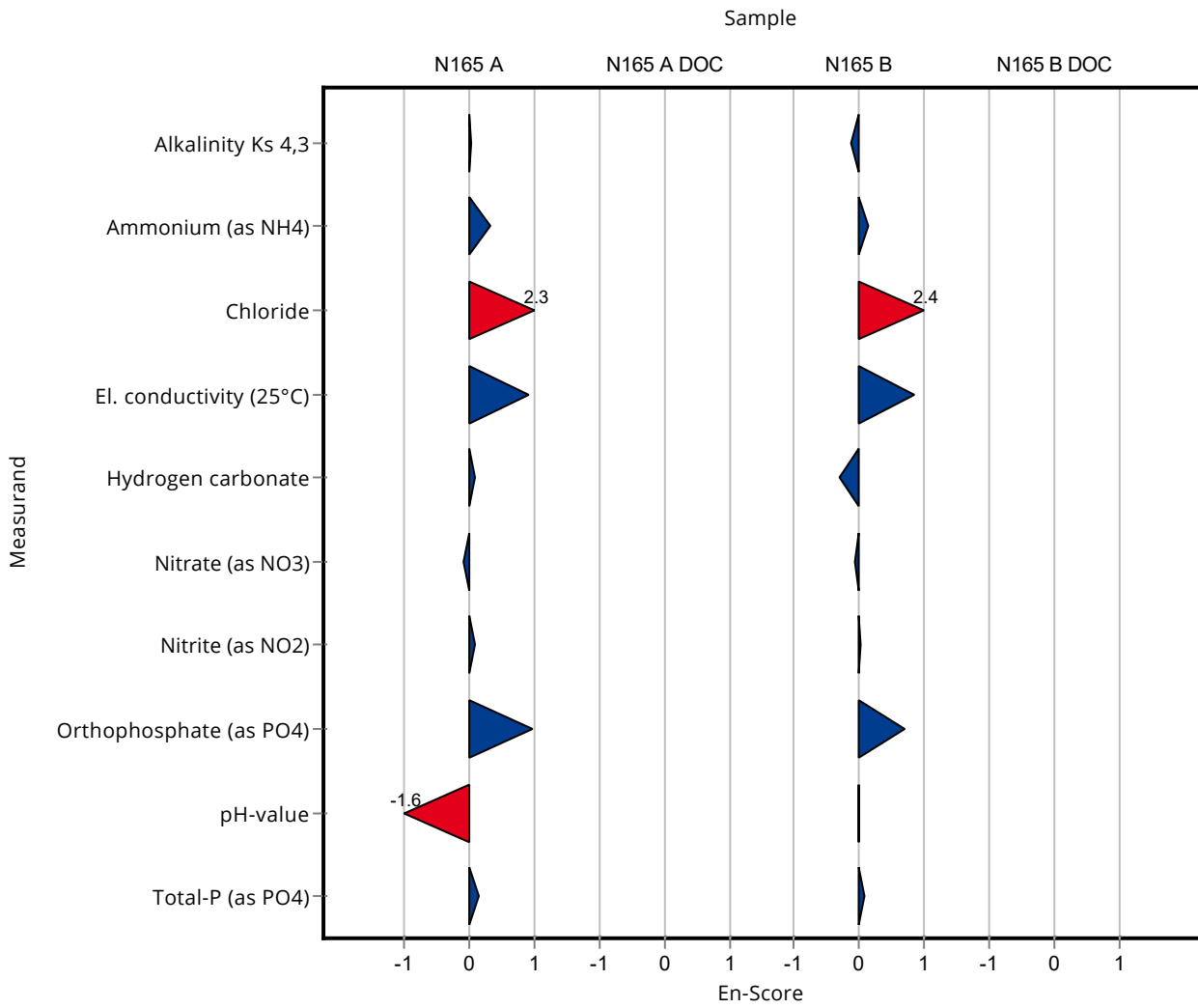
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0017

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.09 | 0.0671 | 99.3 | -0.13 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.175 ± 0.03 | 0.0199 | 106 | 0.15 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 27.1 ± 0.27 | 1.03 | 106 | 2.44 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 3.44 | 6.24 | 101 | 0.85 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 201 ± 2.9 | 5.68 | 99.1 | -0.31 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.67 ± 1.07 | 0.791 | 99 | -0.07 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.243 ± 0.02 | 0.0128 | 100 | 0.01 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.179 ± 0.02 | 0.0166 | 119 | 0.70 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.01 | 0.157 | 100 | -0.01 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.24 | 0.133 | 103 | 0.09 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.41 ± 0.6669 | 0.147 | 101 | 0.53 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.044 ± 0.01232 | 0.00999 | 79.3 | -1.15 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.054 ± 0.01026 | 0.00646 | 91.9 | -0.73 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 12.9 | 4.34 | 104 | 1.16 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.5 ± 5.2 | 2.3 | 99.8 | -0.04 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 917.5 ± 18.35 | 11.9 | 100 | 0.16 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 450 ± 22.5 | 8.9 | 101 | 0.57 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.5 ± 2.95 | 1.19 | 98.8 | -0.29 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.9 ± 1.341 | 0.716 | 104 | 0.81 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.21 ± 0.0189 | 0.011 | 101 | 0.20 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.066 ± 0.02175 | 0.0392 | 50.5 | -1.65 |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.2259 | 0.154 | 98 | -1.00 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.85 ± 0.3686 | 0.249 | 101 | 0.24 |
| Sodium | mg/l | 26.9 ± 0.356 | 26 ± 1.664 | 0.914 | 96.7 | -0.96 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 3.807 | 1.37 | 102 | 0.48 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.46 ± 0.0736 | 0.0324 | 106 | 0.86 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.48 ± 0.4 | 0.131 | 103 | 0.94 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.5 ± 0.7 | 0.29 | 100 | 0.02 |

Sample: N165ADOC

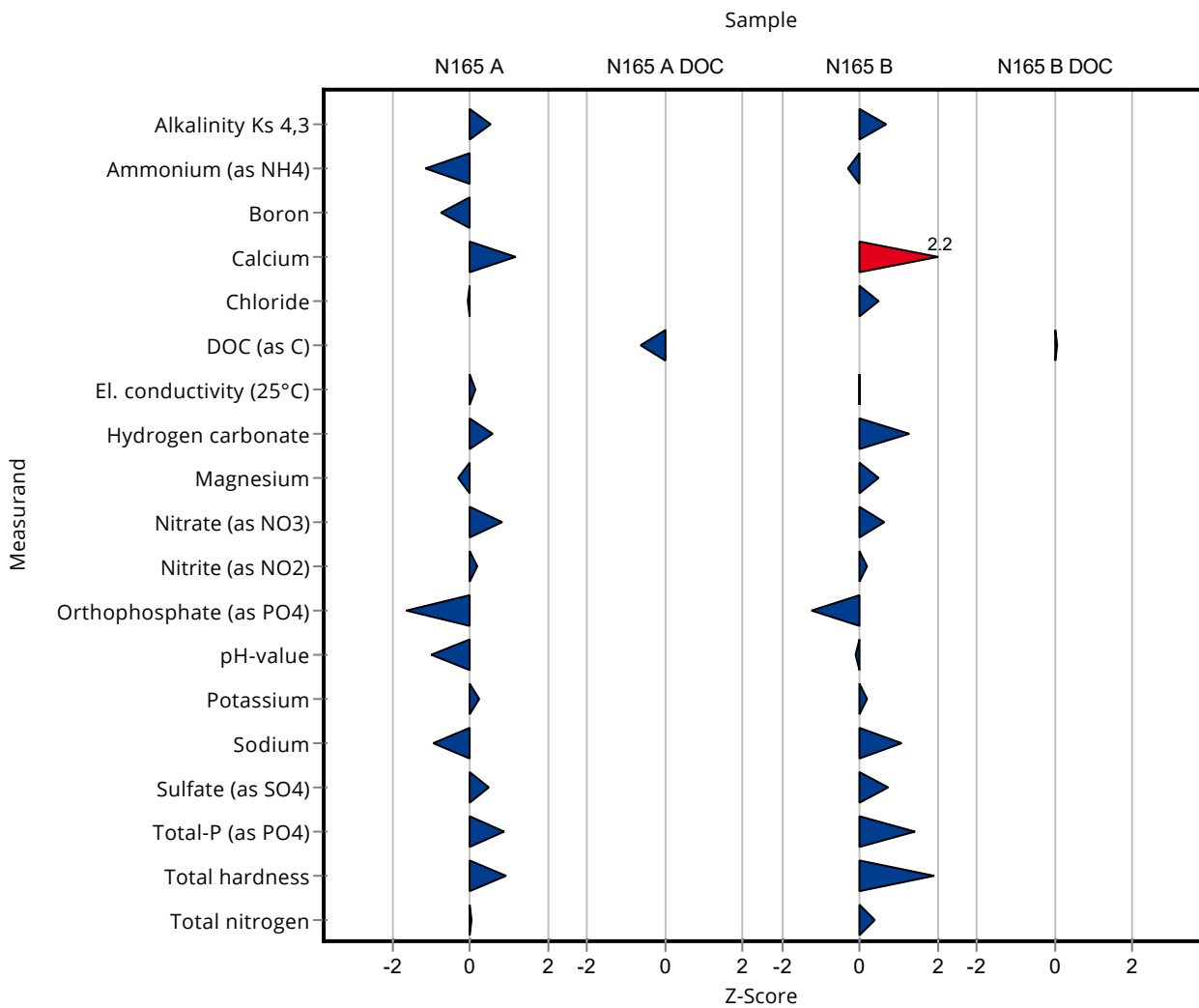
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.26 ± 0.126 | 0.193 | 91.4 | -0.62 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.4 ± 0.306 | 0.0671 | 101 | 0.69 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.16 ± 0.0448 | 0.0199 | 96.5 | -0.29 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.05 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 64.5 ± 6.45 | 1.87 | 107 | 2.17 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.1 ± 2.349 | 1.03 | 102 | 0.46 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 9.6 | 6.24 | 100 | -0.01 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 210 ± 10.5 | 5.68 | 103 | 1.25 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.45 | 0.57 | 102 | 0.45 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.3 ± 1.467 | 0.791 | 103 | 0.61 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.245 ± 0.02205 | 0.0128 | 101 | 0.20 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.13 ± 0.0195 | 0.0166 | 86.3 | -1.24 |
| pH-value | - | 7.84 ± 0.0268 | 7.82 ± 0.2346 | 0.157 | 99.7 | -0.13 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.1824 | 0.124 | 101 | 0.20 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 1.024 | 0.525 | 104 | 1.05 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.5 ± 2.835 | 1.02 | 102 | 0.73 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.95 ± 0.312 | 0.133 | 110 | 1.39 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.23 ± 0.2 | 0.0632 | 106 | 1.92 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.01 ± 0.802 | 0.323 | 103 | 0.37 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.39 ± 0.339 | 0.337 | 100 | 0.05 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.41 ± 0.6669 | 0.147 | 101 | 0.06 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.044 ± 0.01232 | 0.00999 | 79.3 | -0.46 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.054 ± 0.01026 | 0.00646 | 91.9 | -0.23 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 12.9 | 4.34 | 104 | 0.20 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.5 ± 5.2 | 2.3 | 99.8 | -0.01 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 917.5 ± 18.35 | 11.9 | 100 | 0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 450 ± 22.5 | 8.9 | 101 | 0.11 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.5 ± 2.95 | 1.19 | 98.8 | -0.06 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.9 ± 1.341 | 0.716 | 104 | 0.22 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.21 ± 0.0189 | 0.011 | 101 | 0.06 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.066 ± 0.02175 | 0.0392 | 50.5 | -1.39 |
| pH-value | - | 7.68 ± 0.034 | 7.53 ± 0.2259 | 0.154 | 98 | -0.34 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.85 ± 0.3686 | 0.249 | 101 | 0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 26 ± 1.664 | 0.914 | 96.7 | -0.26 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 3.807 | 1.37 | 102 | 0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.46 ± 0.0736 | 0.0324 | 106 | 0.19 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.48 ± 0.4 | 0.131 | 103 | 0.15 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.5 ± 0.7 | 0.29 | 100 | 0.00 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.26 ± 0.126 | 0.193 | 91.4 | -0.45 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

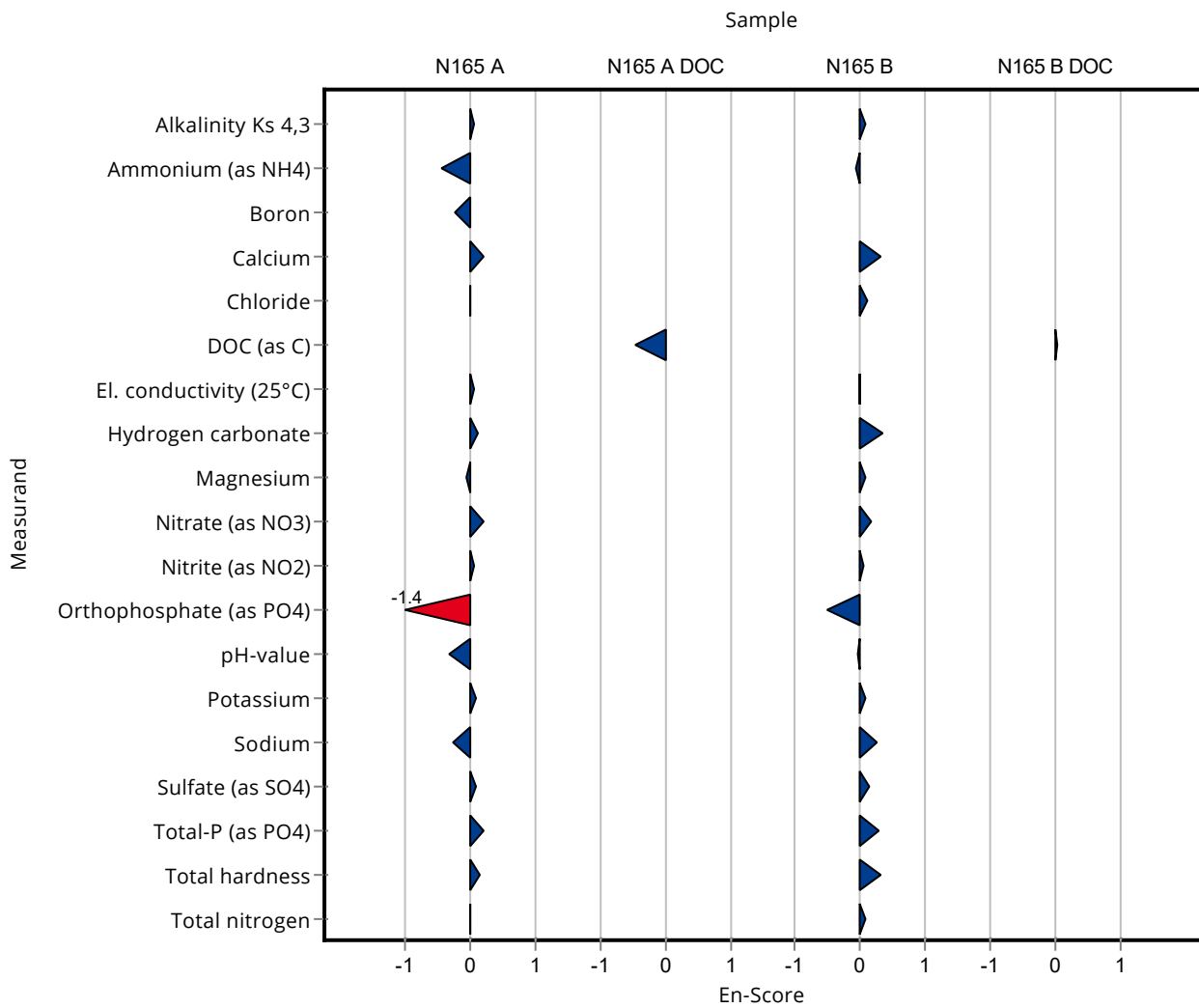
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0018

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.4 ± 0.306 | 0.0671 | 101 | 0.08 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.16 ± 0.0448 | 0.0199 | 96.5 | -0.06 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.05 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 64.5 ± 6.45 | 1.87 | 107 | 0.31 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.1 ± 2.349 | 1.03 | 102 | 0.10 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 9.6 | 6.24 | 100 | 0.00 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 210 ± 10.5 | 5.68 | 103 | 0.34 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.45 | 0.57 | 102 | 0.09 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.3 ± 1.467 | 0.791 | 103 | 0.16 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.245 ± 0.02205 | 0.0128 | 101 | 0.06 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.13 ± 0.0195 | 0.0166 | 86.3 | -0.52 |
| pH-value | - | 7.84 ± 0.0268 | 7.82 ± 0.2346 | 0.157 | 99.7 | -0.04 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.1824 | 0.124 | 101 | 0.07 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 1.024 | 0.525 | 104 | 0.27 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.5 ± 2.835 | 1.02 | 102 | 0.13 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.95 ± 0.312 | 0.133 | 110 | 0.30 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.23 ± 0.2 | 0.0632 | 106 | 0.30 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.01 ± 0.802 | 0.323 | 103 | 0.07 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.39 ± 0.339 | 0.337 | 100 | 0.02 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.36 ± 0.336 | 0.147 | 100 | 0.19 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 919 ± 12.41 | 11.9 | 100 | 0.29 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.134 | 0.154 | 99.2 | -0.41 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

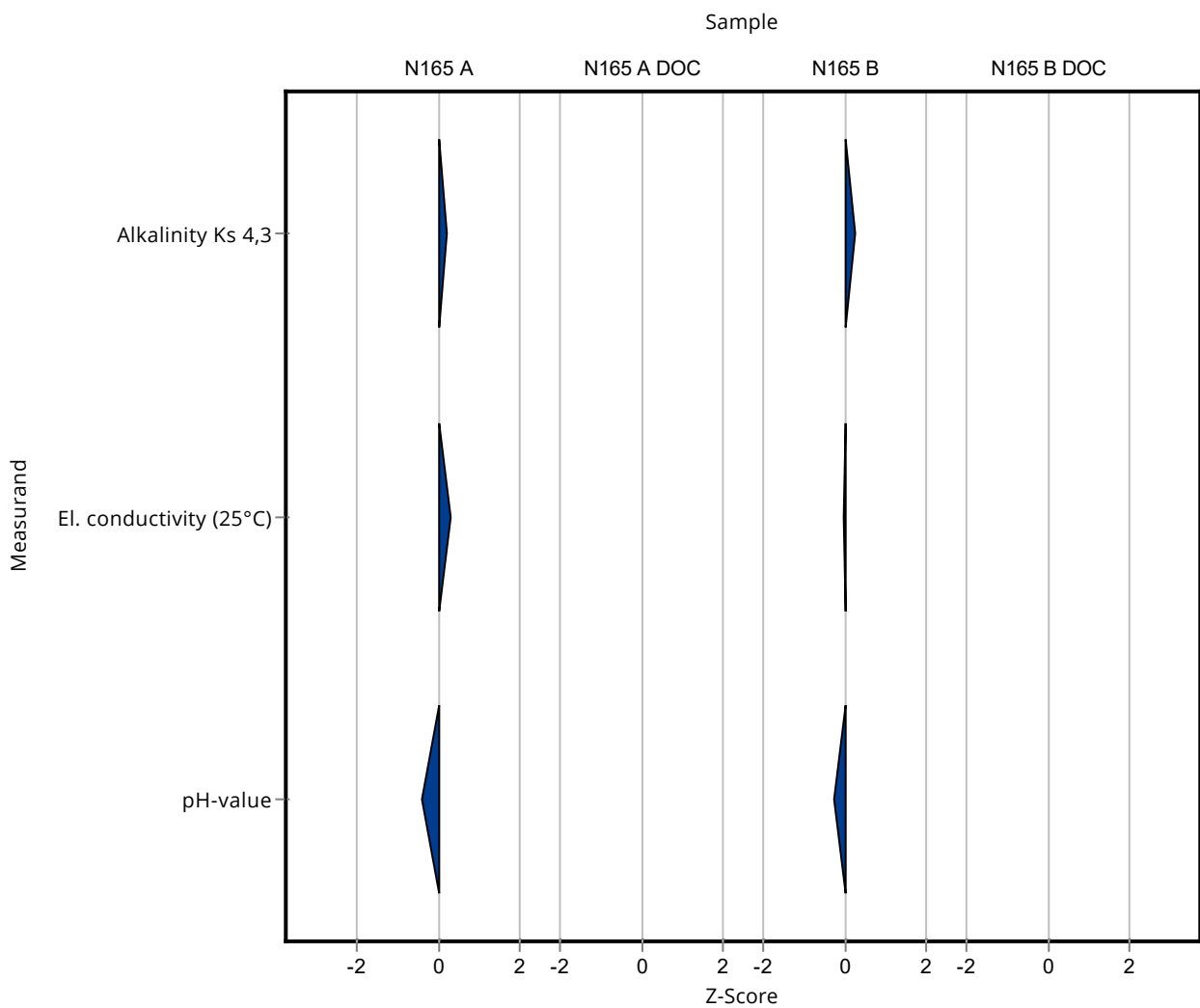
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.37 ± 0.154 | 0.0671 | 100 | 0.25 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 6.48 | 6.24 | 100 | -0.01 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.137 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.36 ± 0.336 | 0.147 | 100 | 0.04 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 919 ± 12.41 | 11.9 | 100 | 0.14 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.134 | 0.154 | 99.2 | -0.23 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

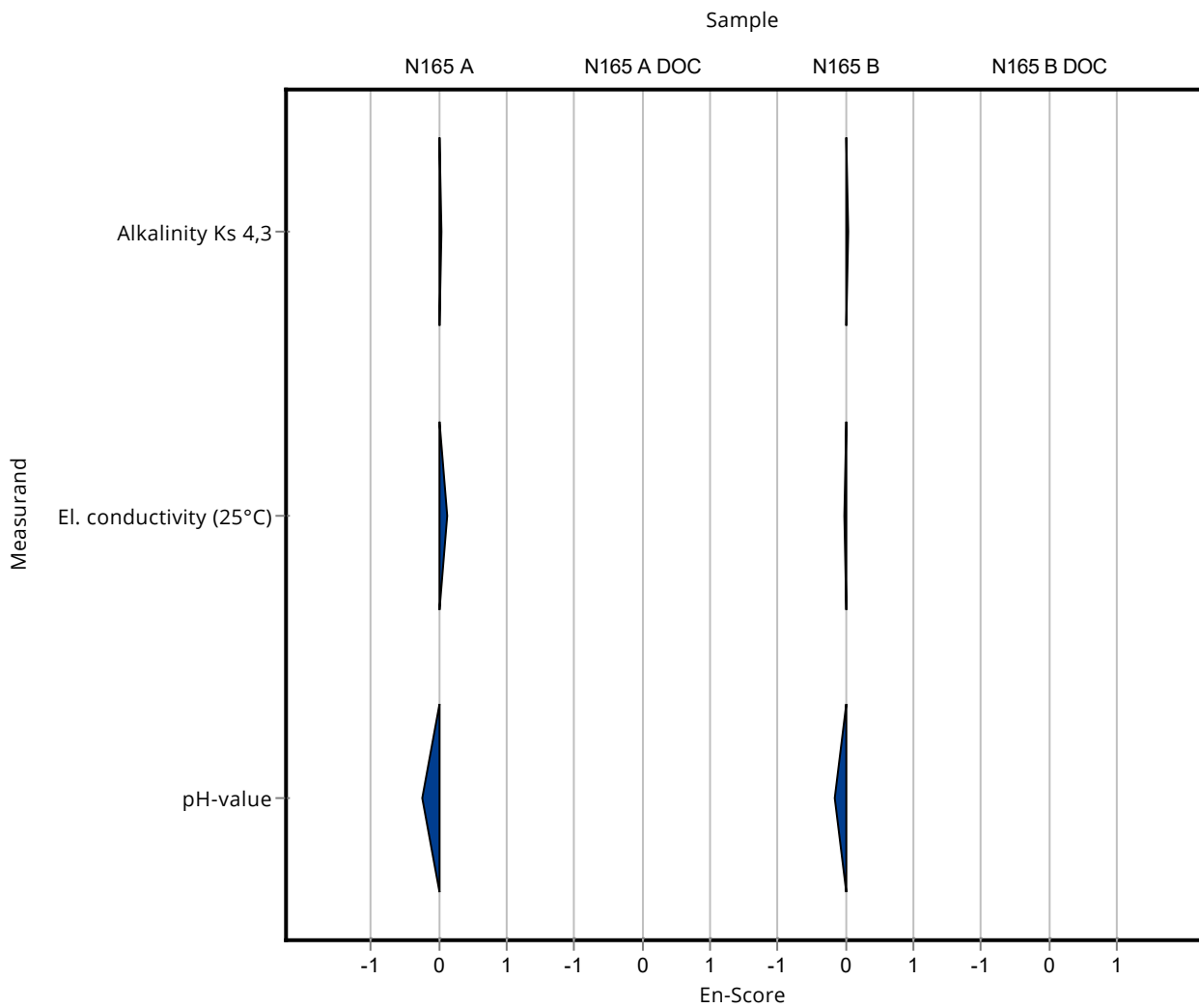
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0019

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.37 ± 0.154 | 0.0671 | 100 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 6.48 | 6.24 | 100 | 0.00 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.137 | 0.157 | 99.5 | -0.15 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 980 ± 30 | 11.9 | 107 | 5.41 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.64 ± 0.2 | 0.154 | 99.4 | -0.28 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

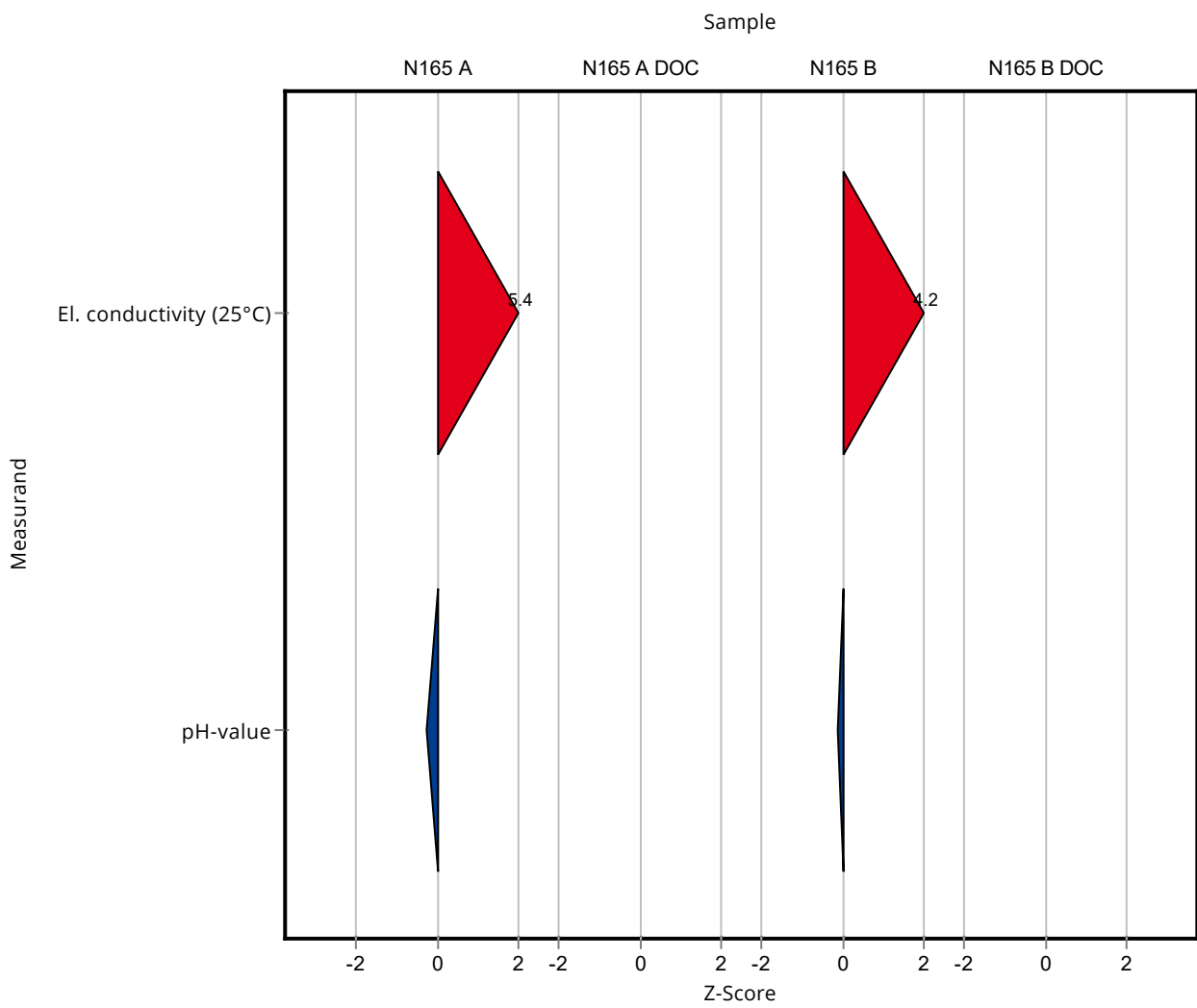
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 506 ± 15 | 6.24 | 105 | 4.16 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.82 ± 0.2 | 0.157 | 99.7 | -0.13 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 980 ± 30 | 11.9 | 107 | 1.07 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.64 ± 0.2 | 0.154 | 99.4 | -0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

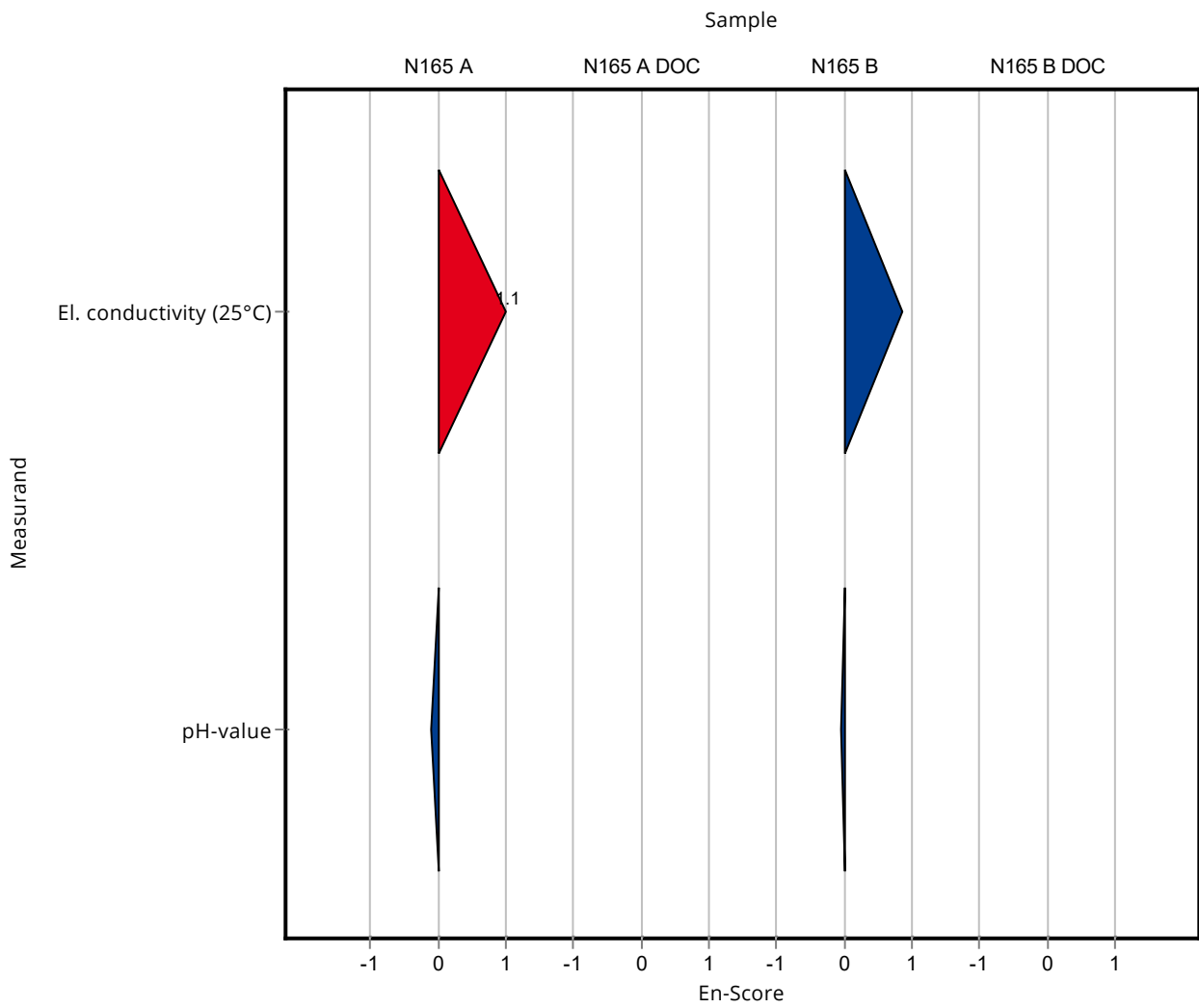
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 506 ± 15 | 6.24 | 105 | 0.86 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.82 ± 0.2 | 0.157 | 99.7 | -0.05 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.366 ± 0.1 | 0.147 | 100 | 0.23 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0477 ± 0.003 | 0.00999 | 85.9 | -0.78 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 123.62 ± 1 | 4.34 | 99.7 | -0.08 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.65 ± 0.2 | 2.3 | 98.4 | -0.41 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 2 | 11.9 | 101 | 0.54 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449.3 ± 6.1 | 8.9 | 101 | 0.49 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.65 ± 0.2 | 1.19 | 99.3 | -0.17 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.25 ± 0.4 | 0.716 | 99.5 | -0.10 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2053 ± 0.002 | 0.011 | 98.8 | -0.22 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.068 ± 0.002 | 0.0392 | 52 | -1.60 |
| pH-value | - | 7.68 ± 0.034 | 8.03 ± 0.05 | 0.154 | 105 | 2.26 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.72 ± 0.02 | 0.249 | 98.5 | -0.29 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.56 ± 0.2 | 0.914 | 98.8 | -0.35 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.27 ± 2 | 1.37 | 99.1 | -0.27 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.427 ± 0.005 | 0.0324 | 98.8 | -0.16 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.392 ± 0.1 | 0.131 | 101 | 0.26 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.371 ± 0.2 | 0.29 | 96.5 | -0.42 |

Sample: N165ADOC

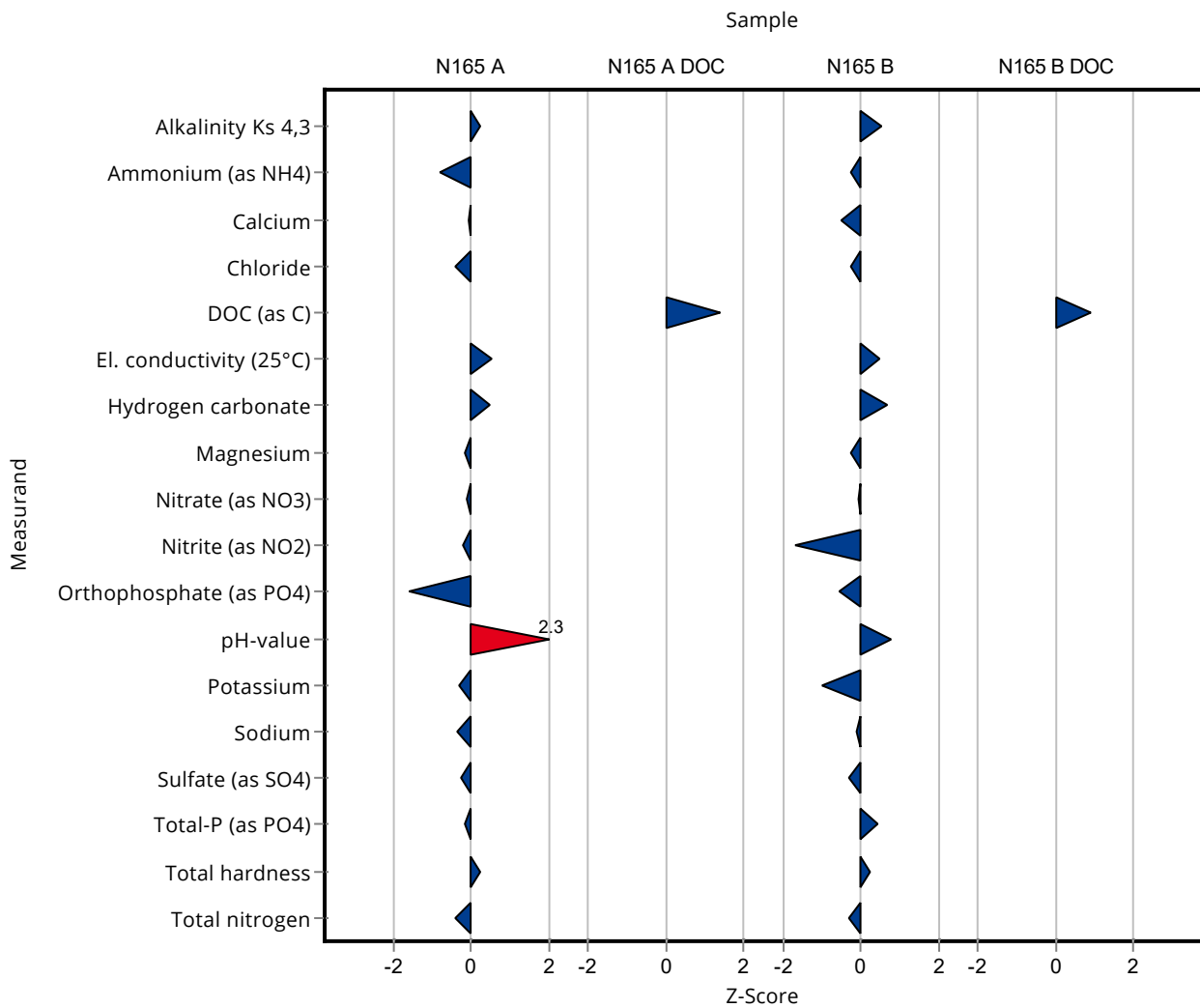
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.649 ± 0.2 | 0.193 | 120 | 1.40 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.388 ± 0.1 | 0.0671 | 101 | 0.52 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1609 ± 0.003 | 0.0199 | 97 | -0.25 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59.45 ± 1 | 1.87 | 98.4 | -0.53 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.35 ± 0.2 | 1.03 | 98.9 | -0.28 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 2 | 6.24 | 101 | 0.47 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 206.7 ± 6.1 | 5.68 | 102 | 0.67 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.09 ± 0.2 | 0.57 | 98.9 | -0.27 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.78 ± 0.4 | 0.791 | 99.7 | -0.05 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2207 ± 0.002 | 0.0128 | 91 | -1.69 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1412 ± 0.002 | 0.0166 | 93.8 | -0.57 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.05 | 0.157 | 102 | 0.76 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.25 ± 0.02 | 0.124 | 94.7 | -1.02 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.4 ± 0.2 | 0.525 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.42 ± 2 | 1.02 | 98.9 | -0.33 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.824 ± 0.005 | 0.133 | 103 | 0.44 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.122 ± 0.1 | 0.0632 | 101 | 0.22 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.795 ± 0.2 | 0.323 | 97.5 | -0.30 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.67 ± 0.2 | 0.337 | 109 | 0.88 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.366 ± 0.1 | 0.147 | 100 | 0.16 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0477 ± 0.003 | 0.00999 | 85.9 | -1.11 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 123.62 ± 1 | 4.34 | 99.7 | -0.13 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.65 ± 0.2 | 2.3 | 98.4 | -1.38 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 2 | 11.9 | 101 | 1.22 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449.3 ± 6.1 | 8.9 | 101 | 0.35 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.65 ± 0.2 | 1.19 | 99.3 | -0.34 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.25 ± 0.4 | 0.716 | 99.5 | -0.09 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2053 ± 0.002 | 0.011 | 98.8 | -0.49 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.068 ± 0.002 | 0.0392 | 52 | -3.75 |
| pH-value | - | 7.68 ± 0.034 | 8.03 ± 0.05 | 0.154 | 105 | 3.28 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.72 ± 0.02 | 0.249 | 98.5 | -1.10 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.56 ± 0.2 | 0.914 | 98.8 | -0.60 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.27 ± 2 | 1.37 | 99.1 | -0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.427 ± 0.005 | 0.0324 | 98.8 | -0.33 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.392 ± 0.1 | 0.131 | 101 | 0.17 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.371 ± 0.2 | 0.29 | 96.5 | -0.29 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.649 ± 0.2 | 0.193 | 120 | 0.66 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

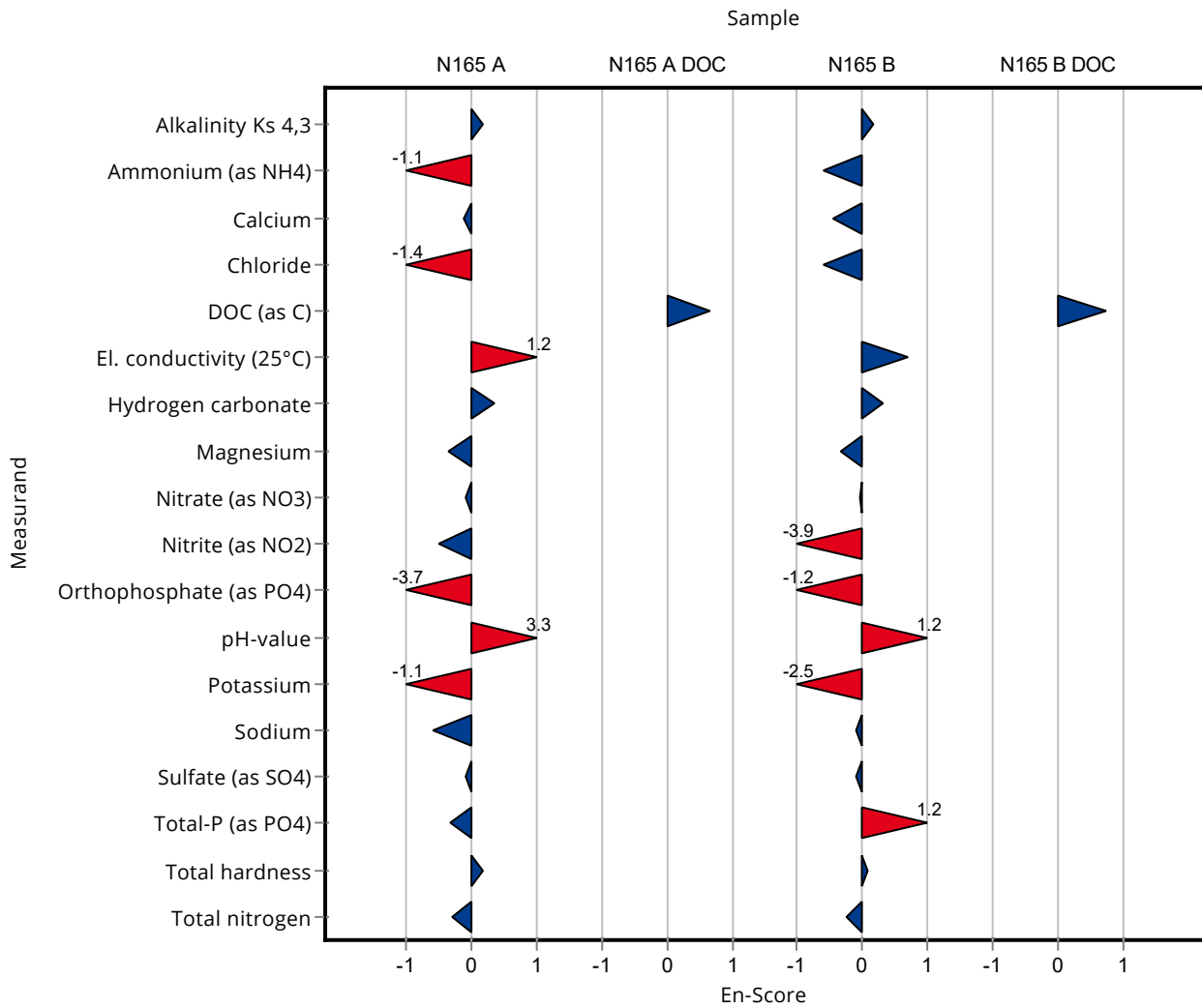
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0021

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.388 ± 0.1 | 0.0671 | 101 | 0.17 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1609 ± 0.003 | 0.0199 | 97 | -0.59 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59.45 ± 1 | 1.87 | 98.4 | -0.45 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.35 ± 0.2 | 1.03 | 98.9 | -0.59 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 2 | 6.24 | 101 | 0.69 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 206.7 ± 6.1 | 5.68 | 102 | 0.31 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.09 ± 0.2 | 0.57 | 98.9 | -0.34 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.78 ± 0.4 | 0.791 | 99.7 | -0.05 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2207 ± 0.002 | 0.0128 | 91 | -3.90 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1412 ± 0.002 | 0.0166 | 93.8 | -1.22 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.05 | 0.157 | 102 | 1.16 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.25 ± 0.02 | 0.124 | 94.7 | -2.54 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.4 ± 0.2 | 0.525 | 99.7 | -0.10 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.42 ± 2 | 1.02 | 98.9 | -0.08 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.824 ± 0.005 | 0.133 | 103 | 1.22 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.122 ± 0.1 | 0.0632 | 101 | 0.07 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.795 ± 0.2 | 0.323 | 97.5 | -0.23 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.67 ± 0.2 | 0.337 | 109 | 0.73 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.38 | 0.147 | 98.6 | -0.70 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.0035 | 0.00999 | 93.7 | -0.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.058 ± 0.0033 | 0.00646 | 98.7 | -0.11 |
| Calcium | mg/l | 124 ± 1.6 | 116 ± 4.4 | 4.34 | 93.6 | -1.83 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.1 ± 3.7 | 2.3 | 101 | 0.22 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 912 ± 11 | 11.9 | 99.6 | -0.30 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 438 ± 23 | 8.9 | 98.4 | -0.78 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.5 ± 1.1 | 1.19 | 92.1 | -1.97 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.83 | 0.716 | 99.8 | -0.03 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.155 ± 0.0095 | 0.011 | 74.6 | -4.79 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | <1 (LOQ) ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.85 ± 0.1 | 0.154 | 102 | 1.09 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.38 | 0.249 | 102 | 0.44 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.6 ± 1.7 | 0.914 | 95.2 | -1.40 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.1 ± 2.4 | 1.37 | 101 | 0.34 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.377 ± 0.027 | 0.0324 | 87.2 | -1.70 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 22.58 ± 0.9 | 0.131 | 518 | 139.39 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 4.37 ± 0.25 | 0.29 | 125 | 3.02 |

Sample: N165ADOC

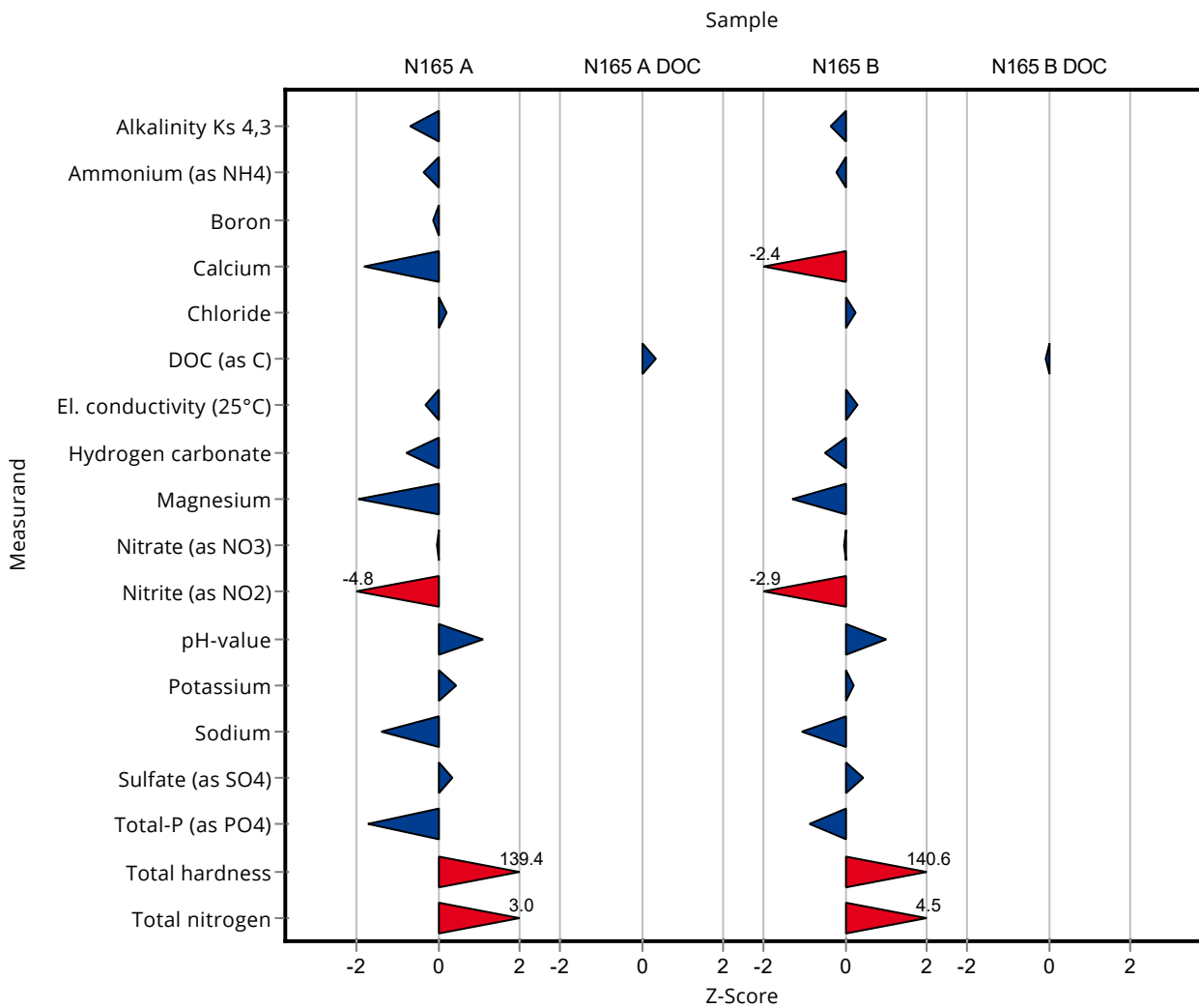
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.45 ± 0.052 | 0.193 | 105 | 0.37 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.17 | 0.0671 | 99.3 | -0.35 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.162 ± 0.011 | 0.0199 | 97.7 | -0.19 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.03 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 56 ± 2.1 | 1.87 | 92.7 | -2.37 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 1.6 | 1.03 | 101 | 0.26 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 5.7 | 6.24 | 100 | 0.31 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 200 ± 10 | 5.68 | 98.6 | -0.51 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.5 ± 0.55 | 0.57 | 94.8 | -1.30 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.8 ± 0.92 | 0.791 | 99.9 | -0.03 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.205 ± 0.012 | 0.0128 | 84.6 | -2.91 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | <1 (LOQ) ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 8 ± 0.1 | 0.157 | 102 | 1.02 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.19 | 0.124 | 101 | 0.20 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.9 ± 0.96 | 0.525 | 96.5 | -1.04 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.2 ± 1.8 | 1.02 | 101 | 0.44 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.65 ± 0.12 | 0.133 | 93.5 | -0.87 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 11 ± 0.44 | 0.0632 | 522 | 140.58 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 5.33 ± 0.31 | 0.323 | 137 | 4.45 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.35 ± 0.12 | 0.337 | 99.3 | -0.07 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.23 ± 0.38 | 0.147 | 98.6 | -0.13 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.052 ± 0.0035 | 0.00999 | 93.7 | -0.44 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.058 ± 0.0033 | 0.00646 | 98.7 | -0.11 |
| Calcium | mg/l | 124 ± 1.6 | 116 ± 4.4 | 4.34 | 93.6 | -0.89 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.1 ± 3.7 | 2.3 | 101 | 0.07 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 912 ± 11 | 11.9 | 99.6 | -0.16 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 438 ± 23 | 8.9 | 98.4 | -0.15 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.5 ± 1.1 | 1.19 | 92.1 | -1.05 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.83 | 0.716 | 99.8 | -0.01 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.155 ± 0.0095 | 0.011 | 74.6 | -2.74 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | <1 (LOQ) ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.85 ± 0.1 | 0.154 | 102 | 0.82 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.38 | 0.249 | 102 | 0.14 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.6 ± 1.7 | 0.914 | 95.2 | -0.37 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.1 ± 2.4 | 1.37 | 101 | 0.10 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.377 ± 0.027 | 0.0324 | 87.2 | -1.00 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 22.58 ± 0.9 | 0.131 | 518 | 10.12 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 4.37 ± 0.25 | 0.29 | 125 | 1.68 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.45 ± 0.052 | 0.193 | 105 | 0.57 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

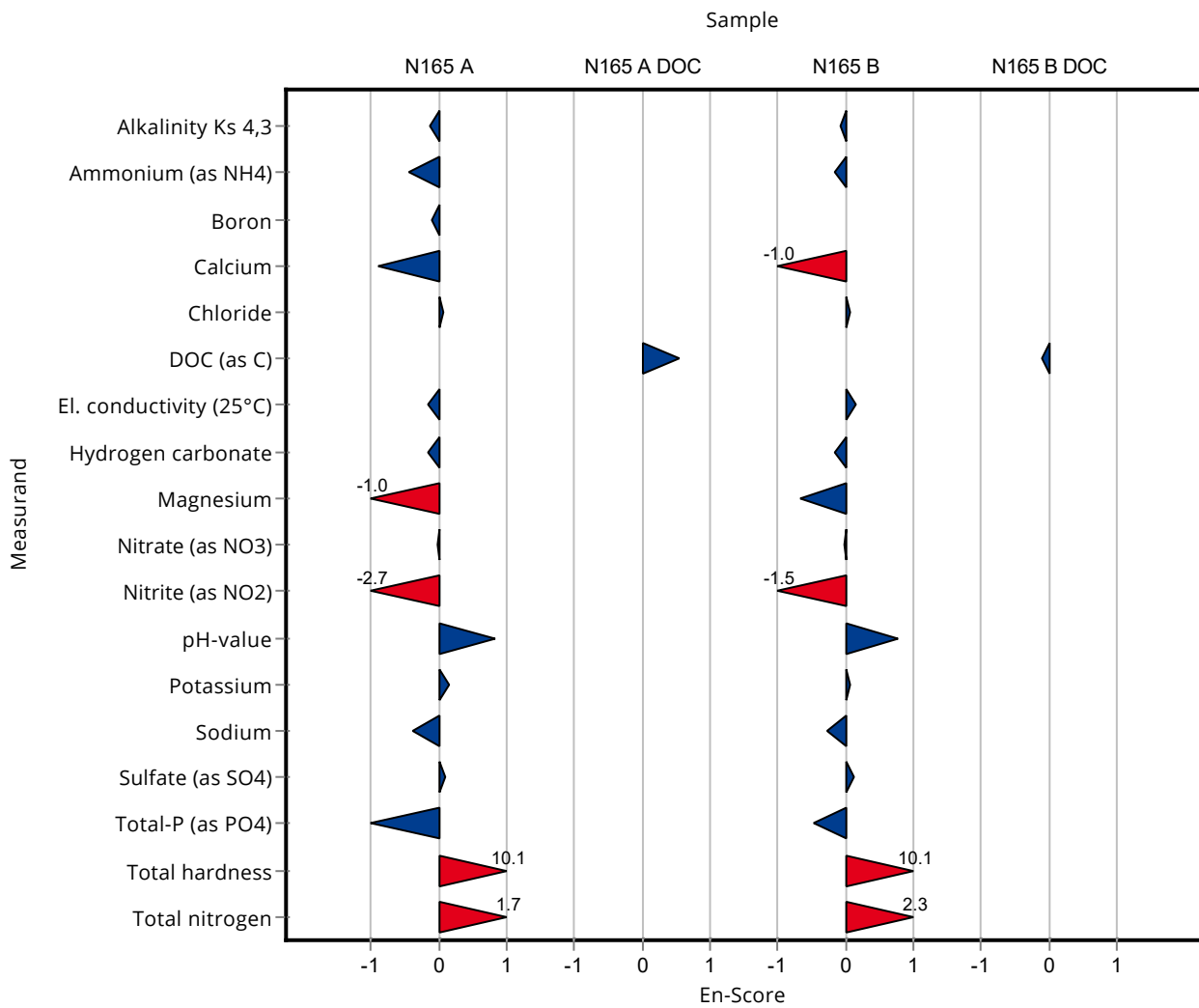
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0022

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.33 ± 0.17 | 0.0671 | 99.3 | -0.07 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.162 ± 0.011 | 0.0199 | 97.7 | -0.17 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.03 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 56 ± 2.1 | 1.87 | 92.7 | -1.04 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.9 ± 1.6 | 1.03 | 101 | 0.08 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 5.7 | 6.24 | 100 | 0.17 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 200 ± 10 | 5.68 | 98.6 | -0.14 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.5 ± 0.55 | 0.57 | 94.8 | -0.66 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.8 ± 0.92 | 0.791 | 99.9 | -0.01 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.205 ± 0.012 | 0.0128 | 84.6 | -1.54 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | <1 (LOQ) ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 8 ± 0.1 | 0.157 | 102 | 0.79 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.19 | 0.124 | 101 | 0.06 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.9 ± 0.96 | 0.525 | 96.5 | -0.28 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.2 ± 1.8 | 1.02 | 101 | 0.12 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.65 ± 0.12 | 0.133 | 93.5 | -0.47 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 11 ± 0.44 | 0.0632 | 522 | 10.10 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 5.33 ± 0.31 | 0.323 | 137 | 2.28 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.35 ± 0.12 | 0.337 | 99.3 | -0.10 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.168 ± 0.72 | 0.147 | 97.8 | -1.12 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.075 ± 0.015 | 0.00999 | 135 | 1.95 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.051 ± 0.01 | 0.00646 | 86.8 | -1.20 |
| Calcium | mg/l | 124 ± 1.6 | 125 ± 25 | 4.34 | 101 | 0.24 |
| Chloride | mg/l | 57.6 ± 0.558 | 60.3 ± 9 | 2.3 | 105 | 1.17 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 904 ± 90 | 11.9 | 98.7 | -0.97 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 437 ± 44 | 8.9 | 98.2 | -0.90 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 6.2 | 1.19 | 103 | 0.79 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 2.3 | 0.716 | 105 | 0.95 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.204 ± 0.031 | 0.011 | 98.2 | -0.34 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.108 ± 0.016 | 0.0392 | 82.6 | -0.58 |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.76 | 0.154 | 98.9 | -0.54 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.25 ± 1.1 | 0.249 | 110 | 1.84 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.5 ± 5.5 | 0.914 | 102 | 0.68 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 45.3 ± 6.8 | 1.37 | 109 | 2.66 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.429 ± 0.086 | 0.0324 | 99.3 | -0.10 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.41 ± 0.88 | 0.131 | 101 | 0.40 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

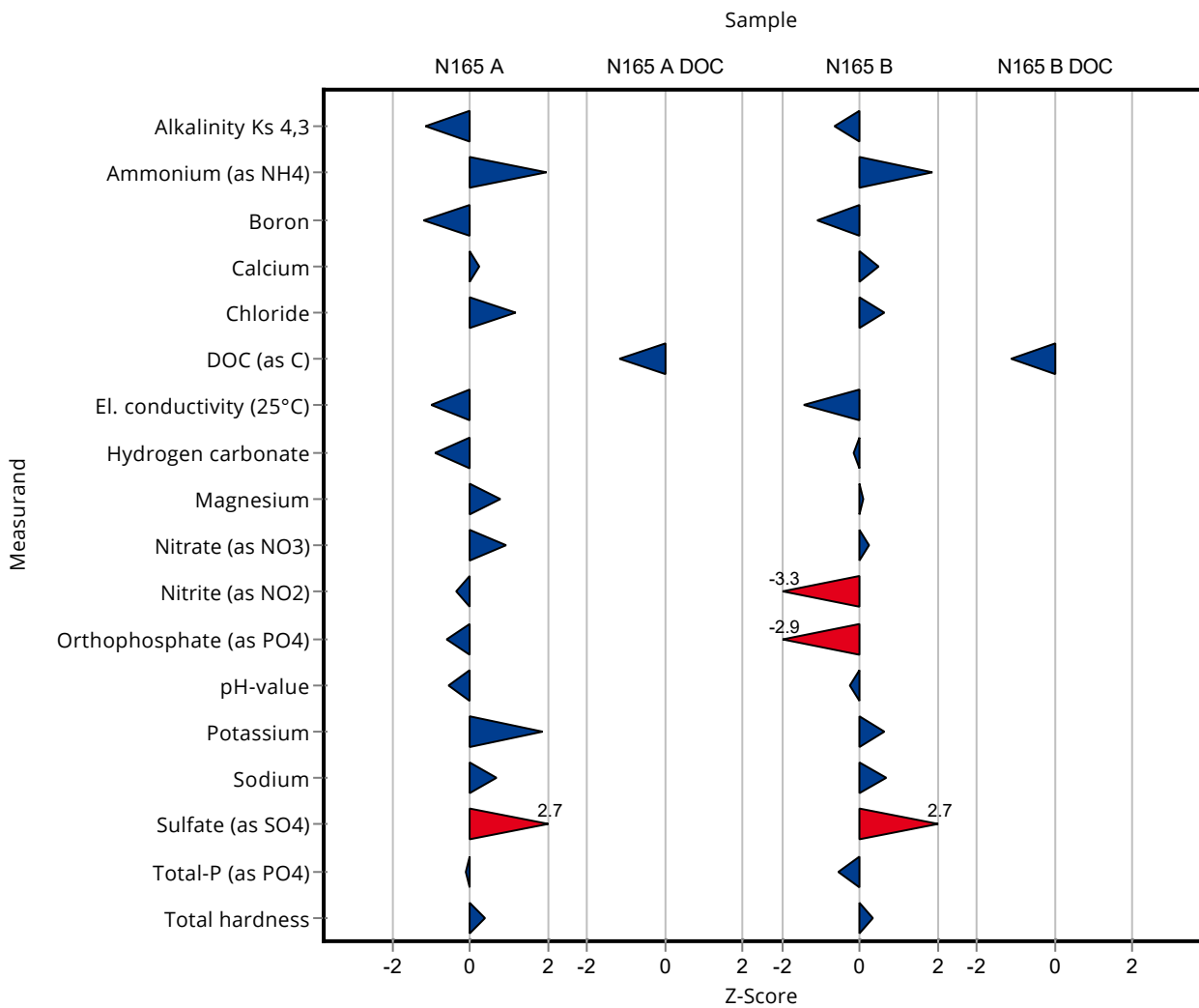
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.15 ± 0.35 | 0.193 | 83.4 | -1.19 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.33 | 0.0671 | 98.7 | -0.65 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.203 ± 0.041 | 0.0199 | 122 | 1.87 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.012 ± 0.0025 | 0.00215 | 83.6 | -1.09 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.3 ± 12 | 1.87 | 101 | 0.46 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.3 ± 3.9 | 1.03 | 103 | 0.65 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 47 | 6.24 | 98.1 | -1.45 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202 ± 20 | 5.68 | 99.6 | -0.16 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 2.9 | 0.57 | 100 | 0.10 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16 ± 2.4 | 0.791 | 101 | 0.23 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2 ± 0.03 | 0.0128 | 82.5 | -3.30 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.103 ± 0.016 | 0.0166 | 68.4 | -2.87 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.78 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.45 ± 0.49 | 0.124 | 103 | 0.60 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 3.2 | 0.525 | 102 | 0.67 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 33.5 ± 5 | 1.02 | 109 | 2.70 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.69 ± 0.34 | 0.133 | 95.7 | -0.57 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.13 ± 0.43 | 0.0632 | 101 | 0.34 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.9 | 0.337 | 88.9 | -1.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.168 ± 0.72 | 0.147 | 97.8 | -0.11 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.075 ± 0.015 | 0.00999 | 135 | 0.65 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.051 ± 0.01 | 0.00646 | 86.8 | -0.39 |
| Calcium | mg/l | 124 ± 1.6 | 125 ± 25 | 4.34 | 101 | 0.02 |
| Chloride | mg/l | 57.6 ± 0.558 | 60.3 ± 9 | 2.3 | 105 | 0.15 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 904 ± 90 | 11.9 | 98.7 | -0.06 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 437 ± 44 | 8.9 | 98.2 | -0.09 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 6.2 | 1.19 | 103 | 0.08 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 2.3 | 0.716 | 105 | 0.15 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.204 ± 0.031 | 0.011 | 98.2 | -0.06 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.108 ± 0.016 | 0.0392 | 82.6 | -0.63 |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.76 | 0.154 | 98.9 | -0.05 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.25 ± 1.1 | 0.249 | 110 | 0.21 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.5 ± 5.5 | 0.914 | 102 | 0.06 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 45.3 ± 6.8 | 1.37 | 109 | 0.27 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.429 ± 0.086 | 0.0324 | 99.3 | -0.02 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.41 ± 0.88 | 0.131 | 101 | 0.03 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.15 ± 0.35 | 0.193 | 83.4 | -0.33 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

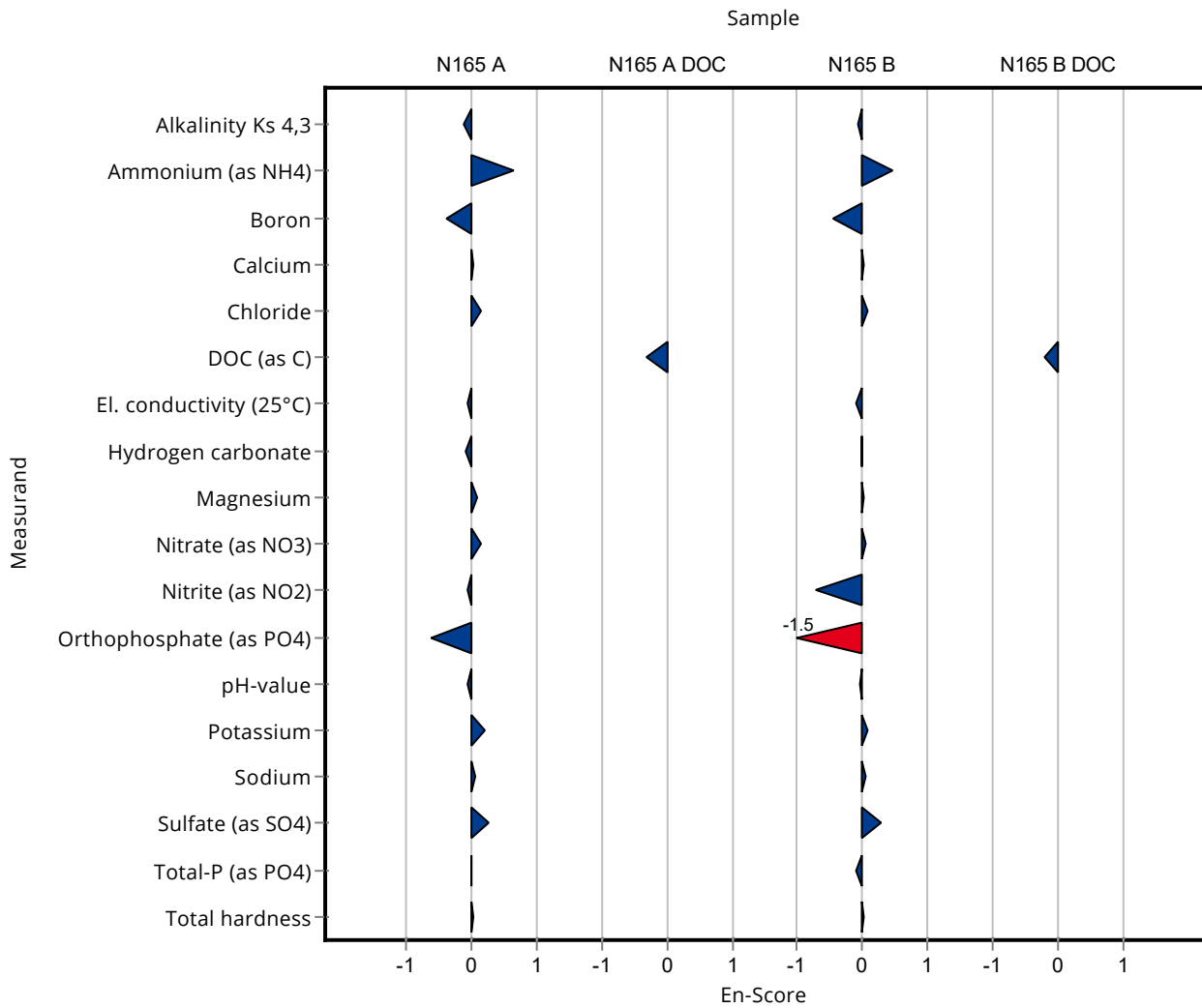
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0023

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.31 ± 0.33 | 0.0671 | 98.7 | -0.07 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.203 ± 0.041 | 0.0199 | 122 | 0.45 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.012 ± 0.0025 | 0.00215 | 83.6 | -0.46 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.3 ± 12 | 1.87 | 101 | 0.04 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.3 ± 3.9 | 1.03 | 103 | 0.09 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 47 | 6.24 | 98.1 | -0.10 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202 ± 20 | 5.68 | 99.6 | -0.02 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.3 ± 2.9 | 0.57 | 100 | 0.01 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16 ± 2.4 | 0.791 | 101 | 0.04 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2 ± 0.03 | 0.0128 | 82.5 | -0.71 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.103 ± 0.016 | 0.0166 | 68.4 | -1.46 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.78 | 0.157 | 99.5 | -0.03 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.45 ± 0.49 | 0.124 | 103 | 0.08 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 3.2 | 0.525 | 102 | 0.06 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 33.5 ± 5 | 1.02 | 109 | 0.27 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.69 ± 0.34 | 0.133 | 95.7 | -0.11 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.13 ± 0.43 | 0.0632 | 101 | 0.03 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.9 | 0.337 | 88.9 | -0.21 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.42 ± 0.015 | 0.147 | 101 | 0.60 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0584 ± 0.0005 | 0.00999 | 105 | 0.29 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0596 ± 0.001 | 0.00646 | 101 | 0.13 |
| Calcium | mg/l | 124 ± 1.6 | 119 ± 2.082 | 4.34 | 96 | -1.14 |
| Chloride | mg/l | 57.6 ± 0.558 | 59.3 ± 0.351 | 2.3 | 103 | 0.74 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 889 ± 6.429 | 11.9 | 97.1 | -2.23 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449 ± 1 | 8.9 | 101 | 0.45 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.1 ± 0.681 | 1.19 | 97.5 | -0.63 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 0.058 | 0.716 | 105 | 0.95 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.002 | 0.011 | 100 | 0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.155 ± 0.004 | 0.0392 | 119 | 0.62 |
| pH-value | - | 7.68 ± 0.034 | 7.86 ± 0.006 | 0.154 | 102 | 1.15 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.092 | 0.249 | 96 | -0.77 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.1 ± 0.351 | 0.914 | 101 | 0.24 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.8 ± 0.289 | 1.37 | 103 | 0.85 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.363 ± 0.001 | 0.0324 | 84 | -2.13 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.16 ± 0.038 | 0.131 | 95.5 | -1.51 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.39 ± 0.079 | 0.29 | 97 | -0.36 |

Sample: N165ADOC

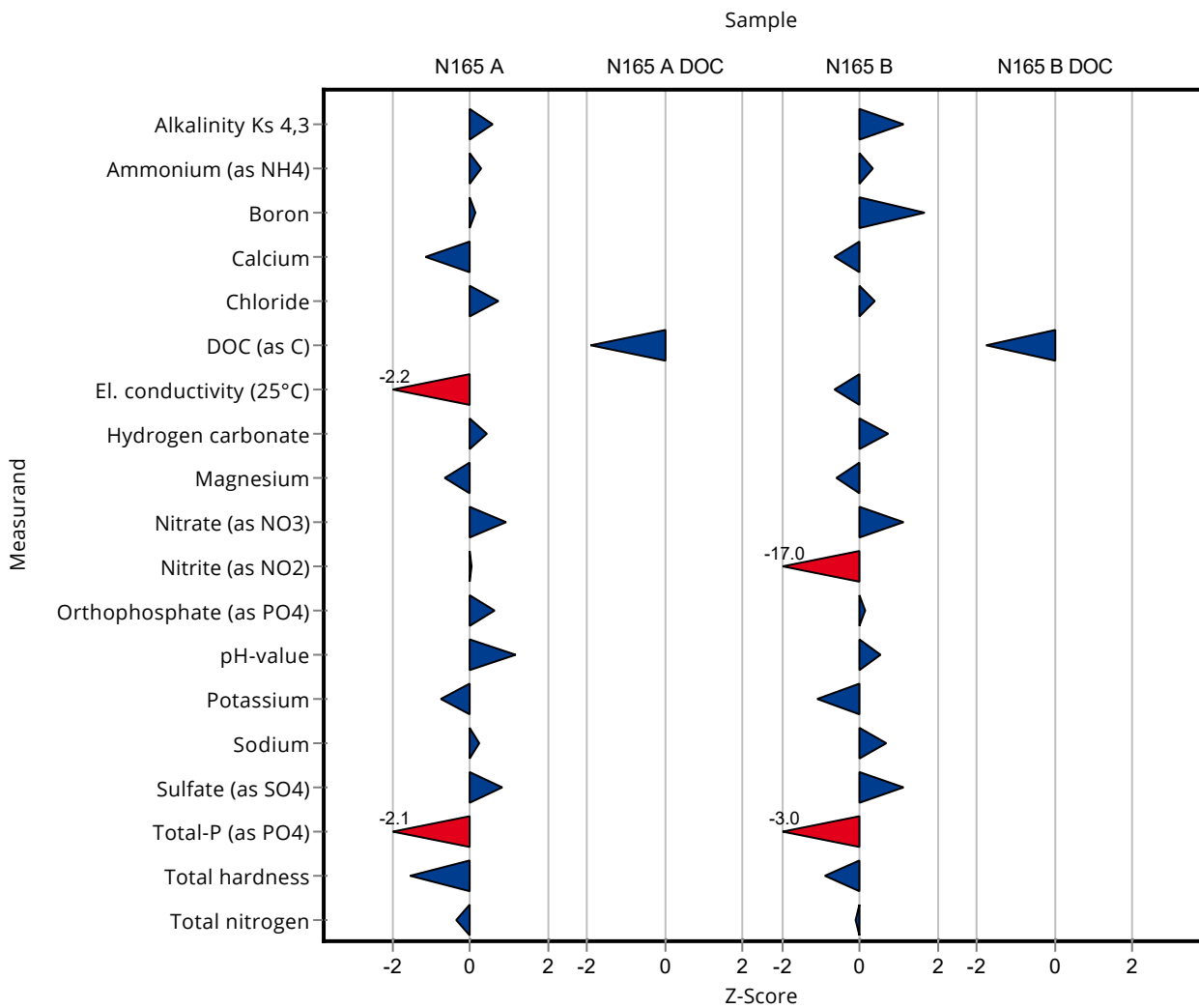
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.01 ± 0.015 | 0.193 | 73.2 | -1.91 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.43 ± 0.026 | 0.0671 | 102 | 1.14 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.172 ± 0.001 | 0.0199 | 104 | 0.31 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0179 ± 0.001 | 0.00215 | 125 | 1.65 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.2 ± 1.106 | 1.87 | 98 | -0.66 |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 0.208 | 1.03 | 101 | 0.36 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 2 | 6.24 | 99.2 | -0.65 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 207 ± 1.528 | 5.68 | 102 | 0.72 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.9 ± 0.208 | 0.57 | 97.6 | -0.60 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.7 ± 0.1 | 0.791 | 106 | 1.11 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.0239 ± 0.001 | 0.0128 | 9.86 | -17.01 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.153 ± 0.001 | 0.0166 | 102 | 0.15 |
| pH-value | - | 7.84 ± 0.0268 | 7.92 ± 0.015 | 0.157 | 101 | 0.51 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.24 ± 0.032 | 0.124 | 94.3 | -1.10 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 0.231 | 0.525 | 102 | 0.67 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.9 ± 0.252 | 1.02 | 104 | 1.13 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.37 ± 0.021 | 0.133 | 77.6 | -2.98 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.05 ± 0.036 | 0.0632 | 97.2 | -0.92 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.86 ± 0.031 | 0.323 | 99.2 | -0.10 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 2.78 ± 0.036 | 0.337 | 82.4 | -1.76 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.42 ± 0.015 | 0.147 | 101 | 1.61 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0584 ± 0.0005 | 0.00999 | 105 | 0.77 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0596 ± 0.001 | 0.00646 | 101 | 0.32 |
| Calcium | mg/l | 124 ± 1.6 | 119 ± 2.082 | 4.34 | 96 | -1.11 |
| Chloride | mg/l | 57.6 ± 0.558 | 59.3 ± 0.351 | 2.3 | 103 | 1.90 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 889 ± 6.429 | 11.9 | 97.1 | -2.00 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 449 ± 1 | 8.9 | 101 | 1.16 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.1 ± 0.681 | 1.19 | 97.5 | -0.53 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 0.058 | 0.716 | 105 | 3.30 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.208 ± 0.002 | 0.011 | 100 | 0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.155 ± 0.004 | 0.0392 | 119 | 1.34 |
| pH-value | - | 7.68 ± 0.034 | 7.86 ± 0.006 | 0.154 | 102 | 4.90 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.092 | 0.249 | 96 | -1.00 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.1 ± 0.351 | 0.914 | 101 | 0.28 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.8 ± 0.289 | 1.37 | 103 | 1.85 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.363 ± 0.001 | 0.0324 | 84 | -5.69 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.16 ± 0.038 | 0.131 | 95.5 | -2.31 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.39 ± 0.079 | 0.29 | 97 | -0.47 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.01 ± 0.015 | 0.193 | 73.2 | -4.82 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

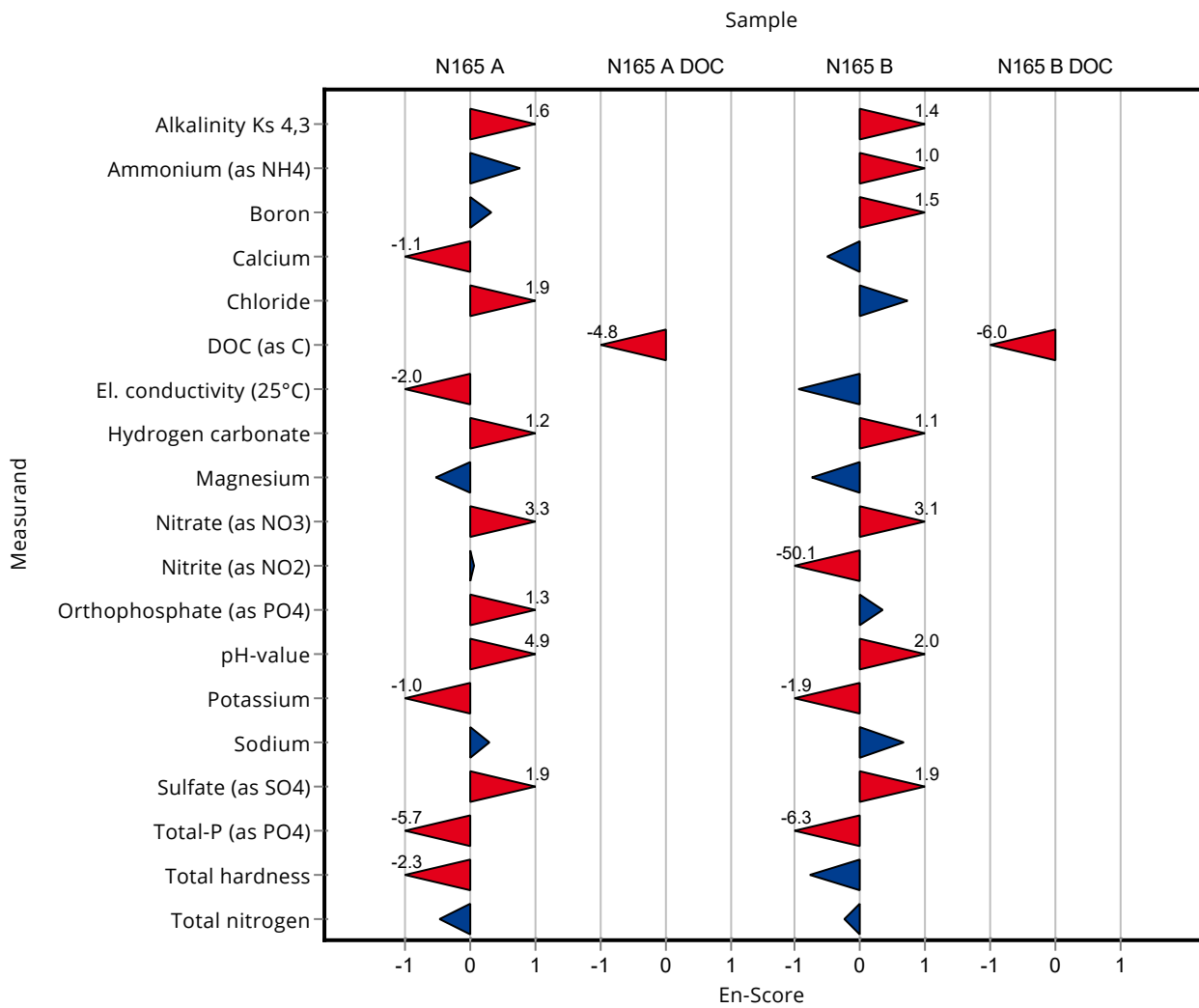
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0024

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.43 ± 0.026 | 0.0671 | 102 | 1.36 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.172 ± 0.001 | 0.0199 | 104 | 1.02 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0179 ± 0.001 | 0.00215 | 125 | 1.51 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.2 ± 1.106 | 1.87 | 98 | -0.52 |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 0.208 | 1.03 | 101 | 0.74 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 2 | 6.24 | 99.2 | -0.95 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 207 ± 1.528 | 5.68 | 102 | 1.12 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.9 ± 0.208 | 0.57 | 97.6 | -0.74 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.7 ± 0.1 | 0.791 | 106 | 3.05 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.0239 ± 0.001 | 0.0128 | 9.86 | -50.08 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.153 ± 0.001 | 0.0166 | 102 | 0.35 |
| pH-value | - | 7.84 ± 0.0268 | 7.92 ± 0.015 | 0.157 | 101 | 1.98 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.24 ± 0.032 | 0.124 | 94.3 | -1.93 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.8 ± 0.231 | 0.525 | 102 | 0.68 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.9 ± 0.252 | 1.02 | 104 | 1.94 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.37 ± 0.021 | 0.133 | 77.6 | -6.28 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.05 ± 0.036 | 0.0632 | 97.2 | -0.78 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.86 ± 0.031 | 0.323 | 99.2 | -0.23 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 2.78 ± 0.036 | 0.337 | 82.4 | -6.05 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 59.6 ± 2.7 | 2.3 | 103 | 0.87 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.2 ± 0.82 | 0.716 | 99.2 | -0.17 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.198 ± 0.012 | 0.011 | 95.3 | -0.89 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.158 ± 0.005 | 0.0392 | 121 | 0.70 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.1 ± 1.5 | 1.37 | 101 | 0.34 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.441 ± 0.017 | 0.0324 | 102 | 0.27 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

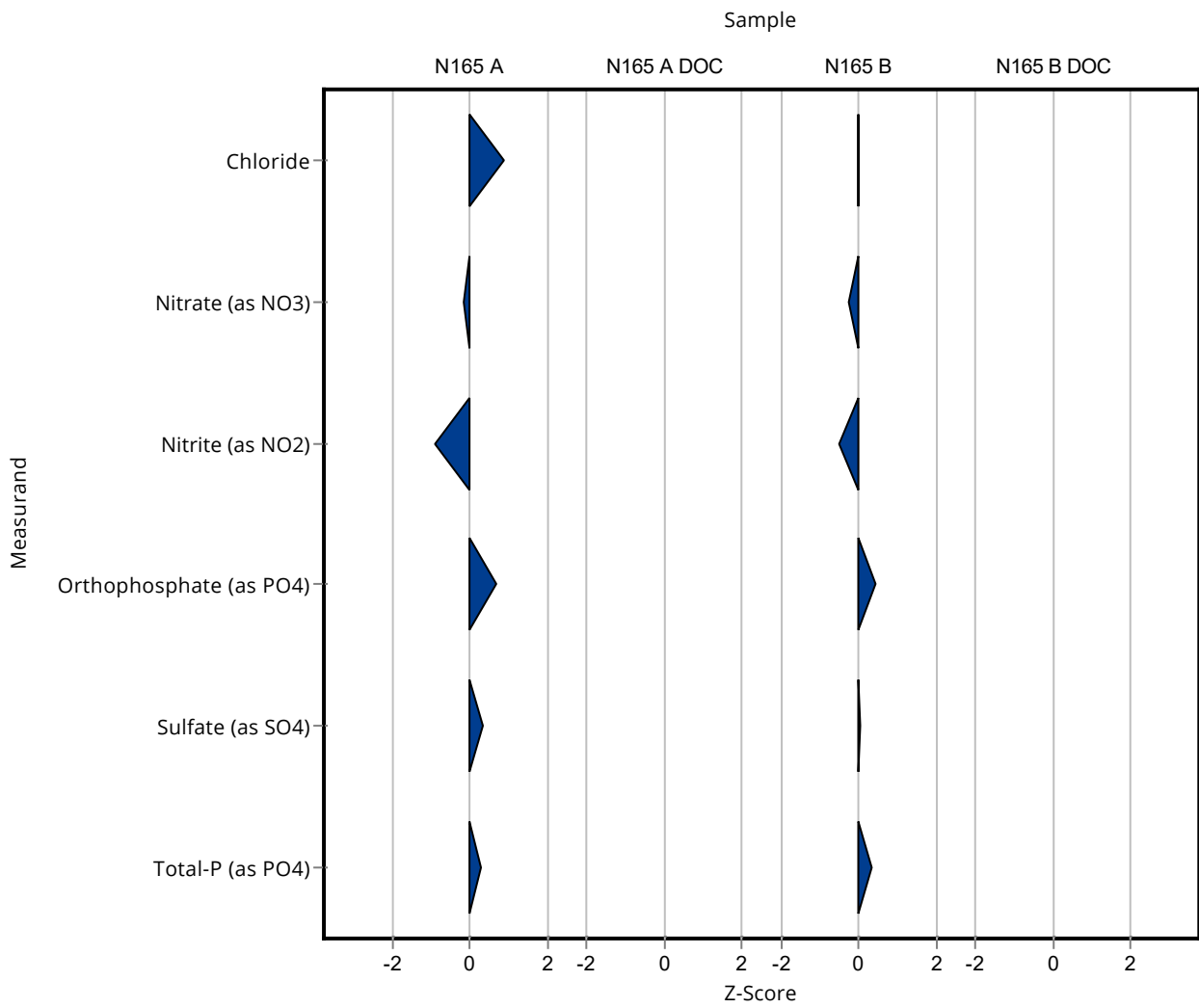
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.6 ± 1.1 | 1.03 | 99.9 | -0.03 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 0.9 | 0.791 | 98.6 | -0.28 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.236 ± 0.014 | 0.0128 | 97.3 | -0.50 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.158 ± 0.005 | 0.0166 | 105 | 0.45 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 1.1 | 1.02 | 100 | 0.04 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.07 | 0.133 | 103 | 0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 59.6 ± 2.7 | 2.3 | 103 | 0.37 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.2 ± 0.82 | 0.716 | 99.2 | -0.07 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.198 ± 0.012 | 0.011 | 95.3 | -0.40 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.158 ± 0.005 | 0.0392 | 121 | 1.43 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.1 ± 1.5 | 1.37 | 101 | 0.15 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.441 ± 0.017 | 0.0324 | 102 | 0.24 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

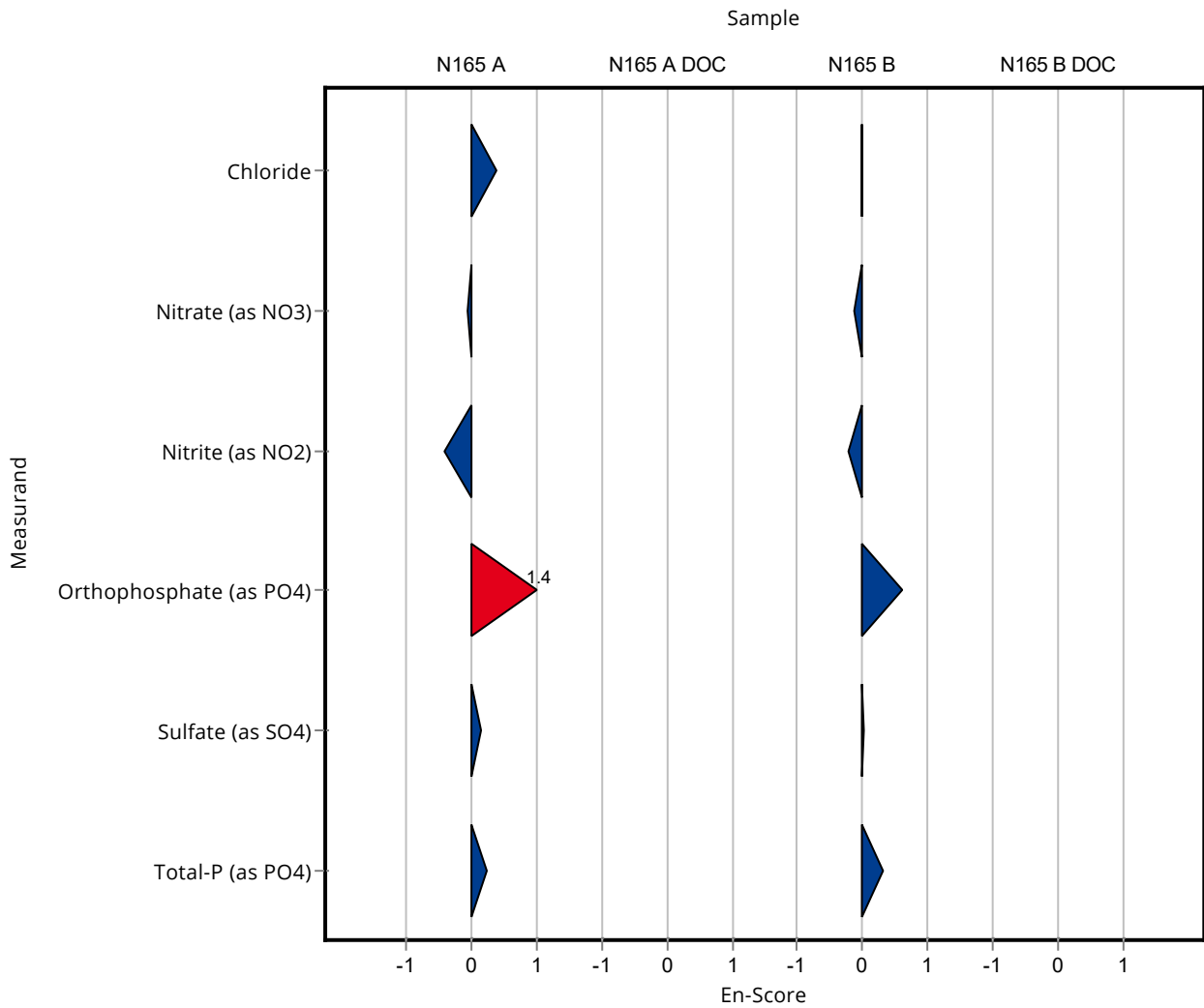
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 25.6 ± 1.1 | 1.03 | 99.9 | -0.01 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 0.9 | 0.791 | 98.6 | -0.12 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.236 ± 0.014 | 0.0128 | 97.3 | -0.23 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.158 ± 0.005 | 0.0166 | 105 | 0.62 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 1.1 | 1.02 | 100 | 0.02 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.07 | 0.133 | 103 | 0.30 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.188 ± 0.047 | 0.011 | 90.5 | -1.80 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

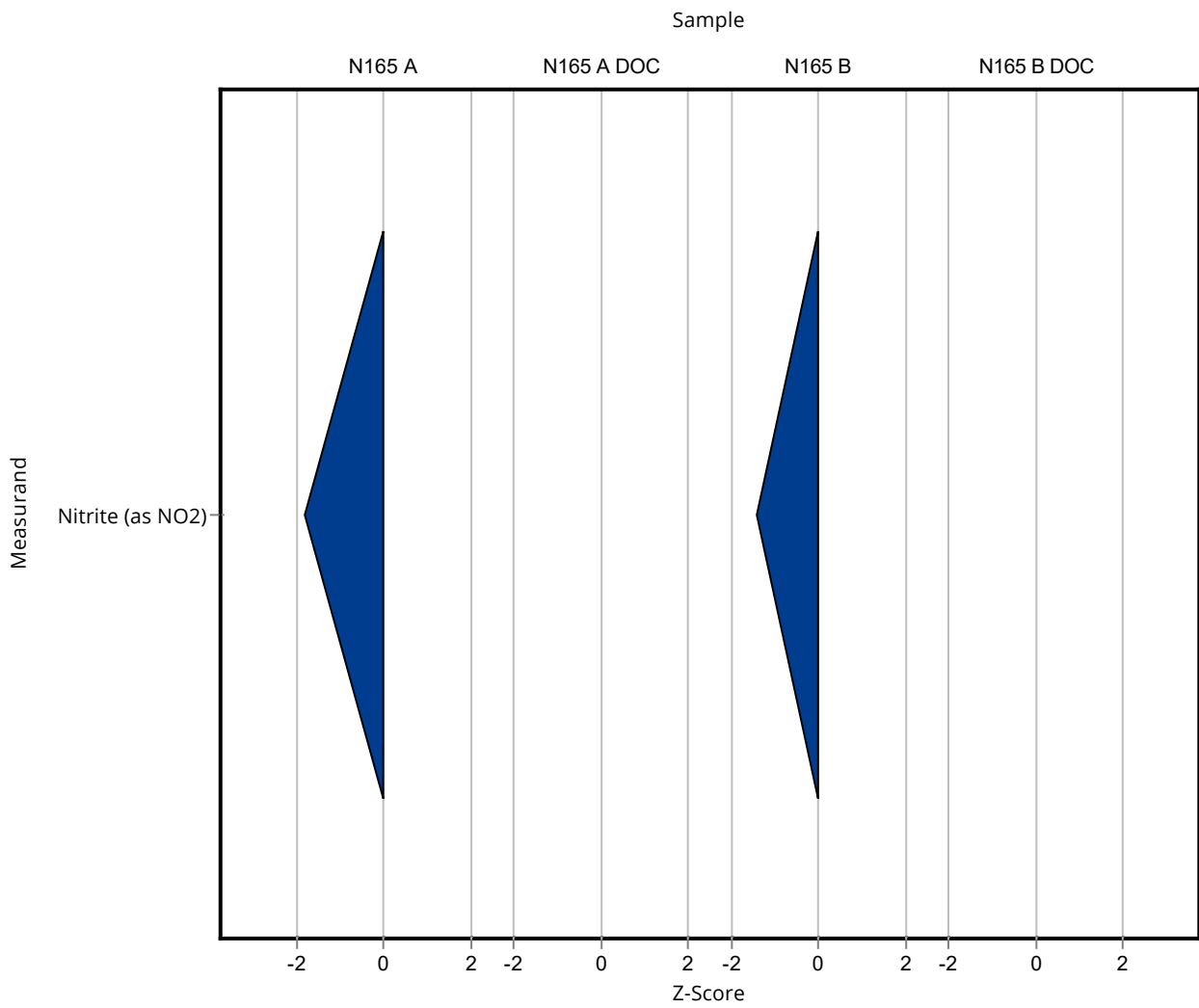
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.224 ± 0.056 | 0.0128 | 92.4 | -1.44 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.188 ± 0.047 | 0.011 | 90.5 | -0.21 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

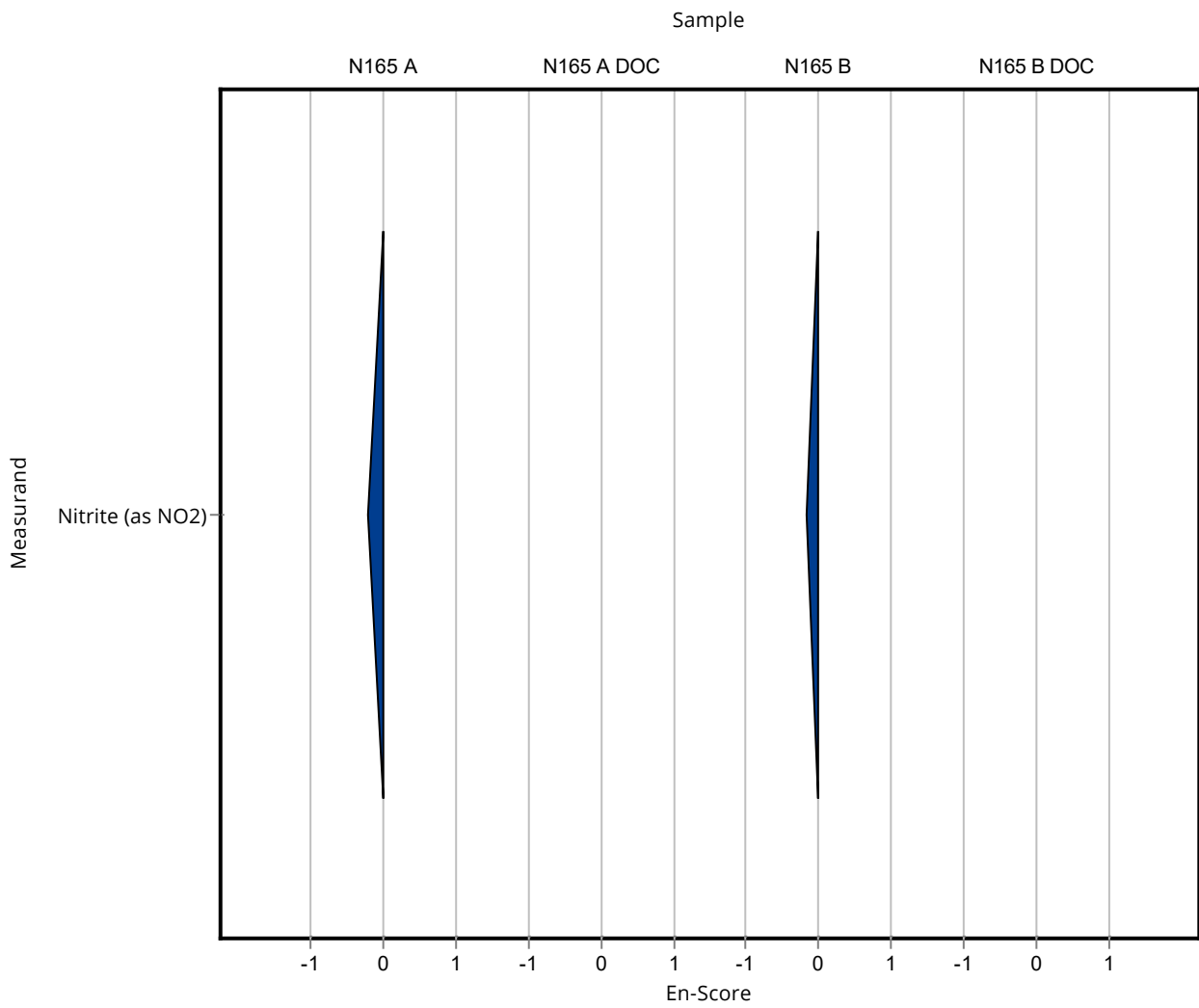
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0026

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.224 ± 0.056 | 0.0128 | 92.4 | -0.16 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.63 ± 0.38 | 0.147 | 104 | 2.03 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.1 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 6.2 | 4.34 | 99.2 | -0.22 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.2 ± 2.9 | 2.3 | 101 | 0.26 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 902 ± 45 | 11.9 | 98.5 | -1.14 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.9 ± 1.5 | 1.19 | 100 | 0.04 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.4 ± 0.72 | 0.716 | 101 | 0.11 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.231 ± 0.01 | 0.011 | 111 | 2.11 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.015 | 0.0392 | 110 | 0.34 |
| pH-value | - | 7.68 ± 0.034 | 7.73 ± 0.39 | 0.154 | 101 | 0.30 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.67 ± 0.23 | 0.249 | 97.5 | -0.49 |
| Sodium | mg/l | 26.9 ± 0.356 | 29.3 ± 1.5 | 0.914 | 109 | 2.65 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 2.1 | 1.37 | 102 | 0.48 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 1.34 ± 0.13 | 0.0324 | 310 | 28.01 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 23.9 ± 1.2 | 0.131 | 548 | 149.49 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.79 ± 0.38 | 0.29 | 108 | 1.02 |

Sample: N165ADOC

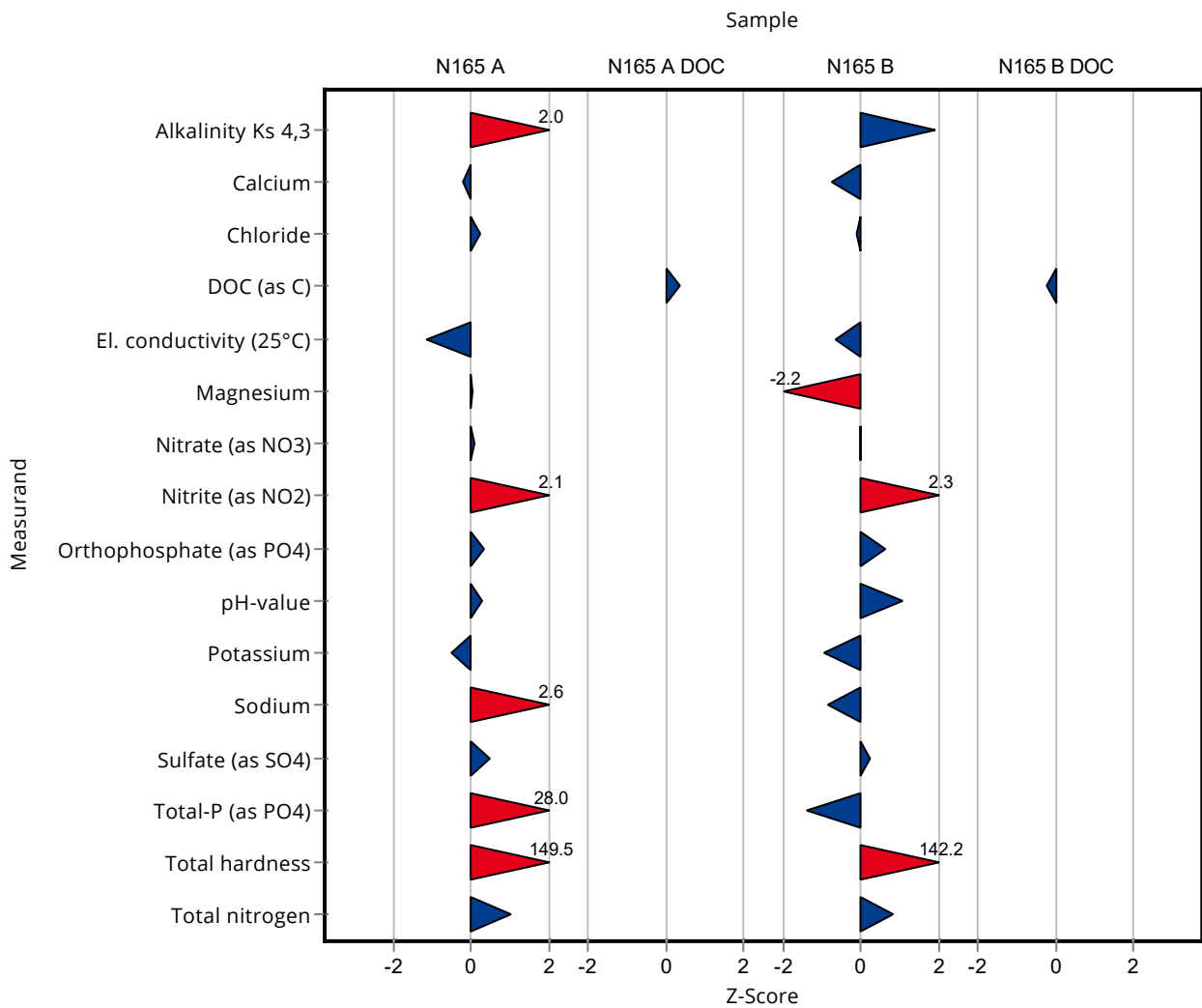
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.45 ± 0.15 | 0.193 | 105 | 0.37 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.48 ± 0.17 | 0.0671 | 104 | 1.89 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | <0.1 (LOQ) ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59 ± 3 | 1.87 | 97.6 | -0.77 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.5 ± 1.3 | 1.03 | 99.5 | -0.13 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 23 | 6.24 | 99.2 | -0.65 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 13 ± 0.65 | 0.57 | 91.3 | -2.18 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.8 ± 0.79 | 0.791 | 99.9 | -0.03 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.272 ± 0.01 | 0.0128 | 112 | 2.30 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.161 ± 0.017 | 0.0166 | 107 | 0.63 |
| pH-value | - | 7.84 ± 0.0268 | 8.01 ± 0.4 | 0.157 | 102 | 1.08 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.26 ± 0.11 | 0.124 | 95.1 | -0.93 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 0.75 | 0.525 | 97.1 | -0.85 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 1.6 | 1.02 | 101 | 0.24 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.58 ± 0.16 | 0.133 | 89.5 | -1.40 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 11.1 ± 0.56 | 0.0632 | 526 | 142.16 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.15 ± 0.42 | 0.323 | 107 | 0.80 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.33 | 0.337 | 97.8 | -0.22 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.63 ± 0.38 | 0.147 | 104 | 0.39 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.1 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 123 ± 6.2 | 4.34 | 99.2 | -0.08 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.2 ± 2.9 | 2.3 | 101 | 0.10 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 902 ± 45 | 11.9 | 98.5 | -0.15 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.9 ± 1.5 | 1.19 | 100 | 0.02 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.4 ± 0.72 | 0.716 | 101 | 0.05 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.231 ± 0.01 | 0.011 | 111 | 1.15 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.015 | 0.0392 | 110 | 0.39 |
| pH-value | - | 7.68 ± 0.034 | 7.73 ± 0.39 | 0.154 | 101 | 0.06 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.67 ± 0.23 | 0.249 | 97.5 | -0.26 |
| Sodium | mg/l | 26.9 ± 0.356 | 29.3 ± 1.5 | 0.914 | 109 | 0.80 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 2.1 | 1.37 | 102 | 0.16 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 1.34 ± 0.13 | 0.0324 | 310 | 3.49 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 23.9 ± 1.2 | 0.131 | 548 | 8.14 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.79 ± 0.38 | 0.29 | 108 | 0.38 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.45 ± 0.15 | 0.193 | 105 | 0.23 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

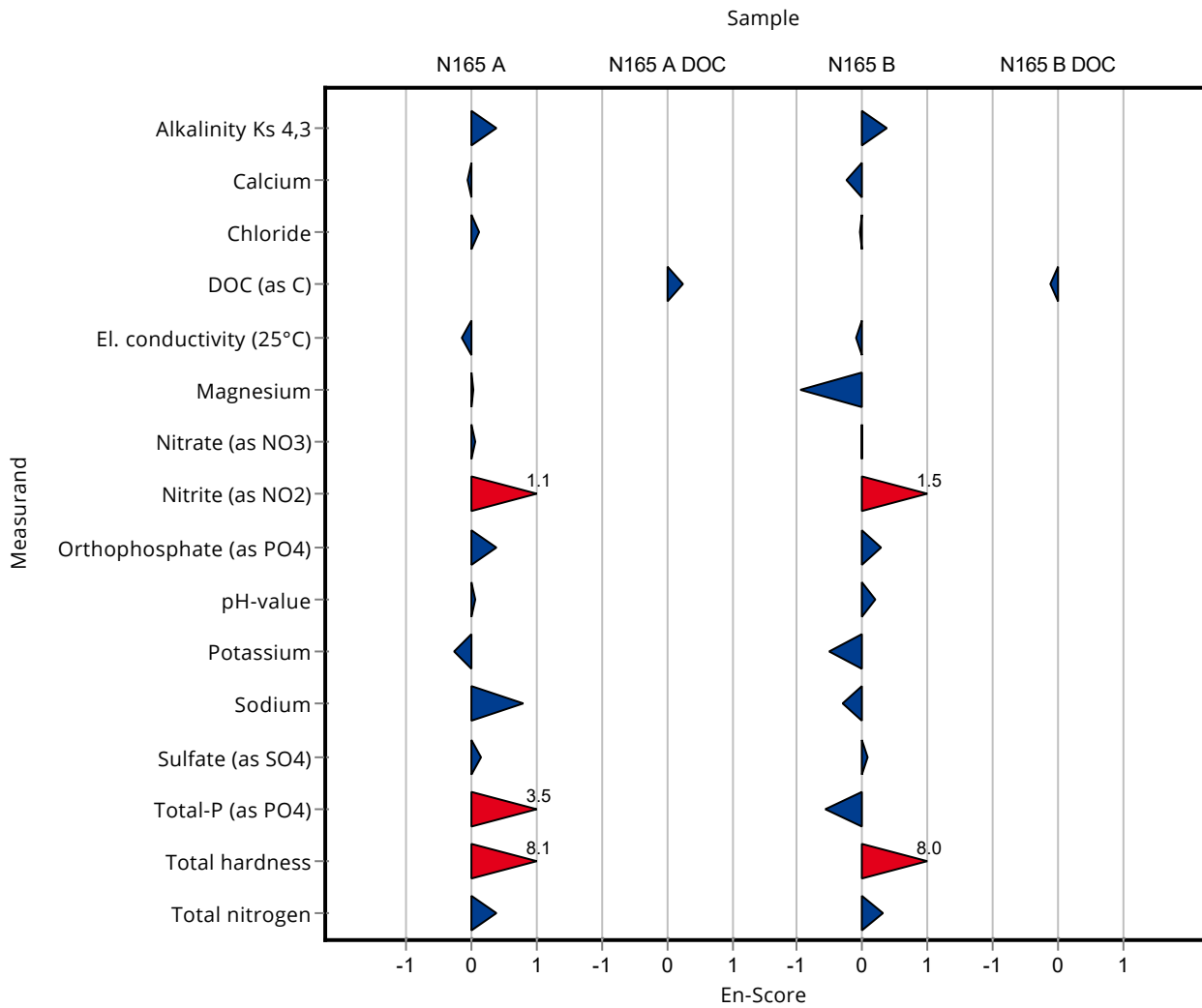
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0027

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.48 ± 0.17 | 0.0671 | 104 | 0.37 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | <0.1 (LOQ) ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59 ± 3 | 1.87 | 97.6 | -0.24 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.5 ± 1.3 | 1.03 | 99.5 | -0.05 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 23 | 6.24 | 99.2 | -0.09 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 13 ± 0.65 | 0.57 | 91.3 | -0.94 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.8 ± 0.79 | 0.791 | 99.9 | -0.01 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.272 ± 0.01 | 0.0128 | 112 | 1.45 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.161 ± 0.017 | 0.0166 | 107 | 0.30 |
| pH-value | - | 7.84 ± 0.0268 | 8.01 ± 0.4 | 0.157 | 102 | 0.21 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.26 ± 0.11 | 0.124 | 95.1 | -0.52 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 0.75 | 0.525 | 97.1 | -0.29 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 1.6 | 1.02 | 101 | 0.08 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.58 ± 0.16 | 0.133 | 89.5 | -0.57 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 11.1 ± 0.56 | 0.0632 | 526 | 8.03 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.15 ± 0.42 | 0.323 | 107 | 0.30 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.33 | 0.337 | 97.8 | -0.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.269 ± 0.018 | 0.00999 | 485 | 21.37 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 117.84 ± 7.62 | 4.34 | 95.1 | -1.41 |
| Chloride | mg/l | 57.6 ± 0.558 | 66.18 ± 3.39 | 2.3 | 115 | 3.73 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 923.7 ± 0.1 | 11.9 | 101 | 0.68 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 35.51 ± 0.5 | 1.19 | 119 | 4.74 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 0.973 ± 0.056 | 0.716 | 6.79 | -18.64 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.254 ± 0.037 | 0.011 | 122 | 4.20 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.015 | 0.0392 | 110 | 0.34 |
| pH-value | - | 7.68 ± 0.034 | 7.71 ± 0.1 | 0.154 | 100 | 0.17 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.5 | 0.249 | 96 | -0.77 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.2 ± 1.8 | 0.914 | 97.5 | -0.74 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 28.09 ± 3.47 | 1.37 | 67.5 | -9.86 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.491 ± 0.011 | 0.0324 | 114 | 1.81 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.4 ± 0.27 | 0.131 | 101 | 0.32 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

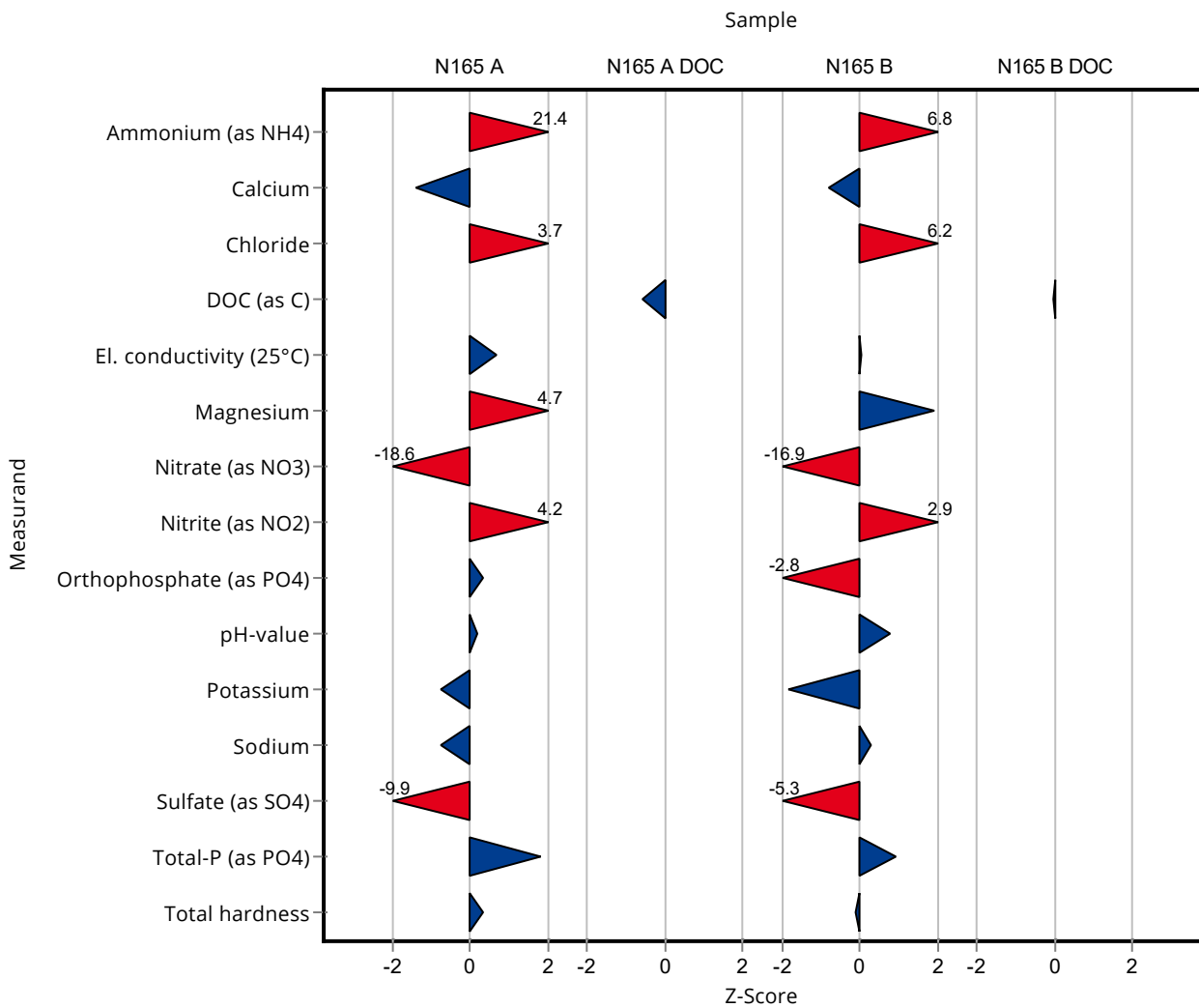
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.27 ± 0.03 | 0.193 | 92.1 | -0.56 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.302 ± 0.02 | 0.0199 | 182 | 6.84 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 58.92 ± 3.91 | 1.87 | 97.5 | -0.81 |
| Chloride | mg/l | 25.6 ± 0.265 | 32 ± 2.36 | 1.03 | 125 | 6.21 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480.4 ± 0.1 | 6.24 | 100 | 0.06 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.32 ± 0.21 | 0.57 | 108 | 1.89 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 2.423 ± 0.141 | 0.791 | 15.3 | -16.94 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.28 ± 0.04 | 0.0128 | 115 | 2.92 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.104 ± 0.012 | 0.0166 | 69.1 | -2.81 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.1 | 0.157 | 102 | 0.76 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.15 ± 0.3 | 0.124 | 90.5 | -1.83 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 1.1 | 0.525 | 101 | 0.29 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 25.35 ± 3.14 | 1.02 | 82.4 | -5.33 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.888 ± 0.03 | 0.133 | 107 | 0.92 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.1 | 0.0632 | 99.6 | -0.13 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.36 ± 0.07 | 0.337 | 99.6 | -0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.269 ± 0.018 | 0.00999 | 485 | 5.90 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 117.84 ± 7.62 | 4.34 | 95.1 | -0.40 |
| Chloride | mg/l | 57.6 ± 0.558 | 66.18 ± 3.39 | 2.3 | 115 | 1.26 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 923.7 ± 0.1 | 11.9 | 101 | 2.39 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 35.51 ± 0.5 | 1.19 | 119 | 5.21 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 0.973 ± 0.056 | 0.716 | 6.79 | -65.65 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.254 ± 0.037 | 0.011 | 122 | 0.62 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.015 | 0.0392 | 110 | 0.39 |
| pH-value | - | 7.68 ± 0.034 | 7.71 ± 0.1 | 0.154 | 100 | 0.13 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.5 | 0.249 | 96 | -0.19 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.2 ± 1.8 | 0.914 | 97.5 | -0.19 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 28.09 ± 3.47 | 1.37 | 67.5 | -1.95 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.491 ± 0.011 | 0.0324 | 114 | 2.35 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.4 ± 0.27 | 0.131 | 101 | 0.08 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.27 ± 0.03 | 0.193 | 92.1 | -1.18 |

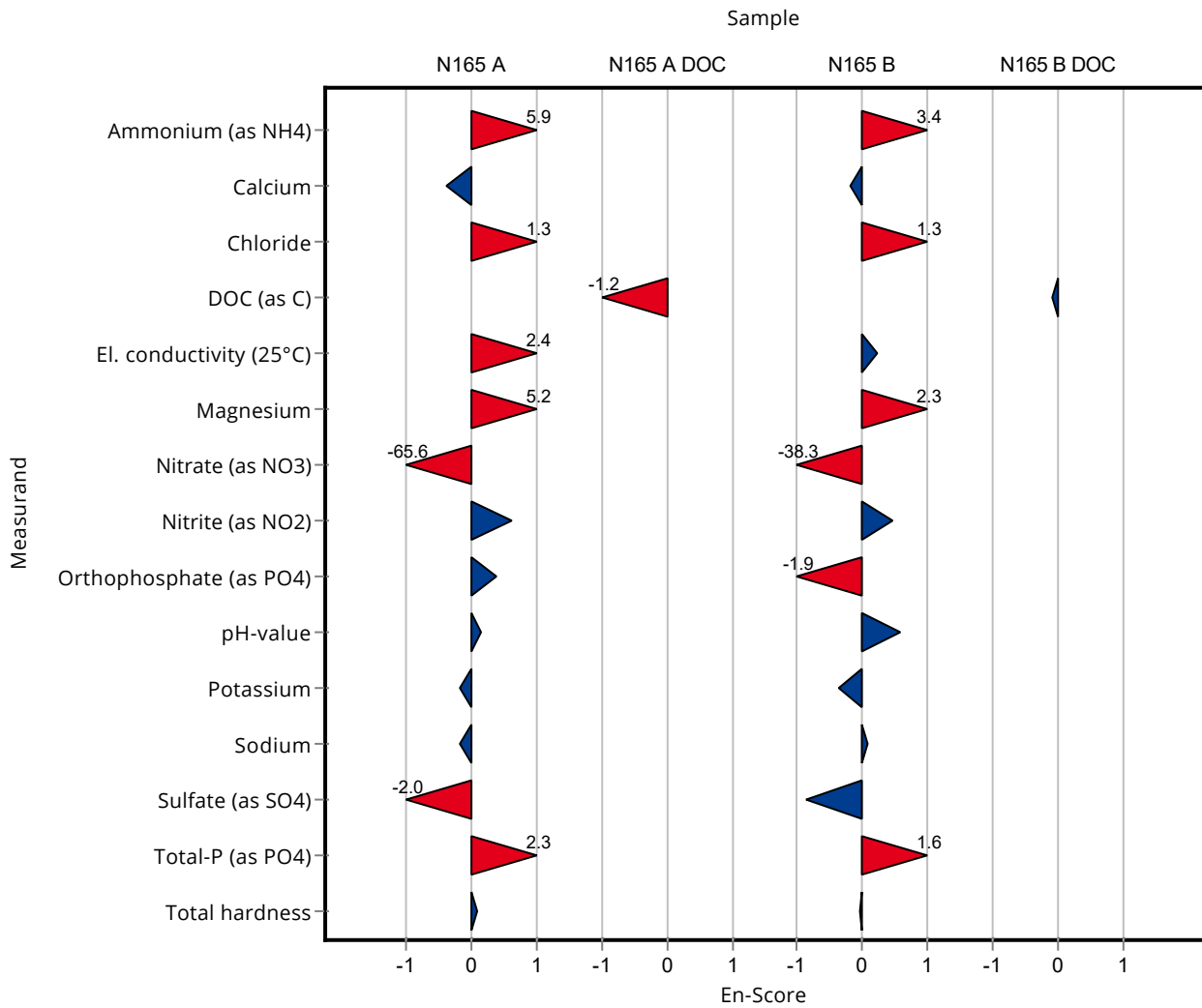
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.302 ± 0.02 | 0.0199 | 182 | 3.37 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 58.92 ± 3.91 | 1.87 | 97.5 | -0.19 |
| Chloride | mg/l | 25.6 ± 0.265 | 32 ± 2.36 | 1.03 | 125 | 1.35 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480.4 ± 0.1 | 6.24 | 100 | 0.24 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.32 ± 0.21 | 0.57 | 108 | 2.32 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 2.423 ± 0.141 | 0.791 | 15.3 | -38.29 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.28 ± 0.04 | 0.0128 | 115 | 0.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.104 ± 0.012 | 0.0166 | 69.1 | -1.87 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.1 | 0.157 | 102 | 0.59 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.15 ± 0.3 | 0.124 | 90.5 | -0.38 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 1.1 | 0.525 | 101 | 0.07 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 25.35 ± 3.14 | 1.02 | 82.4 | -0.86 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.888 ± 0.03 | 0.133 | 107 | 1.61 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.1 | 0.0632 | 99.6 | -0.04 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.36 ± 0.07 | 0.337 | 99.6 | -0.09 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.27 ± 0.41 | 0.147 | 99.2 | -0.42 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 942 ± 13 | 11.9 | 103 | 2.22 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.14 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

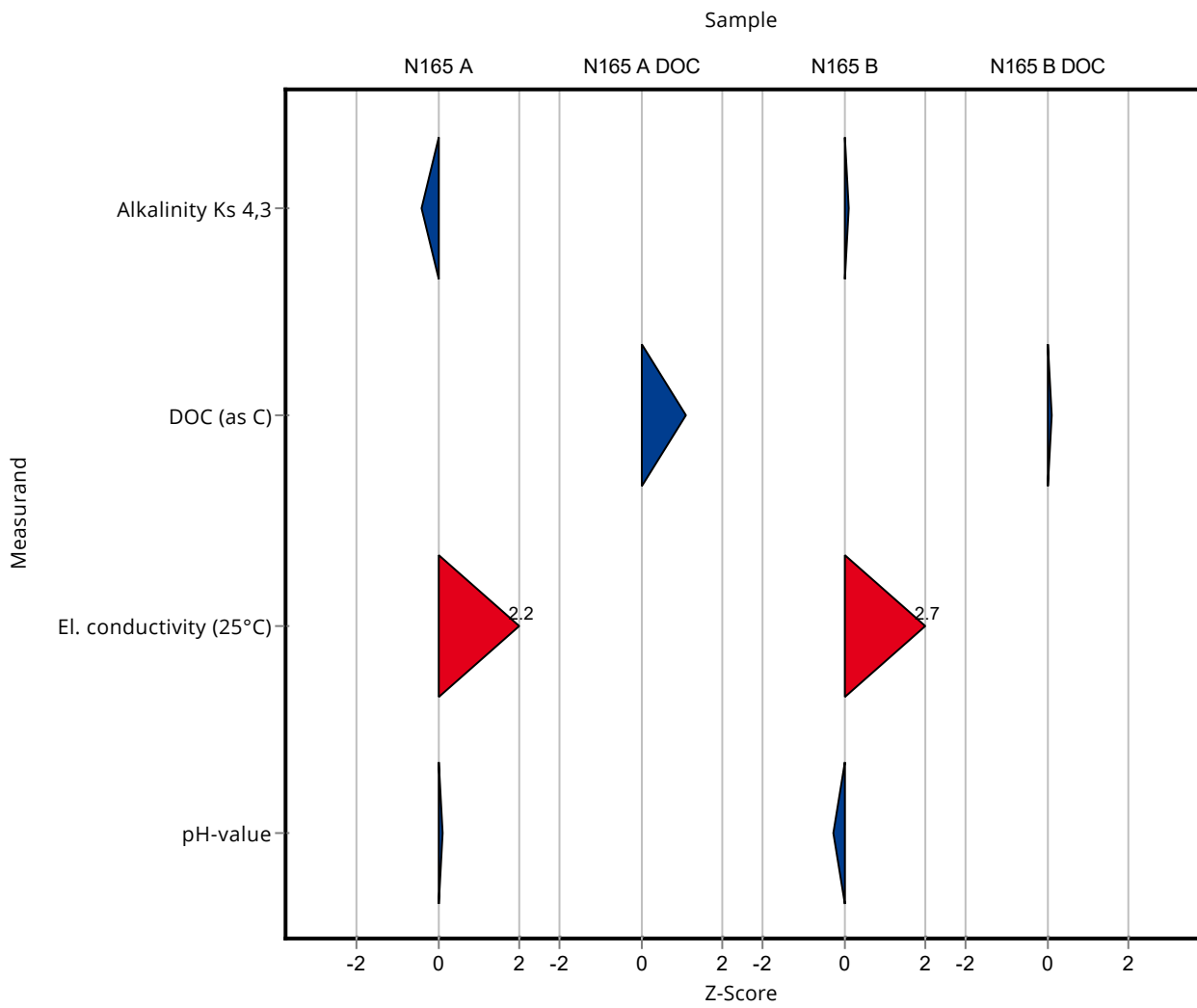
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.59 ± 0.25 | 0.193 | 115 | 1.09 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.15 | 0.0671 | 100 | 0.10 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 497 ± 7 | 6.24 | 104 | 2.72 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.14 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.42 ± 0.55 | 0.337 | 101 | 0.14 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.27 ± 0.41 | 0.147 | 99.2 | -0.08 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 942 ± 13 | 11.9 | 103 | 1.01 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.14 | 0.154 | 100 | 0.06 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.59 ± 0.25 | 0.193 | 115 | 0.42 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

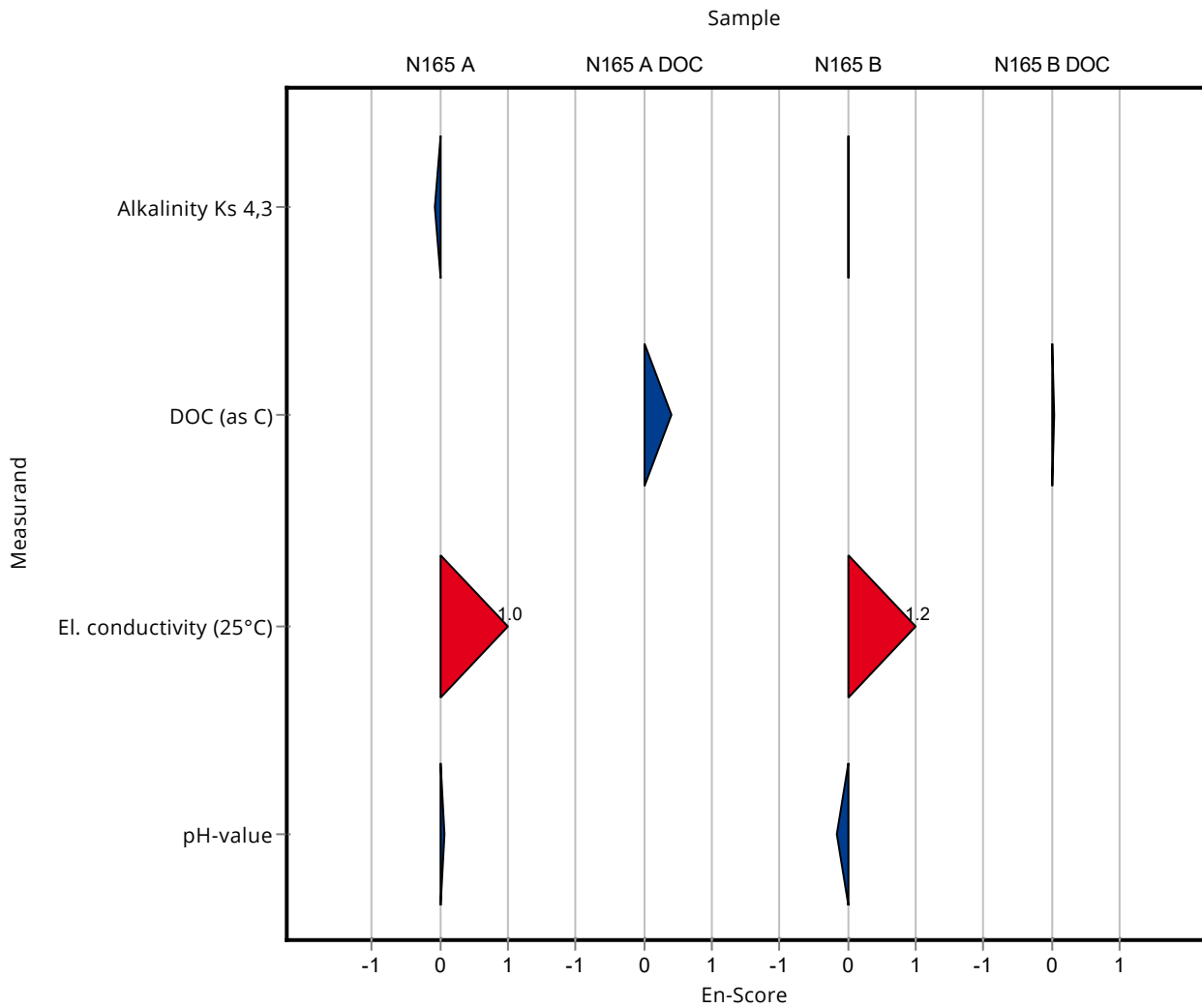
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0029

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.15 | 0.0671 | 100 | 0.02 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 497 ± 7 | 6.24 | 104 | 1.20 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.14 | 0.157 | 99.5 | -0.14 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.42 ± 0.55 | 0.337 | 101 | 0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.2 ± 1.08 | 0.147 | 98.2 | -0.90 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.046 ± 0.0046 | 0.00999 | 82.9 | -0.95 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.064 ± 0.0077 | 0.00646 | 109 | 0.81 |
| Calcium | mg/l | 124 ± 1.6 | 126.39 ± 12.639 | 4.34 | 102 | 0.56 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.93 ± 2.897 | 2.3 | 101 | 0.14 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 36.9 | 11.9 | 101 | 0.54 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 439.3 ± 65.9 | 8.9 | 98.7 | -0.64 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.12 ± 3.012 | 1.19 | 101 | 0.23 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.396 ± 0.5758 | 0.716 | 101 | 0.10 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.19 ± 0.0152 | 0.011 | 91.4 | -1.61 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.0173 | 0.0392 | 110 | 0.34 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.46 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.77 ± 0.477 | 0.249 | 99.6 | -0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.99 ± 2.699 | 0.914 | 100 | 0.12 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.28 ± 2.064 | 1.37 | 99.1 | -0.26 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.432 ± 0.065 | 0.0324 | 100 | -0.01 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 0.39 ± 0.078 | 0.131 | 8.95 | -30.35 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

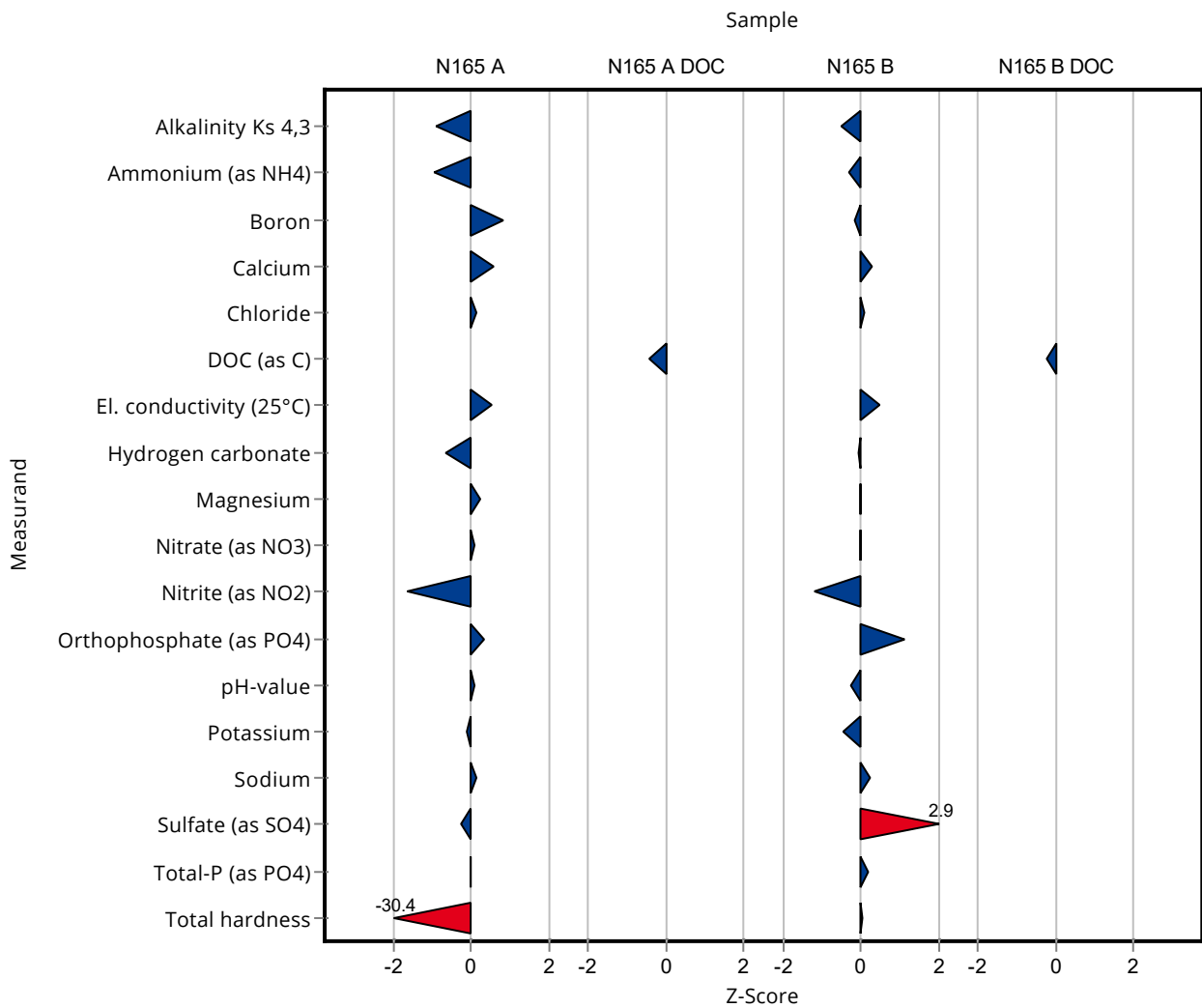
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.3 ± 0.1 | 0.193 | 94.3 | -0.41 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.498 | 0.0671 | 99 | -0.50 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.16 ± 0.016 | 0.0199 | 96.5 | -0.29 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.014 ± 0.0017 | 0.00215 | 97.6 | -0.16 |
| Calcium | mg/l | 60.4 ± 0.834 | 60.92 ± 6.092 | 1.87 | 101 | 0.26 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.71 ± 1.286 | 1.03 | 100 | 0.07 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 19.3 | 6.24 | 101 | 0.47 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202.6 ± 30.39 | 5.68 | 99.9 | -0.05 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.24 ± 1.424 | 0.57 | 100 | 0.00 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.804 ± 0.632 | 0.791 | 99.9 | -0.02 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.227 ± 0.0181 | 0.0128 | 93.6 | -1.20 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.169 ± 0.0202 | 0.0166 | 112 | 1.11 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.47 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.232 | 0.124 | 97.7 | -0.45 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.57 ± 1.557 | 0.525 | 101 | 0.23 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 33.67 ± 1.684 | 1.02 | 109 | 2.87 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.7875 ± 0.261 | 0.133 | 101 | 0.17 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.11 ± 0.422 | 0.0632 | 100 | 0.03 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.26 | 0.337 | 97.8 | -0.22 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.2 ± 1.08 | 0.147 | 98.2 | -0.06 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.046 ± 0.0046 | 0.00999 | 82.9 | -0.96 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.064 ± 0.0077 | 0.00646 | 109 | 0.34 |
| Calcium | mg/l | 124 ± 1.6 | 126.39 ± 12.639 | 4.34 | 102 | 0.10 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.93 ± 2.897 | 2.3 | 101 | 0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 36.9 | 11.9 | 101 | 0.09 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 439.3 ± 65.9 | 8.9 | 98.7 | -0.04 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.12 ± 3.012 | 1.19 | 101 | 0.04 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.396 ± 0.5758 | 0.716 | 101 | 0.06 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.19 ± 0.0152 | 0.011 | 91.4 | -0.58 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.144 ± 0.0173 | 0.0392 | 110 | 0.35 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.46 | 0.154 | 100 | 0.02 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.77 ± 0.477 | 0.249 | 99.6 | -0.02 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.99 ± 2.699 | 0.914 | 100 | 0.02 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.28 ± 2.064 | 1.37 | 99.1 | -0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.432 ± 0.065 | 0.0324 | 100 | 0.00 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 0.39 ± 0.078 | 0.131 | 8.95 | -24.65 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.3 ± 0.1 | 0.193 | 94.3 | -0.37 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

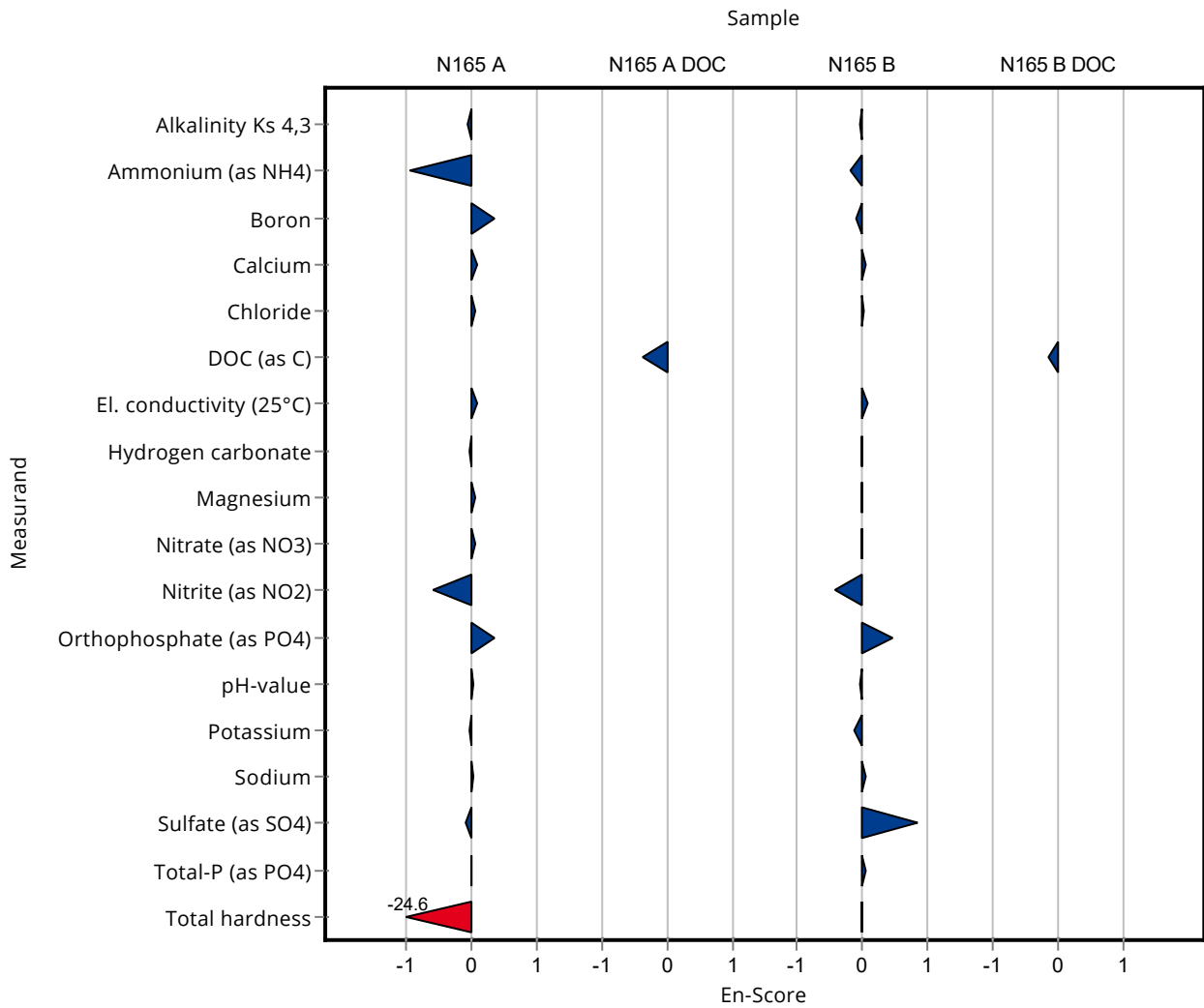
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0030

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.498 | 0.0671 | 99 | -0.03 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.16 ± 0.016 | 0.0199 | 96.5 | -0.18 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.014 ± 0.0017 | 0.00215 | 97.6 | -0.10 |
| Calcium | mg/l | 60.4 ± 0.834 | 60.92 ± 6.092 | 1.87 | 101 | 0.04 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.71 ± 1.286 | 1.03 | 100 | 0.03 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 483 ± 19.3 | 6.24 | 101 | 0.08 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 202.6 ± 30.39 | 5.68 | 99.9 | 0.00 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.24 ± 1.424 | 0.57 | 100 | 0.00 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.804 ± 0.632 | 0.791 | 99.9 | -0.01 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.227 ± 0.0181 | 0.0128 | 93.6 | -0.42 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.169 ± 0.0202 | 0.0166 | 112 | 0.45 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.47 | 0.157 | 99.5 | -0.04 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.232 | 0.124 | 97.7 | -0.12 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.57 ± 1.557 | 0.525 | 101 | 0.04 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 33.67 ± 1.684 | 1.02 | 109 | 0.86 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.7875 ± 0.261 | 0.133 | 101 | 0.04 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.11 ± 0.422 | 0.0632 | 100 | 0.00 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.26 | 0.337 | 97.8 | -0.14 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.96 ± 0.7 | 0.147 | 94.9 | -2.54 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.04 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.059 ± 0.01 | 0.00646 | 100 | 0.04 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 13 | 4.34 | 104 | 1.16 |
| Chloride | mg/l | 57.6 ± 0.558 | 57 ± 5 | 2.3 | 99 | -0.26 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 906 ± 18 | 11.9 | 99 | -0.81 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 430 ± 23 | 8.9 | 96.6 | -1.68 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 3 | 1.19 | 103 | 0.79 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.1 ± 1.5 | 0.716 | 98.5 | -0.31 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.22 ± 0.02 | 0.011 | 106 | 1.11 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.06 ± 0.02 | 0.0392 | 45.9 | -1.80 |
| pH-value | - | 7.68 ± 0.034 | 7.71 ± 0.2 | 0.154 | 100 | 0.17 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.4 | 0.249 | 102 | 0.44 |
| Sodium | mg/l | 26.9 ± 0.356 | 28.4 ± 1.6 | 0.914 | 106 | 1.66 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41 ± 4 | 1.37 | 98.5 | -0.46 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.43 ± 0.07 | 0.0324 | 99.5 | -0.07 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.47 ± 0.5 | 0.131 | 103 | 0.86 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.2 ± 0.7 | 0.29 | 91.6 | -1.01 |

Sample: N165ADOC

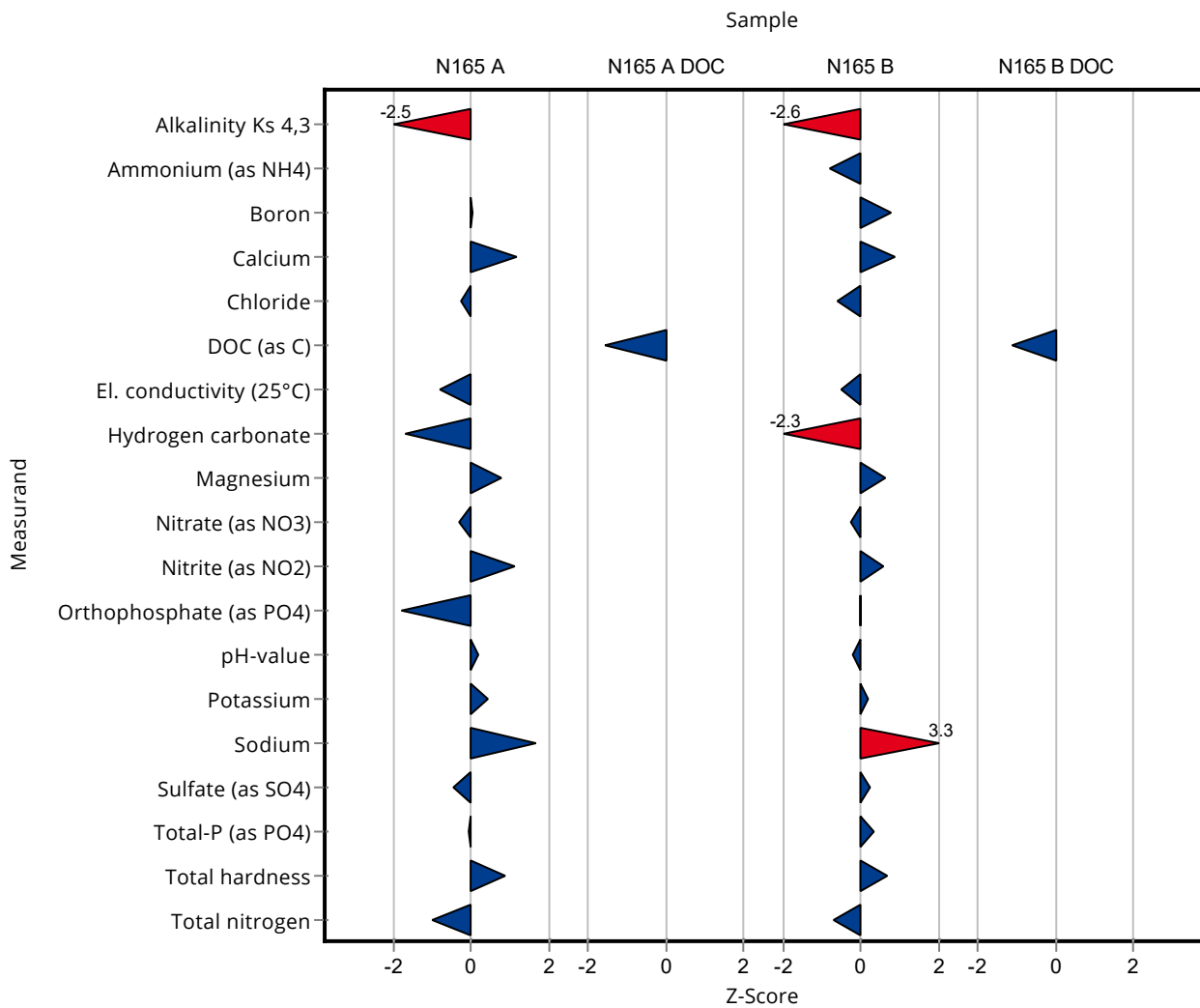
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.08 ± 0.1 | 0.193 | 78.3 | -1.55 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.18 ± 0.3 | 0.0671 | 94.8 | -2.59 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.15 ± 0.05 | 0.0199 | 90.5 | -0.79 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.016 ± 0.01 | 0.00215 | 111 | 0.77 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.1 ± 6.5 | 1.87 | 103 | 0.89 |
| Chloride | mg/l | 25.6 ± 0.265 | 25 ± 2.5 | 1.03 | 97.5 | -0.62 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 477 ± 9.6 | 6.24 | 99.4 | -0.49 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 190 ± 10.5 | 5.68 | 93.6 | -2.27 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 1.5 | 0.57 | 103 | 0.63 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 1.5 | 0.791 | 98.6 | -0.28 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.02 | 0.0128 | 103 | 0.59 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.02 | 0.0166 | 99.6 | -0.04 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.2 | 0.157 | 99.6 | -0.19 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.2 | 0.124 | 101 | 0.20 |
| Sodium | mg/l | 15.4 ± 0.239 | 17.2 ± 1 | 0.525 | 111 | 3.34 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 2.8 | 1.02 | 101 | 0.24 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.3 | 0.133 | 103 | 0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.2 | 0.0632 | 102 | 0.66 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.67 ± 0.8 | 0.323 | 94.3 | -0.69 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.3 | 0.337 | 88.9 | -1.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.96 ± 0.7 | 0.147 | 94.9 | -0.27 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.04 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.059 ± 0.01 | 0.00646 | 100 | 0.01 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 13 | 4.34 | 104 | 0.19 |
| Chloride | mg/l | 57.6 ± 0.558 | 57 ± 5 | 2.3 | 99 | -0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 906 ± 18 | 11.9 | 99 | -0.27 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 430 ± 23 | 8.9 | 96.6 | -0.32 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.8 ± 3 | 1.19 | 103 | 0.16 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.1 ± 1.5 | 0.716 | 98.5 | -0.07 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.22 ± 0.02 | 0.011 | 106 | 0.30 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.06 ± 0.02 | 0.0392 | 45.9 | -1.64 |
| pH-value | - | 7.68 ± 0.034 | 7.71 ± 0.2 | 0.154 | 100 | 0.07 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.4 | 0.249 | 102 | 0.14 |
| Sodium | mg/l | 26.9 ± 0.356 | 28.4 ± 1.6 | 0.914 | 106 | 0.47 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41 ± 4 | 1.37 | 98.5 | -0.08 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.43 ± 0.07 | 0.0324 | 99.5 | -0.02 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.47 ± 0.5 | 0.131 | 103 | 0.11 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.2 ± 0.7 | 0.29 | 91.6 | -0.21 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.08 ± 0.1 | 0.193 | 78.3 | -1.41 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

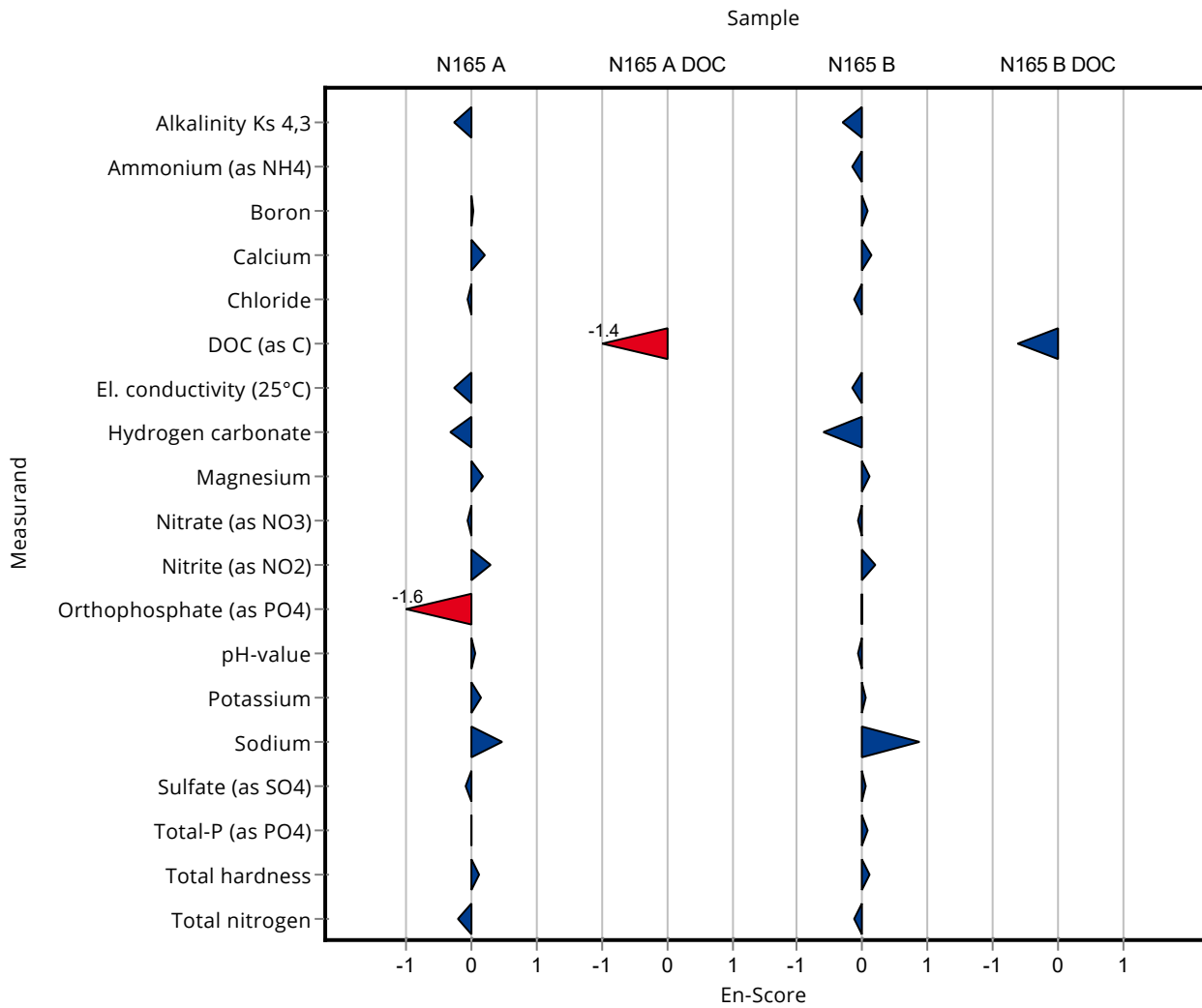
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0031

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.18 ± 0.3 | 0.0671 | 94.8 | -0.29 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.15 ± 0.05 | 0.0199 | 90.5 | -0.16 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.016 ± 0.01 | 0.00215 | 111 | 0.08 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.1 ± 6.5 | 1.87 | 103 | 0.13 |
| Chloride | mg/l | 25.6 ± 0.265 | 25 ± 2.5 | 1.03 | 97.5 | -0.13 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 477 ± 9.6 | 6.24 | 99.4 | -0.16 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 190 ± 10.5 | 5.68 | 93.6 | -0.61 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 1.5 | 0.57 | 103 | 0.12 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 1.5 | 0.791 | 98.6 | -0.07 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.02 | 0.0128 | 103 | 0.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.02 | 0.0166 | 99.6 | -0.01 |
| pH-value | - | 7.84 ± 0.0268 | 7.81 ± 0.2 | 0.157 | 99.6 | -0.08 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.2 | 0.124 | 101 | 0.06 |
| Sodium | mg/l | 15.4 ± 0.239 | 17.2 ± 1 | 0.525 | 111 | 0.87 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 2.8 | 1.02 | 101 | 0.04 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.81 ± 0.3 | 0.133 | 103 | 0.07 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.2 | 0.0632 | 102 | 0.10 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.67 ± 0.8 | 0.323 | 94.3 | -0.14 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3 ± 0.3 | 0.337 | 88.9 | -0.62 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.73 | 0.147 | 100 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0592 ± 0.00885 | 0.00999 | 107 | 0.37 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 59.5 ± 5.95 | 2.3 | 103 | 0.83 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 908.7 ± 27.3 | 11.9 | 99.2 | -0.58 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.5 ± 2.175 | 0.716 | 101 | 0.25 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.03195 | 0.011 | 103 | 0.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.0805 ± 0.012 | 0.0392 | 61.6 | -1.28 |
| pH-value | - | 7.68 ± 0.034 | 7.88 ± 0.394 | 0.154 | 103 | 1.28 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 4.23 | 1.37 | 102 | 0.48 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.45 ± 0.69 | 0.29 | 98.8 | -0.15 |

Sample: N165ADOC

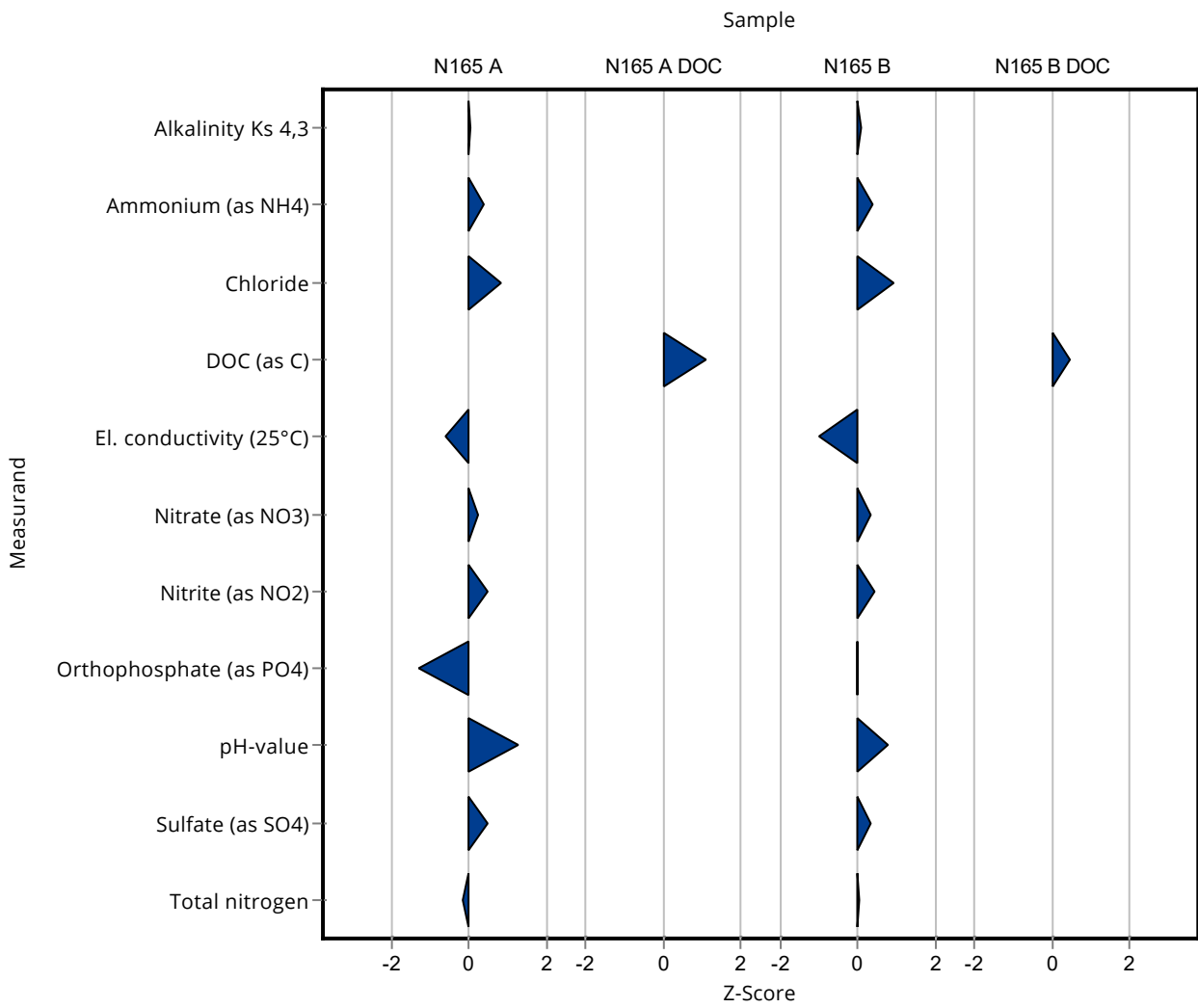
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.59 ± 0.397 | 0.193 | 115 | 1.09 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.34 | 0.0671 | 100 | 0.10 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.173 ± 0.0259 | 0.0199 | 104 | 0.36 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 26.6 ± 2.66 | 1.03 | 104 | 0.94 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 473.7 ± 14.2 | 6.24 | 98.7 | -1.02 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.1 ± 2.415 | 0.791 | 102 | 0.35 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.248 ± 0.0372 | 0.0128 | 102 | 0.43 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.0225 | 0.0166 | 99.6 | -0.04 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.398 | 0.157 | 102 | 0.76 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.1 ± 3.11 | 1.02 | 101 | 0.34 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.91 ± 0.782 | 0.323 | 100 | 0.06 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.52 ± 0.881 | 0.337 | 104 | 0.43 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.34 ± 0.73 | 0.147 | 100 | 0.01 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0592 ± 0.00885 | 0.00999 | 107 | 0.20 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 59.5 ± 5.95 | 2.3 | 103 | 0.16 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 908.7 ± 27.3 | 11.9 | 99.2 | -0.13 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.5 ± 2.175 | 0.716 | 101 | 0.04 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.213 ± 0.03195 | 0.011 | 103 | 0.08 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.0805 ± 0.012 | 0.0392 | 61.6 | -1.73 |
| pH-value | - | 7.68 ± 0.034 | 7.88 ± 0.394 | 0.154 | 103 | 0.25 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 4.23 | 1.37 | 102 | 0.08 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.45 ± 0.69 | 0.29 | 98.8 | -0.03 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.59 ± 0.397 | 0.193 | 115 | 0.26 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

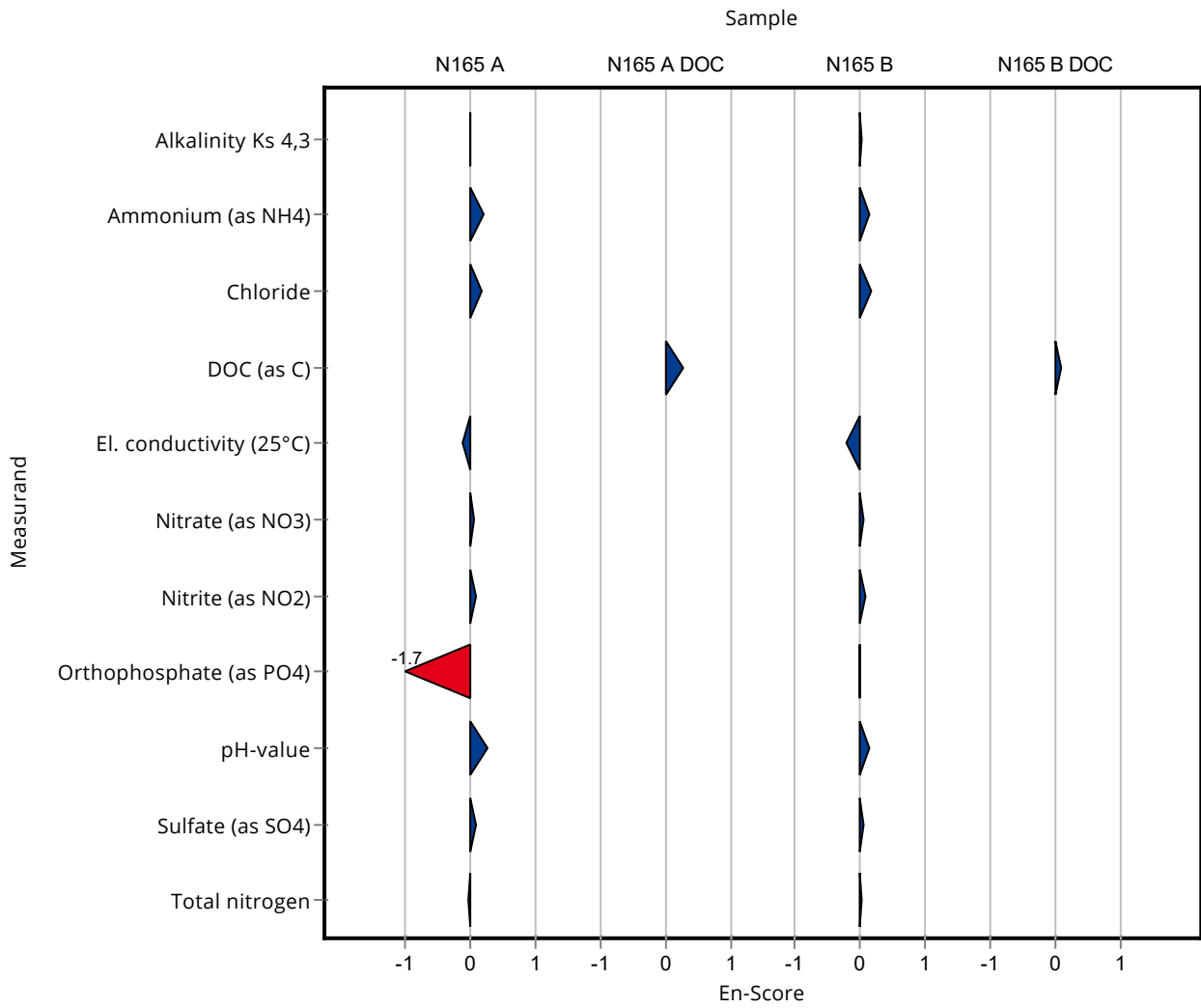
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0032

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.34 | 0.0671 | 100 | 0.01 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.173 ± 0.0259 | 0.0199 | 104 | 0.14 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 26.6 ± 2.66 | 1.03 | 104 | 0.18 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 473.7 ± 14.2 | 6.24 | 98.7 | -0.22 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.1 ± 2.415 | 0.791 | 102 | 0.06 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.248 ± 0.0372 | 0.0128 | 102 | 0.07 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.0225 | 0.0166 | 99.6 | -0.01 |
| pH-value | - | 7.84 ± 0.0268 | 7.96 ± 0.398 | 0.157 | 102 | 0.15 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.1 ± 3.11 | 1.02 | 101 | 0.05 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.91 ± 0.782 | 0.323 | 100 | 0.01 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.52 ± 0.881 | 0.337 | 104 | 0.08 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.49 ± 0.2 | 0.147 | 102 | 1.08 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.02 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0534 ± 0.005 | 0.00646 | 90.9 | -0.83 |
| Calcium | mg/l | 124 ± 1.6 | 123.5 ± 6.18 | 4.34 | 99.6 | -0.10 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.65 ± 2.9 | 2.3 | 102 | 0.46 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 904 ± 9.041 | 11.9 | 98.7 | -0.97 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 457.14 ± 22.8 | 8.9 | 103 | 1.37 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.86 ± 2.5 | 1.19 | 100 | 0.01 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.15 ± 2 | 0.716 | 106 | 1.16 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.235 ± 0.05 | 0.011 | 113 | 2.47 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.11 ± 0.01 | 0.0392 | 84.2 | -0.53 |
| pH-value | - | 7.68 ± 0.034 | 7.44 ± 0.1 | 0.154 | 96.8 | -1.58 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.25 | 0.249 | 102 | 0.44 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.4 ± 1.27 | 0.914 | 94.5 | -1.62 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.8 ± 4.1 | 1.37 | 98 | -0.61 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.036 ± 0.02 | 0.0324 | 8.33 | -12.22 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.309 ± 0.2 | 0.131 | 98.9 | -0.37 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.509 ± 0.3 | 0.29 | 100 | 0.05 |

Sample: N165ADOC

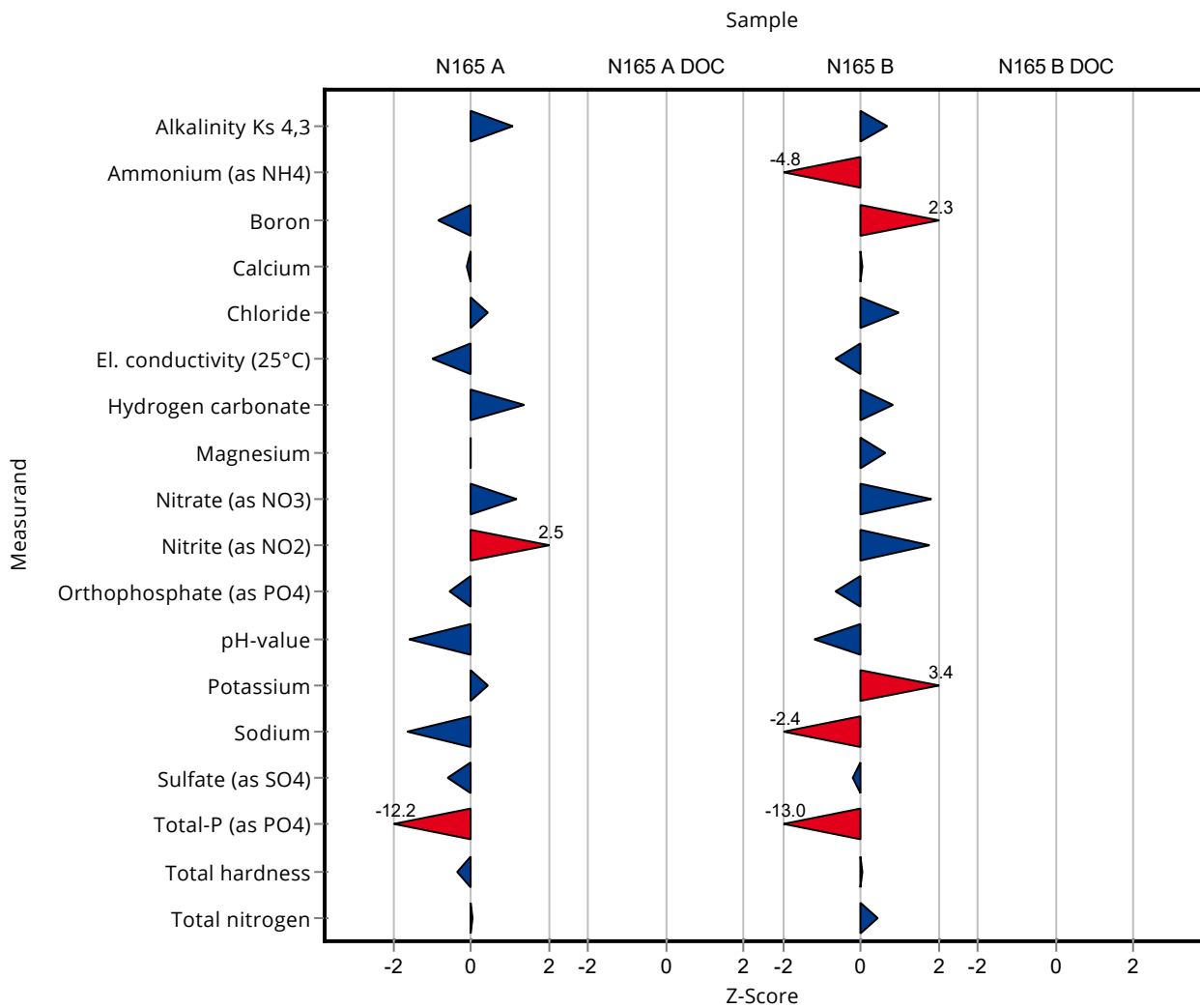
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.4 ± 0.1 | 0.0671 | 101 | 0.69 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.07 ± 0.01 | 0.0199 | 42.2 | -4.82 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0193 ± 0.002 | 0.00215 | 134 | 2.30 |
| Calcium | mg/l | 60.4 ± 0.834 | 60.52 ± 3.18 | 1.87 | 100 | 0.05 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.65 ± 2 | 1.03 | 104 | 0.99 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 5 | 6.24 | 99.2 | -0.65 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 207.5 ± 10.35 | 5.68 | 102 | 0.81 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 0.7 | 0.57 | 103 | 0.63 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 17.26 ± 1 | 0.791 | 109 | 1.82 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.265 ± 0.05 | 0.0128 | 109 | 1.76 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.14 ± 0.02 | 0.0166 | 93 | -0.64 |
| pH-value | - | 7.84 ± 0.0268 | 7.65 ± 0.1 | 0.157 | 97.6 | -1.21 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.8 ± 0.14 | 0.124 | 118 | 3.44 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.2 ± 0.71 | 0.525 | 91.9 | -2.37 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.52 ± 3 | 1.02 | 99.2 | -0.23 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 0.044 ± 0.02 | 0.133 | 2.49 | -12.98 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.112 ± 0.1 | 0.0632 | 100 | 0.06 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.034 ± 0.2 | 0.323 | 104 | 0.44 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.49 ± 0.2 | 0.147 | 102 | 0.39 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.02 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0534 ± 0.005 | 0.00646 | 90.9 | -0.53 |
| Calcium | mg/l | 124 ± 1.6 | 123.5 ± 6.18 | 4.34 | 99.6 | -0.04 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.65 ± 2.9 | 2.3 | 102 | 0.18 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 904 ± 9.041 | 11.9 | 98.7 | -0.63 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 457.14 ± 22.8 | 8.9 | 103 | 0.27 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.86 ± 2.5 | 1.19 | 100 | 0.00 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15.15 ± 2 | 0.716 | 106 | 0.21 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.235 ± 0.05 | 0.011 | 113 | 0.27 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.11 ± 0.01 | 0.0392 | 84.2 | -0.80 |
| pH-value | - | 7.68 ± 0.034 | 7.44 ± 0.1 | 0.154 | 96.8 | -1.20 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.25 | 0.249 | 102 | 0.22 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.4 ± 1.27 | 0.914 | 94.5 | -0.58 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.8 ± 4.1 | 1.37 | 98 | -0.10 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.036 ± 0.02 | 0.0324 | 8.33 | -9.49 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.309 ± 0.2 | 0.131 | 98.9 | -0.12 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.509 ± 0.3 | 0.29 | 100 | 0.03 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

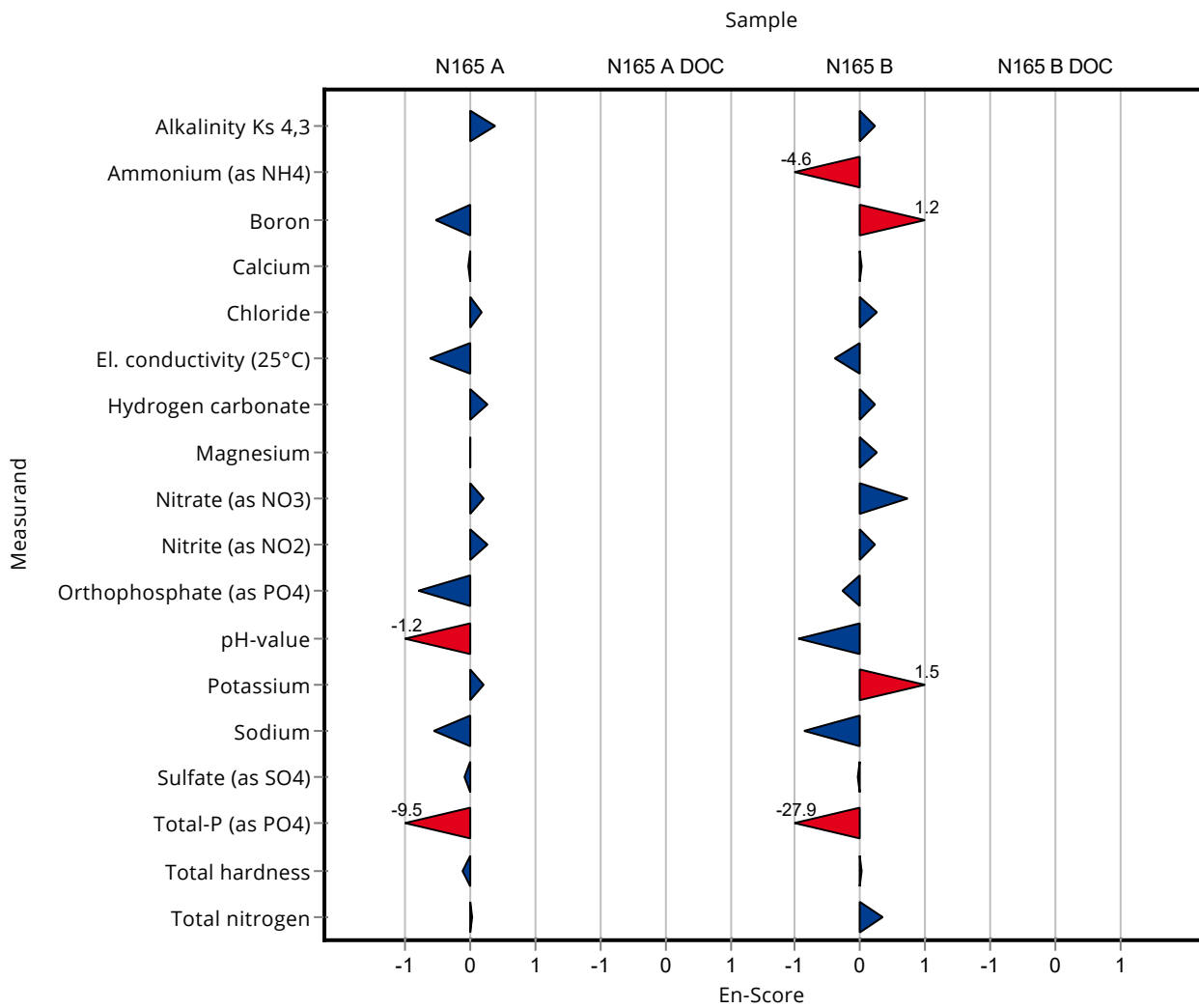
Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.4 ± 0.1 | 0.0671 | 101 | 0.23 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.07 ± 0.01 | 0.0199 | 42.2 | -4.61 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0193 ± 0.002 | 0.00215 | 134 | 1.18 |
| Calcium | mg/l | 60.4 ± 0.834 | 60.52 ± 3.18 | 1.87 | 100 | 0.01 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.65 ± 2 | 1.03 | 104 | 0.25 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 476 ± 5 | 6.24 | 99.2 | -0.40 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 207.5 ± 10.35 | 5.68 | 102 | 0.22 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.6 ± 0.7 | 0.57 | 103 | 0.25 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 17.26 ± 1 | 0.791 | 109 | 0.72 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.265 ± 0.05 | 0.0128 | 109 | 0.23 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.14 ± 0.02 | 0.0166 | 93 | -0.26 |
| pH-value | - | 7.84 ± 0.0268 | 7.65 ± 0.1 | 0.157 | 97.6 | -0.94 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.8 ± 0.14 | 0.124 | 118 | 1.51 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.2 ± 0.71 | 0.525 | 91.9 | -0.87 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.52 ± 3 | 1.02 | 99.2 | -0.04 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 0.044 ± 0.02 | 0.133 | 2.49 | -27.93 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.112 ± 0.1 | 0.0632 | 100 | 0.02 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.034 ± 0.2 | 0.323 | 104 | 0.34 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.054 ± 0.003 | 0.00999 | 97.3 | -0.15 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.8 ± 0.79 | 0.716 | 96.4 | -0.73 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.143 ± 0.01 | 0.0392 | 109 | 0.31 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.01 | 0.0324 | 99 | -0.13 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

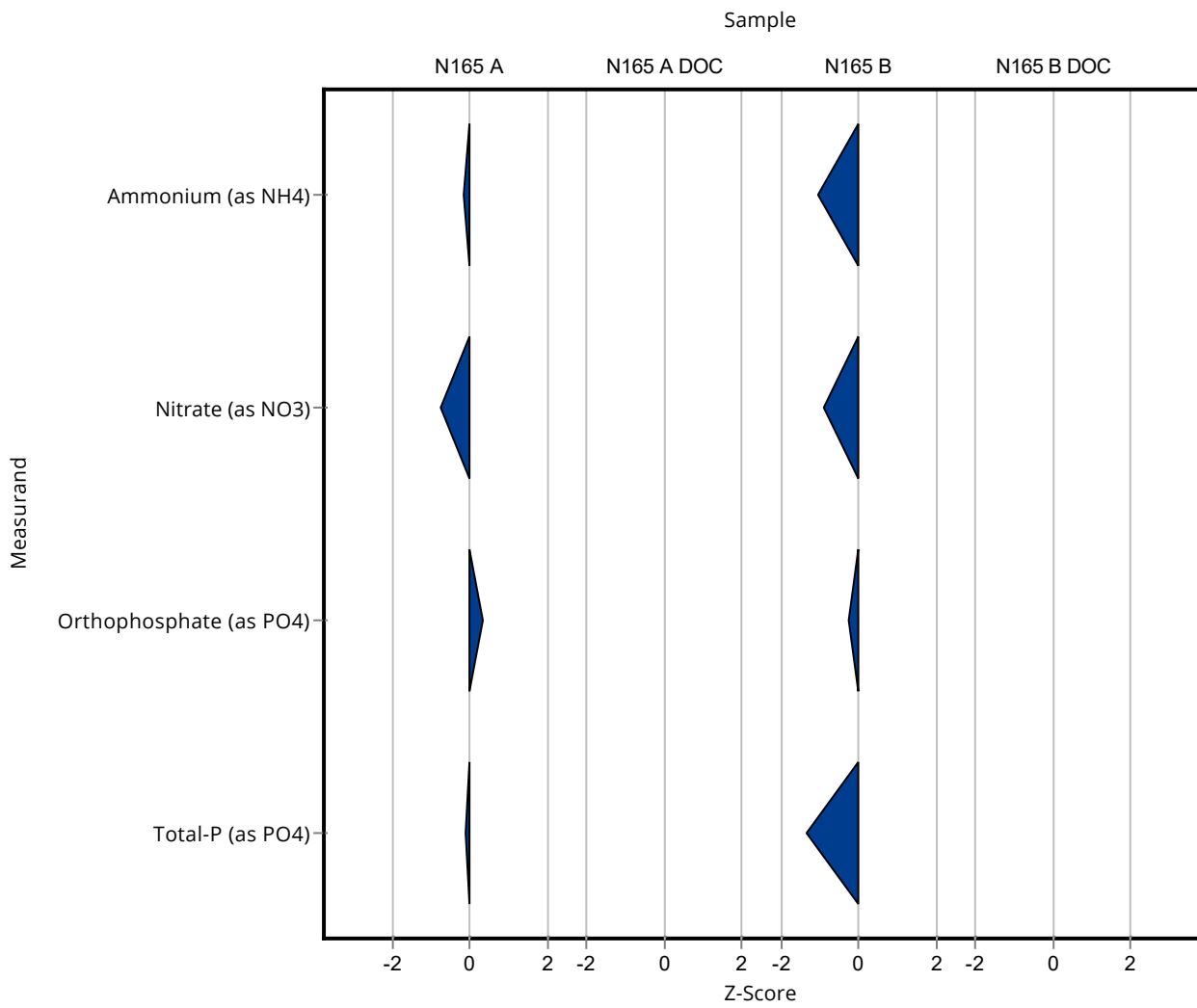
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.145 ± 0.013 | 0.0199 | 87.4 | -1.05 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.1 ± 0.13 | 0.791 | 95.4 | -0.91 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.146 ± 0.01 | 0.0166 | 97 | -0.28 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.59 ± 0.02 | 0.133 | 90.1 | -1.32 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.054 ± 0.003 | 0.00999 | 97.3 | -0.21 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.8 ± 0.79 | 0.716 | 96.4 | -0.33 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.143 ± 0.01 | 0.0392 | 109 | 0.48 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.01 | 0.0324 | 99 | -0.18 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

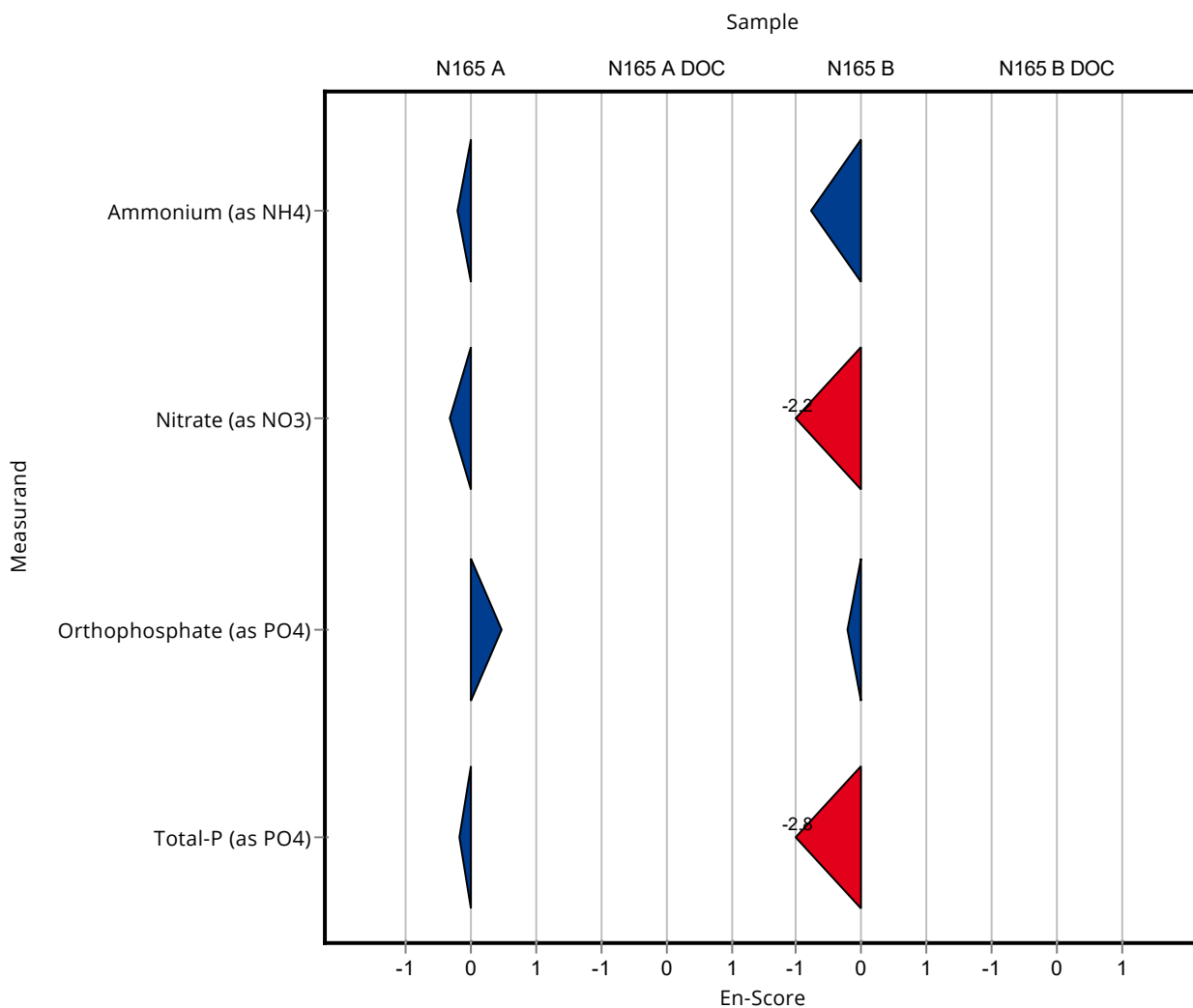
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0034

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.145 ± 0.013 | 0.0199 | 87.4 | -0.78 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.1 ± 0.13 | 0.791 | 95.4 | -2.17 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.146 ± 0.01 | 0.0166 | 97 | -0.22 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.59 ± 0.02 | 0.133 | 90.1 | -2.85 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.6 ± 0.15 | 0.147 | 104 | 1.83 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 18 | 11.9 | 99.9 | -0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.8 ± 0.16 | 0.154 | 102 | 0.76 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

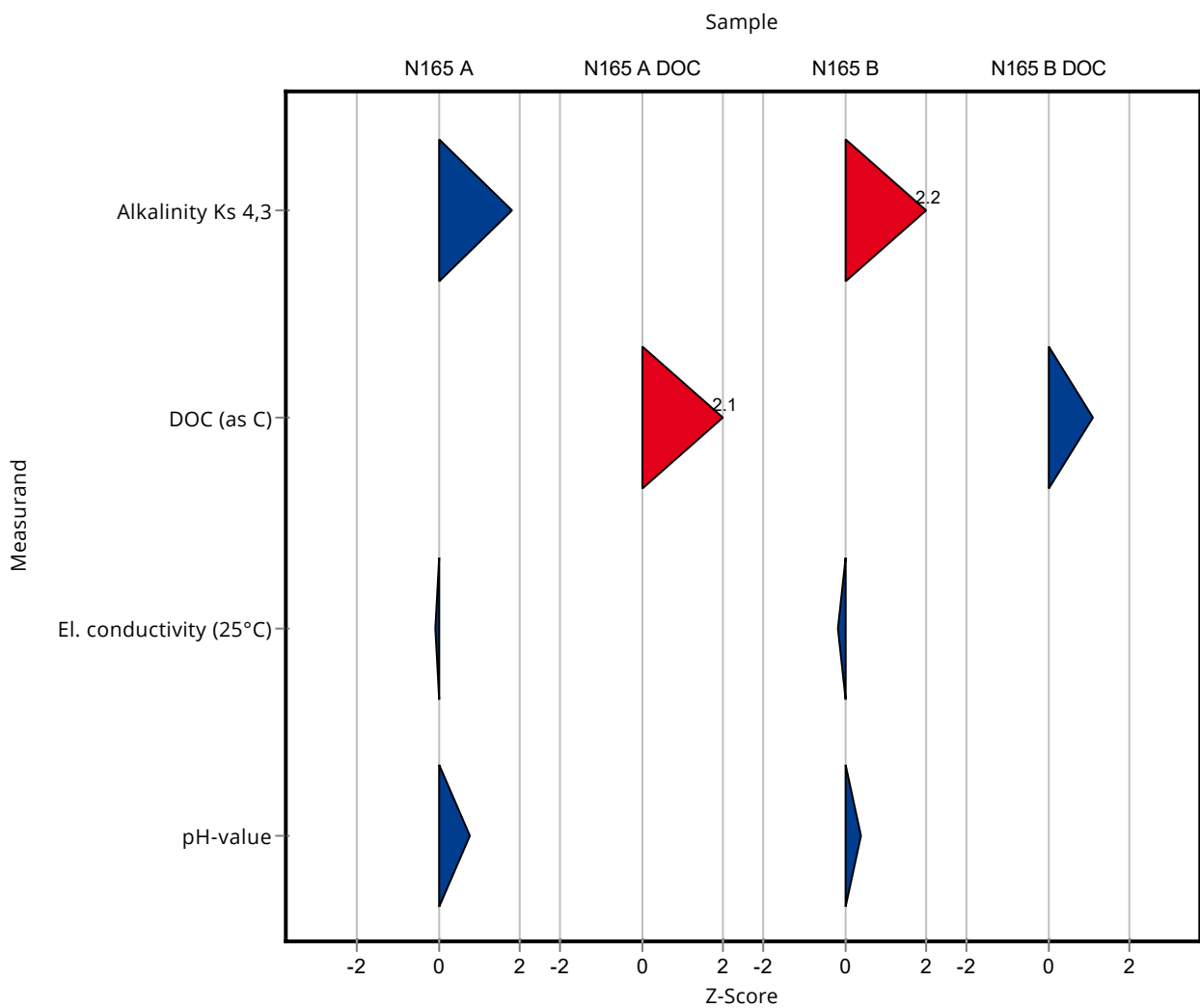
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.79 ± 0.22 | 0.193 | 130 | 2.13 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.5 ± 0.07 | 0.0671 | 104 | 2.19 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 479 ± 9.6 | 6.24 | 99.8 | -0.17 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.9 ± 0.16 | 0.157 | 101 | 0.38 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.75 ± 0.47 | 0.337 | 111 | 1.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.6 ± 0.15 | 0.147 | 104 | 0.88 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 18 | 11.9 | 99.9 | -0.02 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.8 ± 0.16 | 0.154 | 102 | 0.36 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.79 ± 0.22 | 0.193 | 130 | 0.92 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

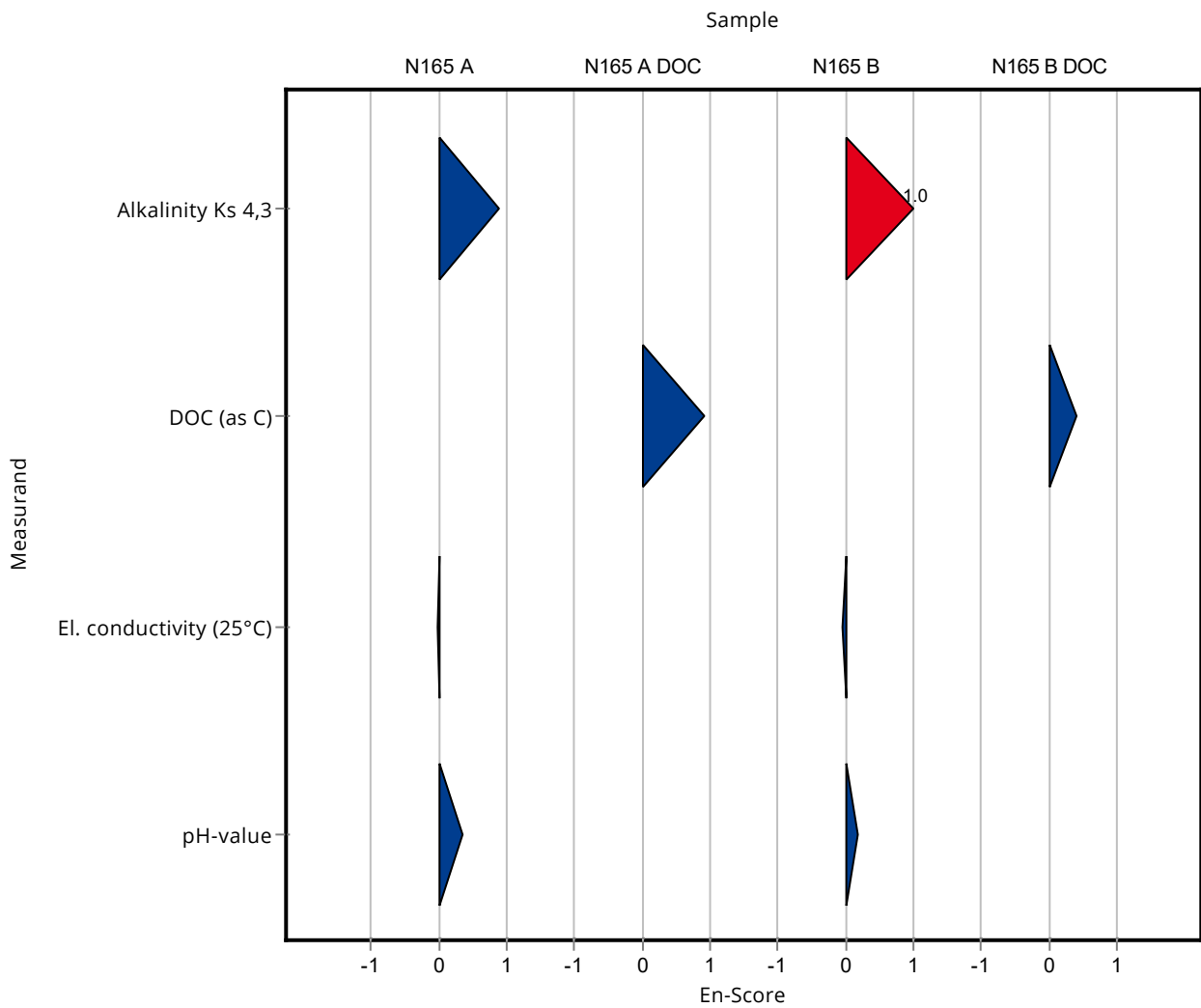
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0035

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.5 ± 0.07 | 0.0671 | 104 | 1.04 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 479 ± 9.6 | 6.24 | 99.8 | -0.05 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.9 ± 0.16 | 0.157 | 101 | 0.19 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.75 ± 0.47 | 0.337 | 111 | 0.40 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.496 ± 0.375 | 0.147 | 102 | 1.12 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.05 ± 0.005 | 0.00999 | 90.1 | -0.55 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.06 ± 0.006 | 0.00646 | 102 | 0.20 |
| Calcium | mg/l | 124 ± 1.6 | 122 ± 12.2 | 4.34 | 98.4 | -0.45 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.46 ± 2.82 | 2.3 | 98 | -0.49 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 478 ± 26.29 | 11.9 | 52.2 | -36.76 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 454 ± 22.7 | 8.9 | 102 | 1.01 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.3 ± 3.03 | 1.19 | 102 | 0.38 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 16.07 ± 0.8 | 0.716 | 112 | 2.44 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.21 ± 0.201 | 0.011 | 101 | 0.20 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.2 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | 5 ± 0.5 | 0.249 | 104 | 0.84 |
| Sodium | mg/l | 26.9 ± 0.356 | 28 ± 2.8 | 0.914 | 104 | 1.23 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.11 ± 2.06 | 1.37 | 98.7 | -0.38 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.28 ± 0.43 | 0.131 | 98.2 | -0.59 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.86 ± 0.386 | 0.29 | 110 | 1.26 |

Sample: N165ADOC

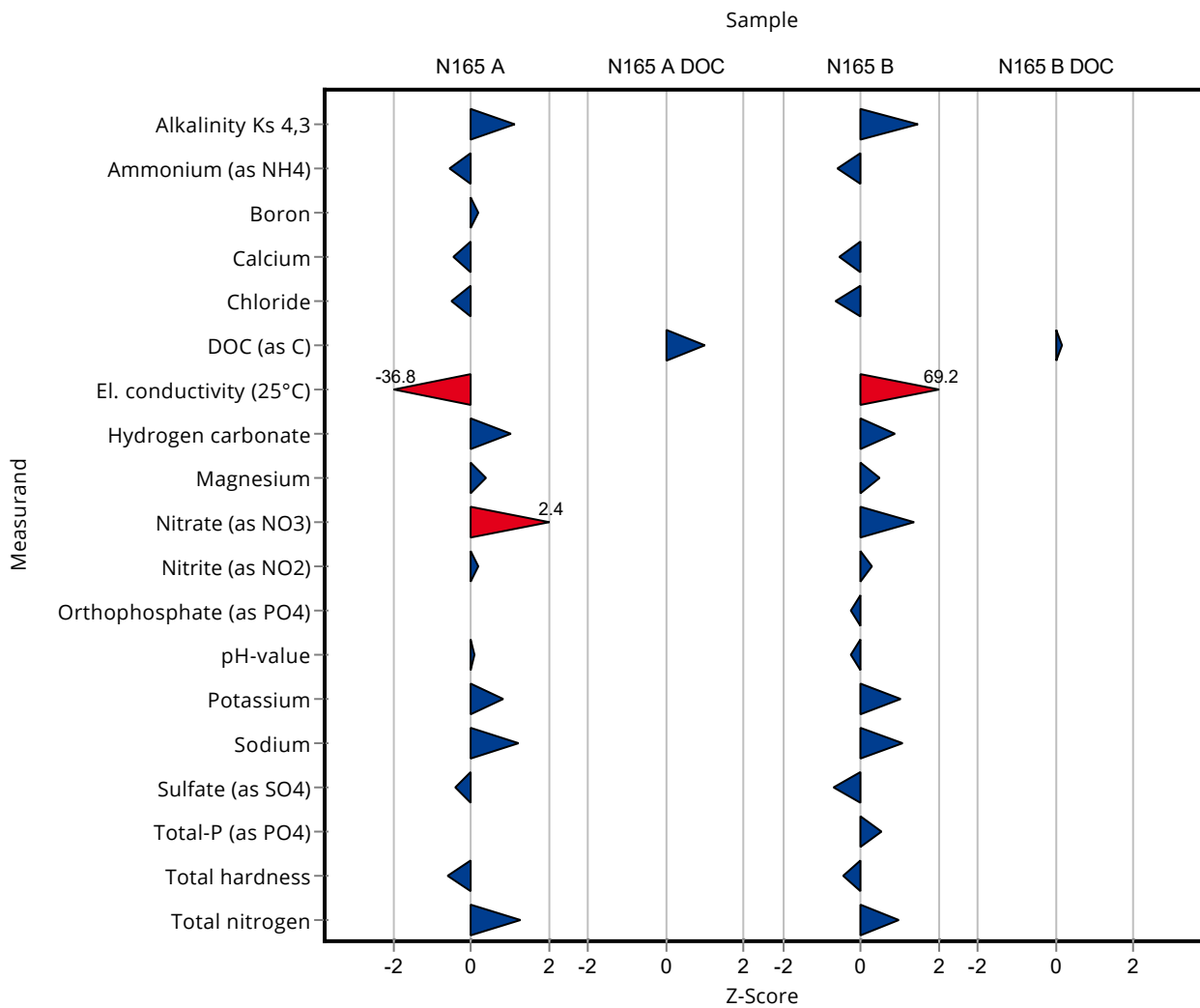
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|---------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.572 ± 0.284 | 0.193 | 114 | 1.00 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.452 ± 0.173 | 0.0671 | 103 | 1.47 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.154 ± 0.015 | 0.0199 | 92.9 | -0.59 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59.4 ± 5.9 | 1.87 | 98.3 | -0.55 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 1.247 | 1.03 | 97.3 | -0.68 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 912 ± 50.16 | 6.24 | 190 | 69.22 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 208 ± 10.4 | 5.68 | 103 | 0.90 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.45 | 0.57 | 102 | 0.45 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.89 ± 0.844 | 0.791 | 107 | 1.35 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.025 | 0.0128 | 101 | 0.28 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.146 ± 0.015 | 0.0166 | 97 | -0.28 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.2 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.5 ± 0.25 | 0.124 | 105 | 1.01 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 1.6 | 0.525 | 104 | 1.05 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.03 ± 1.5 | 1.02 | 97.6 | -0.72 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.834 ± 0.183 | 0.133 | 104 | 0.52 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.08 ± 0.02 | 0.0632 | 98.7 | -0.45 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.21 ± 0.42 | 0.323 | 108 | 0.99 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.419 ± 0.62 | 0.337 | 101 | 0.13 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.496 ± 0.375 | 0.147 | 102 | 0.22 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.05 ± 0.005 | 0.00999 | 90.1 | -0.52 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.06 ± 0.006 | 0.00646 | 102 | 0.10 |
| Calcium | mg/l | 124 ± 1.6 | 122 ± 12.2 | 4.34 | 98.4 | -0.08 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.46 ± 2.82 | 2.3 | 98 | -0.20 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 478 ± 26.29 | 11.9 | 52.2 | -8.30 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 454 ± 22.7 | 8.9 | 102 | 0.20 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.3 ± 3.03 | 1.19 | 102 | 0.07 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 16.07 ± 0.8 | 0.716 | 112 | 1.09 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.21 ± 0.201 | 0.011 | 101 | 0.01 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.2 | 0.154 | 100 | 0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | 5 ± 0.5 | 0.249 | 104 | 0.21 |
| Sodium | mg/l | 26.9 ± 0.356 | 28 ± 2.8 | 0.914 | 104 | 0.20 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.11 ± 2.06 | 1.37 | 98.7 | -0.13 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.28 ± 0.43 | 0.131 | 98.2 | -0.09 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.86 ± 0.386 | 0.29 | 110 | 0.47 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|---------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.572 ± 0.284 | 0.193 | 114 | 0.34 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

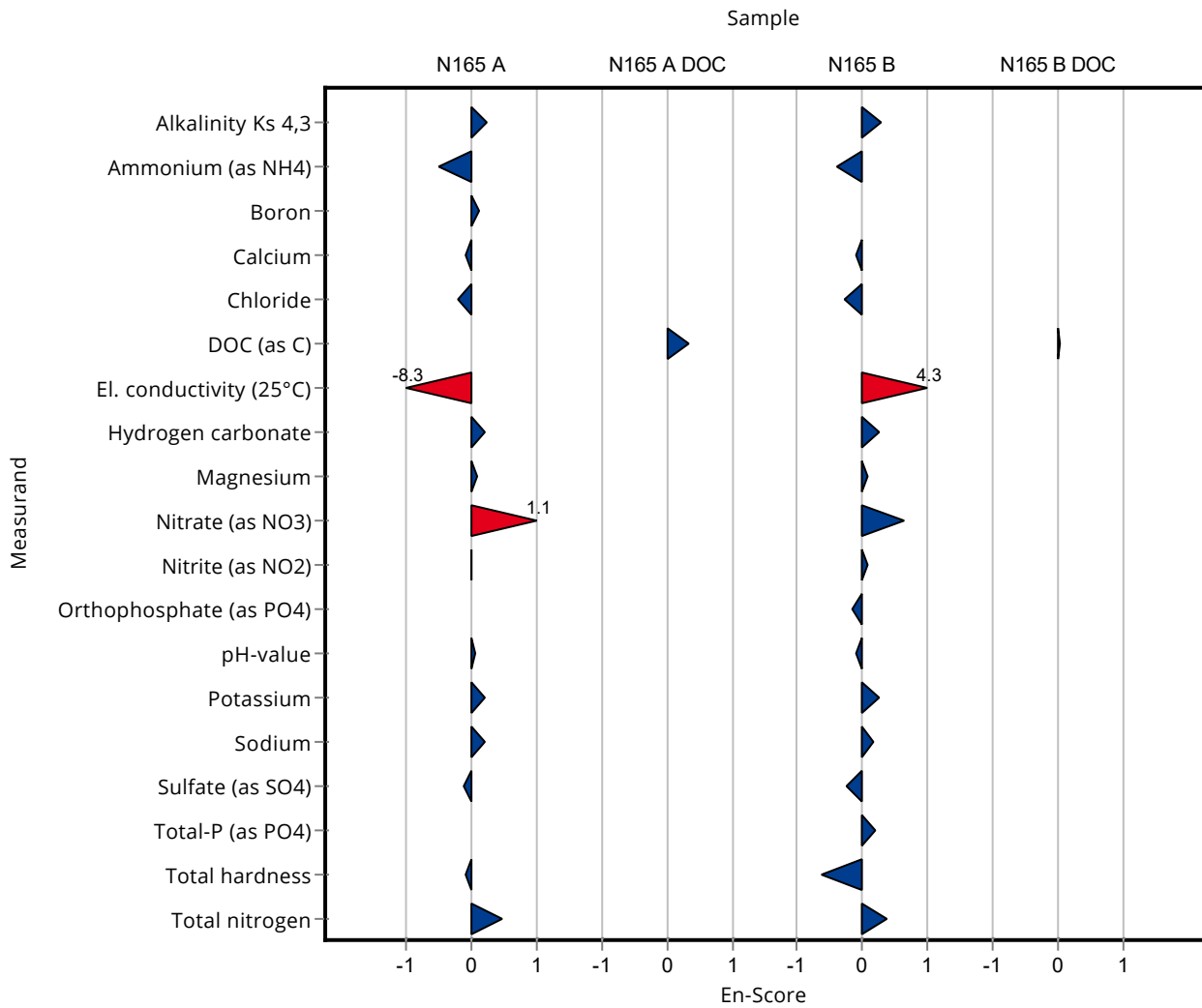
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0036

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.452 ± 0.173 | 0.0671 | 103 | 0.28 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.154 ± 0.015 | 0.0199 | 92.9 | -0.39 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 59.4 ± 5.9 | 1.87 | 98.3 | -0.09 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 1.247 | 1.03 | 97.3 | -0.28 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 912 ± 50.16 | 6.24 | 190 | 4.31 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 208 ± 10.4 | 5.68 | 103 | 0.24 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.5 ± 1.45 | 0.57 | 102 | 0.09 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.89 ± 0.844 | 0.791 | 107 | 0.63 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.246 ± 0.025 | 0.0128 | 101 | 0.07 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.146 ± 0.015 | 0.0166 | 97 | -0.15 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.2 | 0.157 | 99.5 | -0.10 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.5 ± 0.25 | 0.124 | 105 | 0.25 |
| Sodium | mg/l | 15.4 ± 0.239 | 16 ± 1.6 | 0.525 | 104 | 0.17 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.03 ± 1.5 | 1.02 | 97.6 | -0.24 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.834 ± 0.183 | 0.133 | 104 | 0.19 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.08 ± 0.02 | 0.0632 | 98.7 | -0.62 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.21 ± 0.42 | 0.323 | 108 | 0.38 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.419 ± 0.62 | 0.337 | 101 | 0.04 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.33 ± 0.005 | 0.147 | 100 | -0.02 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.047 ± 0.0014 | 0.00999 | 84.7 | -0.85 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128.6 ± 0.64 | 4.34 | 104 | 1.07 |
| Chloride | mg/l | 57.6 ± 0.558 | 53.43 ± 1.6 | 2.3 | 92.8 | -1.81 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 926 ± 11.58 | 11.9 | 101 | 0.88 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 447.5 ± 2.24 | 8.9 | 101 | 0.28 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.78 ± 0.24 | 1.19 | 99.8 | -0.06 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.05 ± 0.35 | 0.716 | 98.1 | -0.38 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.214 ± 0.011 | 0.011 | 103 | 0.57 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.064 ± 0.0038 | 0.0392 | 49 | -1.70 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.15 | 0.154 | 99.8 | -0.09 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.91 ± 0.16 | 0.249 | 102 | 0.48 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.62 ± 0.27 | 0.914 | 99 | -0.28 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.17 ± 0.63 | 1.37 | 101 | 0.39 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.405 ± 0.036 | 0.0324 | 93.7 | -0.84 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.37 ± 0.022 | 0.131 | 100 | 0.09 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

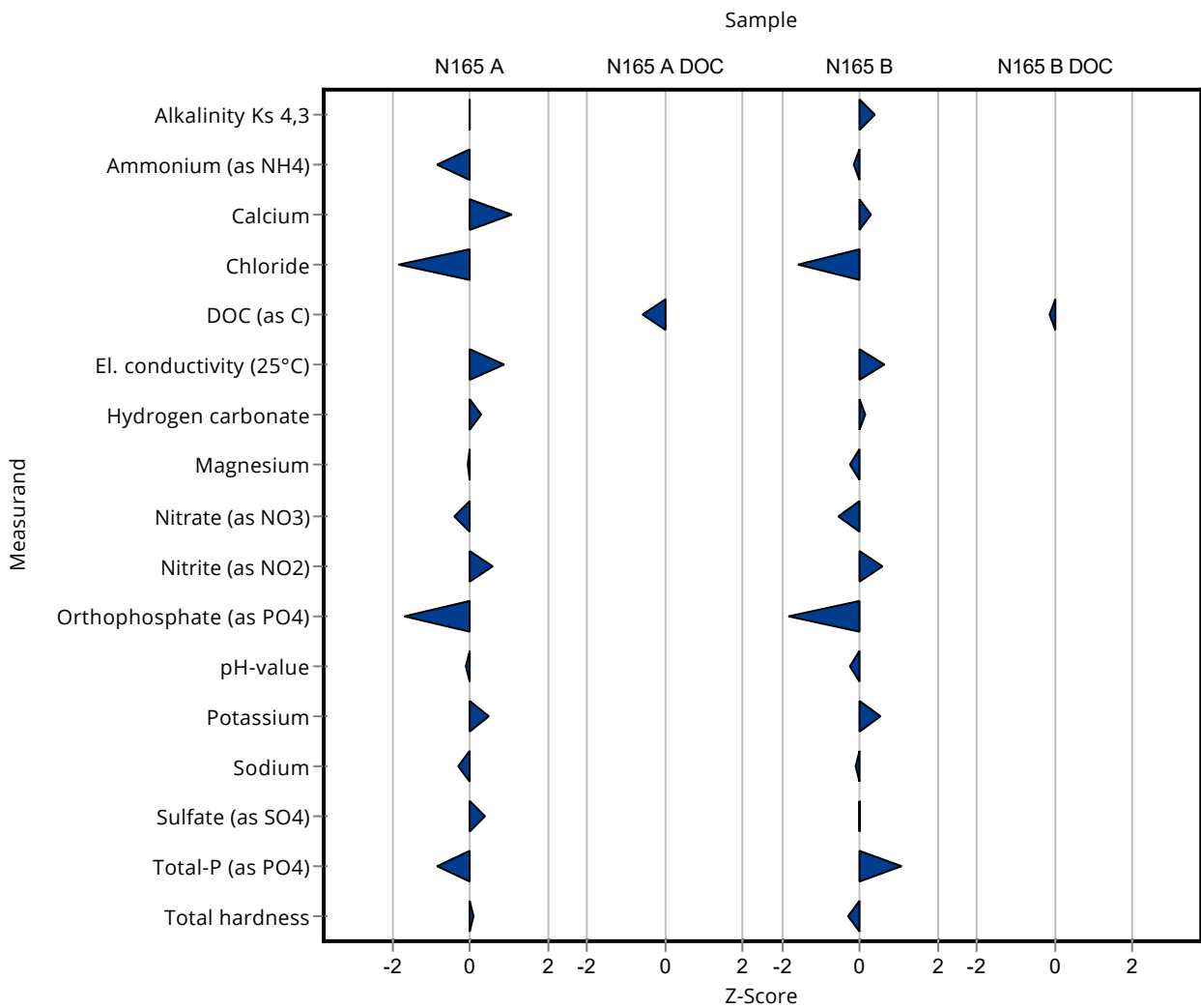
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|---------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.271 ± 0.095 | 0.193 | 92.2 | -0.56 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.38 ± 0.005 | 0.0671 | 101 | 0.40 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.163 ± 0.0049 | 0.0199 | 98.3 | -0.14 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61 ± 0.31 | 1.87 | 101 | 0.30 |
| Chloride | mg/l | 25.6 ± 0.265 | 23.98 ± 0.72 | 1.03 | 93.6 | -1.61 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 6.05 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.7 ± 1.02 | 5.68 | 100 | 0.14 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.1 ± 0.11 | 0.57 | 99 | -0.25 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.4 ± 0.39 | 0.791 | 97.3 | -0.53 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.013 | 0.0128 | 103 | 0.59 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.12 ± 0.0072 | 0.0166 | 79.7 | -1.85 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.16 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.44 ± 0.081 | 0.124 | 103 | 0.52 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.4 ± 0.15 | 0.525 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.74 ± 0.46 | 1.02 | 99.9 | -0.02 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.904 ± 0.17 | 0.133 | 108 | 1.05 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.09 ± 0.01 | 0.0632 | 99.1 | -0.29 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.334 ± 0.25 | 0.337 | 98.8 | -0.12 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.33 ± 0.005 | 0.147 | 100 | -0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.047 ± 0.0014 | 0.00999 | 84.7 | -1.85 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128.6 ± 0.64 | 4.34 | 104 | 2.27 |
| Chloride | mg/l | 57.6 ± 0.558 | 53.43 ± 1.6 | 2.3 | 92.8 | -1.28 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 926 ± 11.58 | 11.9 | 101 | 0.45 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 447.5 ± 2.24 | 8.9 | 101 | 0.48 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.78 ± 0.24 | 1.19 | 99.8 | -0.11 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.05 ± 0.35 | 0.716 | 98.1 | -0.38 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.214 ± 0.011 | 0.011 | 103 | 0.28 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.064 ± 0.0038 | 0.0392 | 49 | -3.72 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.15 | 0.154 | 99.8 | -0.04 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.91 ± 0.16 | 0.249 | 102 | 0.37 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.62 ± 0.27 | 0.914 | 99 | -0.40 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.17 ± 0.63 | 1.37 | 101 | 0.41 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.405 ± 0.036 | 0.0324 | 93.7 | -0.37 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.37 ± 0.022 | 0.131 | 100 | 0.21 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|---------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.271 ± 0.095 | 0.193 | 92.2 | -0.53 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

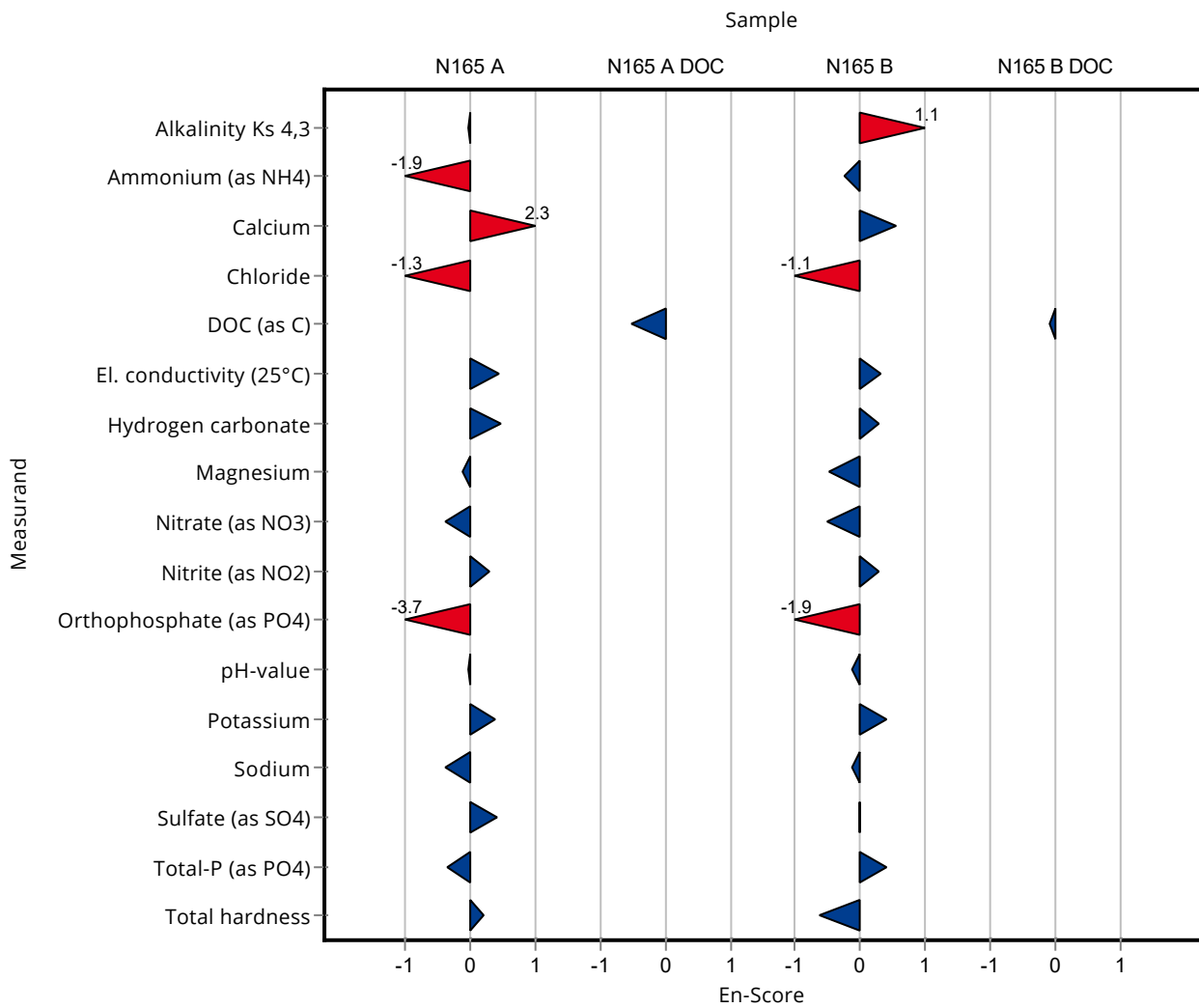
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0037

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.38 ± 0.005 | 0.0671 | 101 | 1.13 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.163 ± 0.0049 | 0.0199 | 98.3 | -0.25 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 61 ± 0.31 | 1.87 | 101 | 0.54 |
| Chloride | mg/l | 25.6 ± 0.265 | 23.98 ± 0.72 | 1.03 | 93.6 | -1.13 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 6.05 | 6.24 | 101 | 0.32 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 203.7 ± 1.02 | 5.68 | 100 | 0.28 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.1 ± 0.11 | 0.57 | 99 | -0.48 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.4 ± 0.39 | 0.791 | 97.3 | -0.52 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.013 | 0.0128 | 103 | 0.29 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.12 ± 0.0072 | 0.0166 | 79.7 | -1.93 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.16 | 0.157 | 99.5 | -0.13 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.44 ± 0.081 | 0.124 | 103 | 0.39 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.4 ± 0.15 | 0.525 | 99.7 | -0.12 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.74 ± 0.46 | 1.02 | 99.9 | -0.02 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.904 ± 0.17 | 0.133 | 108 | 0.40 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.09 ± 0.01 | 0.0632 | 99.1 | -0.62 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.334 ± 0.25 | 0.337 | 98.8 | -0.08 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.058 ± 0.0058 | 0.00646 | 98.7 | -0.11 |
| Calcium | mg/l | 124 ± 1.6 | 121 ± 7.27 | 4.34 | 97.6 | -0.68 |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 29 ± 2.32 | 1.19 | 97.1 | -0.71 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.173 ± 0.012 | 0.0392 | 132 | 1.08 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | 4.76 ± 0.19 | 0.249 | 99.4 | -0.12 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.2 ± 0.545 | 0.914 | 101 | 0.35 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.463 ± 0.046 | 0.0324 | 107 | 0.95 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.36 ± 0.436 | 0.131 | 100 | 0.02 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

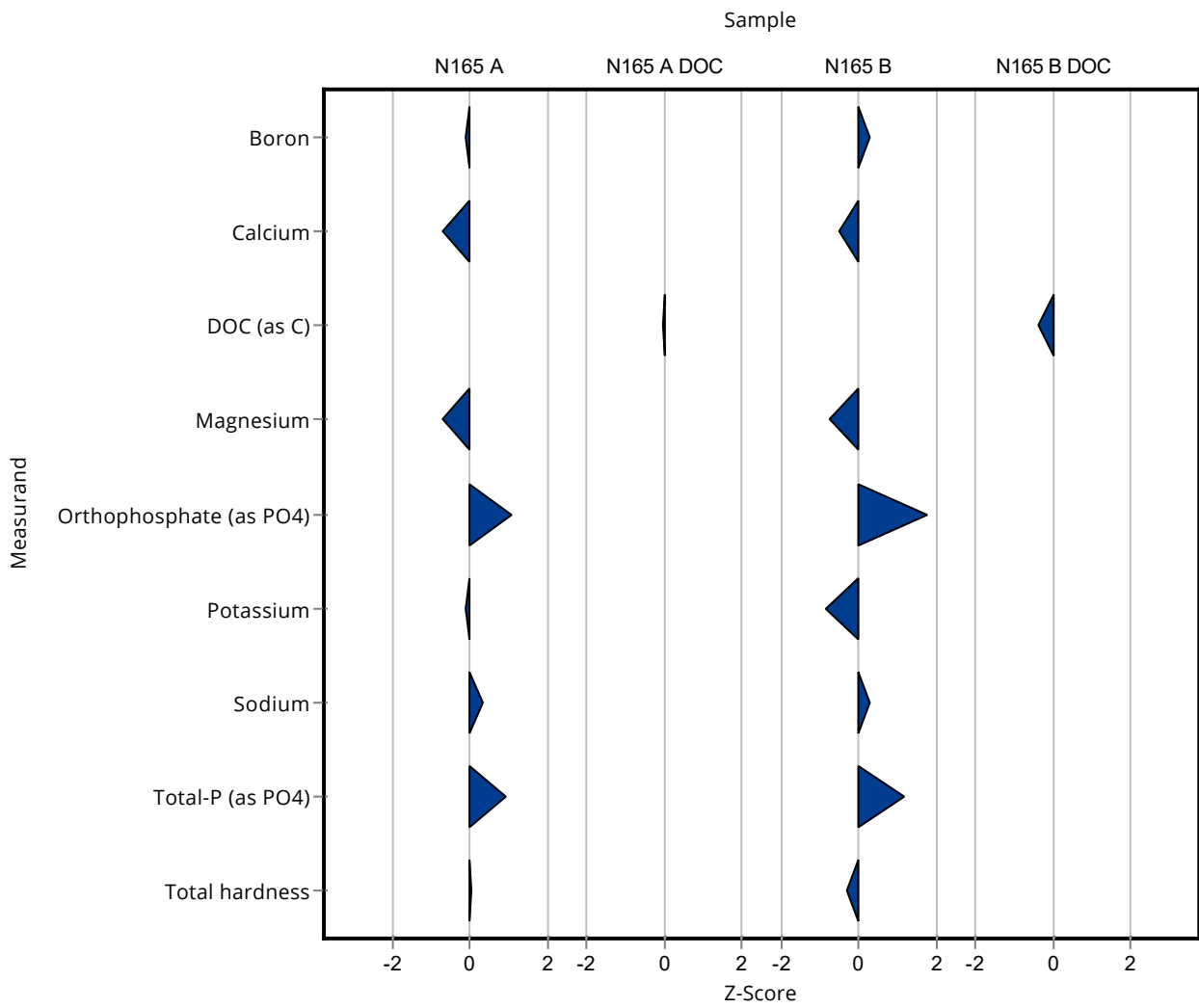
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.15 | 0.193 | 99.3 | -0.05 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.015 ± 0.0015 | 0.00215 | 105 | 0.30 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.5 ± 3.57 | 1.87 | 98.5 | -0.50 |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 1.11 | 0.57 | 96.9 | -0.77 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.18 ± 0.013 | 0.0166 | 120 | 1.78 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.27 ± 0.091 | 0.124 | 95.6 | -0.85 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 0.311 | 0.525 | 101 | 0.29 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.92 ± 0.19 | 0.133 | 109 | 1.17 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.09 ± 0.209 | 0.0632 | 99.1 | -0.29 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.25 ± 0.357 | 0.337 | 96.3 | -0.37 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.058 ± 0.0058 | 0.00646 | 98.7 | -0.06 |
| Calcium | mg/l | 124 ± 1.6 | 121 ± 7.27 | 4.34 | 97.6 | -0.20 |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | - ± - | 11.9 | - | - |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 29 ± 2.32 | 1.19 | 97.1 | -0.18 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.173 ± 0.012 | 0.0392 | 132 | 1.46 |
| pH-value | - | 7.68 ± 0.034 | - ± - | 0.154 | - | - |
| Potassium | mg/l | 4.79 ± 0.051 | 4.76 ± 0.19 | 0.249 | 99.4 | -0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.2 ± 0.545 | 0.914 | 101 | 0.28 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.463 ± 0.046 | 0.0324 | 107 | 0.33 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.36 ± 0.436 | 0.131 | 100 | 0.00 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.37 ± 0.15 | 0.193 | 99.3 | -0.03 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

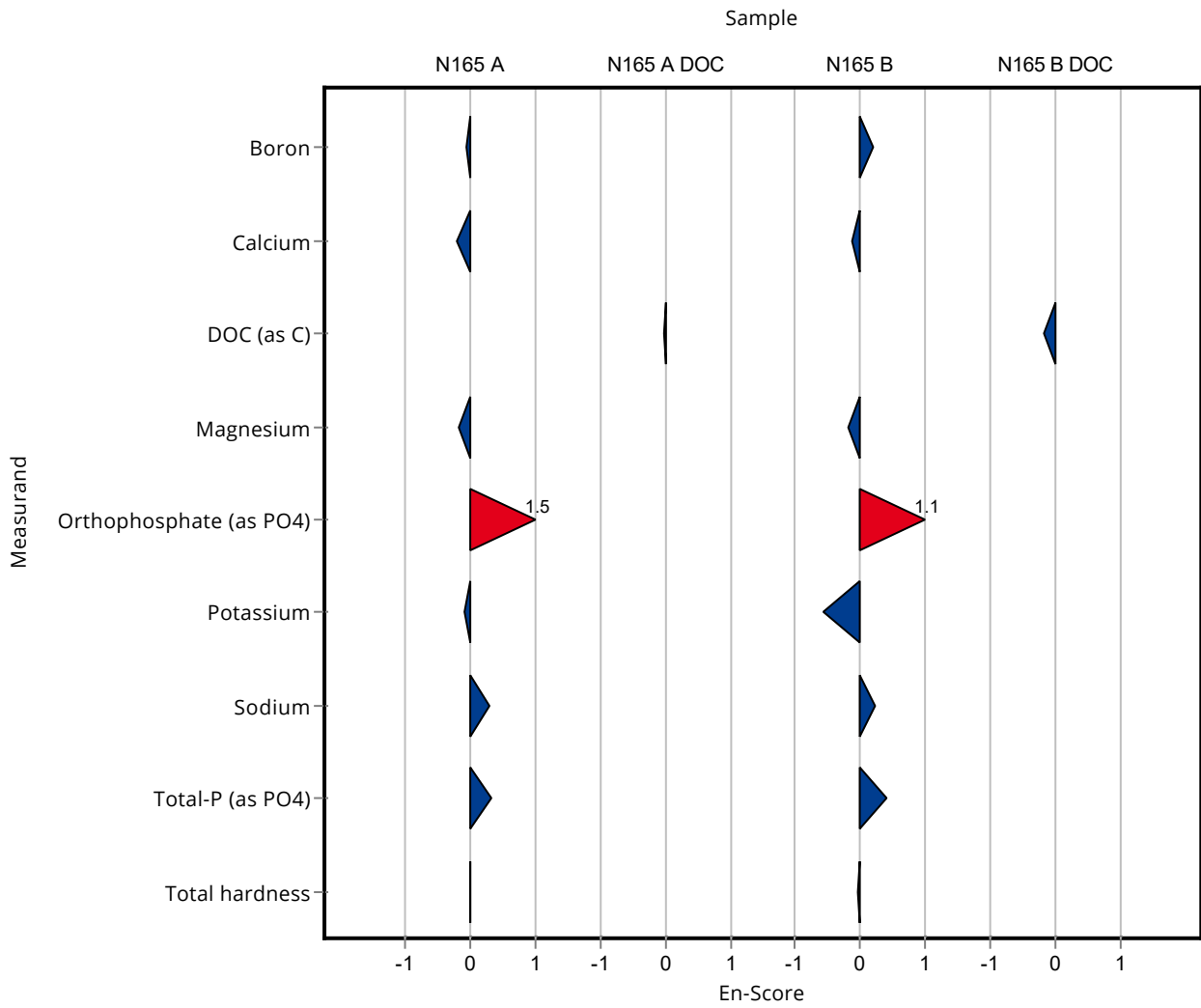
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0038

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.015 ± 0.0015 | 0.00215 | 105 | 0.20 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.5 ± 3.57 | 1.87 | 98.5 | -0.13 |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | - ± - | 6.24 | - | - |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 1.11 | 0.57 | 96.9 | -0.20 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.18 ± 0.013 | 0.0166 | 120 | 1.10 |
| pH-value | - | 7.84 ± 0.0268 | - ± - | 0.157 | - | - |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.27 ± 0.091 | 0.124 | 95.6 | -0.57 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 0.311 | 0.525 | 101 | 0.23 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.92 ± 0.19 | 0.133 | 109 | 0.40 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.09 ± 0.209 | 0.0632 | 99.1 | -0.04 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.25 ± 0.357 | 0.337 | 96.3 | -0.17 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.272 ± 0.482 | 0.147 | 99.2 | -0.41 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.059 ± 0.011 | 0.00999 | 106 | 0.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0603 ± 0.0063 | 0.00646 | 103 | 0.24 |
| Calcium | mg/l | 124 ± 1.6 | 127 ± 6 | 4.34 | 102 | 0.70 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.6 ± 4.6 | 2.3 | 102 | 0.44 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 36 | 11.9 | 99.8 | -0.13 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 440.5 ± 29.4 | 8.9 | 99 | -0.50 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.2 ± 1.8 | 1.19 | 97.8 | -0.55 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.9 | 0.716 | 99.8 | -0.03 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.202 ± 0.016 | 0.011 | 97.2 | -0.52 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.164 ± 0.022 | 0.0392 | 125 | 0.85 |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.2 | 0.154 | 98.9 | -0.54 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.2 | 0.249 | 102 | 0.44 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 1.4 | 0.914 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.5 ± 3.9 | 1.37 | 99.7 | -0.10 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.063 | 0.0324 | 99 | -0.13 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.36 ± 0.22 | 0.131 | 100 | 0.02 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.3 ± 0.4 | 0.29 | 94.5 | -0.67 |

Sample: N165ADOC

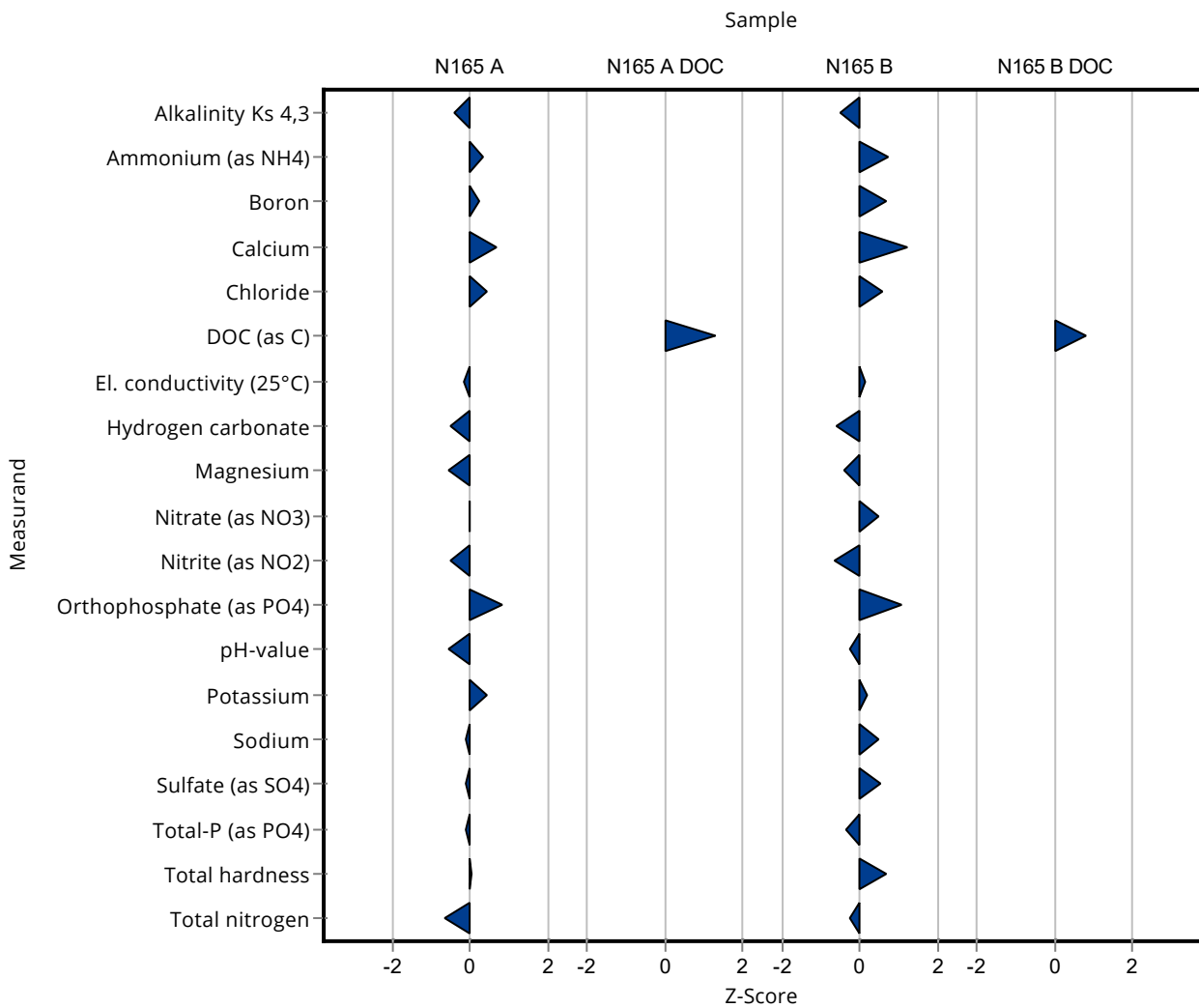
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.63 ± 0.41 | 0.193 | 118 | 1.30 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.235 | 0.0671 | 99 | -0.50 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.18 ± 0.027 | 0.0199 | 109 | 0.71 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0158 ± 0.0023 | 0.00215 | 110 | 0.67 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.7 ± 3 | 1.87 | 104 | 1.21 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.2 ± 2.2 | 1.03 | 102 | 0.55 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 19 | 6.24 | 100 | 0.15 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 199.5 ± 14.3 | 5.68 | 98.3 | -0.60 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14 ± 0.9 | 0.57 | 98.3 | -0.42 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 1 | 0.791 | 102 | 0.48 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.234 ± 0.018 | 0.0128 | 96.5 | -0.66 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.168 ± 0.022 | 0.0166 | 112 | 1.05 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.2 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.1 | 0.124 | 101 | 0.20 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.7 ± 0.8 | 0.525 | 102 | 0.48 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.3 ± 2.9 | 1.02 | 102 | 0.53 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.72 ± 0.25 | 0.133 | 97.4 | -0.34 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.11 | 0.0632 | 102 | 0.66 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.8 ± 0.5 | 0.323 | 97.7 | -0.28 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.64 ± 0.73 | 0.337 | 108 | 0.79 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.272 ± 0.482 | 0.147 | 99.2 | -0.06 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.059 ± 0.011 | 0.00999 | 106 | 0.16 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0603 ± 0.0063 | 0.00646 | 103 | 0.12 |
| Calcium | mg/l | 124 ± 1.6 | 127 ± 6 | 4.34 | 102 | 0.25 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.6 ± 4.6 | 2.3 | 102 | 0.11 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 36 | 11.9 | 99.8 | -0.02 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 440.5 ± 29.4 | 8.9 | 99 | -0.08 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.2 ± 1.8 | 1.19 | 97.8 | -0.18 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.3 ± 0.9 | 0.716 | 99.8 | -0.01 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.202 ± 0.016 | 0.011 | 97.2 | -0.18 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.164 ± 0.022 | 0.0392 | 125 | 0.71 |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.2 | 0.154 | 98.9 | -0.21 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.9 ± 0.2 | 0.249 | 102 | 0.27 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 1.4 | 0.914 | 99.7 | -0.03 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.5 ± 3.9 | 1.37 | 99.7 | -0.02 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.063 | 0.0324 | 99 | -0.03 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.36 ± 0.22 | 0.131 | 100 | 0.01 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.3 ± 0.4 | 0.29 | 94.5 | -0.24 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.63 ± 0.41 | 0.193 | 118 | 0.30 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

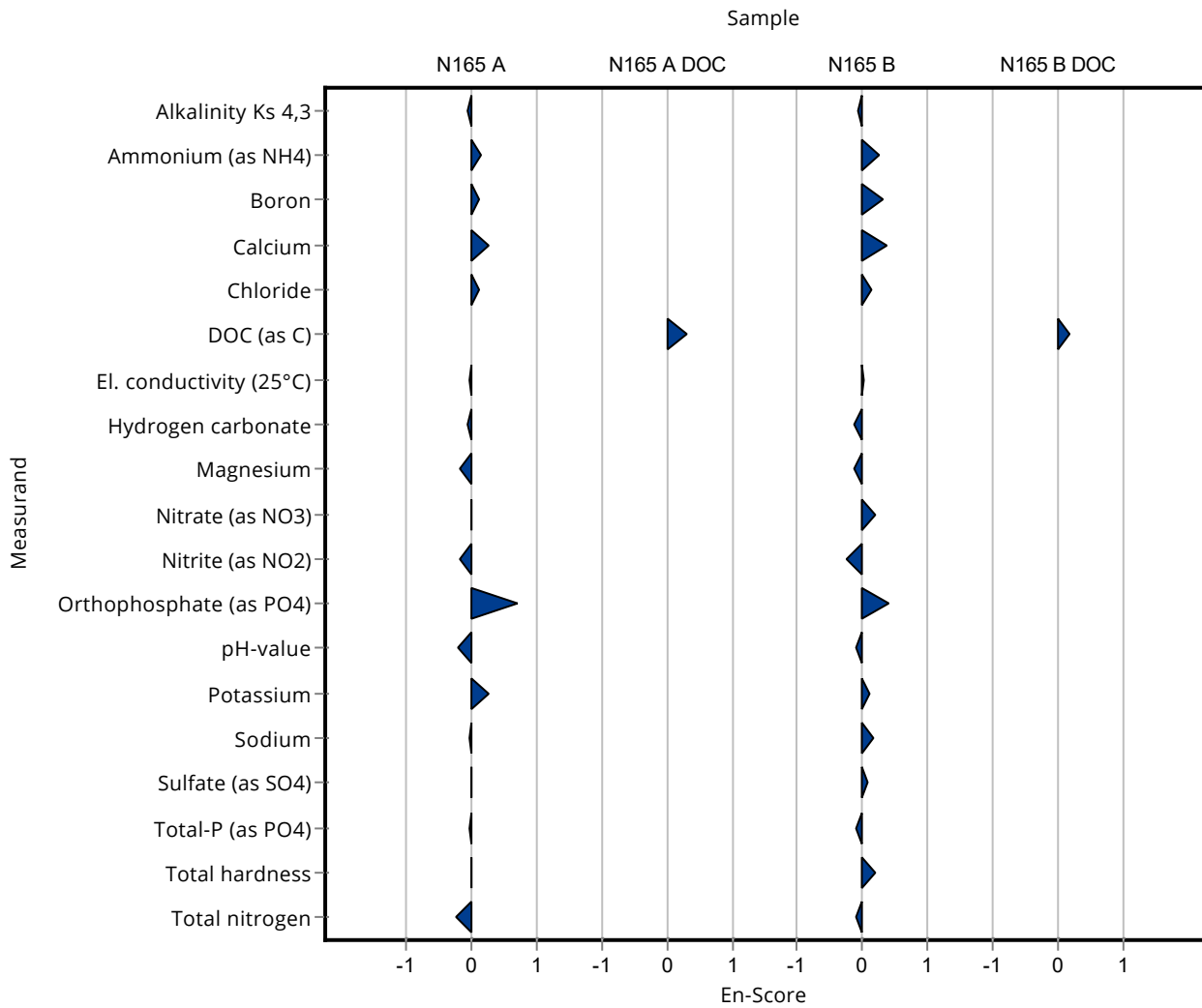
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0039

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.32 ± 0.235 | 0.0671 | 99 | -0.07 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.18 ± 0.027 | 0.0199 | 109 | 0.26 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0158 ± 0.0023 | 0.00215 | 110 | 0.30 |
| Calcium | mg/l | 60.4 ± 0.834 | 62.7 ± 3 | 1.87 | 104 | 0.37 |
| Chloride | mg/l | 25.6 ± 0.265 | 26.2 ± 2.2 | 1.03 | 102 | 0.13 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 481 ± 19 | 6.24 | 100 | 0.02 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 199.5 ± 14.3 | 5.68 | 98.3 | -0.12 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14 ± 0.9 | 0.57 | 98.3 | -0.13 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 1 | 0.791 | 102 | 0.19 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.234 ± 0.018 | 0.0128 | 96.5 | -0.23 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.168 ± 0.022 | 0.0166 | 112 | 0.39 |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.2 | 0.157 | 99.5 | -0.10 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.4 ± 0.1 | 0.124 | 101 | 0.12 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.7 ± 0.8 | 0.525 | 102 | 0.16 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.3 ± 2.9 | 1.02 | 102 | 0.09 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.72 ± 0.25 | 0.133 | 97.4 | -0.09 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.15 ± 0.11 | 0.0632 | 102 | 0.19 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.8 ± 0.5 | 0.323 | 97.7 | -0.09 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.64 ± 0.73 | 0.337 | 108 | 0.18 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.37 ± 0.3685 | 0.147 | 101 | 0.26 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.25 ± 0.025 | 0.00999 | 450 | 19.47 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.056 ± 0.0028 | 0.00646 | 95.3 | -0.42 |
| Calcium | mg/l | 124 ± 1.6 | 122 ± 6.1 | 4.34 | 98.4 | -0.45 |
| Chloride | mg/l | 57.6 ± 0.558 | 50 ± 2.5 | 2.3 | 86.8 | -3.30 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 15.538 | 11.9 | 99.8 | -0.13 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 447 ± 22.35 | 8.9 | 100 | 0.23 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.9 ± 1.395 | 1.19 | 93.5 | -1.63 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14 ± 0.7 | 0.716 | 97.8 | -0.45 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.045 ± 0.0045 | 0.011 | 21.7 | -14.78 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.01 ± 0.001 | 0.0392 | 7.65 | -3.08 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.69 ± 0.2345 | 0.249 | 97.9 | -0.41 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.7 ± 1.285 | 0.914 | 95.6 | -1.29 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.7 ± 2.035 | 1.37 | 97.7 | -0.68 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 1.55 ± 0.155 | 0.0324 | 359 | 34.49 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.19 ± 0.2095 | 0.131 | 96.2 | -1.28 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 23.3 ± 2.33 | 0.29 | 667 | 68.31 |

Sample: N165ADOC

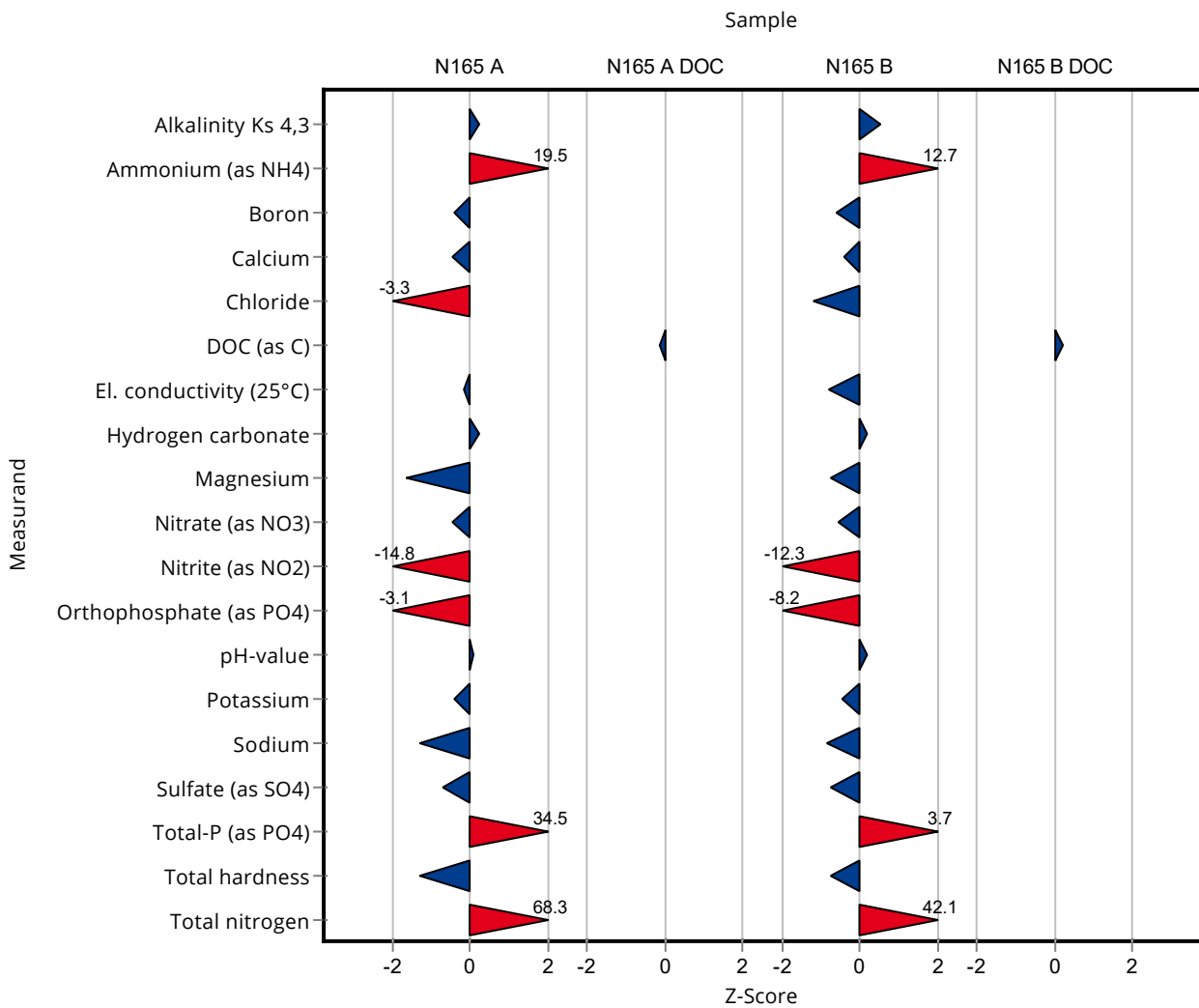
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.35 ± 0.108 | 0.193 | 97.9 | -0.15 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.39 ± 0.1695 | 0.0671 | 101 | 0.55 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.419 ± 0.0419 | 0.0199 | 253 | 12.72 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.013 ± 0.00065 | 0.00215 | 90.6 | -0.63 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.7 ± 2.985 | 1.87 | 98.8 | -0.39 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.4 ± 1.22 | 1.03 | 95.2 | -1.20 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 475 ± 8.075 | 6.24 | 98.9 | -0.81 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204 ± 10.2 | 5.68 | 101 | 0.19 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 0.69 | 0.57 | 96.9 | -0.77 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.4 ± 0.77 | 0.791 | 97.3 | -0.53 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.084 ± 0.0084 | 0.0128 | 34.6 | -12.33 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.014 ± 0.0014 | 0.0166 | 9.3 | -8.25 |
| pH-value | - | 7.84 ± 0.0268 | 7.87 ± 0.1 | 0.157 | 100 | 0.19 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.116 | 0.124 | 97.7 | -0.45 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 0.75 | 0.525 | 97.1 | -0.85 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30 ± 1.5 | 1.02 | 97.5 | -0.75 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 2.25 ± 0.225 | 0.133 | 127 | 3.65 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.06 ± 0.103 | 0.0632 | 97.7 | -0.76 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 17.5 ± 1.75 | 0.323 | 450 | 42.13 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.45 ± 0.276 | 0.337 | 102 | 0.22 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.37 ± 0.3685 | 0.147 | 101 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.25 ± 0.025 | 0.00999 | 450 | 3.88 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.056 ± 0.0028 | 0.00646 | 95.3 | -0.47 |
| Calcium | mg/l | 124 ± 1.6 | 122 ± 6.1 | 4.34 | 98.4 | -0.16 |
| Chloride | mg/l | 57.6 ± 0.558 | 50 ± 2.5 | 2.3 | 86.8 | -1.51 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 914 ± 15.538 | 11.9 | 99.8 | -0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 447 ± 22.35 | 8.9 | 100 | 0.05 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.9 ± 1.395 | 1.19 | 93.5 | -0.69 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14 ± 0.7 | 0.716 | 97.8 | -0.23 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.045 ± 0.0045 | 0.011 | 21.7 | -17.14 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.01 ± 0.001 | 0.0392 | 7.65 | -7.37 |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.69 ± 0.2345 | 0.249 | 97.9 | -0.21 |
| Sodium | mg/l | 26.9 ± 0.356 | 25.7 ± 1.285 | 0.914 | 95.6 | -0.45 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.7 ± 2.035 | 1.37 | 97.7 | -0.23 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 1.55 ± 0.155 | 0.0324 | 359 | 3.60 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.19 ± 0.2095 | 0.131 | 96.2 | -0.40 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 23.3 ± 2.33 | 0.29 | 667 | 4.25 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.35 ± 0.108 | 0.193 | 97.9 | -0.13 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

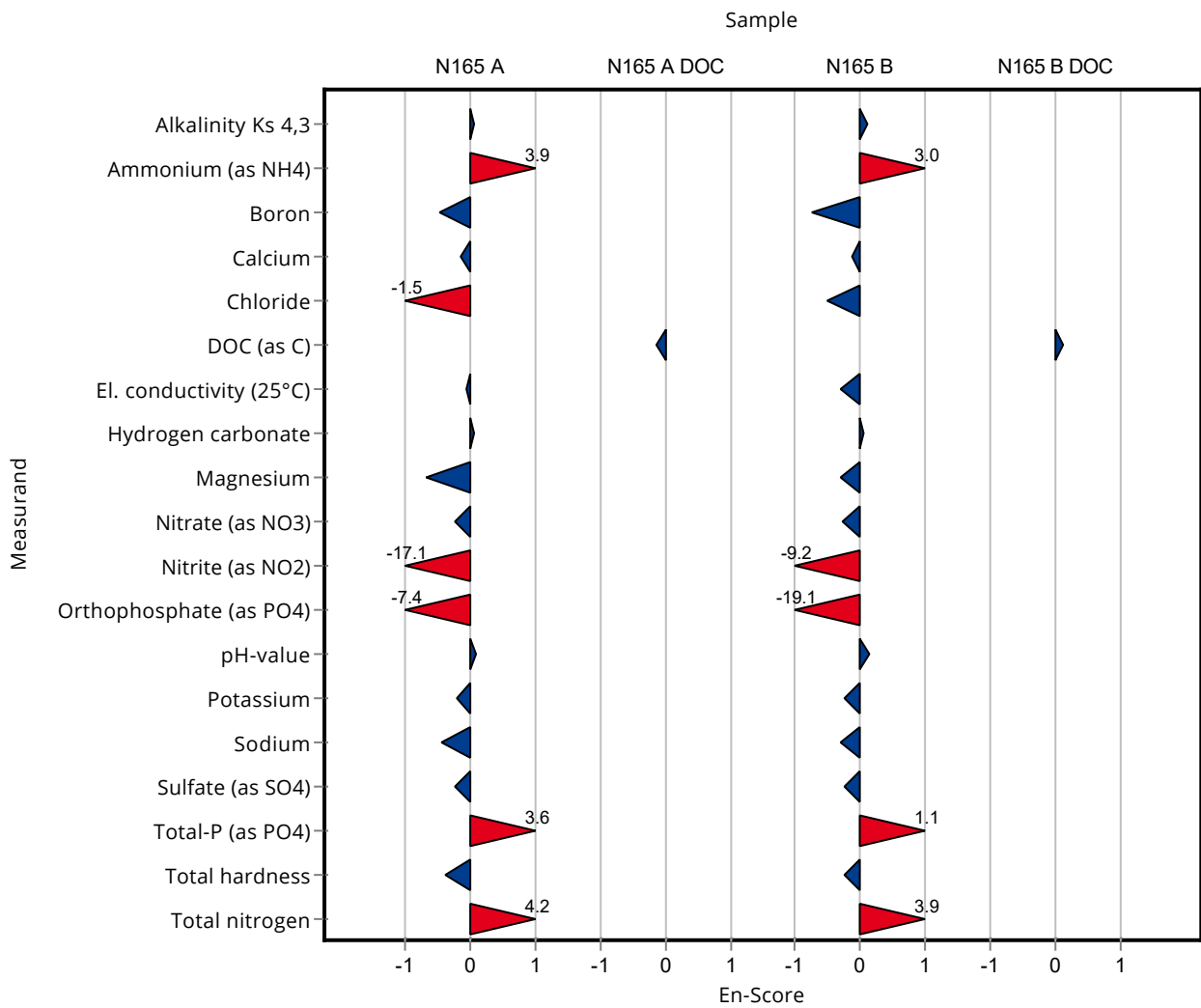
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0040

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.39 ± 0.1695 | 0.0671 | 101 | 0.11 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.419 ± 0.0419 | 0.0199 | 253 | 3.01 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.013 ± 0.00065 | 0.00215 | 90.6 | -0.76 |
| Calcium | mg/l | 60.4 ± 0.834 | 59.7 ± 2.985 | 1.87 | 98.8 | -0.12 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.4 ± 1.22 | 1.03 | 95.2 | -0.50 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 475 ± 8.075 | 6.24 | 98.9 | -0.31 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204 ± 10.2 | 5.68 | 101 | 0.05 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.8 ± 0.69 | 0.57 | 96.9 | -0.32 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.4 ± 0.77 | 0.791 | 97.3 | -0.27 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.084 ± 0.0084 | 0.0128 | 34.6 | -9.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.014 ± 0.0014 | 0.0166 | 9.3 | -19.05 |
| pH-value | - | 7.84 ± 0.0268 | 7.87 ± 0.1 | 0.157 | 100 | 0.15 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.32 ± 0.116 | 0.124 | 97.7 | -0.24 |
| Sodium | mg/l | 15.4 ± 0.239 | 15 ± 0.75 | 0.525 | 97.1 | -0.29 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30 ± 1.5 | 1.02 | 97.5 | -0.25 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 2.25 ± 0.225 | 0.133 | 127 | 1.07 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.06 ± 0.103 | 0.0632 | 97.7 | -0.23 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 17.5 ± 1.75 | 0.323 | 450 | 3.89 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.45 ± 0.276 | 0.337 | 102 | 0.14 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.37 ± 0.37 | 0.147 | 101 | 0.26 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 46.3 | 11.9 | 101 | 0.79 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 450 ± 22.5 | 8.9 | 101 | 0.57 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.83 ± 0.39 | 0.154 | 102 | 0.96 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

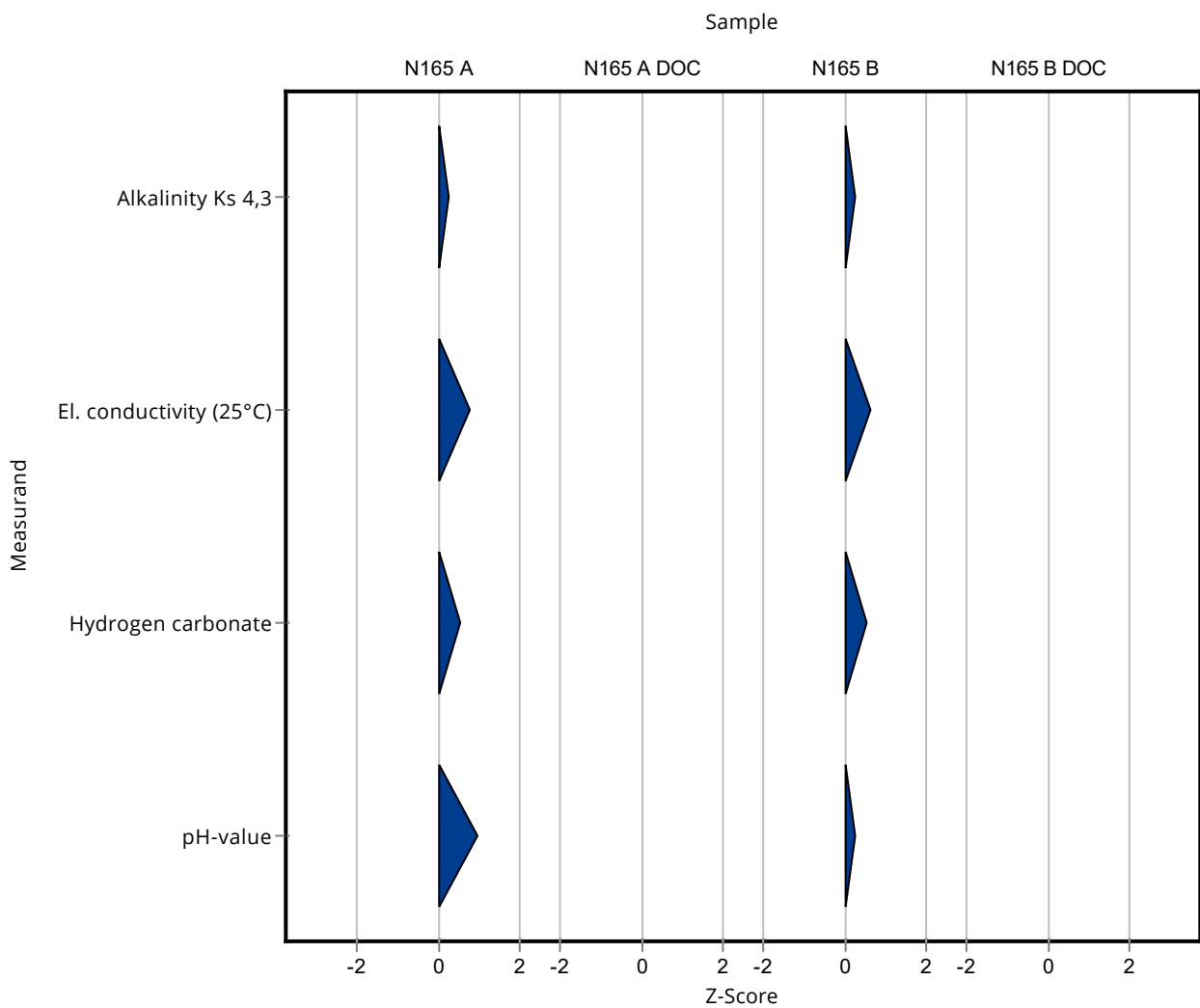
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.37 ± 0.17 | 0.0671 | 100 | 0.25 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 24.2 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 206 ± 10.3 | 5.68 | 102 | 0.55 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.39 | 0.157 | 101 | 0.25 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.37 ± 0.37 | 0.147 | 101 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 46.3 | 11.9 | 101 | 0.10 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 450 ± 22.5 | 8.9 | 101 | 0.11 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.83 ± 0.39 | 0.154 | 102 | 0.19 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

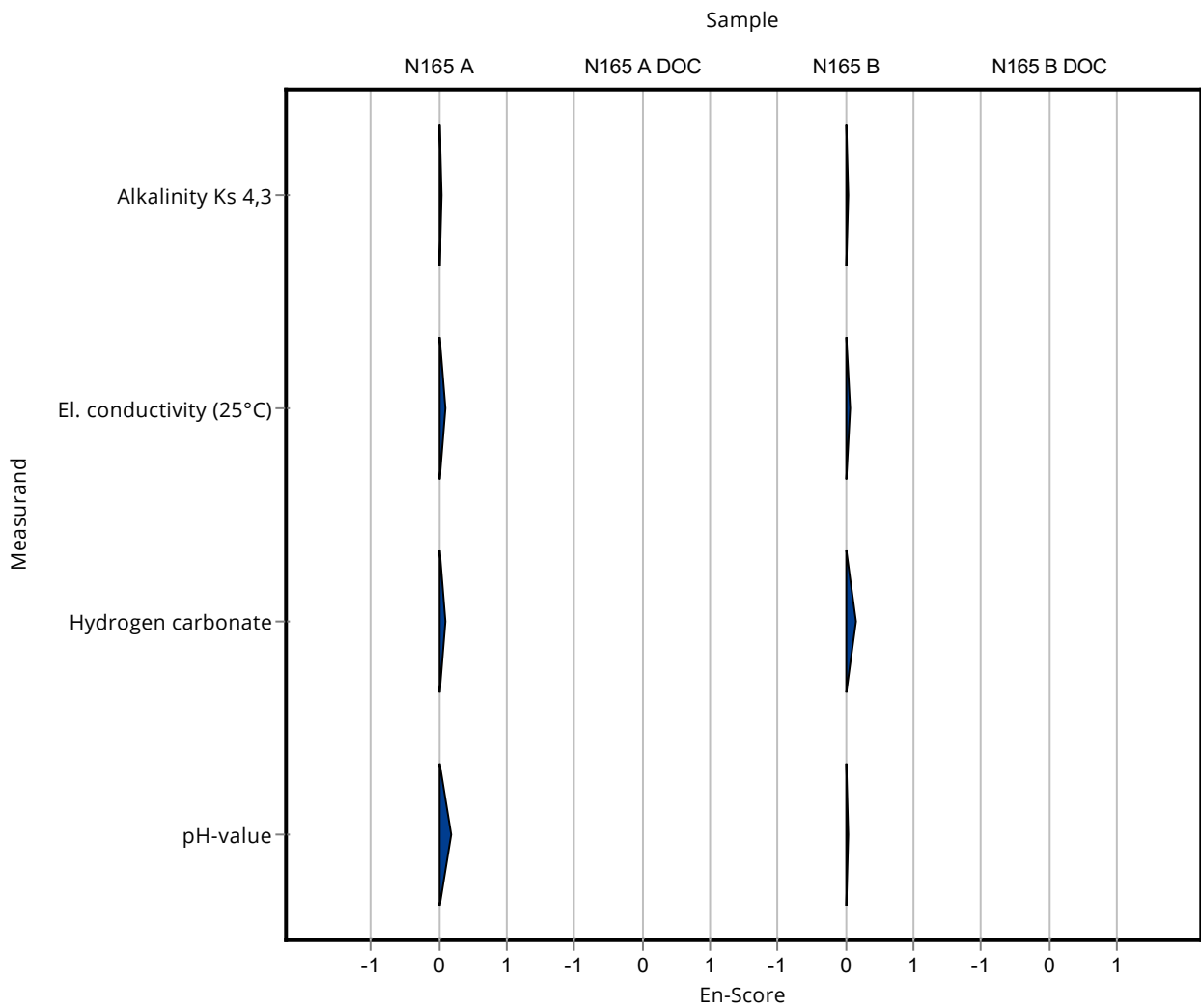
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0041

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.37 ± 0.17 | 0.0671 | 100 | 0.05 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 24.2 | 6.24 | 101 | 0.08 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 206 ± 10.3 | 5.68 | 102 | 0.15 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.88 ± 0.39 | 0.157 | 101 | 0.05 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.35 ± 0.59 | 0.147 | 100 | 0.12 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.049 ± 0.0156 | 0.00999 | 88.3 | -0.65 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.057 ± 0.0098 | 0.00646 | 97 | -0.27 |
| Calcium | mg/l | 124 ± 1.6 | 120 ± 6.7 | 4.34 | 96.8 | -0.91 |
| Chloride | mg/l | 57.6 ± 0.558 | 55.6 ± 12.3 | 2.3 | 96.5 | -0.87 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 911 ± 38.3 | 11.9 | 99.5 | -0.39 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 448 ± 35.8 | 8.9 | 101 | 0.34 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.1 ± 1.2 | 1.19 | 101 | 0.21 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.6 ± 3.2 | 0.716 | 95 | -1.01 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.199 ± 0.08 | 0.011 | 95.8 | -0.80 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.18 ± 0.054 | 0.0392 | 138 | 1.26 |
| pH-value | - | 7.68 ± 0.034 | 7.81 ± 0.063 | 0.154 | 102 | 0.83 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.73 ± 0.31 | 0.249 | 98.7 | -0.25 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.4 ± 1.84 | 0.914 | 102 | 0.57 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.3 ± 9.34 | 1.37 | 96.8 | -0.97 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.42 ± 0.063 | 0.0324 | 97.2 | -0.38 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.23 ± 0.42 | 0.131 | 97.1 | -0.98 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.14 ± 0.47 | 0.29 | 89.9 | -1.22 |

Sample: N165ADOC

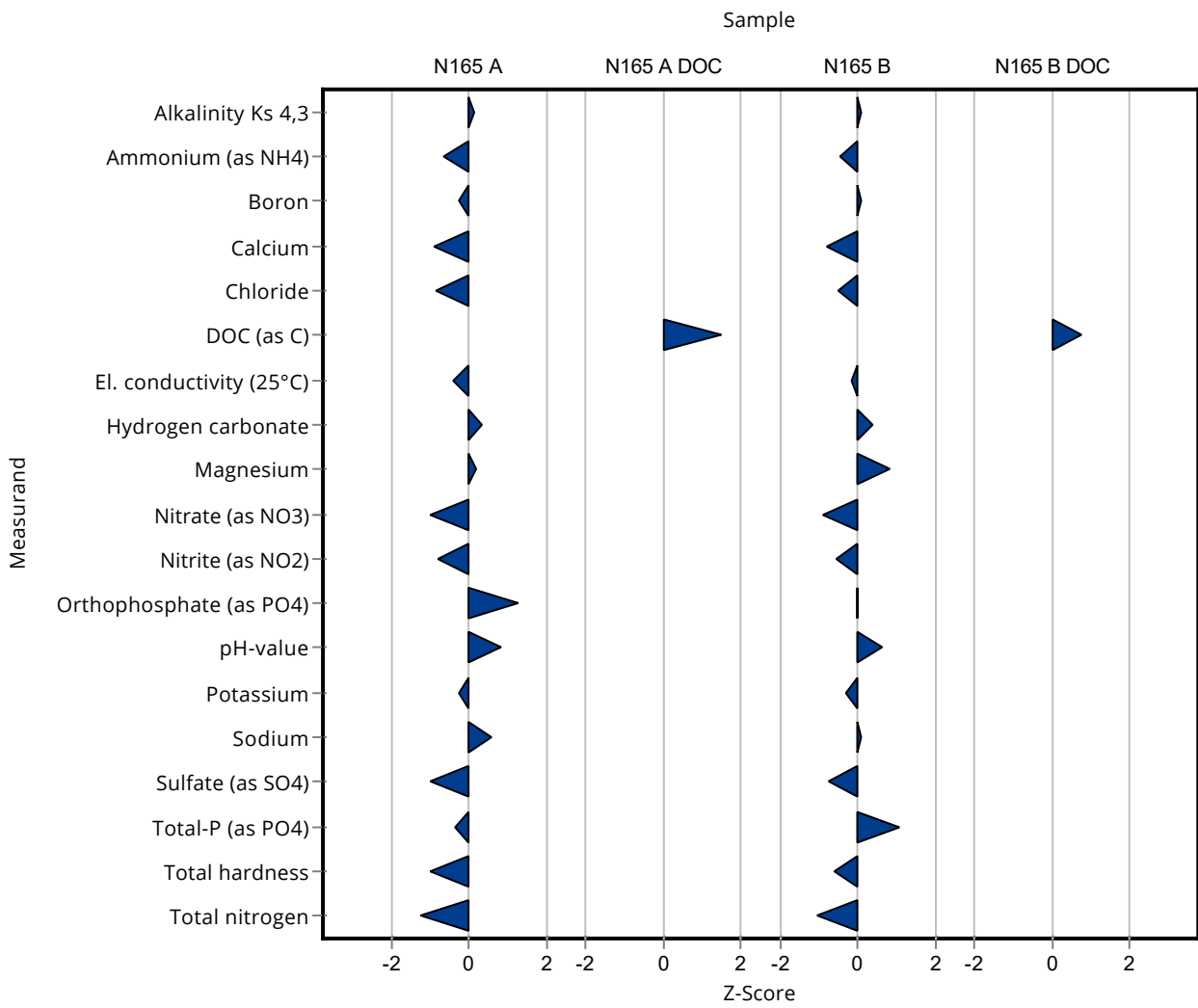
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.67 ± 0.25 | 0.193 | 121 | 1.51 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.27 | 0.0671 | 100 | 0.10 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.157 ± 0.05 | 0.0199 | 94.7 | -0.44 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0145 ± 0.0025 | 0.00215 | 101 | 0.07 |
| Calcium | mg/l | 60.4 ± 0.834 | 58.9 ± 3.3 | 1.87 | 97.5 | -0.82 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.1 ± 5.54 | 1.03 | 97.9 | -0.52 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 479 ± 20.1 | 6.24 | 99.8 | -0.17 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 205 ± 16.4 | 5.68 | 101 | 0.37 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.7 ± 0.6 | 0.57 | 103 | 0.81 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.1 ± 3.56 | 0.791 | 95.4 | -0.91 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.235 ± 0.094 | 0.0128 | 96.9 | -0.58 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.045 | 0.0166 | 99.6 | -0.04 |
| pH-value | - | 7.84 ± 0.0268 | 7.94 ± 0.064 | 0.157 | 101 | 0.64 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.34 ± 0.15 | 0.124 | 98.5 | -0.29 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.5 ± 1.03 | 0.525 | 100 | 0.10 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30 ± 6.95 | 1.02 | 97.5 | -0.75 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.91 ± 0.29 | 0.133 | 108 | 1.09 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.07 ± 0.21 | 0.0632 | 98.2 | -0.61 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.55 ± 0.53 | 0.323 | 91.2 | -1.06 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.63 ± 0.54 | 0.337 | 108 | 0.76 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.35 ± 0.59 | 0.147 | 100 | 0.02 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.049 ± 0.0156 | 0.00999 | 88.3 | -0.21 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.057 ± 0.0098 | 0.00646 | 97 | -0.09 |
| Calcium | mg/l | 124 ± 1.6 | 120 ± 6.7 | 4.34 | 96.8 | -0.29 |
| Chloride | mg/l | 57.6 ± 0.558 | 55.6 ± 12.3 | 2.3 | 96.5 | -0.08 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 911 ± 38.3 | 11.9 | 99.5 | -0.06 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 448 ± 35.8 | 8.9 | 101 | 0.04 |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.1 ± 1.2 | 1.19 | 101 | 0.10 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13.6 ± 3.2 | 0.716 | 95 | -0.11 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.199 ± 0.08 | 0.011 | 95.8 | -0.05 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.18 ± 0.054 | 0.0392 | 138 | 0.45 |
| pH-value | - | 7.68 ± 0.034 | 7.81 ± 0.063 | 0.154 | 102 | 0.97 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.73 ± 0.31 | 0.249 | 98.7 | -0.10 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.4 ± 1.84 | 0.914 | 102 | 0.14 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 40.3 ± 9.34 | 1.37 | 96.8 | -0.07 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.42 ± 0.063 | 0.0324 | 97.2 | -0.10 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.23 ± 0.42 | 0.131 | 97.1 | -0.15 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.14 ± 0.47 | 0.29 | 89.9 | -0.37 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.67 ± 0.25 | 0.193 | 121 | 0.58 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

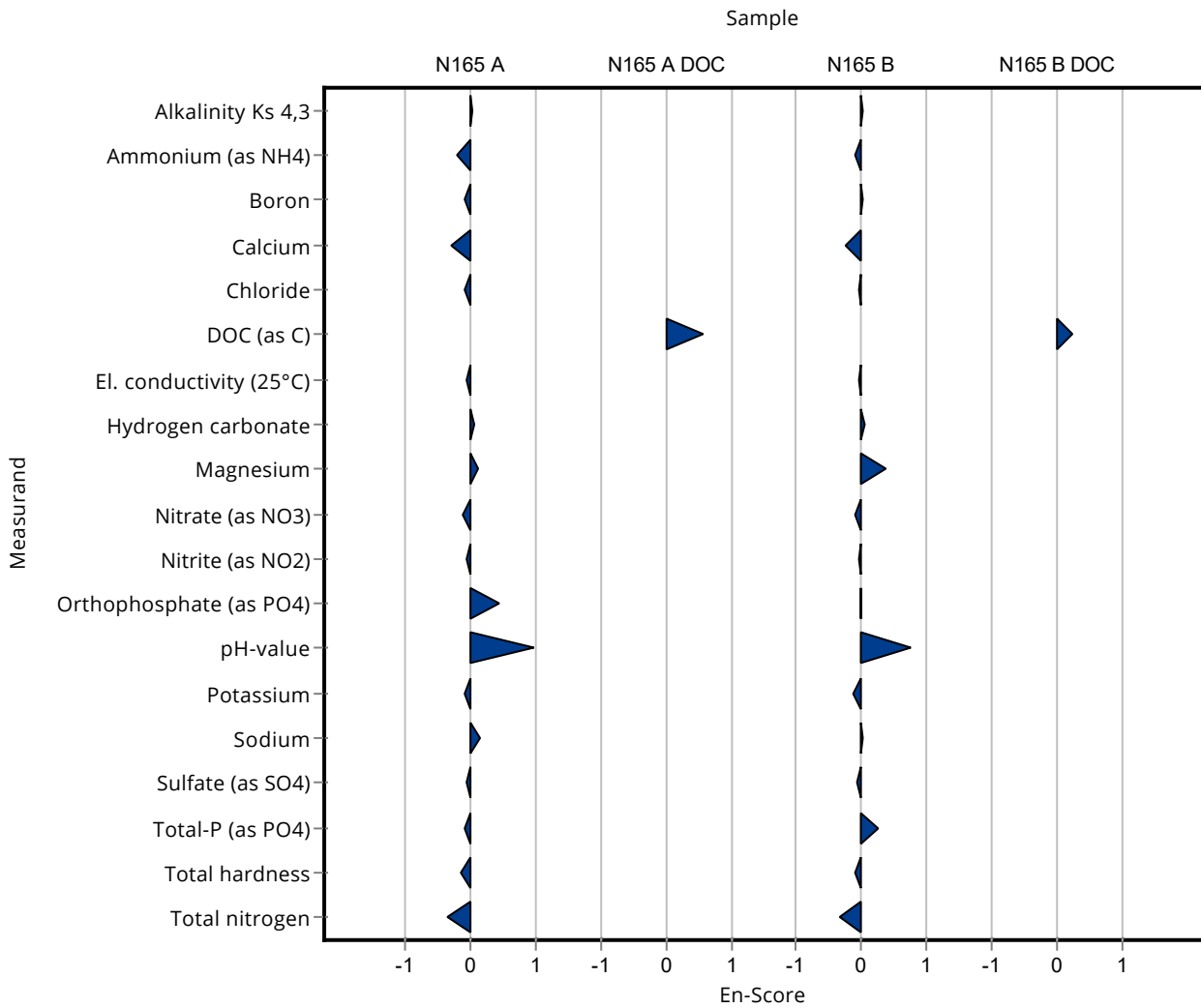
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0042

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.36 ± 0.27 | 0.0671 | 100 | 0.01 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.157 ± 0.05 | 0.0199 | 94.7 | -0.09 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0145 ± 0.0025 | 0.00215 | 101 | 0.03 |
| Calcium | mg/l | 60.4 ± 0.834 | 58.9 ± 3.3 | 1.87 | 97.5 | -0.23 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.1 ± 5.54 | 1.03 | 97.9 | -0.05 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 479 ± 20.1 | 6.24 | 99.8 | -0.03 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 205 ± 16.4 | 5.68 | 101 | 0.06 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.7 ± 0.6 | 0.57 | 103 | 0.38 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.1 ± 3.56 | 0.791 | 95.4 | -0.10 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.235 ± 0.094 | 0.0128 | 96.9 | -0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.15 ± 0.045 | 0.0166 | 99.6 | -0.01 |
| pH-value | - | 7.84 ± 0.0268 | 7.94 ± 0.064 | 0.157 | 101 | 0.76 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.34 ± 0.15 | 0.124 | 98.5 | -0.12 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.5 ± 1.03 | 0.525 | 100 | 0.03 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30 ± 6.95 | 1.02 | 97.5 | -0.05 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.91 ± 0.29 | 0.133 | 108 | 0.25 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.07 ± 0.21 | 0.0632 | 98.2 | -0.09 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.55 ± 0.53 | 0.323 | 91.2 | -0.32 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.63 ± 0.54 | 0.337 | 108 | 0.24 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 921 ± 10 | 11.9 | 101 | 0.46 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.11 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

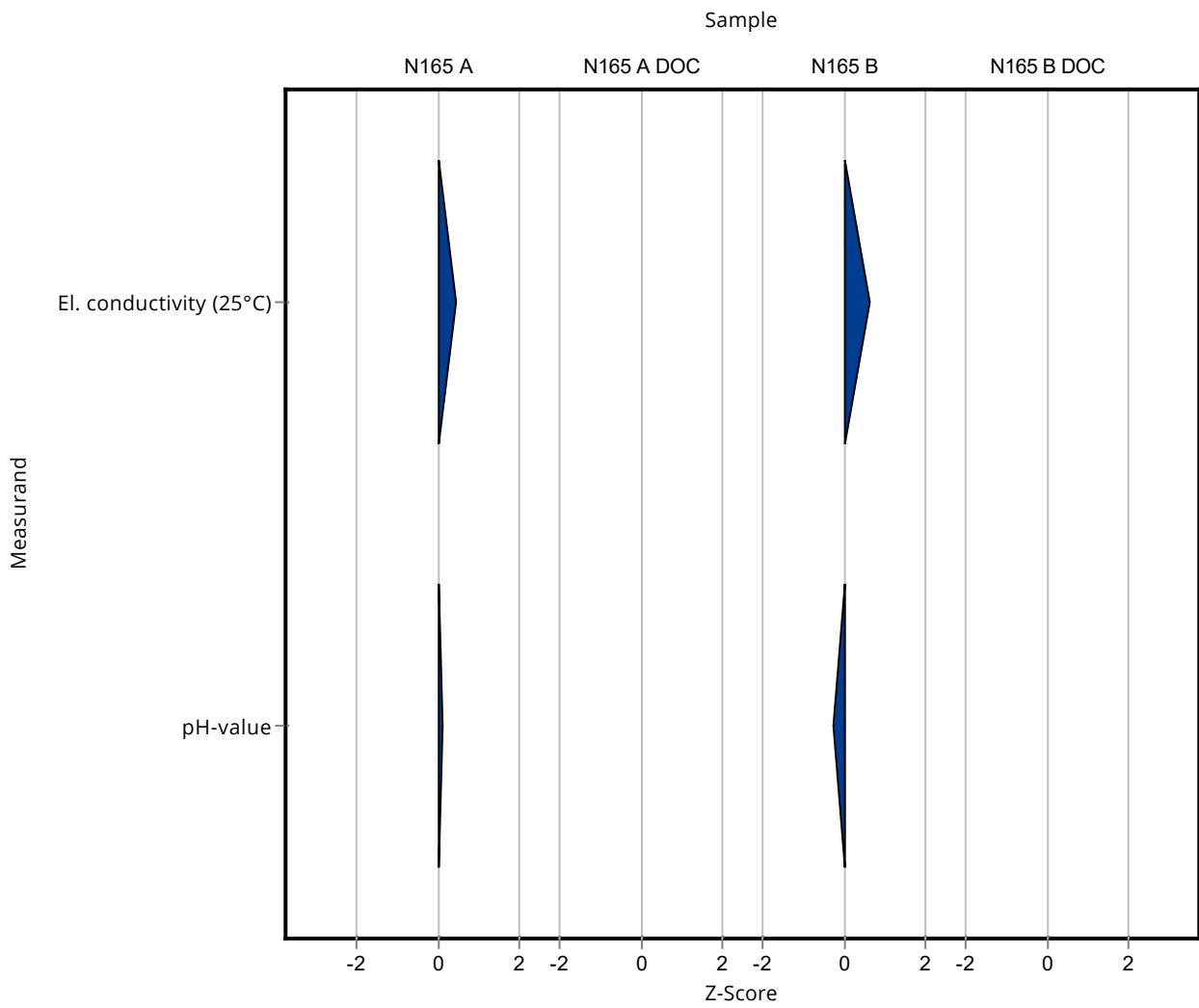
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 10 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 921 ± 10 | 11.9 | 101 | 0.27 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | - ± - | 0.011 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.7 ± 0.1 | 0.154 | 100 | 0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

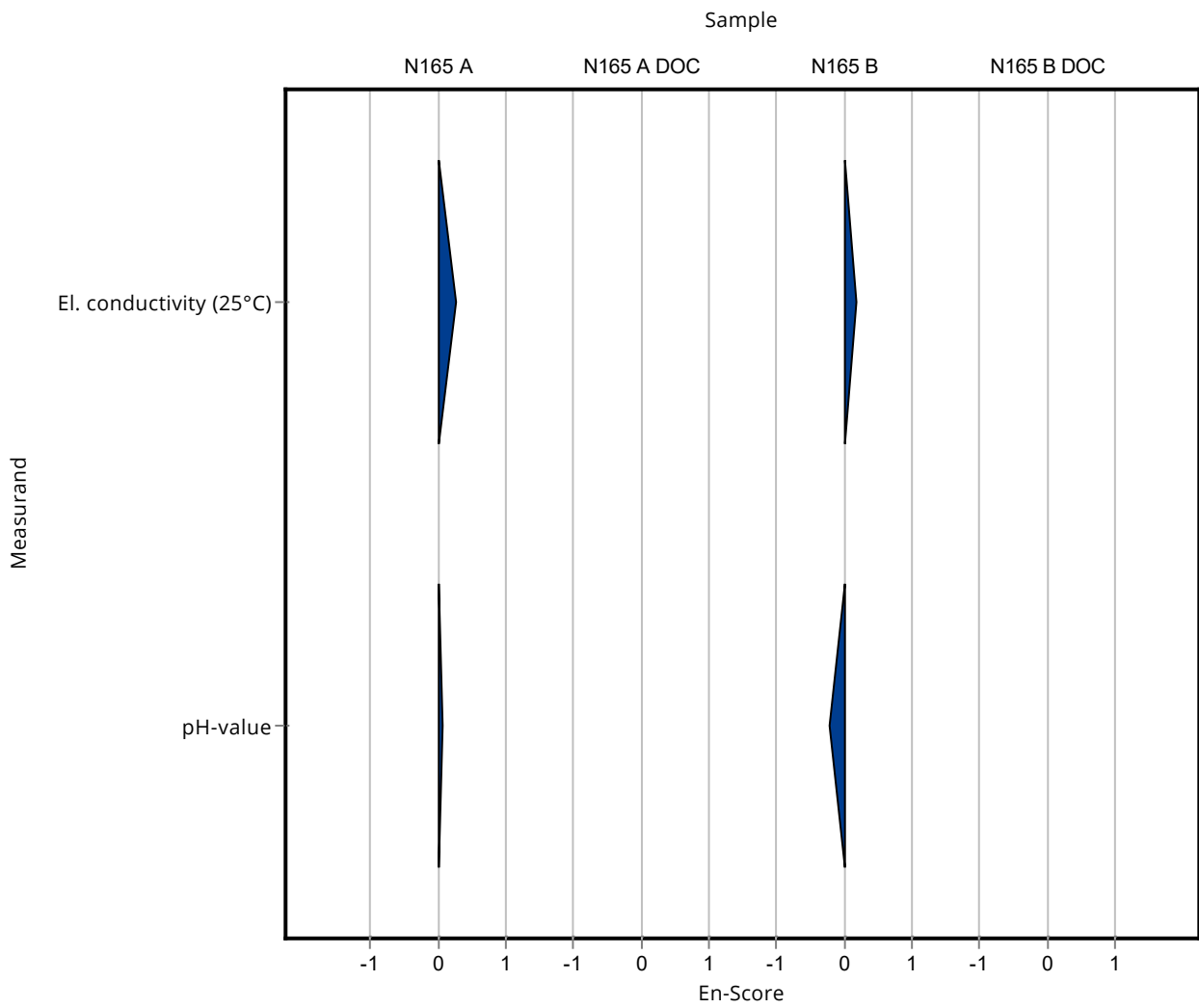
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0043

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 10 | 6.24 | 101 | 0.20 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | - ± - | 0.0128 | - | - |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.20 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.884 ± 0.58 | 0.147 | 93.9 | -3.06 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.079 ± 0.009 | 0.00999 | 142 | 2.35 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 131.45 ± 8.7 | 4.34 | 106 | 1.73 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.98 ± 3.2 | 2.3 | 101 | 0.17 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 30.5 | 11.9 | 101 | 0.79 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.65 ± 2.6 | 1.19 | 103 | 0.67 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 12.668 ± 2.6 | 0.716 | 88.5 | -2.31 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.02 | 0.011 | 101 | 0.11 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.165 ± 0.07 | 0.0392 | 126 | 0.87 |
| pH-value | - | 7.68 ± 0.034 | 7.66 ± 0.2 | 0.154 | 99.7 | -0.15 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.124 ± 0.43 | 0.249 | 107 | 1.34 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.9 ± 4.3 | 0.914 | 100 | 0.02 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.33 ± 1.9 | 1.37 | 99.3 | -0.22 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.592 ± 0.07 | 0.0324 | 137 | 4.93 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.542 ± 0.29 | 0.131 | 104 | 1.41 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

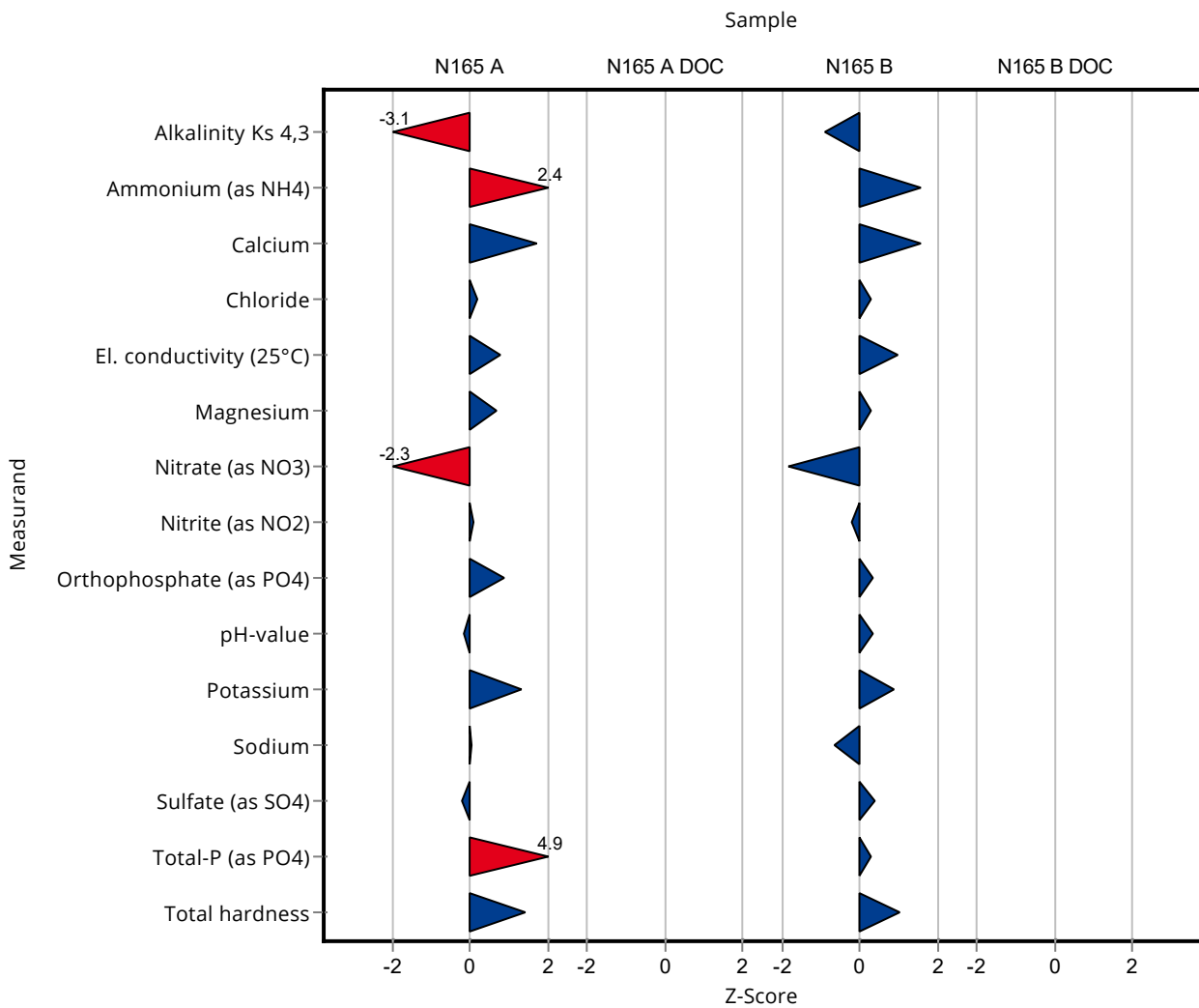
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.293 ± 0.26 | 0.0671 | 98.2 | -0.90 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.197 ± 0.03 | 0.0199 | 119 | 1.57 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 63.37 ± 3.7 | 1.87 | 105 | 1.57 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.93 ± 1.3 | 1.03 | 101 | 0.29 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 14.3 | 6.24 | 101 | 0.95 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.41 ± 1.1 | 0.57 | 101 | 0.30 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.37 ± 1.47 | 0.791 | 90.8 | -1.83 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.021 | 0.0128 | 99 | -0.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.156 ± 0.07 | 0.0166 | 104 | 0.33 |
| pH-value | - | 7.84 ± 0.0268 | 7.89 ± 0.2 | 0.157 | 101 | 0.32 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.484 ± 0.18 | 0.124 | 105 | 0.88 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.115 ± 1.93 | 0.525 | 97.9 | -0.63 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.16 ± 3 | 1.02 | 101 | 0.40 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.8 ± 0.07 | 0.133 | 102 | 0.26 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.174 ± 0.12 | 0.0632 | 103 | 1.04 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 6.884 ± 0.58 | 0.147 | 93.9 | -0.39 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.079 ± 0.009 | 0.00999 | 142 | 1.28 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 131.45 ± 8.7 | 4.34 | 106 | 0.43 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.98 ± 3.2 | 2.3 | 101 | 0.06 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 925 ± 30.5 | 11.9 | 101 | 0.15 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | 30.65 ± 2.6 | 1.19 | 103 | 0.15 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 12.668 ± 2.6 | 0.716 | 88.5 | -0.32 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.02 | 0.011 | 101 | 0.03 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.165 ± 0.07 | 0.0392 | 126 | 0.24 |
| pH-value | - | 7.68 ± 0.034 | 7.66 ± 0.2 | 0.154 | 99.7 | -0.06 |
| Potassium | mg/l | 4.79 ± 0.051 | 5.124 ± 0.43 | 0.249 | 107 | 0.39 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.9 ± 4.3 | 0.914 | 100 | 0.00 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.33 ± 1.9 | 1.37 | 99.3 | -0.08 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.592 ± 0.07 | 0.0324 | 137 | 1.14 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.542 ± 0.29 | 0.131 | 104 | 0.32 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

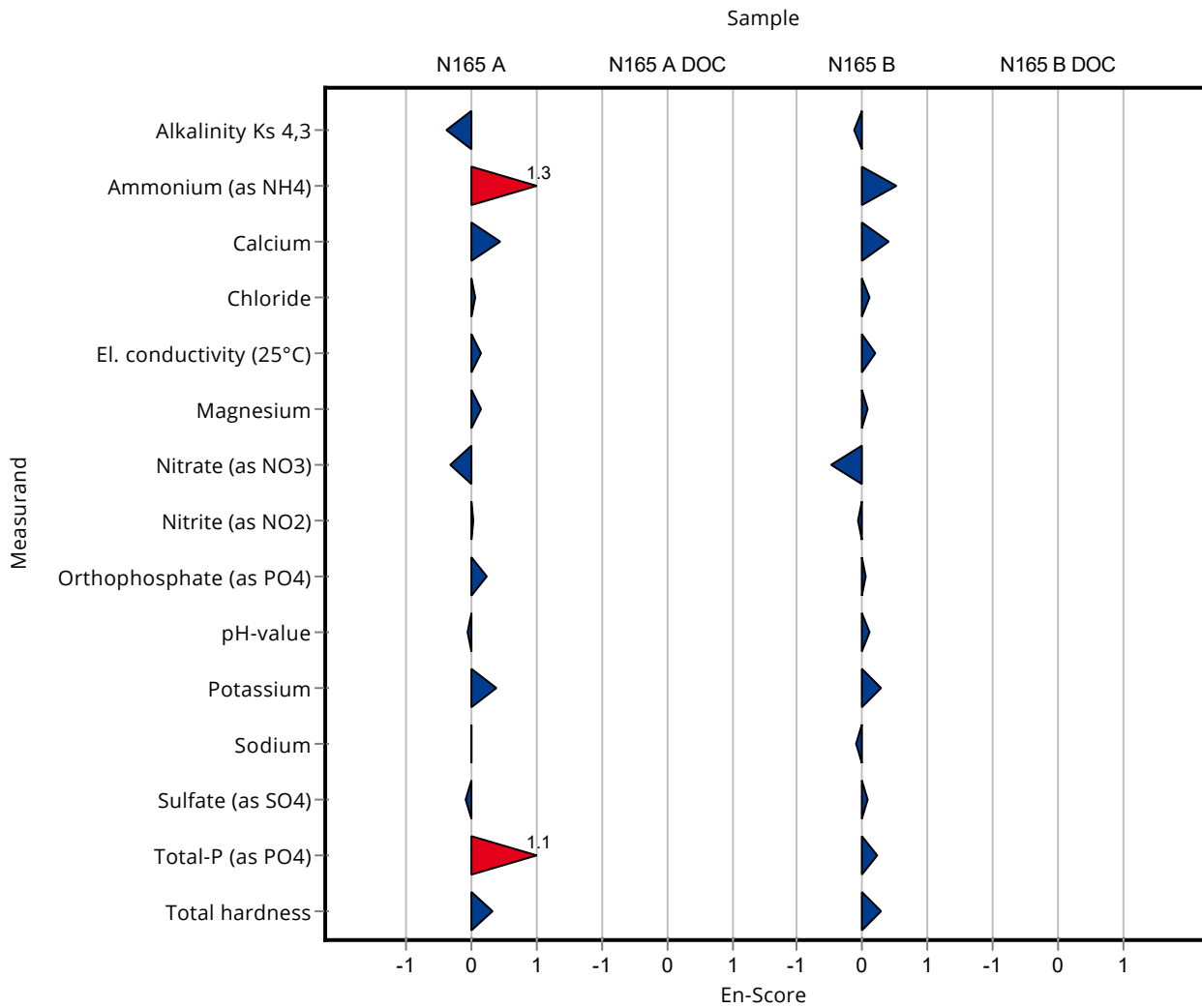
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0044

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.293 ± 0.26 | 0.0671 | 98.2 | -0.12 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.197 ± 0.03 | 0.0199 | 119 | 0.52 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 63.37 ± 3.7 | 1.87 | 105 | 0.39 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.93 ± 1.3 | 1.03 | 101 | 0.11 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 14.3 | 6.24 | 101 | 0.21 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.41 ± 1.1 | 0.57 | 101 | 0.08 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.37 ± 1.47 | 0.791 | 90.8 | -0.49 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.021 | 0.0128 | 99 | -0.06 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.156 ± 0.07 | 0.0166 | 104 | 0.04 |
| pH-value | - | 7.84 ± 0.0268 | 7.89 ± 0.2 | 0.157 | 101 | 0.12 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.484 ± 0.18 | 0.124 | 105 | 0.30 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.115 ± 1.93 | 0.525 | 97.9 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.16 ± 3 | 1.02 | 101 | 0.07 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.8 ± 0.07 | 0.133 | 102 | 0.23 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.174 ± 0.12 | 0.0632 | 103 | 0.27 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.49 ± 0.74 | 0.147 | 102 | 1.08 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.055 ± 0.006 | 0.00999 | 99.1 | -0.05 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.065 ± 0.0098 | 0.00646 | 111 | 0.97 |
| Calcium | mg/l | 124 ± 1.6 | 125.36 ± 12.4 | 4.34 | 101 | 0.32 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.122 ± 5.6 | 2.3 | 97.4 | -0.64 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 924 ± 4.51 | 11.9 | 101 | 0.71 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 453.91 ± 1 | 8.9 | 102 | 1.00 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.205 ± 2.9 | 1.19 | 97.8 | -0.54 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.021 ± 1.4 | 0.716 | 97.9 | -0.42 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.02 | 0.011 | 101 | 0.11 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.16 ± 0.015 | 0.0392 | 122 | 0.75 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.1 | 0.154 | 99.8 | -0.09 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.488 ± 0.4 | 0.249 | 93.7 | -1.22 |
| Sodium | mg/l | 26.9 ± 0.356 | 24.864 ± 2.4 | 0.914 | 92.5 | -2.21 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.506 ± 4.1 | 1.37 | 99.7 | -0.10 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.04 | 0.0324 | 99 | -0.13 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.329 ± 1 | 0.131 | 99.3 | -0.22 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.02 ± 0.3 | 0.29 | 86.4 | -1.63 |

Sample: N165ADOC

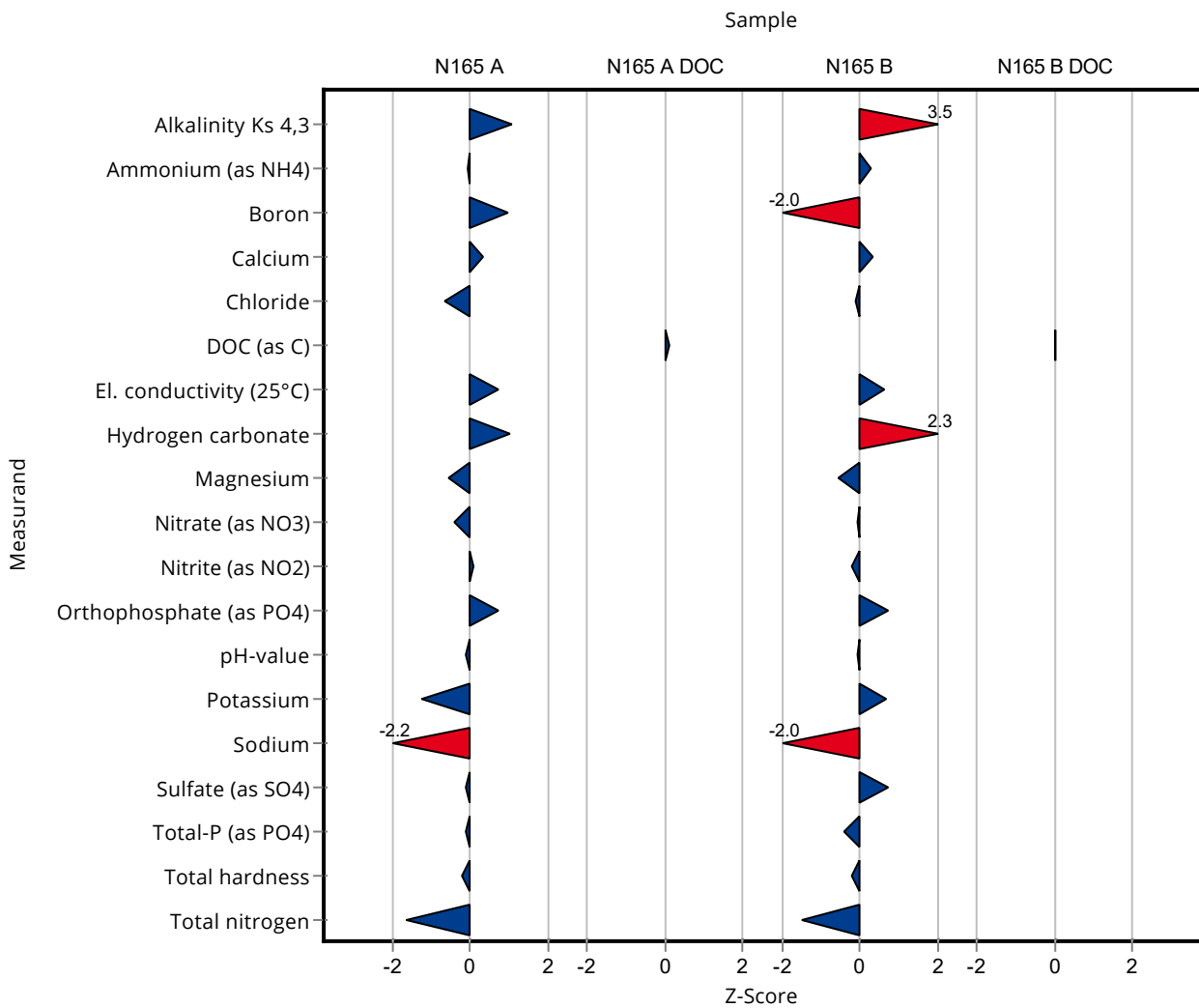
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.4 ± 0.15 | 0.193 | 102 | 0.11 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.59 ± 0.74 | 0.0671 | 107 | 3.53 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.171 ± 0.017 | 0.0199 | 103 | 0.26 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.01 ± 0.0015 | 0.00215 | 69.7 | -2.02 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.022 ± 6.1 | 1.87 | 101 | 0.31 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.513 ± 2.6 | 1.03 | 99.5 | -0.12 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 4.51 | 6.24 | 101 | 0.63 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 215.97 ± 1 | 5.68 | 106 | 2.30 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.921 ± 1.4 | 0.57 | 97.8 | -0.56 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.762 ± 1.5 | 0.791 | 99.6 | -0.07 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.024 | 0.0128 | 99 | -0.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.163 ± 0.0016 | 0.0166 | 108 | 0.75 |
| pH-value | - | 7.84 ± 0.0268 | 7.83 ± 0.1 | 0.157 | 99.9 | -0.07 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.458 ± 0.25 | 0.124 | 103 | 0.67 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.389 ± 1.4 | 0.525 | 93.2 | -2.01 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.474 ± 3.15 | 1.02 | 102 | 0.71 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.714 ± 0.117 | 0.133 | 97.1 | -0.39 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.095 ± 1 | 0.0632 | 99.4 | -0.21 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.41 ± 0.34 | 0.323 | 87.6 | -1.49 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|-------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.37 ± 0.33 | 0.337 | 99.9 | -0.01 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.49 ± 0.74 | 0.147 | 102 | 0.11 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.055 ± 0.006 | 0.00999 | 99.1 | -0.04 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.065 ± 0.0098 | 0.00646 | 111 | 0.32 |
| Calcium | mg/l | 124 ± 1.6 | 125.36 ± 12.4 | 4.34 | 101 | 0.06 |
| Chloride | mg/l | 57.6 ± 0.558 | 56.122 ± 5.6 | 2.3 | 97.4 | -0.13 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 924 ± 4.51 | 11.9 | 101 | 0.87 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 453.91 ± 1 | 8.9 | 102 | 2.57 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.205 ± 2.9 | 1.19 | 97.8 | -0.11 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.021 ± 1.4 | 0.716 | 97.9 | -0.11 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.209 ± 0.02 | 0.011 | 101 | 0.03 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.16 ± 0.015 | 0.0392 | 122 | 0.86 |
| pH-value | - | 7.68 ± 0.034 | 7.67 ± 0.1 | 0.154 | 99.8 | -0.06 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.488 ± 0.4 | 0.249 | 93.7 | -0.38 |
| Sodium | mg/l | 26.9 ± 0.356 | 24.864 ± 2.4 | 0.914 | 92.5 | -0.42 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.506 ± 4.1 | 1.37 | 99.7 | -0.02 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.428 ± 0.04 | 0.0324 | 99 | -0.05 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.329 ± 1 | 0.131 | 99.3 | -0.01 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.02 ± 0.3 | 0.29 | 86.4 | -0.77 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.4 ± 0.15 | 0.193 | 102 | 0.07 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

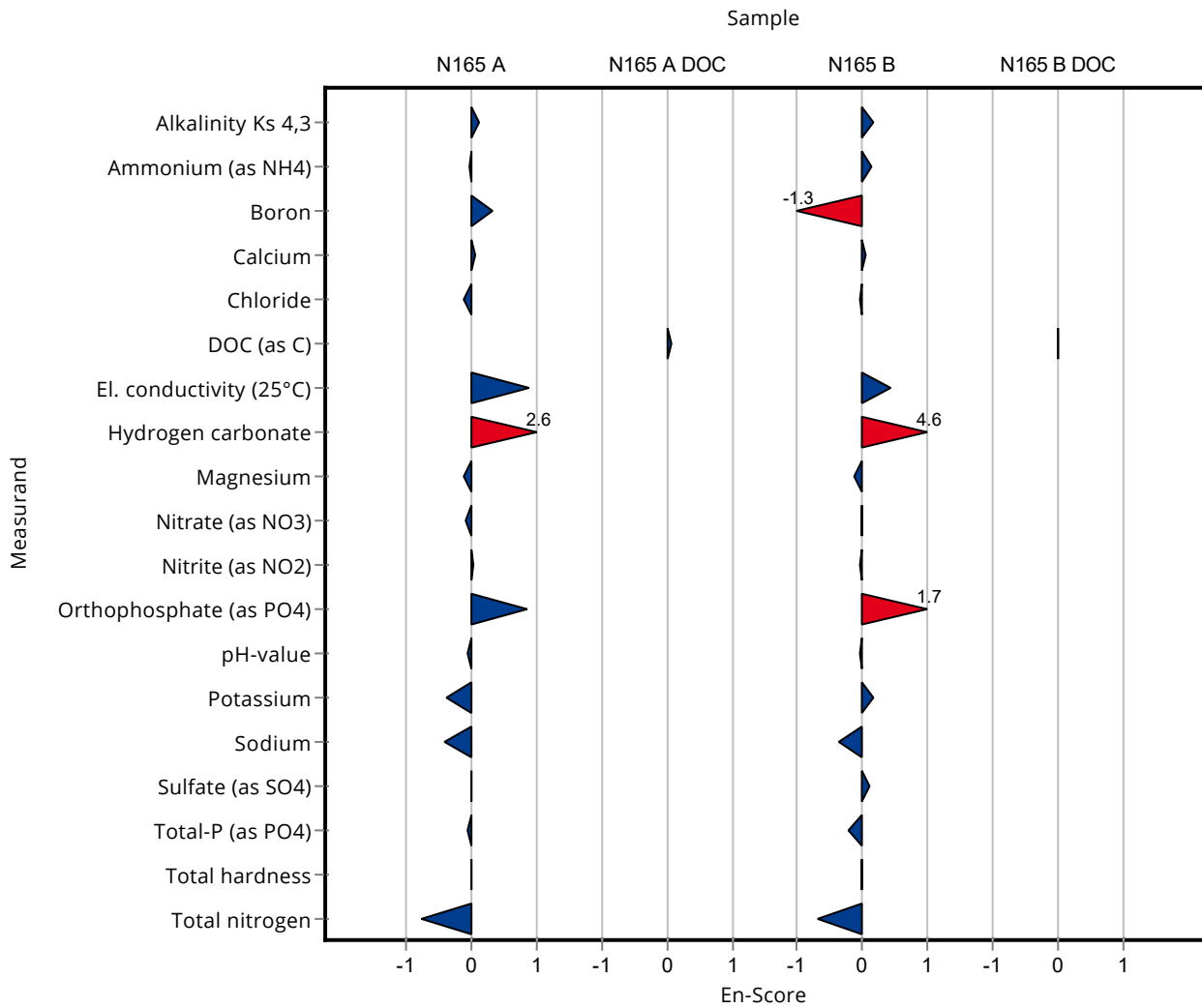
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0045

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.59 ± 0.74 | 0.0671 | 107 | 0.16 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.171 ± 0.017 | 0.0199 | 103 | 0.15 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.01 ± 0.0015 | 0.00215 | 69.7 | -1.34 |
| Calcium | mg/l | 60.4 ± 0.834 | 61.022 ± 6.1 | 1.87 | 101 | 0.05 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.513 ± 2.6 | 1.03 | 99.5 | -0.02 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 484 ± 4.51 | 6.24 | 101 | 0.43 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 215.97 ± 1 | 5.68 | 106 | 4.59 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.921 ± 1.4 | 0.57 | 97.8 | -0.11 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.762 ± 1.5 | 0.791 | 99.6 | -0.02 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.024 | 0.0128 | 99 | -0.05 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.163 ± 0.0016 | 0.0166 | 108 | 1.69 |
| pH-value | - | 7.84 ± 0.0268 | 7.83 ± 0.1 | 0.157 | 99.9 | -0.05 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.458 ± 0.25 | 0.124 | 103 | 0.16 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.389 ± 1.4 | 0.525 | 93.2 | -0.38 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.474 ± 3.15 | 1.02 | 102 | 0.11 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.714 ± 0.117 | 0.133 | 97.1 | -0.22 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.095 ± 1 | 0.0632 | 99.4 | -0.01 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.41 ± 0.34 | 0.323 | 87.6 | -0.70 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|-------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.37 ± 0.33 | 0.337 | 99.9 | -0.01 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.27 ± 0.17 | 0.147 | 99.2 | -0.42 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 966 ± 37 | 11.9 | 106 | 4.24 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 440 ± 10 | 8.9 | 98.9 | -0.56 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2 ± 0.01 | 0.011 | 96.3 | -0.71 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.52 ± 0.26 | 0.154 | 97.9 | -1.06 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

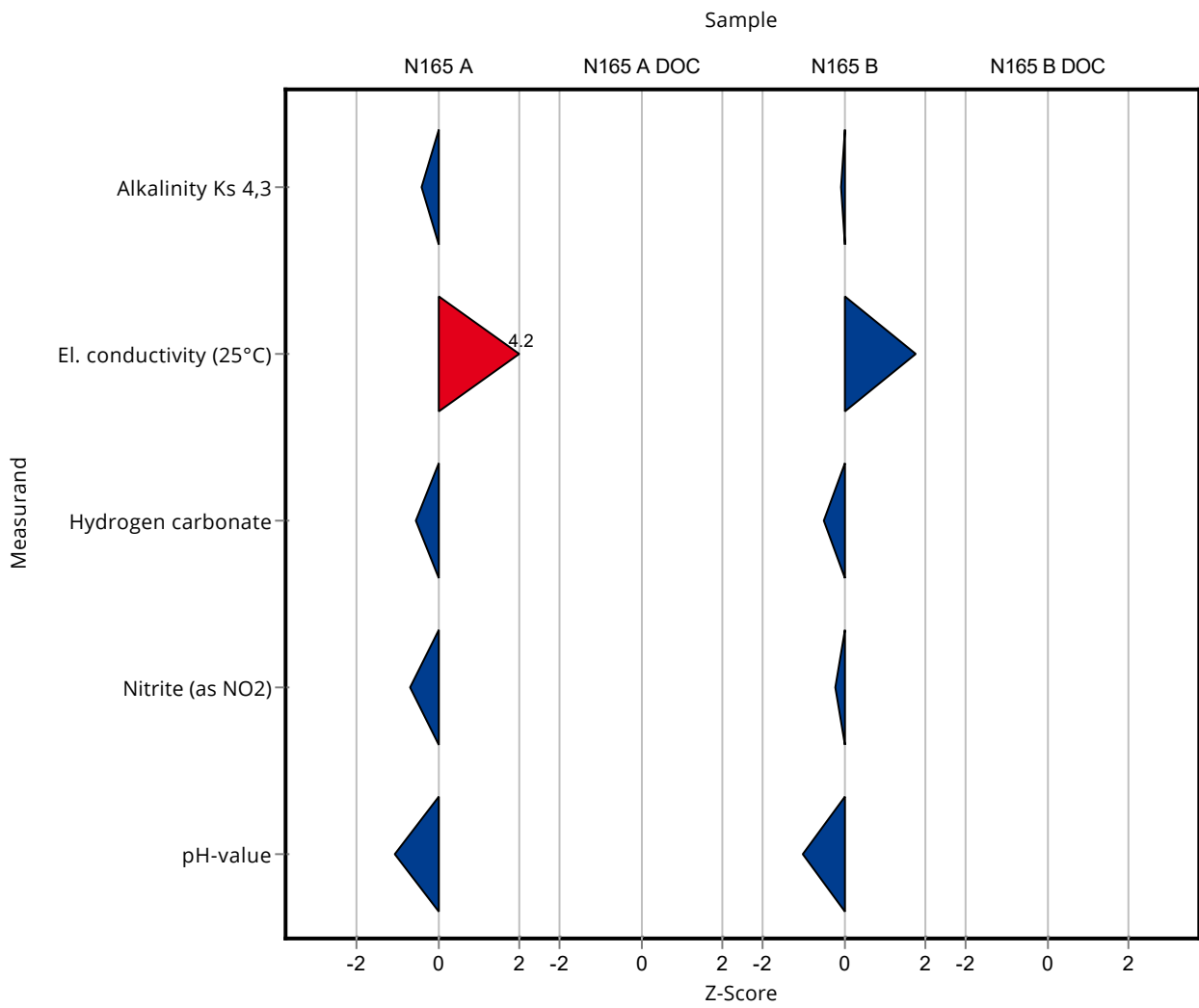
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.35 ± 0.08 | 0.0671 | 99.9 | -0.05 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 491 ± 19 | 6.24 | 102 | 1.75 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 200 ± 5 | 5.68 | 98.6 | -0.51 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.01 | 0.0128 | 99 | -0.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.68 ± 0.27 | 0.157 | 98 | -1.02 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.27 ± 0.17 | 0.147 | 99.2 | -0.18 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | - ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | - ± - | 2.3 | - | - |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 966 ± 37 | 11.9 | 106 | 0.68 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 440 ± 10 | 8.9 | 98.9 | -0.25 |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | - ± - | 0.716 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2 ± 0.01 | 0.011 | 96.3 | -0.38 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.52 ± 0.26 | 0.154 | 97.9 | -0.31 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | - ± - | 1.37 | - | - |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

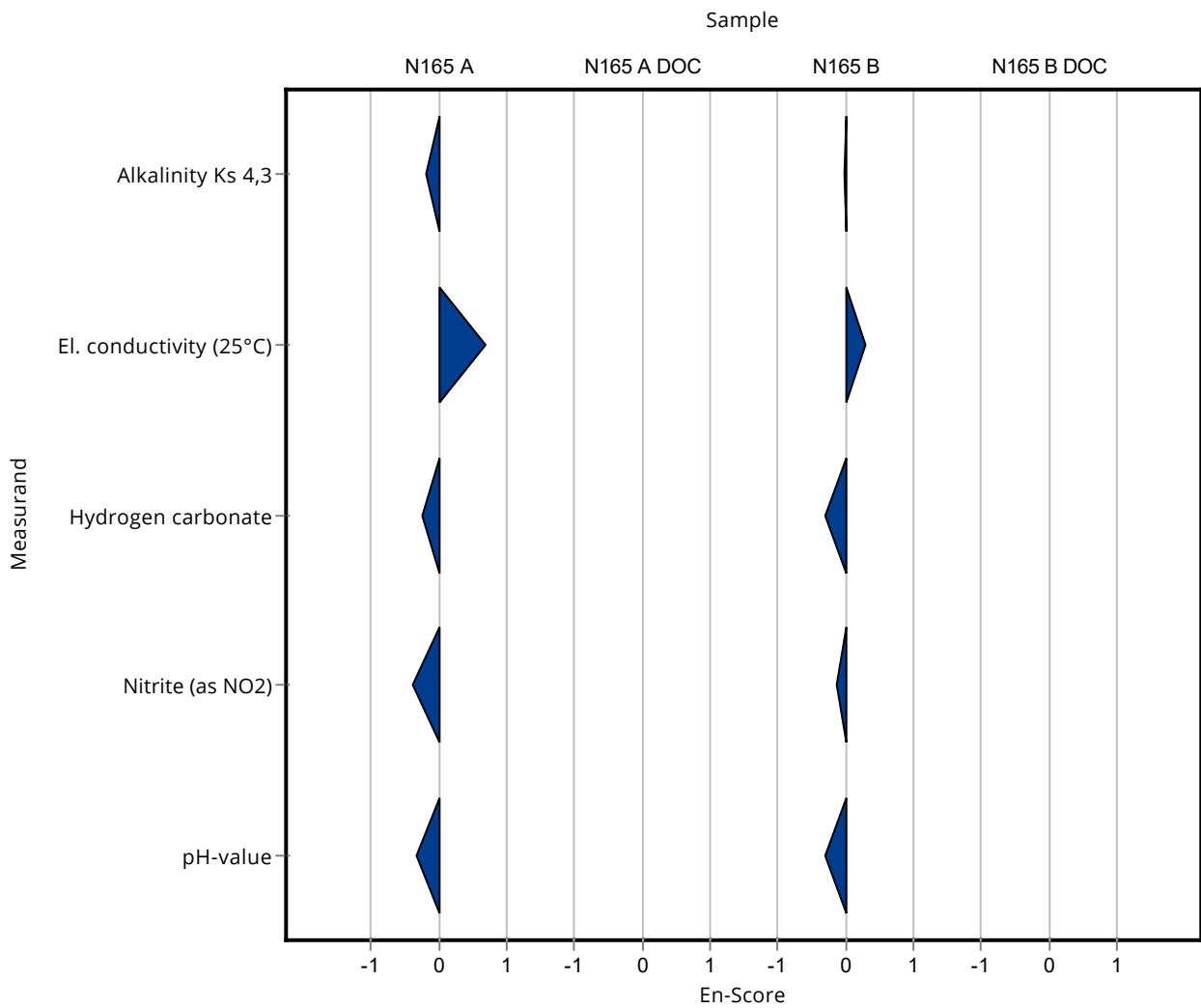
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0046

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.35 ± 0.08 | 0.0671 | 99.9 | -0.02 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | - ± - | 0.0199 | - | - |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | - ± - | 1.03 | - | - |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 491 ± 19 | 6.24 | 102 | 0.29 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 200 ± 5 | 5.68 | 98.6 | -0.28 |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | - ± - | 0.791 | - | - |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.24 ± 0.01 | 0.0128 | 99 | -0.12 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.68 ± 0.27 | 0.157 | 98 | -0.30 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | - ± - | 1.02 | - | - |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.15 ± 0.2 | 0.147 | 97.5 | -1.24 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.06 ± 0.01 | 0.00999 | 108 | 0.45 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.08 ± 0.02 | 0.00646 | 136 | 3.29 |
| Calcium | mg/l | 124 ± 1.6 | 118 ± 4 | 4.34 | 95.2 | -1.37 |
| Chloride | mg/l | 57.6 ± 0.558 | 59 ± 2 | 2.3 | 102 | 0.61 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 3 | 11.9 | 101 | 0.54 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 436 ± 6 | 8.9 | 98 | -1.01 |
| Magnesium | mg/l | 29.9 ± 0.424 | 28 ± 2 | 1.19 | 93.8 | -1.55 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 2 | 0.716 | 105 | 0.95 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2 ± 0.01 | 0.011 | 96.3 | -0.71 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.1 | 0.154 | 98.9 | -0.54 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.5 | 0.249 | 96 | -0.77 |
| Sodium | mg/l | 26.9 ± 0.356 | 24 ± 1 | 0.914 | 89.3 | -3.15 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42 ± 2 | 1.37 | 101 | 0.26 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.45 ± 0.03 | 0.0324 | 104 | 0.55 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.11 ± 0.2 | 0.131 | 94.3 | -1.89 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

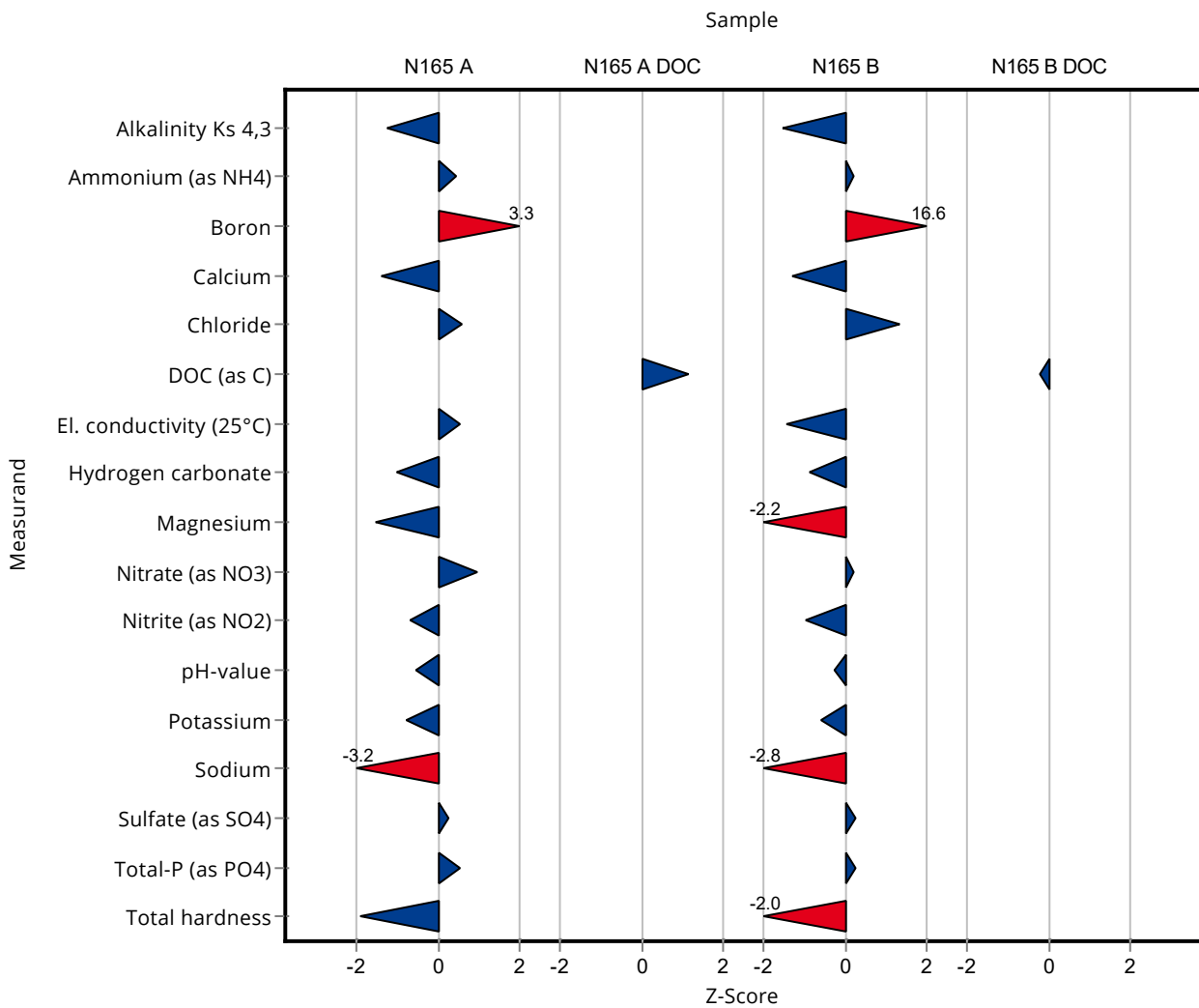
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.6 ± 0.2 | 0.193 | 116 | 1.14 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.25 ± 0.1 | 0.0671 | 96.9 | -1.54 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.17 ± 0.015 | 0.0199 | 103 | 0.21 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.05 ± 0.02 | 0.00215 | 348 | 16.56 |
| Calcium | mg/l | 60.4 ± 0.834 | 58 ± 2 | 1.87 | 96 | -1.30 |
| Chloride | mg/l | 25.6 ± 0.265 | 27 ± 2 | 1.03 | 105 | 1.33 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 3 | 6.24 | 98.1 | -1.45 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 198 ± 5 | 5.68 | 97.6 | -0.86 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13 ± 1 | 0.57 | 91.3 | -2.18 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16 ± 2 | 0.791 | 101 | 0.23 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.23 ± 0.01 | 0.0128 | 94.9 | -0.97 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.26 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.3 ± 0.5 | 0.124 | 96.8 | -0.61 |
| Sodium | mg/l | 15.4 ± 0.239 | 14 ± 1 | 0.525 | 90.6 | -2.75 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 2 | 1.02 | 101 | 0.24 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.8 ± 0.05 | 0.133 | 102 | 0.26 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 1.98 ± 0.18 | 0.0632 | 93.9 | -2.03 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.3 | 0.337 | 97.8 | -0.22 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.15 ± 0.2 | 0.147 | 97.5 | -0.45 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.06 ± 0.01 | 0.00999 | 108 | 0.22 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.08 ± 0.02 | 0.00646 | 136 | 0.53 |
| Calcium | mg/l | 124 ± 1.6 | 118 ± 4 | 4.34 | 95.2 | -0.73 |
| Chloride | mg/l | 57.6 ± 0.558 | 59 ± 2 | 2.3 | 102 | 0.35 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 3 | 11.9 | 101 | 0.93 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 436 ± 6 | 8.9 | 98 | -0.73 |
| Magnesium | mg/l | 29.9 ± 0.424 | 28 ± 2 | 1.19 | 93.8 | -0.46 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 15 ± 2 | 0.716 | 105 | 0.17 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2 ± 0.01 | 0.011 | 96.3 | -0.38 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | - ± - | 0.0392 | - | - |
| pH-value | - | 7.68 ± 0.034 | 7.6 ± 0.1 | 0.154 | 98.9 | -0.41 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.6 ± 0.5 | 0.249 | 96 | -0.19 |
| Sodium | mg/l | 26.9 ± 0.356 | 24 ± 1 | 0.914 | 89.3 | -1.42 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42 ± 2 | 1.37 | 101 | 0.09 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.45 ± 0.03 | 0.0324 | 104 | 0.29 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.11 ± 0.2 | 0.131 | 94.3 | -0.62 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.6 ± 0.2 | 0.193 | 116 | 0.54 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

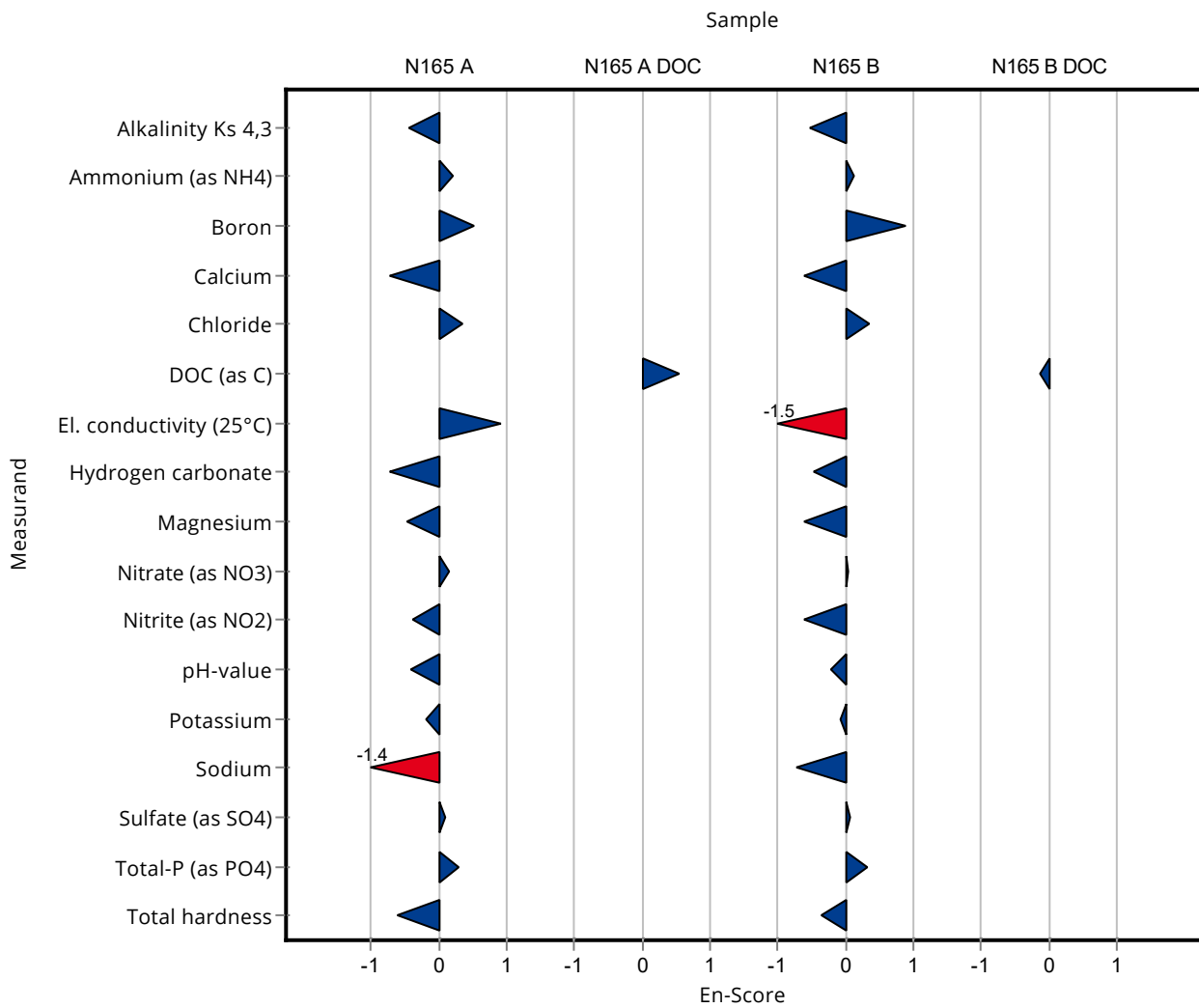
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0047

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.25 ± 0.1 | 0.0671 | 96.9 | -0.51 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.17 ± 0.015 | 0.0199 | 103 | 0.14 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.05 ± 0.02 | 0.00215 | 348 | 0.89 |
| Calcium | mg/l | 60.4 ± 0.834 | 58 ± 2 | 1.87 | 96 | -0.60 |
| Chloride | mg/l | 25.6 ± 0.265 | 27 ± 2 | 1.03 | 105 | 0.34 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 471 ± 3 | 6.24 | 98.1 | -1.47 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 198 ± 5 | 5.68 | 97.6 | -0.48 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13 ± 1 | 0.57 | 91.3 | -0.62 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16 ± 2 | 0.791 | 101 | 0.04 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.23 ± 0.01 | 0.0128 | 94.9 | -0.61 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | - ± - | 0.0166 | - | - |
| pH-value | - | 7.84 ± 0.0268 | 7.8 ± 0.1 | 0.157 | 99.5 | -0.20 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.3 ± 0.5 | 0.124 | 96.8 | -0.08 |
| Sodium | mg/l | 15.4 ± 0.239 | 14 ± 1 | 0.525 | 90.6 | -0.72 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31 ± 2 | 1.02 | 101 | 0.06 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.8 ± 0.05 | 0.133 | 102 | 0.31 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 1.98 ± 0.18 | 0.0632 | 93.9 | -0.36 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.3 ± 0.3 | 0.337 | 97.8 | -0.12 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.147 ± 0.0063 | 0.00999 | 265 | 9.16 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0506 ± 0.0021 | 0.00646 | 86.1 | -1.26 |
| Calcium | mg/l | 124 ± 1.6 | 112.9 ± 4.63 | 4.34 | 91.1 | -2.55 |
| Chloride | mg/l | 57.6 ± 0.558 | 54.39 ± 0.35 | 2.3 | 94.4 | -1.39 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 909 ± 2 | 11.9 | 99.3 | -0.55 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 433.24 ± 0.0001 | 8.9 | 97.4 | -1.32 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.45 ± 1.46 | 1.19 | 92 | -2.01 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.23 ± 0.18 | 0.716 | 99.4 | -0.13 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.233 ± 0.000044 | 0.011 | 112 | 2.29 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.162 ± 0.00014 | 0.0392 | 124 | 0.80 |
| pH-value | - | 7.68 ± 0.034 | 7.87 ± 0.0033 | 0.154 | 102 | 1.22 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.873 ± 0.44 | 0.249 | 102 | 0.33 |
| Sodium | mg/l | 26.9 ± 0.356 | 21.78 ± 0.22 | 0.914 | 81 | -5.58 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.09 ± 0.29 | 1.37 | 98.7 | -0.40 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.526 ± 0.012 | 0.0324 | 122 | 2.89 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 3.966 ± 0.18 | 0.131 | 91 | -3.00 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

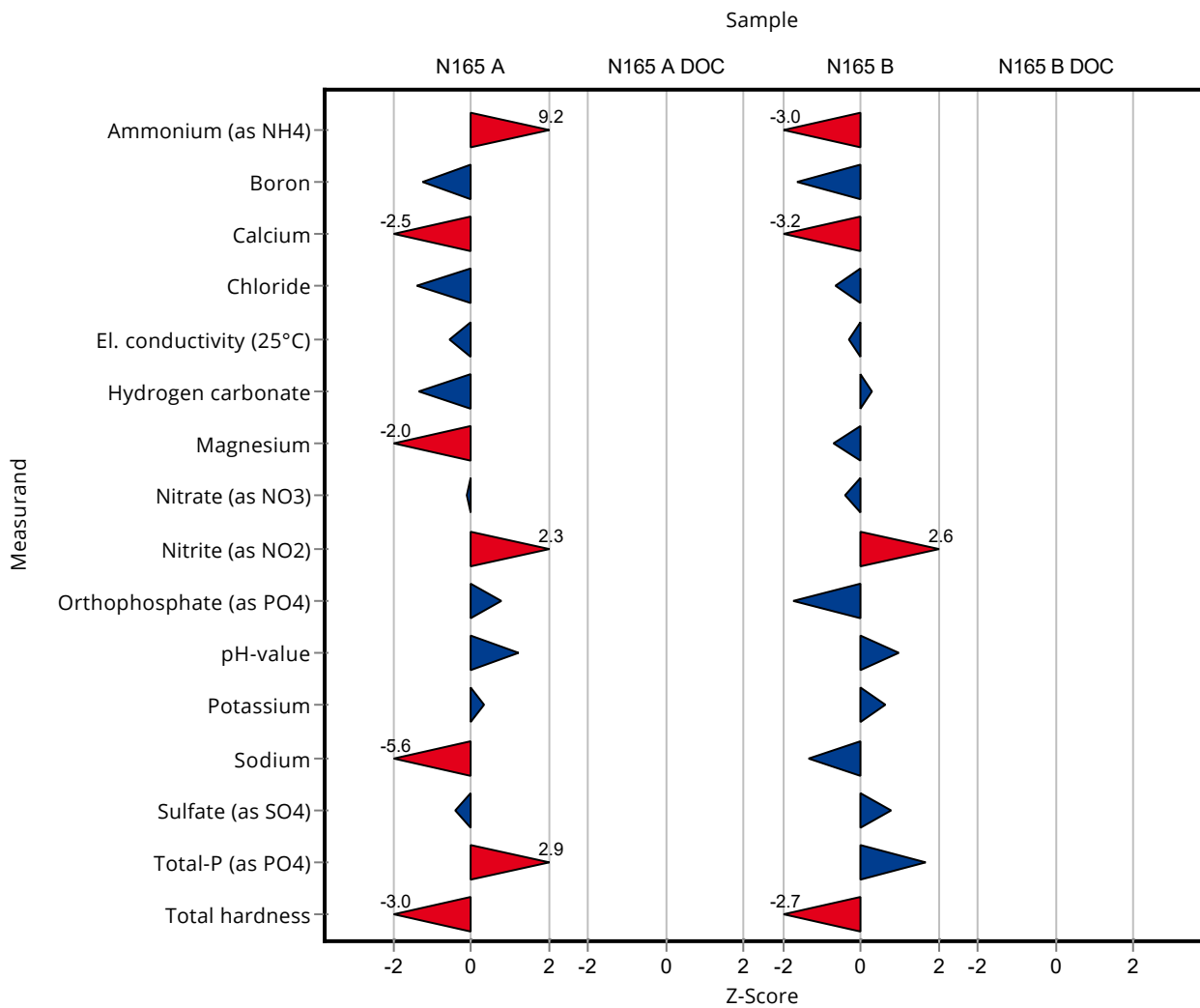
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.106 ± 0.0022 | 0.0199 | 63.9 | -3.01 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0108 ± 0.00052 | 0.00215 | 75.3 | -1.65 |
| Calcium | mg/l | 60.4 ± 0.834 | 54.51 ± 1.61 | 1.87 | 90.2 | -3.16 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 0.095 | 1.03 | 97.3 | -0.68 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 478 ± 0.5 | 6.24 | 99.6 | -0.33 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204.42 ± 1.017 | 5.68 | 101 | 0.27 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.84 ± 0.78 | 0.57 | 97.2 | -0.70 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.48 ± 0.19 | 0.791 | 97.8 | -0.43 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.276 ± 0.00018 | 0.0128 | 114 | 2.61 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.122 ± 0.00037 | 0.0166 | 81 | -1.73 |
| pH-value | - | 7.84 ± 0.0268 | 7.99 ± 0.0058 | 0.157 | 102 | 0.96 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.454 ± 0.11 | 0.124 | 103 | 0.64 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.74 ± 0.69 | 0.525 | 95.4 | -1.35 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.54 ± 0.14 | 1.02 | 103 | 0.77 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.984 ± 0.018 | 0.133 | 112 | 1.65 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 1.94 ± 0.14 | 0.0632 | 92 | -2.66 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.147 ± 0.0063 | 0.00999 | 265 | 6.98 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0506 ± 0.0021 | 0.00646 | 86.1 | -1.78 |
| Calcium | mg/l | 124 ± 1.6 | 112.9 ± 4.63 | 4.34 | 91.1 | -1.18 |
| Chloride | mg/l | 57.6 ± 0.558 | 54.39 ± 0.35 | 2.3 | 94.4 | -3.58 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 909 ± 2 | 11.9 | 99.3 | -1.25 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 433.24 ± 0.0001 | 8.9 | 97.4 | -4.12 |
| Magnesium | mg/l | 29.9 ± 0.424 | 27.45 ± 1.46 | 1.19 | 92 | -0.81 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.23 ± 0.18 | 0.716 | 99.4 | -0.23 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.233 ± 0.000044 | 0.011 | 112 | 8.31 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.162 ± 0.00014 | 0.0392 | 124 | 1.92 |
| pH-value | - | 7.68 ± 0.034 | 7.87 ± 0.0033 | 0.154 | 102 | 5.39 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.873 ± 0.44 | 0.249 | 102 | 0.09 |
| Sodium | mg/l | 26.9 ± 0.356 | 21.78 ± 0.22 | 0.914 | 81 | -9.01 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.09 ± 0.29 | 1.37 | 98.7 | -0.87 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.526 ± 0.012 | 0.0324 | 122 | 3.50 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 3.966 ± 0.18 | 0.131 | 91 | -1.08 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

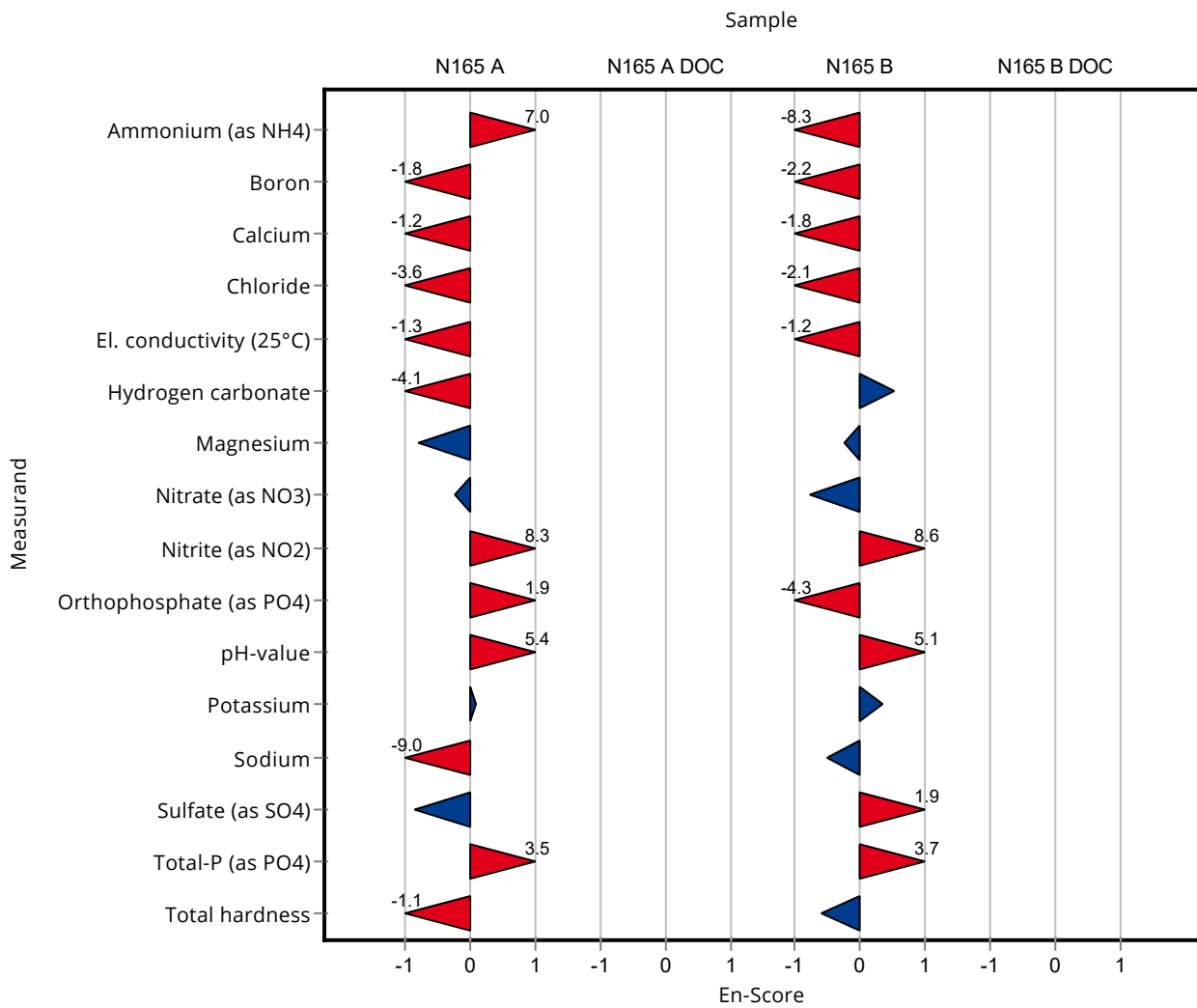
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0048

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.106 ± 0.0022 | 0.0199 | 63.9 | -8.28 |
| Boron | mg/l | 0.0144 ± 0.00123 | 0.0108 ± 0.00052 | 0.00215 | 75.3 | -2.21 |
| Calcium | mg/l | 60.4 ± 0.834 | 54.51 ± 1.61 | 1.87 | 90.2 | -1.78 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.94 ± 0.095 | 1.03 | 97.3 | -2.12 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 478 ± 0.5 | 6.24 | 99.6 | -1.16 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 204.42 ± 1.017 | 5.68 | 101 | 0.53 |
| Magnesium | mg/l | 14.2 ± 0.198 | 13.84 ± 0.78 | 0.57 | 97.2 | -0.26 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.48 ± 0.19 | 0.791 | 97.8 | -0.79 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.276 ± 0.00018 | 0.0128 | 114 | 8.61 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.122 ± 0.00037 | 0.0166 | 81 | -4.31 |
| pH-value | - | 7.84 ± 0.0268 | 7.99 ± 0.0058 | 0.157 | 102 | 5.12 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.454 ± 0.11 | 0.124 | 103 | 0.35 |
| Sodium | mg/l | 15.4 ± 0.239 | 14.74 ± 0.69 | 0.525 | 95.4 | -0.50 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.54 ± 0.14 | 1.02 | 103 | 1.89 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.984 ± 0.018 | 0.133 | 112 | 3.70 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 1.94 ± 0.14 | 0.0632 | 92 | -0.60 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.19 ± 0.3 | 0.147 | 98.1 | -0.97 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.051 ± 0.005 | 0.00999 | 91.9 | -0.45 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128 ± 11 | 4.34 | 103 | 0.93 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.4 ± 4 | 2.3 | 101 | 0.35 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 37 | 11.9 | 101 | 0.54 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 435 ± 18 | 8.9 | 97.8 | -1.12 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.7 ± 4 | 1.19 | 99.5 | -0.13 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.7 ± 1.1 | 0.716 | 103 | 0.53 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.216 ± 0.02 | 0.011 | 104 | 0.75 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.163 ± 0.02 | 0.0392 | 125 | 0.82 |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.4 | 0.154 | 99.2 | -0.41 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.73 ± 0.7 | 0.249 | 98.7 | -0.25 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 5 | 0.914 | 99.7 | -0.09 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 3 | 1.37 | 102 | 0.48 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.439 ± 0.04 | 0.0324 | 102 | 0.21 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.41 ± 0.2 | 0.131 | 101 | 0.40 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.34 ± 0.3 | 0.29 | 95.6 | -0.53 |

Sample: N165ADOC

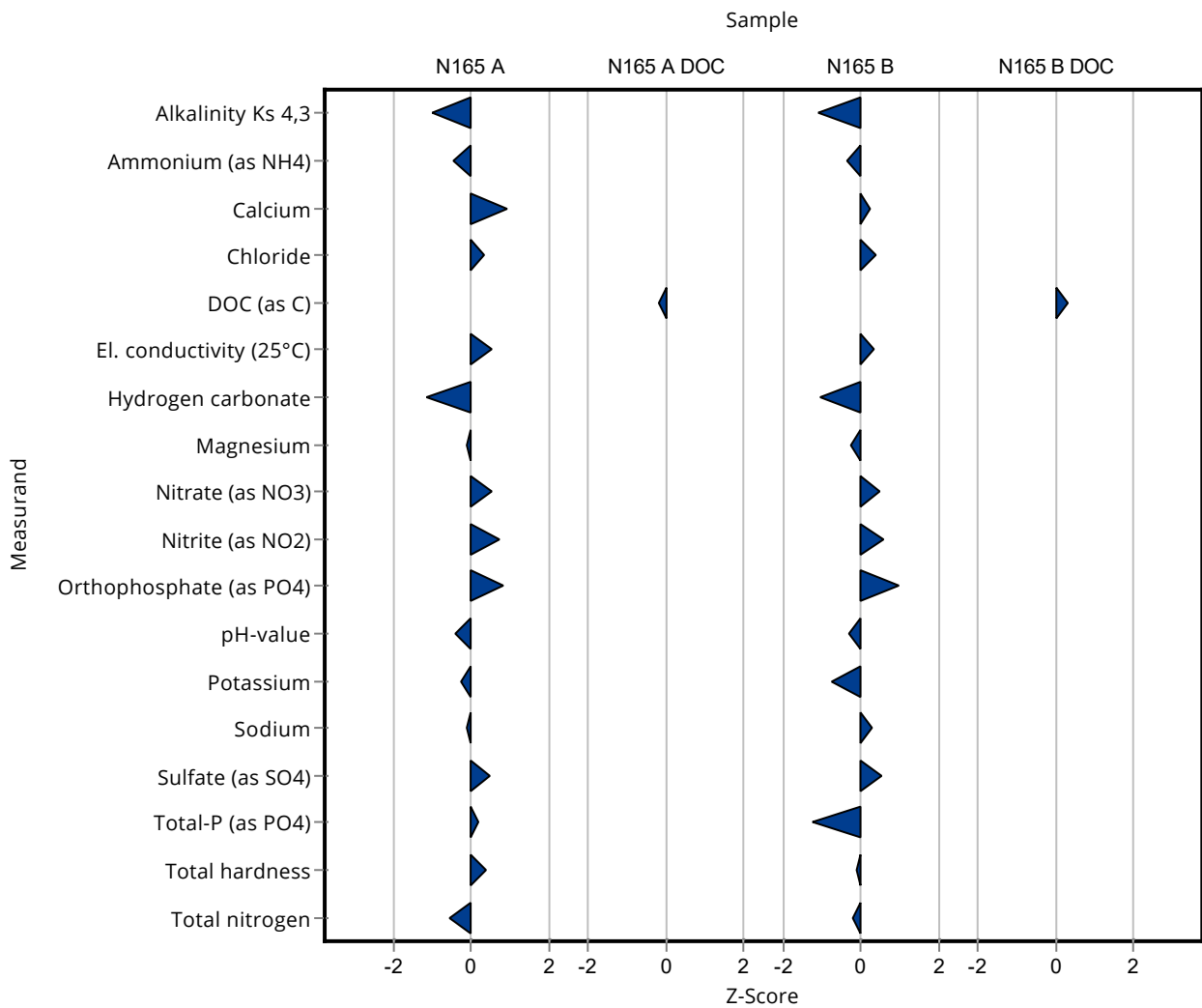
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.34 ± 0.2 | 0.193 | 97.2 | -0.20 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.28 ± 0.2 | 0.0671 | 97.8 | -1.09 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.159 ± 0.02 | 0.0199 | 95.9 | -0.34 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60.9 ± 5 | 1.87 | 101 | 0.25 |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 2 | 1.03 | 101 | 0.36 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 20 | 6.24 | 100 | 0.31 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 197 ± 8 | 5.68 | 97.1 | -1.04 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.1 ± 1.7 | 0.57 | 99 | -0.25 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 1.2 | 0.791 | 102 | 0.48 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.02 | 0.0128 | 103 | 0.59 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.167 ± 0.03 | 0.0166 | 111 | 0.99 |
| pH-value | - | 7.84 ± 0.0268 | 7.79 ± 0.4 | 0.157 | 99.4 | -0.32 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.28 ± 0.3 | 0.124 | 96 | -0.77 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 2.4 | 0.525 | 101 | 0.29 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.3 ± 2 | 1.02 | 102 | 0.53 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.6 ± 0.2 | 0.133 | 90.6 | -1.25 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.1 | 0.0632 | 99.6 | -0.13 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.83 ± 0.34 | 0.323 | 98.4 | -0.19 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.48 ± 0.5 | 0.337 | 103 | 0.31 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|---------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.19 ± 0.3 | 0.147 | 98.1 | -0.24 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.051 ± 0.005 | 0.00999 | 91.9 | -0.42 |
| Boron | mg/l | 0.0587 ± 0.00178 | - ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 128 ± 11 | 4.34 | 103 | 0.18 |
| Chloride | mg/l | 57.6 ± 0.558 | 58.4 ± 4 | 2.3 | 101 | 0.10 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 922 ± 37 | 11.9 | 101 | 0.09 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 435 ± 18 | 8.9 | 97.8 | -0.28 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.7 ± 4 | 1.19 | 99.5 | -0.02 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.7 ± 1.1 | 0.716 | 103 | 0.17 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.216 ± 0.02 | 0.011 | 104 | 0.21 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.163 ± 0.02 | 0.0392 | 125 | 0.75 |
| pH-value | - | 7.68 ± 0.034 | 7.62 ± 0.4 | 0.154 | 99.2 | -0.08 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.73 ± 0.7 | 0.249 | 98.7 | -0.04 |
| Sodium | mg/l | 26.9 ± 0.356 | 26.8 ± 5 | 0.914 | 99.7 | -0.01 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 42.3 ± 3 | 1.37 | 102 | 0.11 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.439 ± 0.04 | 0.0324 | 102 | 0.08 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.41 ± 0.2 | 0.131 | 101 | 0.13 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.34 ± 0.3 | 0.29 | 95.6 | -0.25 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.34 ± 0.2 | 0.193 | 97.2 | -0.10 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

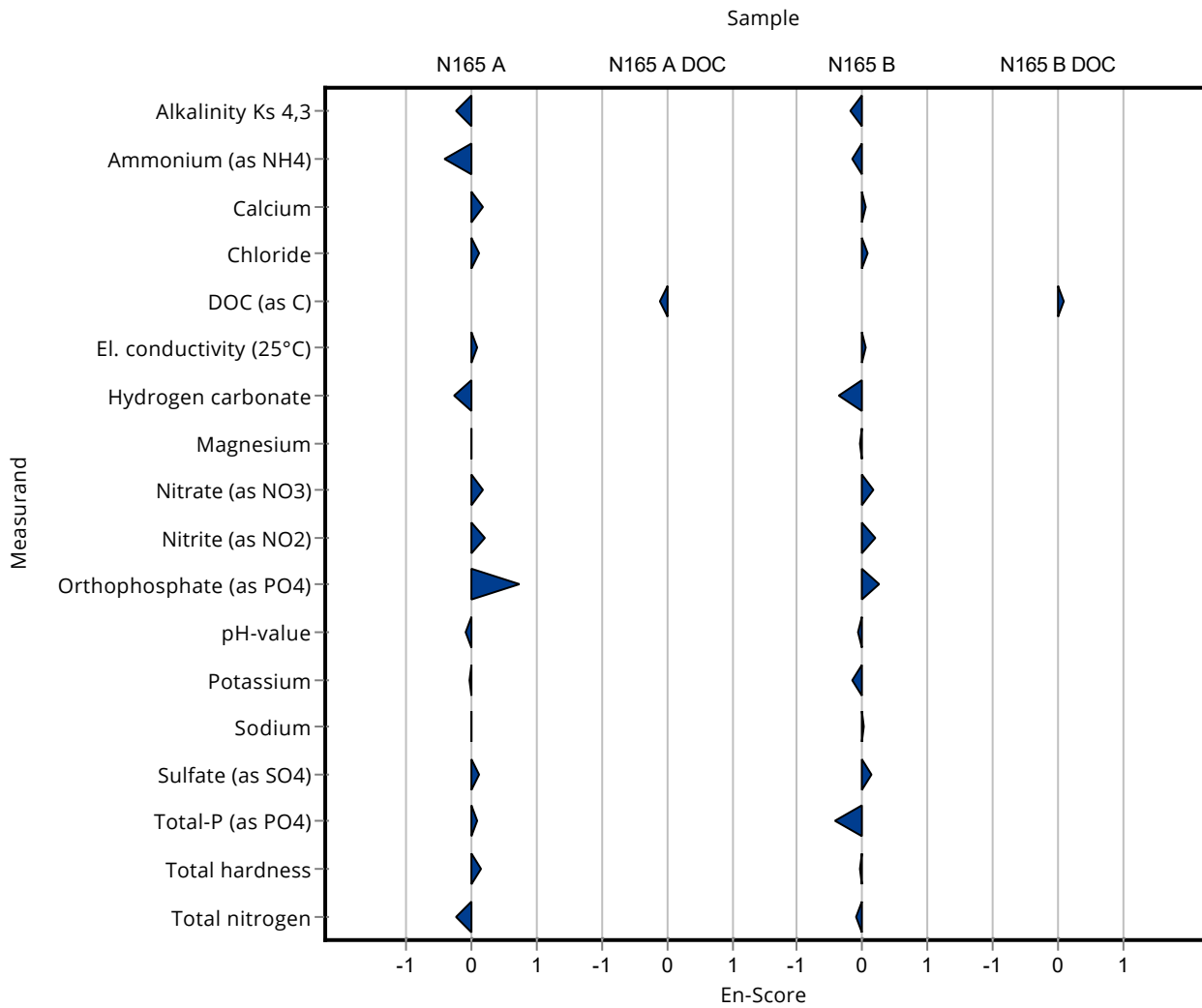
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0049

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|--------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.28 ± 0.2 | 0.0671 | 97.8 | -0.18 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.159 ± 0.02 | 0.0199 | 95.9 | -0.17 |
| Boron | mg/l | 0.0144 ± 0.00123 | - ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 60.9 ± 5 | 1.87 | 101 | 0.05 |
| Chloride | mg/l | 25.6 ± 0.265 | 26 ± 2 | 1.03 | 101 | 0.09 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 20 | 6.24 | 100 | 0.05 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 197 ± 8 | 5.68 | 97.1 | -0.37 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.1 ± 1.7 | 0.57 | 99 | -0.04 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 16.2 ± 1.2 | 0.791 | 102 | 0.16 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.25 ± 0.02 | 0.0128 | 103 | 0.19 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.167 ± 0.03 | 0.0166 | 111 | 0.27 |
| pH-value | - | 7.84 ± 0.0268 | 7.79 ± 0.4 | 0.157 | 99.4 | -0.06 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.28 ± 0.3 | 0.124 | 96 | -0.16 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.6 ± 2.4 | 0.525 | 101 | 0.03 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 31.3 ± 2 | 1.02 | 102 | 0.14 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.6 ± 0.2 | 0.133 | 90.6 | -0.41 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.1 ± 0.1 | 0.0632 | 99.6 | -0.04 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.83 ± 0.34 | 0.323 | 98.4 | -0.09 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.48 ± 0.5 | 0.337 | 103 | 0.11 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.06 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | <0.1 (LOQ) ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 53.6 ± 3 | 2.3 | 93.1 | -1.74 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 906 ± 42 | 11.9 | 99 | -0.81 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13 ± 0.52 | 0.716 | 90.8 | -1.85 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.198 ± 0.073 | 0.011 | 95.3 | -0.89 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.148 ± 0.076 | 0.0392 | 113 | 0.44 |
| pH-value | - | 7.68 ± 0.034 | 7.89 ± 0.35 | 0.154 | 103 | 1.35 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 37.7 ± 2.6 | 1.37 | 90.5 | -2.87 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

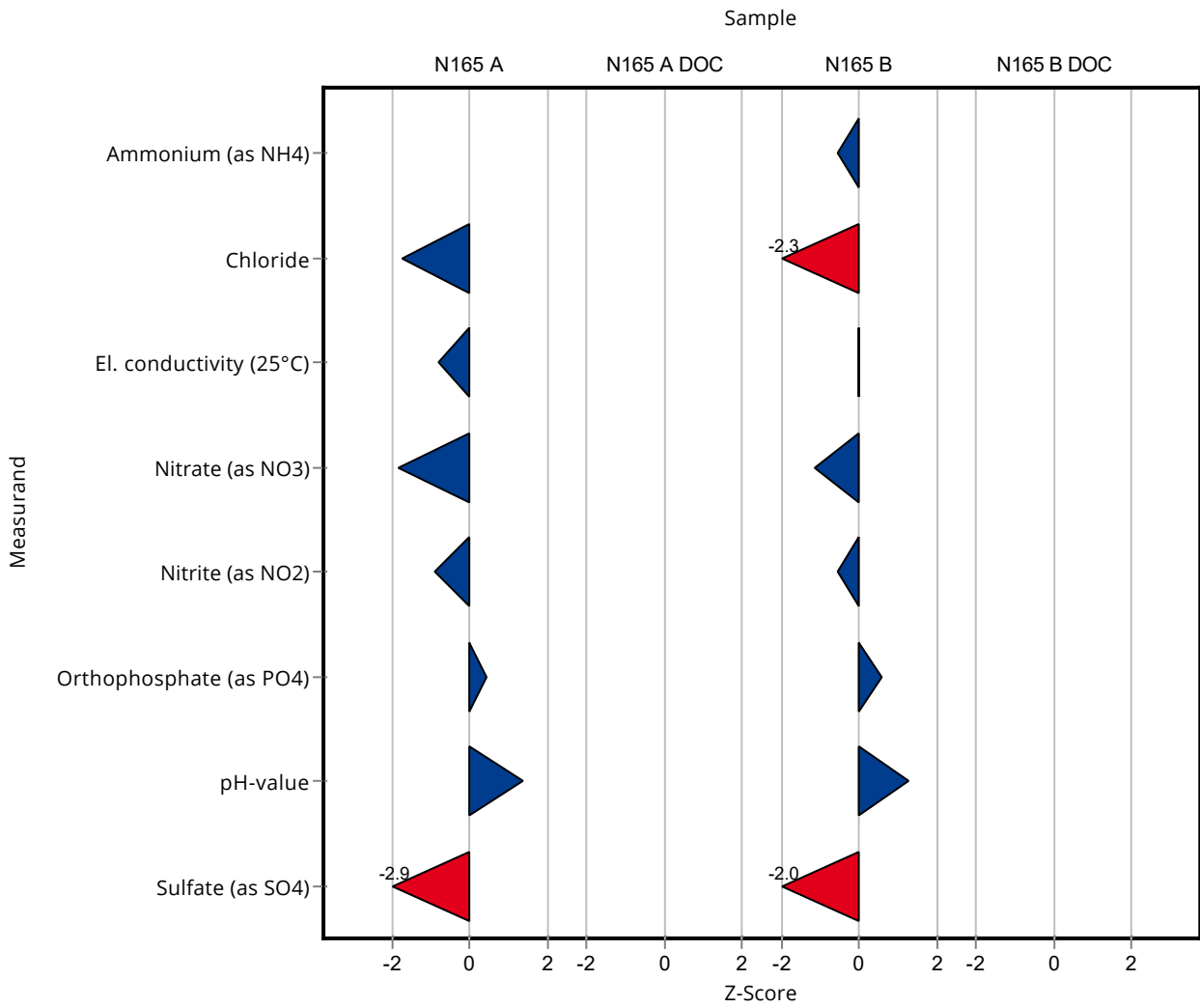
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.155 ± 0.057 | 0.0199 | 93.5 | -0.54 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.1 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 23.3 ± 1.3 | 1.03 | 90.9 | -2.28 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 22 | 6.24 | 100 | -0.01 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.9 ± 0.59 | 0.791 | 94.2 | -1.16 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.235 ± 0.087 | 0.0128 | 96.9 | -0.58 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.16 ± 0.082 | 0.0166 | 106 | 0.57 |
| pH-value | - | 7.84 ± 0.0268 | 8.04 ± 0.36 | 0.157 | 103 | 1.27 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.7 ± 2 | 1.02 | 93.3 | -2.03 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | - ± - | 0.147 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | <0.06 (LOQ) ± - | 0.00999 | - | - |
| Boron | mg/l | 0.0587 ± 0.00178 | <0.1 (LOQ) ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | - ± - | 4.34 | - | - |
| Chloride | mg/l | 57.6 ± 0.558 | 53.6 ± 3 | 2.3 | 93.1 | -0.66 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 906 ± 42 | 11.9 | 99 | -0.11 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | - ± - | 8.9 | - | - |
| Magnesium | mg/l | 29.9 ± 0.424 | - ± - | 1.19 | - | - |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 13 ± 0.52 | 0.716 | 90.8 | -1.25 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.198 ± 0.073 | 0.011 | 95.3 | -0.07 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.148 ± 0.076 | 0.0392 | 113 | 0.11 |
| pH-value | - | 7.68 ± 0.034 | 7.89 ± 0.35 | 0.154 | 103 | 0.30 |
| Potassium | mg/l | 4.79 ± 0.051 | - ± - | 0.249 | - | - |
| Sodium | mg/l | 26.9 ± 0.356 | - ± - | 0.914 | - | - |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 37.7 ± 2.6 | 1.37 | 90.5 | -0.76 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | - ± - | 0.0324 | - | - |
| Total hardness | mmol/l | 4.36 ± 0.0397 | - ± - | 0.131 | - | - |
| Total nitrogen | mg/l | 3.49 ± 0.151 | - ± - | 0.29 | - | - |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | - ± - | 0.193 | - | - |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

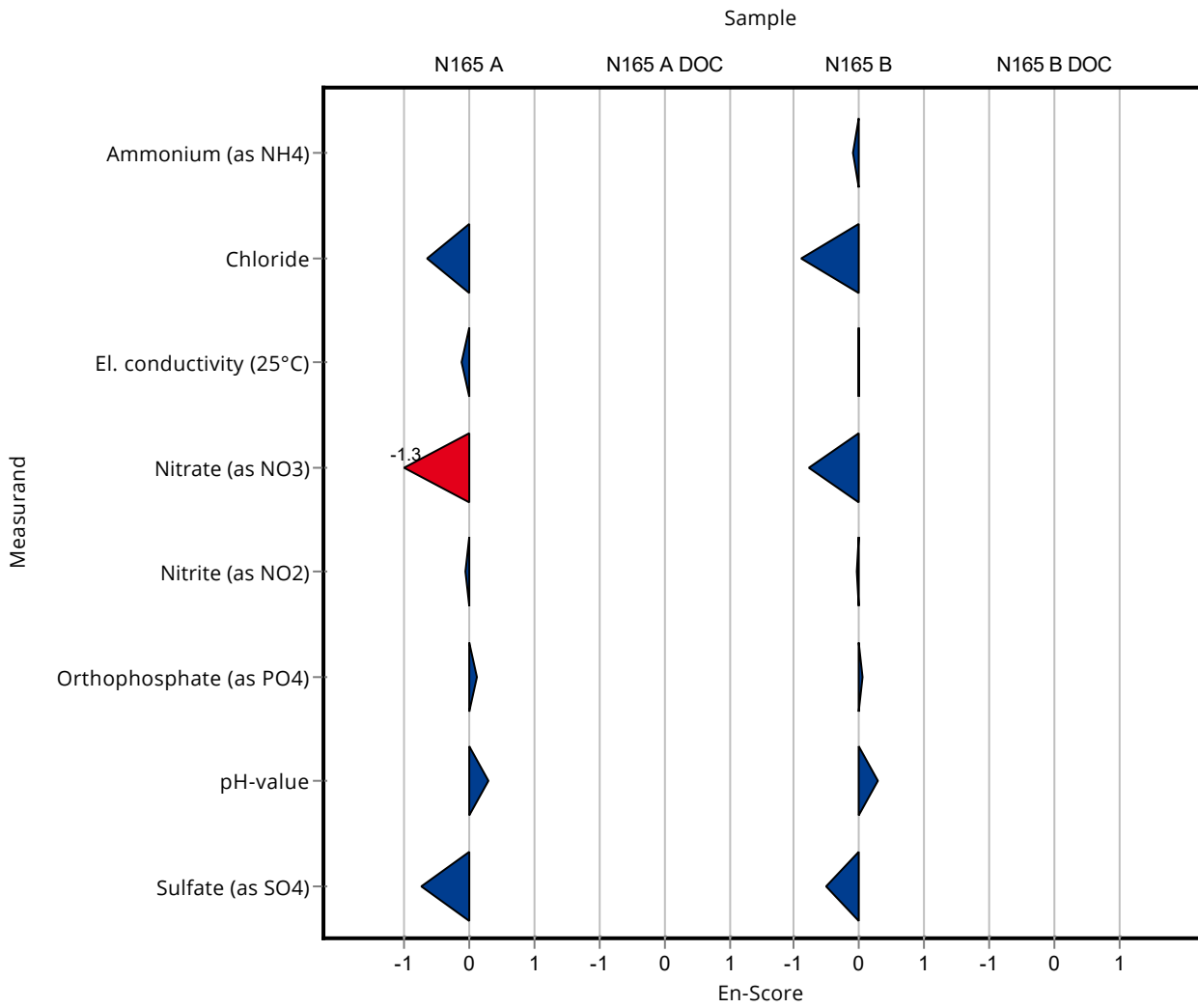
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0050

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | - ± - | 0.0671 | - | - |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.155 ± 0.057 | 0.0199 | 93.5 | -0.09 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.1 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | - ± - | 1.87 | - | - |
| Chloride | mg/l | 25.6 ± 0.265 | 23.3 ± 1.3 | 1.03 | 90.9 | -0.89 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 480 ± 22 | 6.24 | 100 | 0.00 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | - ± - | 5.68 | - | - |
| Magnesium | mg/l | 14.2 ± 0.198 | - ± - | 0.57 | - | - |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.9 ± 0.59 | 0.791 | 94.2 | -0.77 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.235 ± 0.087 | 0.0128 | 96.9 | -0.04 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.16 ± 0.082 | 0.0166 | 106 | 0.06 |
| pH-value | - | 7.84 ± 0.0268 | 8.04 ± 0.36 | 0.157 | 103 | 0.28 |
| Potassium | mg/l | 2.38 ± 0.0289 | - ± - | 0.124 | - | - |
| Sodium | mg/l | 15.4 ± 0.239 | - ± - | 0.525 | - | - |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 28.7 ± 2 | 1.02 | 93.3 | -0.51 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | - ± - | 0.133 | - | - |
| Total hardness | mmol/l | 2.11 ± 0.0216 | - ± - | 0.0632 | - | - |
| Total nitrogen | mg/l | 3.89 ± 0.119 | - ± - | 0.323 | - | - |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | - ± - | 0.337 | - | - |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.4 ± 0.1 | 0.147 | 101 | 0.46 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0531 ± 0.004 | 0.00999 | 95.7 | -0.24 |
| Boron | mg/l | 0.0587 ± 0.00178 | <0.05 (LOQ) ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 131.78 ± 9.976 | 4.34 | 106 | 1.80 |
| Chloride | mg/l | 57.6 ± 0.558 | 51.88 ± 4.244 | 2.3 | 90.1 | -2.48 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 926 ± 34.2 | 11.9 | 101 | 0.88 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 452 ± 0.1 | 8.9 | 102 | 0.79 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.81 ± 1.966 | 1.19 | 107 | 1.64 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 12.9047 ± 1.102 | 0.716 | 90.1 | -1.98 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2087 ± 0.016 | 0.011 | 100 | 0.08 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.1615 ± 0.025 | 0.0392 | 124 | 0.79 |
| pH-value | - | 7.68 ± 0.034 | 7.63 ± 0.1 | 0.154 | 99.3 | -0.35 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.77 ± 0.53 | 0.249 | 99.6 | -0.08 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.79 ± 2.195 | 0.914 | 103 | 1.00 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 36.276 ± 3.37 | 1.37 | 87.1 | -3.90 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.5078 ± 0.077 | 0.0324 | 117 | 2.33 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.45 ± 0.1 | 0.131 | 102 | 0.71 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.43 ± 0.371 | 0.29 | 98.2 | -0.22 |

Sample: N165ADOC

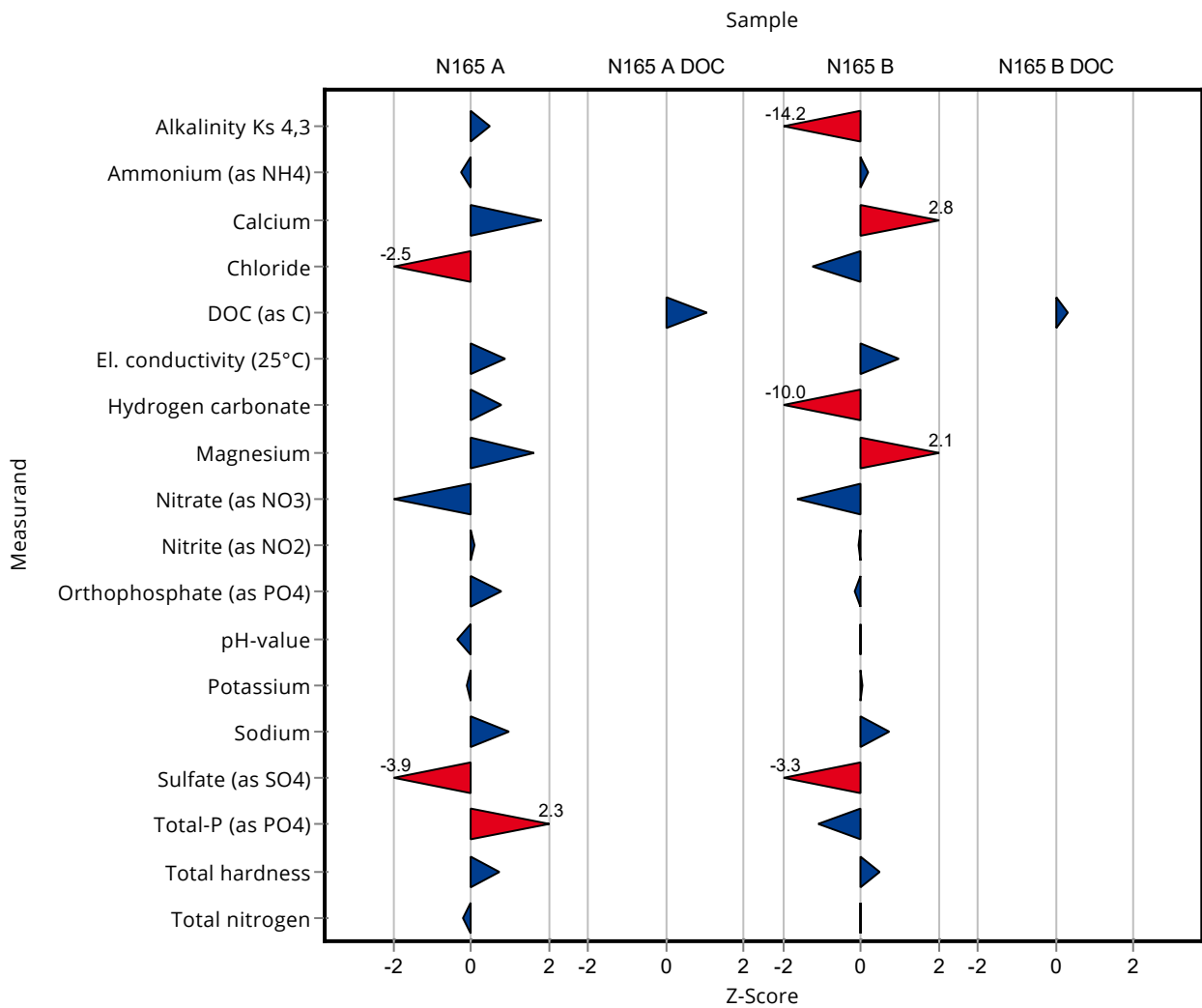
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.58 ± 0.162 | 0.193 | 115 | 1.04 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 2.4 ± 0.1 | 0.0671 | 71.6 | -14.22 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1691 ± 0.013 | 0.0199 | 102 | 0.17 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.05 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 65.62 ± 4.967 | 1.87 | 109 | 2.77 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.335 ± 1.991 | 1.03 | 94.9 | -1.27 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 17.933 | 6.24 | 101 | 0.95 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 146 ± 0.1 | 5.68 | 72 | -10.02 |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.42 ± 0.953 | 0.57 | 108 | 2.07 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.5397 ± 1.242 | 0.791 | 91.9 | -1.62 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2418 ± 0.019 | 0.0128 | 99.7 | -0.05 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1476 ± 0.022 | 0.0166 | 98 | -0.18 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.1 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.38 ± 0.265 | 0.124 | 100 | 0.04 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.84 ± 1.251 | 0.525 | 103 | 0.75 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 27.373 ± 2.543 | 1.02 | 89 | -3.33 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.622 ± 0.246 | 0.133 | 91.9 | -1.08 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.14 ± 0.1 | 0.0632 | 102 | 0.50 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.89 ± 0.421 | 0.323 | 100 | 0.00 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.47 ± 0.356 | 0.337 | 103 | 0.28 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.4 ± 0.1 | 0.147 | 101 | 0.33 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0531 ± 0.004 | 0.00999 | 95.7 | -0.27 |
| Boron | mg/l | 0.0587 ± 0.00178 | <0.05 (LOQ) ± - | 0.00646 | - | - |
| Calcium | mg/l | 124 ± 1.6 | 131.78 ± 9.976 | 4.34 | 106 | 0.39 |
| Chloride | mg/l | 57.6 ± 0.558 | 51.88 ± 4.244 | 2.3 | 90.1 | -0.67 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 926 ± 34.2 | 11.9 | 101 | 0.15 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 452 ± 0.1 | 8.9 | 102 | 2.46 |
| Magnesium | mg/l | 29.9 ± 0.424 | 31.81 ± 1.966 | 1.19 | 107 | 0.50 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 12.9047 ± 1.102 | 0.716 | 90.1 | -0.64 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.2087 ± 0.016 | 0.011 | 100 | 0.03 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.1615 ± 0.025 | 0.0392 | 124 | 0.59 |
| pH-value | - | 7.68 ± 0.034 | 7.63 ± 0.1 | 0.154 | 99.3 | -0.26 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.77 ± 0.53 | 0.249 | 99.6 | -0.02 |
| Sodium | mg/l | 26.9 ± 0.356 | 27.79 ± 2.195 | 0.914 | 103 | 0.21 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 36.276 ± 3.37 | 1.37 | 87.1 | -0.80 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.5078 ± 0.077 | 0.0324 | 117 | 0.49 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.45 ± 0.1 | 0.131 | 102 | 0.45 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.43 ± 0.371 | 0.29 | 98.2 | -0.08 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.58 ± 0.162 | 0.193 | 115 | 0.61 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

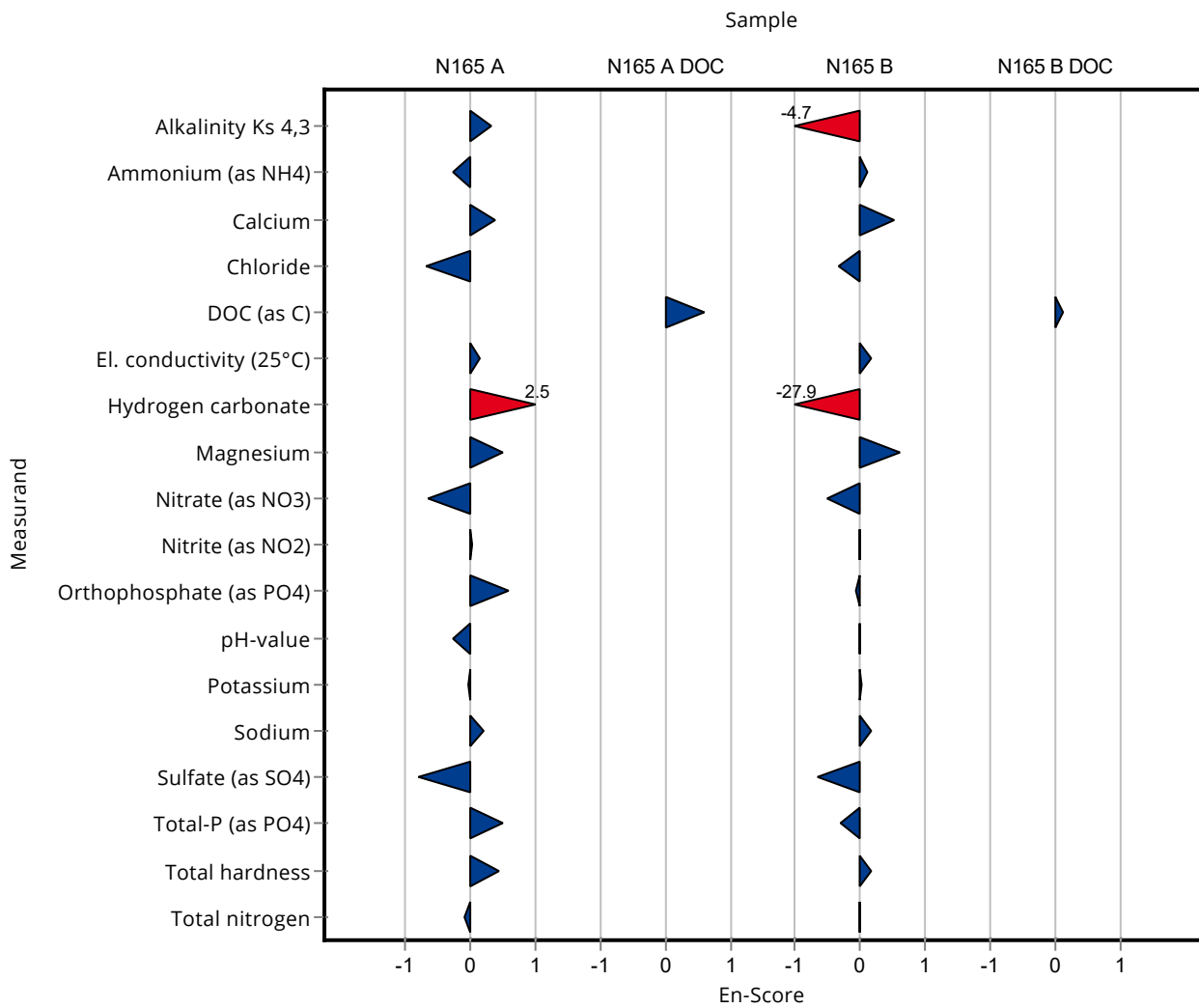
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0051

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 2.4 ± 0.1 | 0.0671 | 71.6 | -4.74 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.1691 ± 0.013 | 0.0199 | 102 | 0.12 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.05 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 65.62 ± 4.967 | 1.87 | 109 | 0.52 |
| Chloride | mg/l | 25.6 ± 0.265 | 24.335 ± 1.991 | 1.03 | 94.9 | -0.33 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 486 ± 17.933 | 6.24 | 101 | 0.17 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 146 ± 0.1 | 5.68 | 72 | -27.94 |
| Magnesium | mg/l | 14.2 ± 0.198 | 15.42 ± 0.953 | 0.57 | 108 | 0.62 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 14.5397 ± 1.242 | 0.791 | 91.9 | -0.51 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.2418 ± 0.019 | 0.0128 | 99.7 | -0.02 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.1476 ± 0.022 | 0.0166 | 98 | -0.07 |
| pH-value | - | 7.84 ± 0.0268 | 7.84 ± 0.1 | 0.157 | 100 | 0.00 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.38 ± 0.265 | 0.124 | 100 | 0.01 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.84 ± 1.251 | 0.525 | 103 | 0.16 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 27.373 ± 2.543 | 1.02 | 89 | -0.66 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.622 ± 0.246 | 0.133 | 91.9 | -0.29 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.14 ± 0.1 | 0.0632 | 102 | 0.16 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 3.89 ± 0.421 | 0.323 | 100 | 0.00 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.47 ± 0.356 | 0.337 | 103 | 0.13 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-------------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.3 ± 0.195 | 0.147 | 99.6 | -0.22 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0577 ± 0.000531 | 0.00999 | 104 | 0.22 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0606 ± 0.00171 | 0.00646 | 103 | 0.29 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 1.13 | 4.34 | 104 | 1.16 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.2 ± 0.821 | 2.3 | 99.3 | -0.17 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 0.191 | 11.9 | 99.9 | -0.05 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 442 ± 8.85 | 8.9 | 99.3 | -0.33 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.6 ± 0.424 | 1.19 | 99.2 | -0.21 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.2 ± 0.282 | 0.716 | 99.2 | -0.17 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.206 ± 0.000926 | 0.011 | 99.1 | -0.16 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.155 ± 0.0016 | 0.0392 | 119 | 0.62 |
| pH-value | - | 7.68 ± 0.034 | 7.9 ± 0.079 | 0.154 | 103 | 1.41 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.92 ± 0.247 | 0.249 | 103 | 0.52 |
| Sodium | mg/l | 26.9 ± 0.356 | 27 ± 0.314 | 0.914 | 100 | 0.13 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.7 ± 0.351 | 1.37 | 100 | 0.04 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.458 ± 0.0145 | 0.0324 | 106 | 0.80 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.44 ± 0.0332 | 0.131 | 102 | 0.63 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.79 ± 0.0624 | 0.29 | 108 | 1.02 |

Sample: N165ADOC

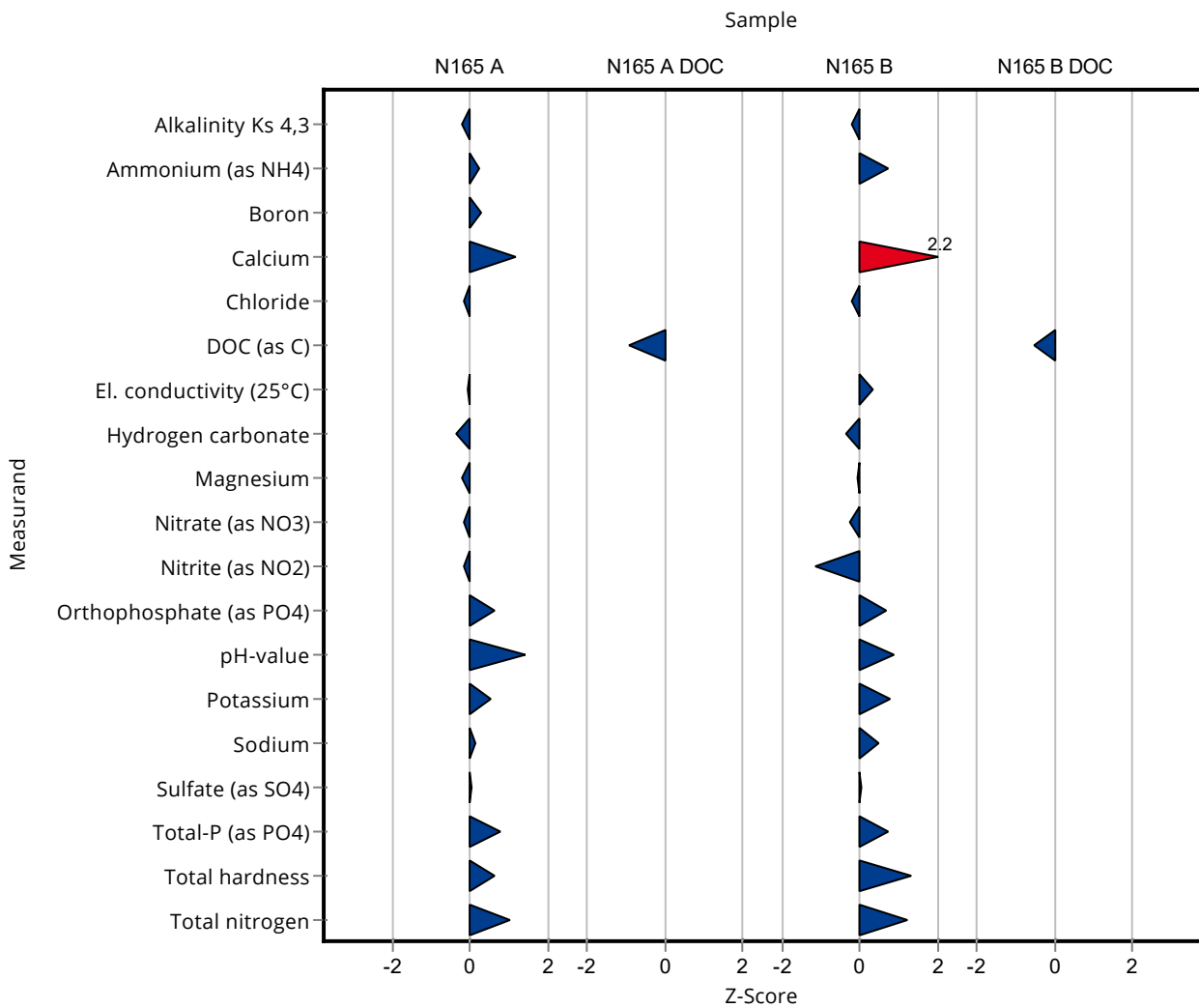
| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.2 ± 0.0957 | 0.193 | 87 | -0.93 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|---------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.116 | 0.0671 | 99.6 | -0.20 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.18 ± 0.000604 | 0.0199 | 109 | 0.71 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 64.5 ± 0.565 | 1.87 | 107 | 2.17 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.4 ± 0.416 | 1.03 | 99.1 | -0.23 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 0.262 | 6.24 | 100 | 0.31 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 201 ± 4.01 | 5.68 | 99.1 | -0.33 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.2 ± 0.487 | 0.57 | 99.7 | -0.07 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 0.276 | 0.791 | 98.6 | -0.28 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.228 ± 0.00417 | 0.0128 | 94 | -1.12 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.162 ± 0.00162 | 0.0166 | 108 | 0.69 |
| pH-value | - | 7.84 ± 0.0268 | 7.98 ± 0.0798 | 0.157 | 102 | 0.89 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.47 ± 0.042 | 0.124 | 104 | 0.77 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.7 ± 0.327 | 0.525 | 102 | 0.48 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 0.321 | 1.02 | 100 | 0.04 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.86 ± 0.0552 | 0.133 | 105 | 0.71 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.19 ± 0.0245 | 0.0632 | 104 | 1.29 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.28 ± 0.0632 | 0.323 | 110 | 1.20 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------|------|--------------------------|--------------|-----------|--------------|---------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.2 ± 0.0919 | 0.337 | 94.8 | -0.52 |



Sample: N165A

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-------------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 7.33 ± 0.0456 | 7.3 ± 0.195 | 0.147 | 99.6 | -0.08 |
| Ammonium (as NH ₄) | mg/l | 0.0555 ± 0.00364 | 0.0577 ± 0.000531 | 0.00999 | 104 | 0.58 |
| Boron | mg/l | 0.0587 ± 0.00178 | 0.0606 ± 0.00171 | 0.00646 | 103 | 0.48 |
| Calcium | mg/l | 124 ± 1.6 | 129 ± 1.13 | 4.34 | 104 | 1.82 |
| Chloride | mg/l | 57.6 ± 0.558 | 57.2 ± 0.821 | 2.3 | 99.3 | -0.23 |
| El. conductivity (25°C) | µS/cm | 916 ± 3.4 | 915 ± 0.191 | 11.9 | 99.9 | -0.17 |
| Hydrogen carbonate | mg/l | 445 ± 2.85 | 442 ± 8.85 | 8.9 | 99.3 | -0.17 |
| Magnesium | mg/l | 29.9 ± 0.424 | 29.6 ± 0.424 | 1.19 | 99.2 | -0.26 |
| Nitrate (as NO ₃) | mg/l | 14.3 ± 0.17 | 14.2 ± 0.282 | 0.716 | 99.2 | -0.21 |
| Nitrite (as NO ₂) | mg/l | 0.208 ± 0.00304 | 0.206 ± 0.000926 | 0.011 | 99.1 | -0.50 |
| Orthophosphate (as PO ₄) | mg/l | 0.131 ± 0.0163 | 0.155 ± 0.0016 | 0.0392 | 119 | 1.47 |
| pH-value | - | 7.68 ± 0.034 | 7.9 ± 0.079 | 0.154 | 103 | 1.34 |
| Potassium | mg/l | 4.79 ± 0.051 | 4.92 ± 0.247 | 0.249 | 103 | 0.26 |
| Sodium | mg/l | 26.9 ± 0.356 | 27 ± 0.314 | 0.914 | 100 | 0.17 |
| Sulfate (as SO ₄) | mg/l | 41.6 ± 0.241 | 41.7 ± 0.351 | 1.37 | 100 | 0.08 |
| Total-P (as PO ₄) | mg/l | 0.432 ± 0.012 | 0.458 ± 0.0145 | 0.0324 | 106 | 0.82 |
| Total hardness | mmol/l | 4.36 ± 0.0397 | 4.44 ± 0.0332 | 0.131 | 102 | 1.06 |
| Total nitrogen | mg/l | 3.49 ± 0.151 | 3.79 ± 0.0624 | 0.29 | 108 | 1.51 |

Sample: N165ADOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 1.38 ± 0.0704 | 1.2 ± 0.0957 | 0.193 | 87 | -0.88 |

Sample: N165B

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|-----------|------|--------------------------|------------|-----------|--------------|----------|
|-----------|------|--------------------------|------------|-----------|--------------|----------|

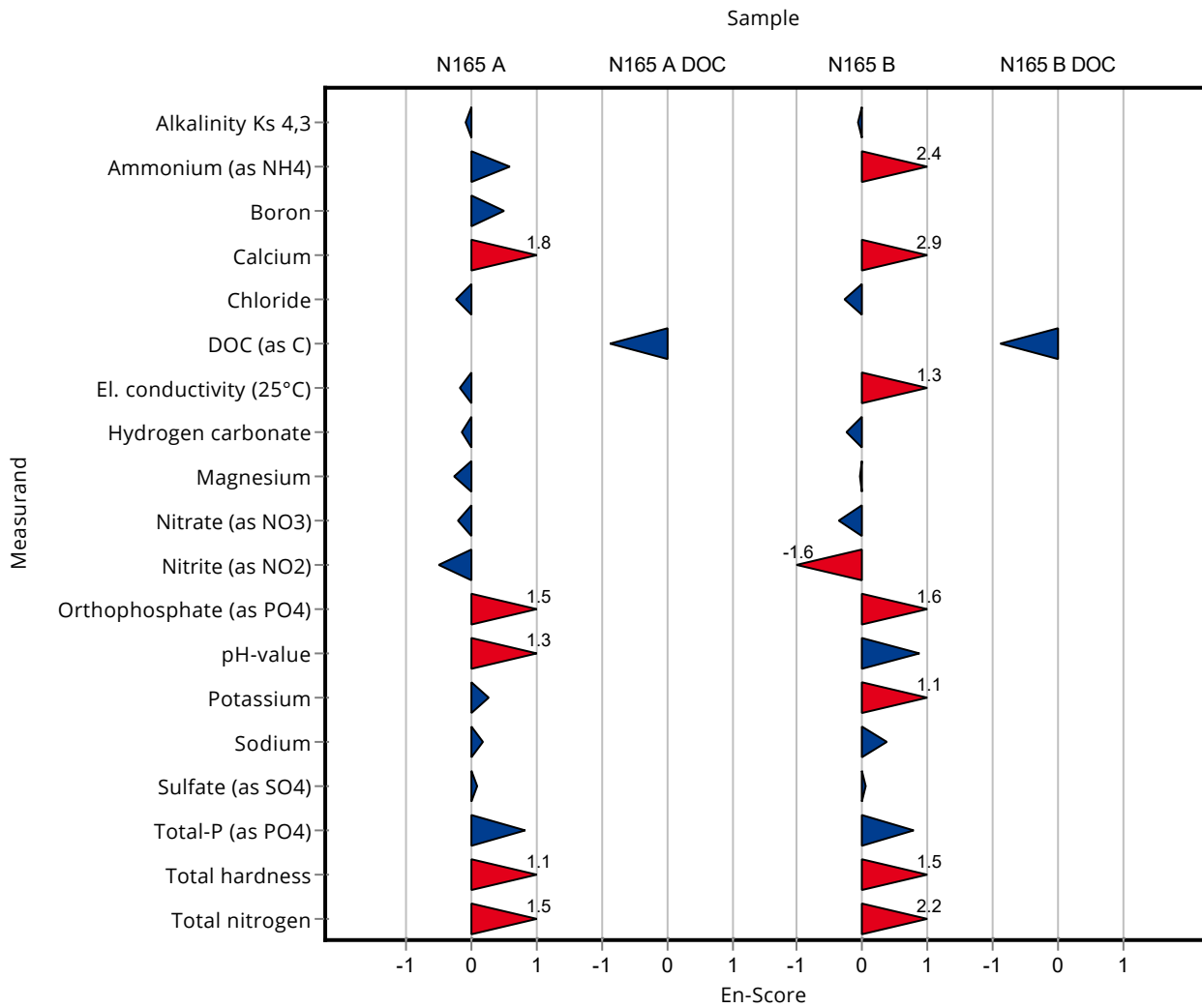
Summary of results Nutrients/Major Ions N165 - En-Score

Labcode: LC0052

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|--------------------------------------|--------|--------------------------|-----------------|-----------|--------------|----------|
| Alkalinity Ks 4,3 | mmol/l | 3.35 ± 0.0214 | 3.34 ± 0.116 | 0.0671 | 99.6 | -0.06 |
| Ammonium (as NH ₄) | mg/l | 0.166 ± 0.00573 | 0.18 ± 0.000604 | 0.0199 | 109 | 2.42 |
| Boron | mg/l | 0.0144 ± 0.00123 | <0.02 (LOQ) ± - | 0.00215 | - | - |
| Calcium | mg/l | 60.4 ± 0.834 | 64.5 ± 0.565 | 1.87 | 107 | 2.90 |
| Chloride | mg/l | 25.6 ± 0.265 | 25.4 ± 0.416 | 1.03 | 99.1 | -0.27 |
| El. conductivity (25°C) | µS/cm | 480 ± 1.46 | 482 ± 0.262 | 6.24 | 100 | 1.25 |
| Hydrogen carbonate | mg/l | 203 ± 2.03 | 201 ± 4.01 | 5.68 | 99.1 | -0.23 |
| Magnesium | mg/l | 14.2 ± 0.198 | 14.2 ± 0.487 | 0.57 | 99.7 | -0.04 |
| Nitrate (as NO ₃) | mg/l | 15.8 ± 0.207 | 15.6 ± 0.276 | 0.791 | 98.6 | -0.37 |
| Nitrite (as NO ₂) | mg/l | 0.242 ± 0.00388 | 0.228 ± 0.00417 | 0.0128 | 94 | -1.57 |
| Orthophosphate (as PO ₄) | mg/l | 0.151 ± 0.0066 | 0.162 ± 0.00162 | 0.0166 | 108 | 1.55 |
| pH-value | - | 7.84 ± 0.0268 | 7.98 ± 0.0798 | 0.157 | 102 | 0.86 |
| Potassium | mg/l | 2.38 ± 0.0289 | 2.47 ± 0.042 | 0.124 | 104 | 1.06 |
| Sodium | mg/l | 15.4 ± 0.239 | 15.7 ± 0.327 | 0.525 | 102 | 0.36 |
| Sulfate (as SO ₄) | mg/l | 30.8 ± 0.304 | 30.8 ± 0.321 | 1.02 | 100 | 0.06 |
| Total-P (as PO ₄) | mg/l | 1.77 ± 0.0469 | 1.86 ± 0.0552 | 0.133 | 105 | 0.79 |
| Total hardness | mmol/l | 2.11 ± 0.0216 | 2.19 ± 0.0245 | 0.0632 | 104 | 1.53 |
| Total nitrogen | mg/l | 3.89 ± 0.119 | 4.28 ± 0.0632 | 0.323 | 110 | 2.24 |

Sample: N165BDOC

| Parameter | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------|------|--------------------------|--------------|-----------|--------------|----------|
| DOC (as C) | mg/l | 3.37 ± 0.0669 | 3.2 ± 0.0919 | 0.337 | 94.8 | -0.89 |



E9. Methodenübersicht / Overview of methods

| LabCode | Sample | Alkalinity Ks 4,3 | Boron | Calcium | Chloride | Total-P (as PO ₄) | Total hardness |
|---------|--------|-------------------------------------|----------------------------|----------------------------|----------------------------|--|------------------------|
| LC0001 | N165A | titrimetry; | | | | | |
| LC0002 | N165A | titrimetry; | | IC; | IC; | | IC; |
| LC0003 | N165A | DIN 38409-7; | | | ISO 15923-1; | ISO 15923-1; | DIN 38409-6; |
| LC0004 | N165A | titrimetry; | | ICP-OES; | IC; | ICP-OES; | titrimetry; |
| LC0005 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0006 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0007 | N165A | DIN 38409-6; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0008 | N165A | EN ISO 9963-1; modified, titrimetry | | EN ISO 14911; modified; IC | EN ISO 14911; modified; IC | | IC; |
| LC0009 | N165A | | | | EN ISO 10304-1; D20 | EN ISO 15681-1; D45; Oxisolv Digestion; FIAS | |
| LC0010 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | |
| LC0011 | N165A | | | photometry; Hach Lange | photometry; Hach Lange | | photometry; Hach Lange |
| LC0012 | N165A | EN ISO 9963-1; | | | DIN 38405-1; ed. | | DIN 38406-3; |
| LC0013 | N165A | | | EN ISO 11885; | EN ISO 15682; | | |
| LC0014 | N165A | DIN 38409-7; | | | | | |
| LC0015 | N165A | DIN 38409-7; titration | | | | | |
| LC0016 | N165A | EN ISO 9963-1; | EN ISO 17294-1; | EN ISO 17294-1; | EN ISO 10304-1; | EN ISO 6878; | calculated; |
| LC0017 | N165A | titrimetry; | | | titrimetry; | EN ISO 6878; UV-VIS | |
| LC0018 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 11885; | DIN 38409-6; |
| LC0019 | N165A | DIN 38409-7; H7 | | | | | |
| LC0020 | N165A | | | | | | |
| LC0021 | N165A | EN ISO 9963-1; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409; |
| LC0022 | N165A | DIN 38409-7; H7; titration | EN ISO 11885; E22; ICP-OES | EN ISO 7980; E3a; AAS | EN ISO 10304-1; D20; IC | EN ISO 6878; D11; UV | EN ISO 7980; E3a; AAS |
| LC0023 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | EN ISO 17294-2; |
| LC0024 | N165A | EN ISO 9963-1; | EN ISO 17294-2; ICP-MS | EN ISO 17294-2; ICP-MS | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 17294-2; ICP-MS |

| LabCode | Sample | Alkalinity Ks 4,3 | Boron | Calcium | Chloride | Total-P (as PO4) | Total hardness |
|---------|--------|--------------------------|---------------------------|---|---------------------|---------------------|---|
| LC0025 | N165A | | | | EN ISO 10304-1; D20 | EN ISO 6878; D11 | |
| LC0026 | N165A | | | | | | |
| LC0027 | N165A | titration; | | IC; | IC; | photometry; | IC; |
| LC0028 | N165A | | | Trilon B; guide for surface water analysis; | ISO 9297; | EN ISO 6878; | Trilon B; guide for surface water analysis; |
| LC0029 | N165A | DIN 38409-7; H7-2 | | | | | |
| LC0030 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0031 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 11885; | DIN 38409-6; |
| LC0032 | N165A | DIN 38409-7; | | | EN ISO 10304-1; | | |
| LC0033 | N165A | titrimetry; | ICP-OES; | titrimetry; | titrimetry; | calculated; | titrimetry; |
| LC0034 | N165A | | | | | EN ISO 6878; | |
| LC0035 | N165A | DIN 38409-7; | | | | | |
| LC0036 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | | DIN 38409-6; |
| LC0037 | N165A | titration; | | titration; | IC; | photometry; | titration; |
| LC0038 | N165A | | EN ISO 17294-2; E29 | EN ISO 14911; E34 | | EN ISO 17294-2; E29 | DIN 38406-3; E3-3 |
| LC0039 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0040 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304; | ISO 15923; | EN ISO 11885; |
| LC0041 | N165A | DIN 38409-7; | | | | | |
| LC0042 | N165A | DIN 38409-7; H7 | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | DIN 4030; |
| LC0043 | N165A | | | | | | |
| LC0044 | N165A | DIN 38409-7; | | DIN 38406-3; | DIN 38405-1; | LCK 349; | DIN 38405-1; ed. |
| LC0045 | N165A | EN ISO 9963-1; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | EN ISO 14911; |
| LC0046 | N165A | DIN 38409-7; | | | | | |
| LC0047 | N165A | titrimetry; | photometry; | IC; | IC; | photometry; | calculated; (Ca + Mg) |
| LC0048 | N165A | | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | EN ISO 17294-2; |
| LC0049 | N165A | EN ISO 9963-1; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; ed. |
| LC0050 | N165A | | DIN 38405-17; ÖNORM M6606 | | EN ISO 10304-1; ed. | | |
| LC0051 | N165A | DIN 38409-7; H7-1-2; ed. | EN ISO 11885; ICP-OES | EN ISO 11885; ICP-OES | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; H6 |
| LC0052 | N165A | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; H6 |

| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
|---------|--------|---------------------------|----------------------------|--|----------------------------|----------------------------|----------------------------------|--------------------------------|
| LC0001 | N165A | | | | | ICP-OES; | | |
| LC0002 | N165A | titrimetry; | IC; | conductometry; | IC; | IC; | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0003 | N165A | | | | | | | |
| LC0004 | N165A | titrimetry; | ICP-OES; | conductometry; | ICP-OES; | ICP-OES; | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0005 | N165A | DIN 38409-7; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | EN ISO 11732; | EN ISO 13395; |
| LC0006 | N165A | DIN 38409-7; D8 | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | ISO 7150-1; | EN ISO 13395; |
| LC0007 | N165A | DIN 38409-6; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; | EN 26777; |
| LC0008 | N165A | EN ISO 9963-1; titrimetry | EN ISO 14911; modified; IC | ISO 7888; conductometry | EN ISO 14911; modified; IC | EN ISO 14911; modified; IC | ISO 7150-1; modified; photometry | ISO 6777; modified; photometry |
| LC0009 | N165A | | | DIN 38404-8; C8; conductometry | | | EN ISO 11732; E23 | EN ISO 13395; D28; FIAS |
| LC0010 | N165A | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | DIN 38406-5; | EN 26777; |
| LC0011 | N165A | | | conductometry; | photometry; Hach Lange | | | |
| LC0012 | N165A | | | EN 27888; | | | | reflectometry; |
| LC0013 | N165A | | ISO 9964-3; | EN 27888; | EN ISO 11885; | ISO 9964-3; | EN ISO 11732; | EN ISO 13395; |
| LC0014 | N165A | | | EN 27888; C8 | | | | |
| LC0015 | N165A | | | | | | | |
| LC0016 | N165A | calculated; | EN ISO 17294-1; | EN 27888; | EN ISO 17294-1; | EN ISO 17294-1; | ISO 7150-1; | EN 26777; |
| LC0017 | N165A | titrimetry; | | conductometry; | | | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0018 | N165A | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |
| LC0019 | N165A | | | EN 27888; C8 | | | | |
| LC0020 | N165A | | | housemethod (SOP); SOP for pH and conductivity | | | | |
| LC0021 | N165A | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; E5 | EN 26777; |
| LC0022 | N165A | DIN 38409-7; H7 | DIN 38406-13; E13 | EN 27888; | EN ISO 7980; E3a; AAS | DIN 38406-14; E14 | DIN 38406-5; E5; UV | EN ISO 10304-1; D20; IC |
| LC0023 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | DIN 38406-5; | EN ISO 10304-1; |
| LC0024 | N165A | EN ISO 9963-1; | EN ISO 17294-2; ICP-MS | EN 27888; | EN ISO 17294-2; ICP-MS | EN ISO 17294-2; ICP-MS | EN ISO 11732; | EN ISO 13395; |

| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
|---------|--------|-----------------------------|---|--|---|---|---|--|
| LC0025 | N165A | | | | | | | EN 26777; D10 |
| LC0026 | N165A | | | | | | | EN 26777; |
| LC0027 | N165A | | IC; | conductometry; | IC; | IC; | photometry; | photometry; |
| LC0028 | N165A | | photometry; guide for surface water analysis, flame photometer method | conductivity; Guide for surface water analysis | calculated; (as difference between hardness and Ca) | photometry; guide for surface water analysis, flame photometer method | Nessler's reagent; Guide for surface water analysis | spectrophotometric; Guide for surface water analysis (griss reagent) |
| LC0029 | N165A | | | EN 27888; C8 | | | | |
| LC0030 | N165A | DIN 38409-7; | EN ISO 14911; | OENORM M 6616; | EN ISO 14911; | EN ISO 14911; | ISO 7150-1; | EN 26777; |
| LC0031 | N165A | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |
| LC0032 | N165A | | | EN 27888; | | | EN ISO 11732; | EN ISO 13395; |
| LC0033 | N165A | titrimetry; | spectrometric; | conductometry; | titrimetry; | ICP-OES; | spectrometric; UV | spectrometric; UV |
| LC0034 | N165A | | | | | | ISO 7150; | |
| LC0035 | N165A | | | EN 27888; | | | | |
| LC0036 | N165A | DIN 38409-7; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 11732; | EN ISO 13395; |
| LC0037 | N165A | titration; | IC; | potentiometry; | IC; | IC; | photometry; | photometry; |
| LC0038 | N165A | | EN ISO 14911; E34 | | EN ISO 14911; E34 | EN ISO 14911; E34 | | |
| LC0039 | N165A | calculated; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | ISO 7150-1; | EN 26777; |
| LC0040 | N165A | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | ISO 15923; | ISO 15923; |
| LC0041 | N165A | DIN 38409-7; D8 | | EN 27888; | | | | |
| LC0042 | N165A | DIN 38409-7; H7 | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 11732; E23 | EN 26777; D10 |
| LC0043 | N165A | | | EN 27888; | | | | |
| LC0044 | N165A | | ISO 9964-3; | EN 27888; | DIN 38406-3; ed. | ISO 9964-3; | DIN 38406-5; (5-1) | EN 26777; |
| LC0045 | N165A | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; | EN 26777; |
| LC0046 | N165A | calculated; | | EN 27888; | | | | EN 26777; |
| LC0047 | N165A | calculated; from alkalinity | IC; | conductometry; | IC; | IC; | photometry; | photometry; |
| LC0048 | N165A | EN ISO 9963-1; | EN ISO 17294-2; | ISO 7888; | EN ISO 17294-2; | EN ISO 17294-2; | Meth. 33045; | ISO 6777; |
| LC0049 | N165A | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | ISO 7150-1; | EN 26777; |

| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
|---------|--------|--------------------|-----------------------|-------------------------|-----------------------|-----------------------|--------------------------------|-------------------------------|
| LC0050 | N165A | | | EN 27888; | | | DIN 38406-5; ISO 7150-1 | EN 26777; |
| LC0051 | N165A | calculated; | EN ISO 11885; ICP-OES | EN 27888; | EN ISO 11885; ICP-OES | EN ISO 11885; ICP-OES | DIN 38406-5; E5-1 | EN 26777; |
| LC0052 | N165A | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |

| LabCode | Sample | Nitrate (as NO ₃) | Orthophosphate (as PO ₄) | Sulfate (as SO ₄) | pH-value | Total nitrogen | DOC (as C) N165ADOC |
|---------|--------|-------------------------------|--------------------------------------|-------------------------------|--|---|--|
| LC0001 | N165A | | | | | | |
| LC0002 | N165A | IC; | | IC; | potentiometry; pH-meter | | combustion; |
| LC0003 | N165A | | | ISO 15923-1; | | | |
| LC0004 | N165A | IC; | | IC; | potentiometry; pH-meter | | |
| LC0005 | N165A | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; EN ISO 20236 | EN 1484; |
| LC0006 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN ISO 11905-1; | EN 1484; |
| LC0007 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | DIN 38409-6; | | EN 1484; |
| LC0008 | N165A | EN ISO 14911; modified; IC | EN ISO 6878; modified; photometry | EN ISO 14911; modified; IC | EN ISO 10523; pH meter | | |
| LC0009 | N165A | EN ISO 10304-1; D20 | EN ISO 15681-1; D45; FIAS | EN ISO 10304-1; D20 | DIN 38404-5; C5; potentiometry | EN ISO 10304-1; D20; Oxisolv Digestion IC | EN 1484; H3; catalytic combustion NDIR |
| LC0010 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0011 | N165A | photometry; Hach Lange | | photometry; Hach Lange | EN ISO 10523; potentiometry | | |
| LC0012 | N165A | reflectoquant; | | | DIN 51369; | | |
| LC0013 | N165A | EN ISO 13395; | EN ISO 15681-2; | ISO 22743; | EN ISO 10523; | | EN 1484; |
| LC0014 | N165A | | | | EN ISO 10523; C5 | | |
| LC0015 | N165A | | | | | | EN 1484; IR |
| LC0016 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0017 | N165A | spectrometric; UV-VIS | spectrometric; UV-VIS | | potentiometry; pH-meter | | |
| LC0018 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0019 | N165A | | | | EN ISO 10523; C5 | | |
| LC0020 | N165A | | | | housemethod (SOP); SOP for pH and conductivity | | |
| LC0021 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | oxidation (CLD); | EN 1484; |
| LC0022 | N165A | EN ISO 10304-1; D20; IC | EN ISO 10304-1; D20; IC | EN ISO 10304-1; D20; IC | EN ISO 10523; C5 | EN ISO 11905-1; H36; IC | EN 1484; H3 |
| LC0023 | N165A | EN ISO 10304-1; | EN ISO 10304-1; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0024 | N165A | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0025 | N165A | EN ISO 10304-1; D20 | EN ISO 6878; D11 | EN ISO 10304-1; D20 | | | |
| LC0026 | N165A | | | | | | |
| LC0027 | N165A | photometry; | photometry; | IC; | potentiometry; pH-meter | TOC-N analyzer; | TOC-N analyzer; |

| LabCode | Sample | Nitrate (as NO ₃) | Orthophosphate (as PO ₄) | Sulfate (as SO ₄) | pH-value | Total nitrogen | DOC (as C) N165ADOC |
|---------|--------|-------------------------------|--------------------------------------|--|-------------------------------|--------------------|--|
| LC0028 | N165A | ISO 7890-3; | EN ISO 6878; | turbidimetry; guide for surface water analysis; | EN ISO 10523; | | EN 1484; |
| LC0029 | N165A | | | | EN ISO 10523; C5 | | EN 1484; |
| LC0030 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | EN ISO 10523; | | EN 1484; |
| LC0031 | N165A | EN ISO 13395; | EN ISO 15681- 2; | EN ISO 10304- 1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0032 | N165A | EN ISO 13395; | EN ISO 15681- 2; | EN ISO 10304- 1; | DIN 38409-7; | EN 12260; | EN 1484; |
| LC0033 | N165A | spectrometric; UV | spectrometric; UV | spectrometric; UV | potentiometry; | calculated; | |
| LC0034 | N165A | spectrometric; | EN ISO 6878; | | | | |
| LC0035 | N165A | | | | EN ISO 10523; | | EN 1484; |
| LC0036 | N165A | EN ISO 10304-1; | | EN ISO 10304- 1; | EN ISO 10523; | EN ISO 11905-1; | EN 1484; |
| LC0037 | N165A | IC; | photometry; | IC; | potentiometry; | | combustion; |
| LC0038 | N165A | | EN ISO 6878; D11 | | | | EN 1484; H3 |
| LC0039 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | EN ISO 10523; | EN 12260; | EN 1484; thermal catalytic oxidation |
| LC0040 | N165A | EN ISO 10304; | ISO 15923; | EN ISO 10304; | EN ISO 10523; | EN ISO 11905; | EN 1484; |
| LC0041 | N165A | | | | EN ISO 10523; | | |
| LC0042 | N165A | EN ISO 10304-1; | EN ISO 6878; D11 | EN ISO 10304- 1; | EN ISO 10523; C5 | EN 12260; H34 | EN 1484; |
| LC0043 | N165A | | | | EN ISO 10523; | | |
| LC0044 | N165A | DIN 38405-9; | LCK 349; | DIN 38405-5; | EN ISO 10523; | | |
| LC0045 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0046 | N165A | | | | EN ISO 10523; | | |
| LC0047 | N165A | IC; | | IC; | potentiometry; pH-meter | | persulfate; |
| LC0048 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | EN ISO 10523; | | |
| LC0049 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0050 | N165A | EN ISO 10304-1; ed. | EN ISO 6878; | EN ISO 10304- 1; ed. | EN ISO 10523; DIN 19268 | | |
| LC0051 | N165A | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304- 1; | DIN 38404-5; C5 | EN 12260; | EN 1484; |
| LC0052 | N165A | EN ISO 10304-1; | EN ISO 15681- 2; | EN ISO 10304- 1; | EN ISO 10523; | EN 12260; | EN 1484; |

| LabCode | Sample | Alkalinity Ks 4,3 | Boron | Calcium | Chloride | Total-P (as PO ₄) | Total hardness |
|---------|--------|---|-------------------------------|---|-------------------------------|---|---|
| LC0001 | N165B | titrimetry; | | | | | |
| LC0002 | N165B | titrimetry; | | IC; | IC; | | IC; |
| LC0003 | N165B | DIN 38409-7; | | | ISO 15923-1; | ISO 15923-1; | DIN 38409-6; |
| LC0004 | N165B | titrimetry; | | ICP-OES; | IC; | ICP-OES; | titrimetry; |
| LC0005 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0006 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0007 | N165B | DIN 38409-6; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0008 | N165B | EN ISO 9963-1; titrimetry; modified | | EN ISO 14911; modified; IC | EN ISO 14911; modified; IC | | IC; |
| LC0009 | N165B | | | | EN ISO 10304-1; D20 | EN ISO 15681-1; D45; Oxisolv Digestion; FIAS | |
| LC0010 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | |
| LC0011 | N165B | | | photometry; Hach Lange | photometry; Hach Lange | | photometry; Hach Lange |
| LC0012 | N165B | EN ISO 9963-1; | | | DIN 38405-1; ed. | | DIN 38406-3; |
| LC0013 | N165B | | | EN ISO 11885; | EN ISO 15682; | | |
| LC0014 | N165B | DIN 38409-7; | | | | | |
| LC0015 | N165B | DIN 38409-7; titration | | | | | |
| LC0016 | N165B | EN ISO 9963-1; | EN ISO 17294-1; | EN ISO 17294-1; | EN ISO 10304-1; | EN ISO 6878; | calculated; |
| LC0017 | N165B | titrimetry; | | | titrimetry; | EN ISO 6878; UV-VIS | |
| LC0018 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 11885; | DIN 38409-6; |
| LC0019 | N165B | DIN 38409-7; H7 | | | | | |
| LC0020 | N165B | | | | | | |
| LC0021 | N165B | EN ISO 9963-1; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409; |
| LC0022 | N165B | DIN 38409-7; H7; titration | EN ISO 11885; E22; ICP-OES | EN ISO 7980; E3a; AAS | EN ISO 10304-1; D20; IC | EN ISO 6878; D11; UV | EN ISO 7980; E3a; AAS |
| LC0023 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | EN ISO 17294-2; |
| LC0024 | N165B | EN ISO 9963-1; | EN ISO 17294-2; ICP-MS | EN ISO 17294-2; ICP-MS | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 17294-2; ICP-MS |
| LC0025 | N165B | | | | EN ISO 10304-1; D20 | EN ISO 6878; D11 | |
| LC0026 | N165B | | | | | | |
| LC0027 | N165B | titration; | | IC; | IC; | photometry; | IC; |
| LC0028 | N165B | | | Trilon B; guide for surface water analysis; | ISO 9297; | EN ISO 6878; | Trilon B; guide for surface water analysis; |

| LabCode | Sample | Alkalinity Ks 4,3 | Boron | Calcium | Chloride | Total-P (as PO ₄) | Total hardness |
|---------|--------|------------------------|---------------------------|-----------------------|---------------------|-------------------------------|-------------------|
| LC0029 | N165B | DIN 38409-7; H7-2 | | | | | |
| LC0030 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0031 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 11885; | DIN 38409-6; |
| LC0032 | N165B | DIN 38409-7; | | | EN ISO 10304-1; | | |
| LC0033 | N165B | titrimetry; | ICP-OES; | titrimetry; | titrimetry; | calculated; | titrimetry; |
| LC0034 | N165B | | | | | EN ISO 6878; | |
| LC0035 | N165B | DIN 38409-7; | | | | | |
| LC0036 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 15681; | DIN 38409-6; |
| LC0037 | N165B | titration; | | titration; | IC; | photometry; | titration; |
| LC0038 | N165B | | EN ISO 17294-2; E29 | EN ISO 14911; E34 | | EN ISO 17294-2; E29 | DIN 38406-3; E3-3 |
| LC0039 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0040 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304; | ISO 15923; | EN ISO 11885; |
| LC0041 | N165B | DIN 38409-7; | | | | | |
| LC0042 | N165B | DIN 38409-7; H7 | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | DIN 4030; |
| LC0043 | N165B | | | | | | |
| LC0044 | N165B | DIN 38409-7; | | DIN 38406-3; | DIN 38405-1; | LCK 349; | DIN 38406-3; |
| LC0045 | N165B | EN ISO 9963-1; | EN ISO 17294-2; | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | EN ISO 14911; |
| LC0046 | N165B | DIN 38409-7; | | | | | |
| LC0047 | N165B | titrimetry; | photometry; | IC; | IC; | calculated; (Ca + Mg) | photometry; |
| LC0048 | N165B | | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 10304-1; | EN ISO 17294-2; | EN ISO 17294-2; |
| LC0049 | N165B | EN ISO 9963-1; | | EN ISO 14911; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; |
| LC0050 | N165B | | DIN 38405-17; ÖNORM M6606 | | EN ISO 10304-1; ed. | | |
| LC0051 | N165B | DIN 38409-7; H7-1-2 | EN ISO 11885; ICP-OES | EN ISO 11885; ICP-OES | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; H6 |
| LC0052 | N165B | DIN 38409-7; | EN ISO 11885; | EN ISO 11885; | EN ISO 10304-1; | EN ISO 6878; | DIN 38409-6; H6 |

| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
|---------|--------|---------------------------|----------------------------|--|----------------------------|----------------------------|-----------------------------------|--------------------------------|
| LC0001 | N165B | | | | | ICP-OES; | | |
| LC0002 | N165B | titrimetry; | IC; | conductometry; | IC; | IC; | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0003 | N165B | | | | | | | |
| LC0004 | N165B | titrimetry; | ICP-OES; | conductometry; | ICP-OES; | ICP-OES; | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0005 | N165B | DIN 38409-7; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | EN ISO 11732; | EN ISO 13395; |
| LC0006 | N165B | DIN 38409-7; D8 | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | ISO 7150-1; | EN ISO 13395; |
| LC0007 | N165B | DIN 38409-6; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; | EN 26777; |
| LC0008 | N165B | EN ISO 9963-1; titrimetry | EN ISO 14911; modified; IC | ISO 7888; conductometry | EN ISO 14911; modified; IC | EN ISO 14911; modified; IC | ISO 7150-1; modified; photometry; | EN 26777; modified; photometry |
| LC0009 | N165B | | | DIN 38404-8; C8; conductometry | | | EN ISO 11732; E23 | EN ISO 13395; D28; FIAS |
| LC0010 | N165B | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | DIN 38406-5; | EN 26777; |
| LC0011 | N165B | | | conductometry; | photometry; Hach Lange | | | |
| LC0012 | N165B | | | EN 27888; | | | | reflectoquant; |
| LC0013 | N165B | | ISO 9964-3; | EN 27888; | EN ISO 11885; | ISO 9964-3; | EN ISO 11732; | EN ISO 13395; |
| LC0014 | N165B | | | EN 27888; C8 | | | | |
| LC0015 | N165B | | | | | | | |
| LC0016 | N165B | calculated; | EN ISO 17294-1; | EN 27888; | EN ISO 17294-1; | EN ISO 17294-1; | ISO 7150-1; | EN 26777; |
| LC0017 | N165B | titrimetry; | | conductometry; | | | spectrometry; UV-VIS | spectrometry; UV-VIS |
| LC0018 | N165B | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |
| LC0019 | N165B | | | EN 27888; C8 | | | | |
| LC0020 | N165B | | | housemethod (SOP); SOP for pH and conductivity | | | | |
| LC0021 | N165B | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; E5 | EN 26777; |
| LC0022 | N165B | DIN 38409-7; H7 | DIN 38406-13; E13 | EN 27888; | EN ISO 7980; E3a; AAS | DIN 38406-14; E14 | DIN 38406-5; E5; UV | EN ISO 10304-1; D20; IC |
| LC0023 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | DIN 38406-5; | EN ISO 10304-1; |
| LC0024 | N165B | EN ISO 9963-1; | EN ISO 17294-2; ICP-MS | EN 27888; | EN ISO 17294-2; ICP-MS | EN ISO 17294-2; ICP-MS | EN ISO 11732; | EN ISO 13395; |

| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH4) | Nitrite (as NO2) |
|---------|--------|-----------------------------|---|--|---|---|---|--|
| LC0025 | N165B | | | | | | | EN 26777; D10 |
| LC0026 | N165B | | | | | | | EN 26777; |
| LC0027 | N165B | | IC; | conductometry; | IC; | IC; | photometry; | photometry; |
| LC0028 | N165B | | photometry; guide for surface water analysis, flame photometer method | conductivity; Guide for surface water analysis | calculated; (as difference between hardness and Ca) | photometry; guide for surface water analysis, flame photometer method | Nessler's reagent; Guide for surface water analysis | spectrophotometric; Guide for surface water analysis (griss reagent) |
| LC0029 | N165B | | | EN 27888; C8 | | | | |
| LC0030 | N165B | DIN 38409-7; | EN ISO 14911; | OENORM M 6616; | EN ISO 14911; | EN ISO 14911; | ISO 7150-1; | EN 26777; |
| LC0031 | N165B | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |
| LC0032 | N165B | | | EN 27888; | | | EN ISO 11732; | EN ISO 13395; |
| LC0033 | N165B | titrimetry; | spectrometry; UV | conductometry; | titrimetry; | ICP-OES; | spectrometry; UV | spectrometry; UV |
| LC0034 | N165B | | | | | | ISO 7150; | |
| LC0035 | N165B | | | EN 27888; | | | | |
| LC0036 | N165B | DIN 38409-7; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 11732; | EN ISO 13395; |
| LC0037 | N165B | titration; | IC; | potentiometry; | IC; | IC; | photometry; | photometry; |
| LC0038 | N165B | | EN ISO 14911; E34 | | EN ISO 14911; E34 | EN ISO 14911; E34 | | |
| LC0039 | N165B | calculated; | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | ISO 7150-1; | EN 26777; |
| LC0040 | N165B | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | ISO 15923; | ISO 15923; |
| LC0041 | N165B | DIN 38409-7; D8 | | EN 27888; | | | | |
| LC0042 | N165B | DIN 38409-7; H7 | EN ISO 17294-2; | EN 27888; | EN ISO 17294-2; | EN ISO 17294-2; | EN ISO 11732; E23 | EN 26777; D10 |
| LC0043 | N165B | | | EN 27888; | | | | |
| LC0044 | N165B | | ISO 9964-3; | EN 27888; | DIN 38406-3; | ISO 9964-3; | DIN 38406-5; (5-1) | EN 26777; |
| LC0045 | N165B | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | DIN 38406-5; | EN 26777; |
| LC0046 | N165B | calculated; | | EN 27888; | | | | EN 26777; |
| LC0047 | N165B | calculated; from alkalinity | IC; | conductometry; | IC; | IC; | photometry; | photometry; |

| | | | | | | | | |
|---------|--------|--------------------|-----------------------|-------------------------|-----------------------|-----------------------|--------------------------------|-------------------------------|
| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
| LC0048 | N165B | EN ISO 9963-1; | EN ISO 17294-2; | ISO 7888; | EN ISO 17294-2; | EN ISO 17294-2; | Meth. 33045; | ISO 6777; |
| LC0049 | N165B | EN ISO 9963-1; | EN ISO 14911; | EN 27888; | EN ISO 14911; | EN ISO 14911; | ISO 7150-1; | EN 26777; |
| LabCode | Sample | Hydrogen carbonate | Potassium | El. conductivity (25°C) | Magnesium | Sodium | Ammonium (as NH ₄) | Nitrite (as NO ₂) |
| LC0050 | N165B | | | EN 27888; | | | DIN 38406-5; ISO 7150-1 | EN 26777; |
| LC0051 | N165B | calculated; | EN ISO 11885; ICP-OES | EN 27888; | EN ISO 11885; ICP-OES | EN ISO 11885; ICP-OES | DIN 38406-5; E5-1 | EN 26777; |
| LC0052 | N165B | DIN 38409-7; | EN ISO 11885; | EN 27888; | EN ISO 11885; | EN ISO 11885; | EN ISO 11732; | EN ISO 13395; |

| LabCode | Sample | Nitrate (as NO ₃) | Orthophosphate (as PO ₄) | Sulfate (as SO ₄) | pH-value | Total nitrogen | DOC (as C) N165ADOC |
|---------|--------|-------------------------------|--------------------------------------|-------------------------------|--|---|--|
| LC0001 | N165B | | | | | | |
| LC0002 | N165B | IC; | | IC; | potentiometry; pH-meter | | combustion; |
| LC0003 | N165B | | | ISO 15923-1; | | | |
| LC0004 | N165B | IC; | | IC; | potentiometry; pH-meter | | |
| LC0005 | N165B | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; EN ISO 20236 | EN 1484; |
| LC0006 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN ISO 11905-1; | EN 1484; |
| LC0007 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | DIN 38409-6; | | EN 1484; |
| LC0008 | N165B | EN ISO 14911; modified; IC | EN ISO 6878; modified; photometry | EN ISO 14911; modified; IC | EN ISO 10523; pH meter | | |
| LC0009 | N165B | EN ISO 10304-1; D20 | EN ISO 15681-1; D45; FIAS | EN ISO 10304-1; D20 | DIN 38404-5; C5; potentiometry | EN ISO 10304-1; D20; Oxisolv Digestion IC | EN 1484; H3; catalytic combustion NDIR |
| LC0010 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0011 | N165B | photometry; Hach Lange | | photometry; Hach Lange | EN ISO 10523; potentiometry | | |
| LC0012 | N165B | reflectoquant; | | | DIN 51369; | | |
| LC0013 | N165B | EN ISO 13395; | EN ISO 15681-2; | ISO 22743; | EN ISO 10523; | | EN 1484; |
| LC0014 | N165B | | | | EN ISO 10523; C5 | | |
| LC0015 | N165B | | | | | | EN 1484; IR |
| LC0016 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0017 | N165B | spectrometric; UV-VIS | spectrometric; UV-VIS | | potentiometry; pH-meter | | |
| LC0018 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0019 | N165B | | | | EN ISO 10523; C5 | | |
| LC0020 | N165B | | | | housemethod (SOP); SOP for pH and conductivity | | |
| LC0021 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | oxidation (CLD); | EN 1484; |
| LC0022 | N165B | EN ISO 10304-1; D20; IC | EN ISO 10304-1; D20; IC | EN ISO 10304-1; D20; IC | EN ISO 10523; C5 | EN ISO 11905-1; H36; IC | EN 1484; H3 |
| LC0023 | N165B | EN ISO 10304-1; | EN ISO 10304-1; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0024 | N165B | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0025 | N165B | EN ISO 10304-1; D20 | EN ISO 6878; D11 | EN ISO 10304-1; D20 | | | |
| LC0026 | N165B | | | | | | |

| LabCode | Sample | Nitrate (as NO3) | Orthophosphate (as PO4) | Sulfate (as SO4) | pH-value | Total nitrogen | DOC (as C) N165ADOC |
|---------|--------|----------------------|-------------------------|--|----------------------------|------------------|---|
| LC0027 | N165B | photometry; | photometry; | IC; | potentiometry; pH-meter | TOC-N analyzer; | TOC-N analyzer; |
| LC0028 | N165B | ISO 7890-3; | EN ISO 6878; | turbidimetry; guide for surface water analysis; | EN ISO 10523; | | EN 1484; |
| LC0029 | N165B | | | | EN ISO 10523; C5 | | EN 1484; |
| LC0030 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | EN 1484; |
| LC0031 | N165B | EN ISO 13395; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0032 | N165B | EN ISO 13395; | EN ISO 15681-2; | EN ISO 10304-1; | DIN 38409-7; | EN 12260; | EN 1484; |
| LC0033 | N165B | spectrometric; UV | spectrometric; UV | spectrometric; UV | potentiometry; | calculated; | |
| LC0034 | N165B | spectrometric; | EN ISO 6878; | | | | |
| LC0035 | N165B | | | | EN ISO 10523; | | EN 1484; |
| LC0036 | N165B | EN ISO 10304-1; | EN ISO 15681; | EN ISO 10304-1; | EN ISO 10523; | EN ISO 11905-1; | EN 1484; |
| LC0037 | N165B | IC; | photometry; | IC; | potentiometry; | | combustion; |
| LC0038 | N165B | | EN ISO 6878; D11 | | | | EN 1484; H3 |
| LC0039 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; thermal catalytic oxidation |
| LC0040 | N165B | EN ISO 10304; | ISO 15923; | EN ISO 10304; | EN ISO 10523; | EN ISO 11905; | EN 1484; |
| LC0041 | N165B | | | | EN ISO 10523; | | |
| LC0042 | N165B | EN ISO 10304-1; | EN ISO 6878; D11 | EN ISO 10304-1; | EN ISO 10523; C5 | EN 12260; H34 | EN 1484; |
| LC0043 | N165B | | | | EN ISO 10523; | | |
| LC0044 | N165B | DIN 38405-9; | LCK 349; | DIN 38405-5; | EN ISO 10523; | | |
| LC0045 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0046 | N165B | | | | EN ISO 10523; | | |
| LC0047 | N165B | IC; | | IC; | potentiometry; pH-meter | | persulfate; |
| LC0048 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | | |
| LC0049 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |
| LC0050 | N165B | EN ISO 10304-1; ed. | EN ISO 6878; | EN ISO 10304-1; ed. | EN ISO 10523; DIN 19268 | | |
| LC0051 | N165B | EN ISO 10304-1; | EN ISO 6878; | EN ISO 10304-1; | DIN 38404-5; C5 | EN 12260; | EN 1484; |
| LC0052 | N165B | EN ISO 10304-1; | EN ISO 15681-2; | EN ISO 10304-1; | EN ISO 10523; | EN 12260; | EN 1484; |