

**Proficiency Testing Scheme für die  
Wasseranalytik - Realproben  
P20 Polyzyklische Aromatische  
Kohlenwasserstoffe (PAK)**

**Proficiency Testing Scheme for Water  
Analysis - natural water samples  
P20 Polycyclic aromatic hydrocarbons (PAH)**

**BERICHT / REPORT**

Probenversand / Sample dispatch: 07.05.2019

**Ausgabe / Edition 1 – 17.12.2019**

Dieser Report umfasst 232 Seiten.  
This report comprises 232 pages.

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Technical 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 Teilnehmer .....                               | 5  |
| 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 <sub>n</sub> -Score .....                     | 8  |
| D2.3.  Leistungsbewertung z-Score und E <sub>n</sub> -Score.....          | 9  |
| D3. Darstellung und Interpretation der Messergebnisse.....                | 9  |
| D4. Anmerkungen zur Auswertung.....                                       | 10 |
| D5. Erläuterung zu Tabellen und Grafiken .....                            | 10 |
| D5.1.  Angaben und Abkürzungen in Tabellen.....                           | 11 |
| D5.2.  Graphische Darstellung der Ergebnisse .....                        | 13 |
| D6. Zusammenfassung .....   | 16 |
| D6.1.  Tabelle der zugewiesenen Werte .....                               | 16 |
| D6.2.  Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse .. | 17 |
| E1. Description of the proficiency test.....                              | 19 |
| E1.1.  Design and implementation .....                                    | 19 |
| E1.2.  Description of the proficiency test items .....                    | 19 |
| E1.3.  Instructions for the participants.....                             | 19 |
| E1.4.  Control testing for homogeneity evaluation.....                    | 20 |
| E1.5.  Trend test for stability evaluation .....                          | 20 |
| E1.6.  Determination of the assigned values.....                          | 21 |
| E2. Criteria of performance evaluation .....                              | 22 |
| E2.1.  Performance criterion z-Score .....                                | 22 |
| E2.2.  Performance criterion E <sub>n</sub> -Score .....                  | 22 |
| E2.3.  Performance evaluation z-Score and E <sub>n</sub> -Score .....     | 23 |
| E3. Representation and interpretation of measurement results.....         | 24 |
| E4. Explanatory notes.....  | 24 |

|  |     |
|--|-----|
| E5. Annotations on tables and charts .....                           | 25  |
| E5.1. Information and abbreviations in tables .....                  | 25  |
| E5.2. Graphical presentation of results .....                        | 26  |
| E6. Summary .....  | 30  |
| E6.1. Table of assigned values .....                                 | 30  |
| E6.2. Summary of results, after removal of outliers.....             | 31  |
| E7. Parameterorientierte Auswertung / Parameter oriented report..... | 33  |
| E8. Labororientierte Auswertung / Laboratory oriented report.....    | 156 |

## **D1. Beschreibung des Ringversuchs**

### **D1.1. Ausgestaltung und Durchführung**

- Anzahl der Anmeldungen: 19
- Anzahl der übermittelten Datensätze: 17
- Probenversand: 07.05.2019
- Einsendeschluss der Daten: 04.06.2019

Die Ergebnisabgabe erfolgte auf elektronischem Weg mittels passwortgeschützter Online-Dateneingabe. Beim Abschluss der Dateneingabe bestätigte der Teilnehmer 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 Leitungswasser und Grundwasser erfolgte am 06.05.2019.

Das Probenmaterial umfasste:

- 1 Probe synthetisches Wasser (P20 A)
- 1 Probe Grundwasser (P20 B)

Alle Proben wurden bis zur weiteren Verarbeitung bei  $< 4$  °C gelagert. Die o.a. Proben wurden zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die homogenen Prüfgegenstände wurden am 07.05.2019 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je 2000 ml, abgefüllt in jeweils 2 x 1000 ml Braunglas-Flaschen

### **D1.3. Anweisungen für die Teilnehmer**

Aus Stabilitätsgründen wurde empfohlen bis spätestens 09.05.2019 mit den Analysen zu beginnen.

Den Teilnehmern stand die Wahl der Analysenmethode bzw. der verwendeten Norm frei, welche mit ihrem Routineverfahren übereinstimmen sollte.

#### **D1.4. Kontrollanalytik zur Bewertung der Homogenität**

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

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

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

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

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

#### **D1.5. Trendtest zur Bewertung der Stabilität**

Die Bewertung der Stabilität der Prüfgegenstände (Realproben) erfolgte auf Basis der Datenstatistik aus den vergangenen Runden für Realproben im Zeitraum 2017 bis 2018.

Um die ausreichende Stabilität der Prüfgegenstände der aktuellen Eignungsprüfungsrunde bis zum Abgabetermin zu überprüfen, wurde die Darstellung der Teilnehmerergebnisse nach Analysendatum ausgewertet und auf systematische Trends geprüft (unauffällig). Durch Darstellung der Teilnehmerergebnisse 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 04.06.2019 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

Im Zuge der Plausibilitätsprüfung der Daten (z.B. Check korrekte Einheiten, Messunsicherheitsangabe, ...) wurden die Teilnehmer 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 DIN 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 Teilnehmerergebnisse von über 50 % und/oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmer auf den Mittelwert des Kontrolllabores, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der Teilnehmerergebnisse für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmer 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<br>Sollwert für die Leistungsbewertung der Teilnehmer (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Teilnehmerergebnisse. 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 für PAK im Zeitraum 2017 bis 2018 (RSDpooled) bzw. aus den ausreißerbereinigten Teilnehmerergebnissen (sR) des aktuellen Ringversuchs.<br>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<sub>n</sub>-Score

Für die realen Wasserproben erfolgen neu ab 2019 zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmer und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E<sub>n</sub>-Score. Diese Auswertungen werden für die Teilnehmer im Bericht unter Punkt E8, jeweils im Anschluss an die z-Score Auswertung dargestellt.

Die Ermittlung der E<sub>n</sub>-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<br>Sollwert für die Leistungsbewertung der Teilnehmer (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Teilnehmerergebnisse. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben. |
| $U(x_i)$     | erweiterte Messunsicherheit des Messergebnisses (Teilnehmerergebnis)  |
| $U(\bar{X})$ | erweiterte Messunsicherheit des zugewiesenen Wertes   |

### 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 Teilnehmer 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 Teilnehmer und des zugewiesenen Wertes.  $|E_n\text{-Score}| > 1.0$  können darauf hinweisen, dass die Unsicherheitschätzungen 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 0 entnommen werden.

#### **D4. Anmerkungen zur Auswertung**

Wie unter Punkt D2 ersichtlich, können die z-Scores auch unter Einbeziehung der Vergleichsstandardabweichung der ausreißerbereinigten Teilnehmerergebnisse 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 Teilnehmerergebnisse dazu, dass z-Score - 2 bis z-Score + 2 einen ungewöhnlich kleinen Wiederfindungsbereich abdeckt.

Als Ergebnis einer Auswertung über aktuell 2 Eignungsprüfungsrunden (2017, 2018) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Anthracen, Probe P20 A: Die Bewertung dient nur zu Informationszwecken, da der von Ausreißern bereinigte Mittelwert der Ergebnisse der Teilnehmer nicht im Bereich der Messunsicherheit des Kontrollwertes liegt und dadurch die Rückführbarkeit nicht gewährleistet ist.

Parameter Benz(a)pyren, Probe P20 A: Die relative Vergleichsstandardabweichung betrug hier 32 %. Daher wurde das berechnete Kriterium der bisherigen Auswertung mit 23 % gewählt.

Parameter Dibenzo(a,h)anthracen, Probe P20 A und P20 B: Es wurde die relative Vergleichsstandardabweichung der aktuellen Runde mit 20 % für Probe P20 A und 28 % für Probe P20 B als Kriterium gewählt.

Parameter Benzo(g,h,i)perylen, Proben P20 A: Das berechnete Kriterium der bisherigen Auswertung betrug hier 33 %. Es wurde für die Bewertung die relative Vergleichsstandardabweichung mit 22 % für Probe P20 A als Kriterium gewählt.

Parameter Benzo(g,h,i)perylen, Proben P20 B: Die relative Vergleichsstandardabweichung betrug hier 37 %. Es wurde das berechnete Kriterium der bisherigen Auswertung mit 33 % gewählt.

Für alle anderen Parameter wurde als Kriterium für die Berechnung des z-Scores das jeweils höhere Kriterium von der aktuellen Vergleichsstandardabweichung und dem berechneten Kriterium der bisherigen Auswertung gewählt.

## 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 Teilnehmer (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 Teilnehmerergebnisse (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 Teilnehmerergebnissen des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)   |
| vR                     | relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Teilnehmerergebnissen des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen) |
| Kontrollwert ± U (k=2) | Mittelwert der Kontrollmessungen des Veranstalters ±  |

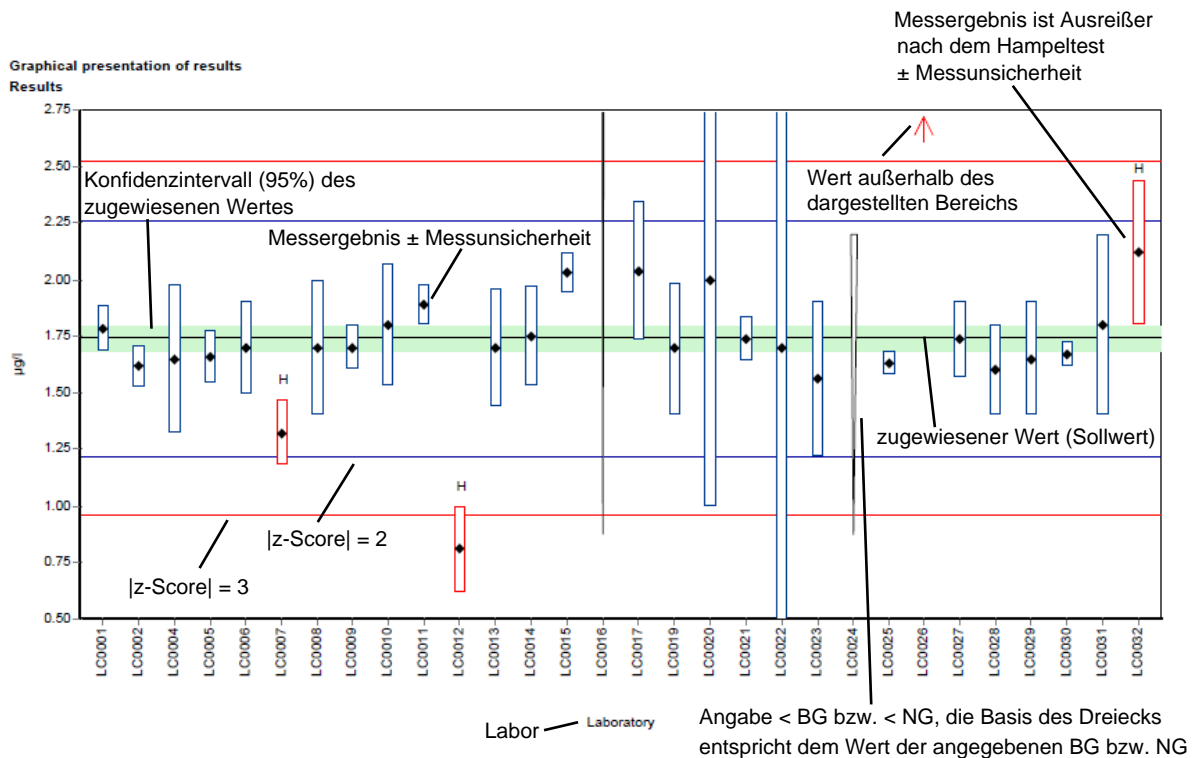
|                       |   |
|-----------------------|---|
|                       | erweiterte Ergebnisunsicherheit des Kontrollwertes (jeweils angegeben auf 3 signifikante Stellen)   |
| Laborcode             | anonymisierte, eindeutige Teilnehmerkennung im jeweiligen Ringversuch   |
| Messwert              | einzelne(r) Messwert(e) lt. Teilnehmerangabe (maximal 5 Nachkommastellen dargestellt)   |
| Messergebnis          | Für die Bewertung herangezogenes Ergebnis lt. Teilnehmerangabe (maximal 5 Nachkommastellen dargestellt).<br>Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmer.   |
| ± U                   | Ergebnisunsicherheit lt. Teilnehmerangabe (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 <sub>n</sub> -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 Teilnehmer (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen).<br>Beim E <sub>n</sub> -Score erfolgt die Berücksichtigung der Messunsicherheit der Teilnehmer. |
| -                     | 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 Bestimmungsbzw. 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 Teilnehmerergebnissen des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
- rel. Standardabweichung relative Vergleichsstandardabweichung in %, berechnet aus den Teilnehmerergebnissen des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)
- n Anzahl der Messergebnisse

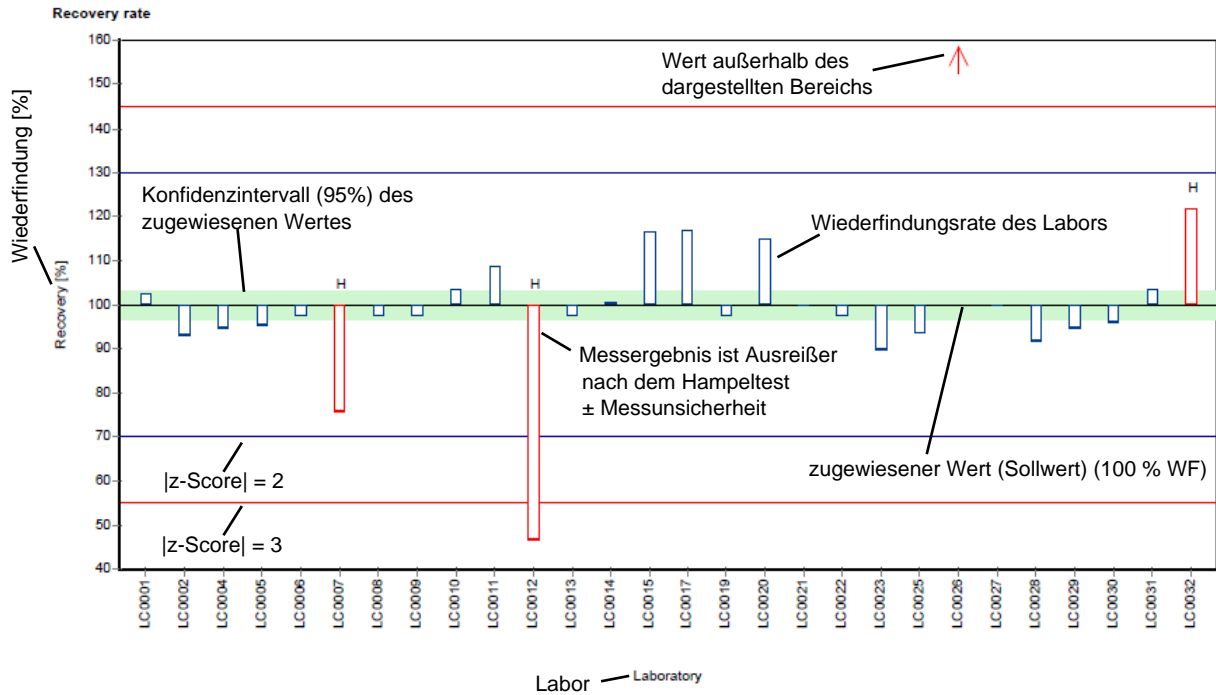
## D5.2. Graphische Darstellung der Ergebnisse

Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

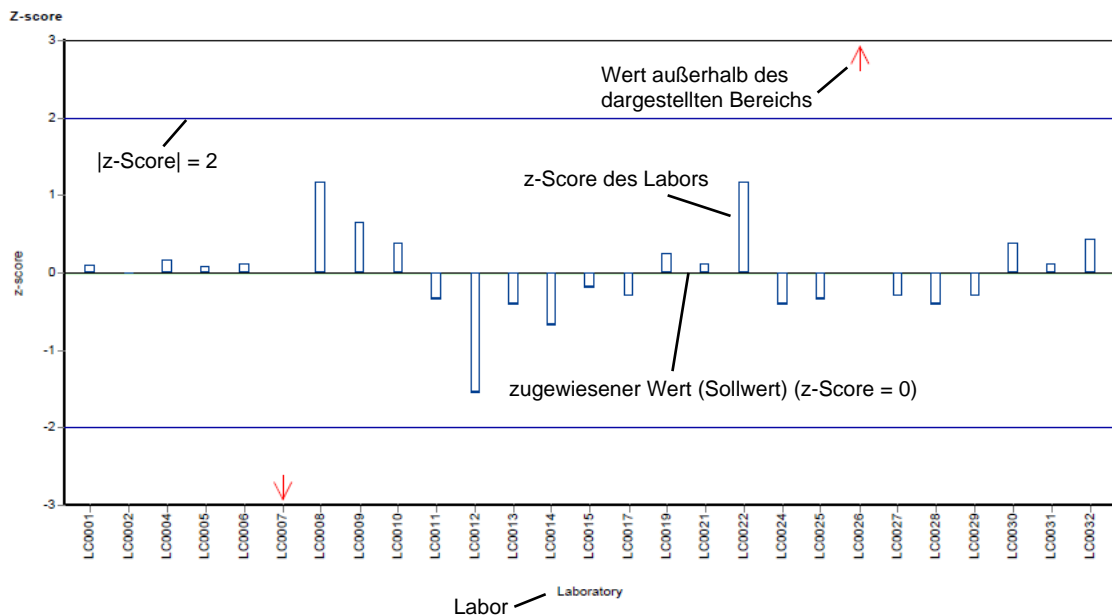
### Beispieldiagramm: Messwerte



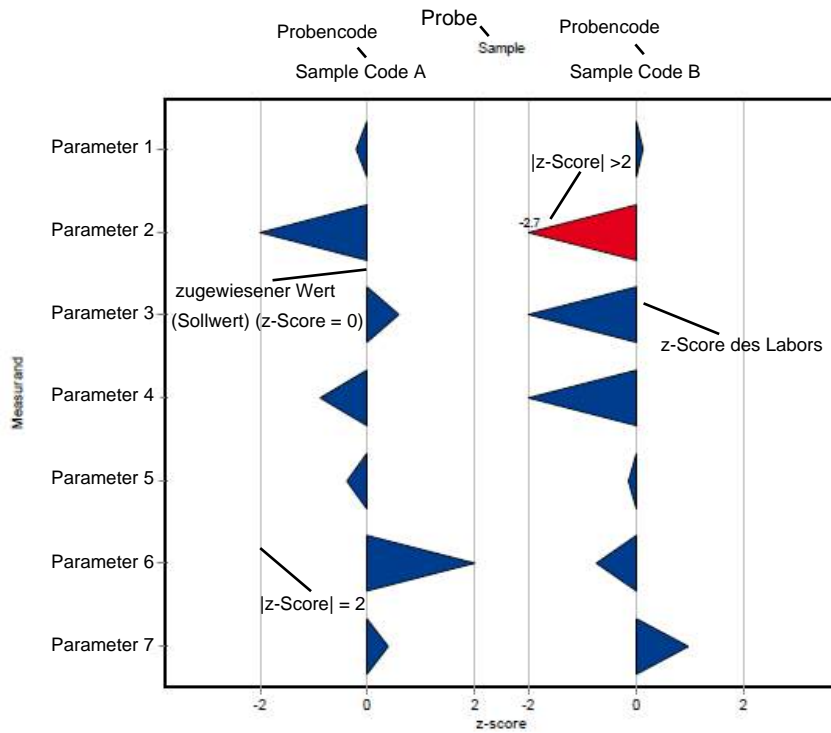
### Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



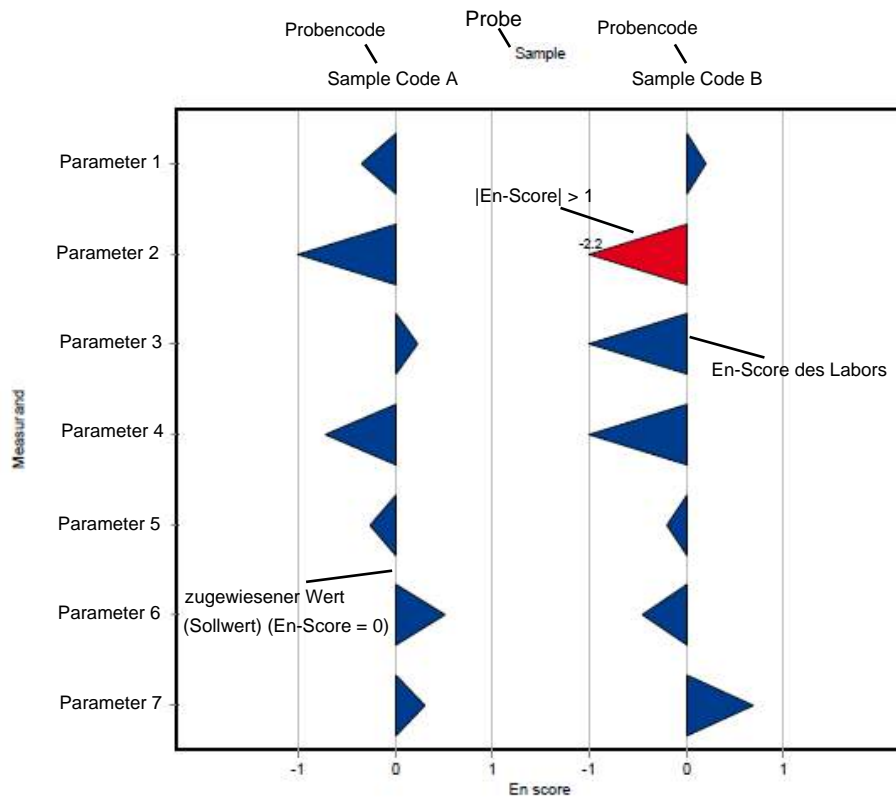
### Beispieldiagramm: z-Score



**Beispieldiagramm: z-Score (labororientierte Auswertung)**



**Beispieldiagramm: En-Score (labororientierte Auswertung)**



## D6. Zusammenfassung

### D6.1. Tabelle der zugewiesenen Werte

| Parameter             | Probe | Einheit | zugewiesener Wert | ± | U (k=2) | Kriterium | Kriterium [%] |
|-----------------------|-------|---------|-------------------|---|---------|-----------|---------------|
| Acenaphthen           | P20 A | ng/l    | 124               | ± | 14.2    | 27.5      | 22            |
|                       | P20 B | ng/l    | 10.4              | ± | 1.38    | 1.98      | 19            |
| Acenaphthylen         | P20 A | ng/l    | 244               | ± | 30.9    | 56.1      | 23            |
|                       | P20 B | ng/l    | -                 | ± | -       | -         | -             |
| Anthracen             | P20 A | ng/l    | -                 | ± | -       | -         | -             |
|                       | P20 B | ng/l    | 33.4              | ± | 2.14    | 8         | 24            |
| Benzo[a]anthracen     | P20 A | ng/l    | 40.9              | ± | 5.55    | 10.4      | 25            |
|                       | P20 B | ng/l    | 9.26              | ± | 0.668   | 1.67      | 18            |
| Benzo[a]pyren         | P20 A | ng/l    | 57.6              | ± | 9.56    | 13.3      | 23            |
|                       | P20 B | ng/l    | 9.87              | ± | 1.48    | 2.27      | 23            |
| Benzo[b]fluoranthen   | P20 A | ng/l    | 185               | ± | 12.1    | 33.3      | 18            |
|                       | P20 B | ng/l    | 6.38              | ± | 0.696   | 1.15      | 18            |
| Benzo[g,h,i]perylene  | P20 A | ng/l    | 203               | ± | 23.4    | 45.4      | 22            |
|                       | P20 B | ng/l    | 19.6              | ± | 4.4     | 6.47      | 33            |
| Benzo[k]fluoranthen   | P20 A | ng/l    | 204               | ± | 25.3    | 55.1      | 27            |
|                       | P20 B | ng/l    | 33.3              | ± | 3.57    | 9         | 27            |
| Chrysen               | P20 A | ng/l    | 202               | ± | 12.8    | 38.4      | 19            |
|                       | P20 B | ng/l    | 42.6              | ± | 3.58    | 8.09      | 19            |
| Dibenzo[a,h]anthracen | P20 A | ng/l    | 67.1              | ± | 7.04    | 13.2      | 20            |
|                       | P20 B | ng/l    | 26.1              | ± | 4.09    | 7.37      | 28            |
| Fluoranthen           | P20 A | ng/l    | 125               | ± | 8.6     | 23.7      | 19            |
|                       | P20 B | ng/l    | 29.2              | ± | 2.5     | 5.54      | 19            |
| Fluoren               | P20 A | ng/l    | 158               | ± | 9.33    | 20.6      | 13            |
|                       | P20 B | ng/l    | 26.3              | ± | 2.42    | 4.36      | 17            |
| Indeno[1,2,3-cd]pyren | P20 A | ng/l    | -                 | ± | -       | -         | -             |
|                       | P20 B | ng/l    | -                 | ± | -       | -         | -             |
| Naphthalin            | P20 A | ng/l    | 87.6              | ± | 4.77    | 21        | 24            |
|                       | P20 B | ng/l    | 42.6              | ± | 3.86    | 10.2      | 24            |
| Phenanthren           | P20 A | ng/l    | 274               | ± | 13.2    | 41.1      | 15            |
|                       | P20 B | ng/l    | 47.4              | ± | 4       | 7.48      | 16            |
| Pyren                 | P20 A | ng/l    | 175               | ± | 13.6    | 29.8      | 17            |
|                       | P20 B | ng/l    | 20.6              | ± | 0.83    | 3.51      | 17            |



## D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

| Parameter             | Probe | Anzahl Labors für Berechnung | Anzahl Ausreißer Labors | Einheit | Mittelwert | ± VB (99%) | Minimum | Maximum | sR    | vR [%] |
|-----------------------|-------|------------------------------|-------------------------|---------|------------|------------|---------|---------|-------|--------|
| Acenaphthen           | P20 A | 15                           | 0                       | ng/l    | 124        | ± 21.3     | 78      | 177     | 27.5  | 22     |
|                       | P20 B | 7                            | 0                       | ng/l    | 10.4       | ± 2.07     | 7.6     | 12.9    | 1.82  | 18     |
| Acenaphthylen         | P20 A | 12                           | 1                       | ng/l    | 244        | ± 46.4     | 162     | 373     | 53.6  | 22     |
|                       | P20 B | 5                            | 2                       | ng/l    | -          | ± -        | 10      | 22.4    | -     | -      |
| Anthracen             | P20 A | 15                           | 0                       | ng/l    | 58.3       | ± 11.9     | 30      | 77.4    | 15.3  | 26     |
|                       | P20 B | 13                           | 0                       | ng/l    | 33.4       | ± 3.2      | 28.4    | 40.8    | 3.85  | 12     |
| Benzo[a]anthracen     | P20 A | 14                           | 0                       | ng/l    | 40.9       | ± 8.33     | 20      | 55      | 10.4  | 25     |
|                       | P20 B | 9                            | 0                       | ng/l    | 9.26       | ± 1        | 7.6     | 10.4    | 1     | 11     |
| Benzo[a]pyren         | P20 A | 15                           | 1                       | ng/l    | 57.6       | ± 14.3     | 26      | 85      | 18.5  | 32     |
|                       | P20 B | 9                            | 2                       | ng/l    | 9.87       | ± 2.22     | 6.2     | 13.3    | 2.22  | 22     |
| Benzo[b]fluoranthen   | P20 A | 13                           | 3                       | ng/l    | 185        | ± 18.2     | 150     | 233     | 21.9  | 12     |
|                       | P20 B | 6                            | 2                       | ng/l    | 6.38       | ± 1.04     | 5.1     | 7       | 0.852 | 13     |
| Benzo[g,h,i]perylene  | P20 A | 15                           | 1                       | ng/l    | 203        | ± 35.2     | 101     | 278     | 45.4  | 22     |
|                       | P20 B | 11                           | 1                       | ng/l    | 19.6       | ± 6.6      | 12      | 37      | 7.3   | 37     |
| Benzo[k]fluoranthen   | P20 A | 16                           | 0                       | ng/l    | 204        | ± 37.9     | 91      | 282     | 50.6  | 25     |
|                       | P20 B | 14                           | 0                       | ng/l    | 33.3       | ± 5.35     | 20      | 42.8    | 6.68  | 20     |
| Chrysen               | P20 A | 14                           | 1                       | ng/l    | 202        | ± 19.2     | 137     | 230     | 24    | 12     |
|                       | P20 B | 14                           | 0                       | ng/l    | 42.6       | ± 5.37     | 26      | 51.2    | 6.69  | 16     |
| Dibenzo[a,h]anthracen | P20 A | 14                           | 0                       | ng/l    | 67.1       | ± 10.6     | 40      | 86      | 13.2  | 20     |
|                       | P20 B | 13                           | 0                       | ng/l    | 26.1       | ± 6.13     | 10      | 35      | 7.37  | 28     |
| Fluoranthen           | P20 A | 15                           | 0                       | ng/l    | 125        | ± 12.9     | 82.3    | 143     | 16.7  | 13     |
|                       | P20 B | 13                           | 0                       | ng/l    | 29.2       | ± 3.75     | 20      | 37      | 4.51  | 15     |
| Fluoren               | P20 A | 15                           | 0                       | ng/l    | 158        | ± 14       | 135     | 196     | 18.1  | 11     |
|                       | P20 B | 13                           | 0                       | ng/l    | 26.3       | ± 3.63     | 16.5    | 33.1    | 4.36  | 17     |
| Indeno[1,2,3-cd]pyren | P20 A | 2                            | 0                       | ng/l    | -          | ± -        | 8.02    | 34.3    | -     | -      |
|                       | P20 B | 2                            | 0                       | ng/l    | -          | ± -        | 4.4     | 33.6    | -     | -      |

| Parameter   | Probe | Anzahl Labors für Berechnung | Anzahl Ausreißer Labors | Einheit | Mittelwert | ± VB (99%) | Minimum | Maximum | sR   | vR [%] |
|-------------|-------|------------------------------|-------------------------|---------|------------|------------|---------|---------|------|--------|
| Naphthalin  | P20 A | 12                           | 1                       | ng/l    | 87.6       | ± 7.15     | 70      | 98.6    | 8.26 | 9.4    |
|             | P20 B | 11                           | 0                       | ng/l    | 42.6       | ± 5.78     | 31.4    | 50      | 6.39 | 15     |
| Phenanthren | P20 A | 15                           | 0                       | ng/l    | 274        | ± 19.8     | 229     | 316     | 25.5 | 9.3    |
|             | P20 B | 14                           | 0                       | ng/l    | 47.4       | ± 6        | 30.8    | 58.5    | 7.48 | 16     |
| Pyren       | P20 A | 15                           | 0                       | ng/l    | 175        | ± 20.4     | 122     | 213     | 26.3 | 15     |
|             | P20 B | 11                           | 1                       | ng/l    | 20.6       | ± 1.25     | 18.4    | 23      | 1.38 | 6.7    |

## **E1. Description of the proficiency test**

### **E1.1. Design and implementation**

- Number of registrations: 19
- Number of submitted data records: 17
- Dispatch of samples: 7<sup>th</sup> May 2019
- Closing date for submission of data: 4<sup>th</sup> June 2019

The results were submitted electronically through 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 assigned a laboratory code on a random basis.

### **E1.2. Description of the proficiency test items**

The sampling of tap water and ground water was carried out on 6<sup>th</sup> May 2019.

The following samples were made available:

- 1 sample synthetic water (P20 A)
- 1 sample ground water (P20 B)

Both samples were stored at < 4 °C until further processing.

The samples were partly spiked with specific substances and filled into bottles under continuous stirring (stirring vessel) to obtain homogeneous samples.

The homogeneous proficiency test items were dispatched on 7<sup>th</sup> May 2019.

All participating laboratories received:

- 2 samples of 2000 ml each, filled in 2x 1000 ml brownglas-bottles each

### **E1.3. Instructions for the participants**

For reasons of stability, it was recommended to start the analysis by the 9<sup>th</sup> May 2019 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.

#### **E1.4. Control testing for homogeneity evaluation**

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

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

During evaluation, the relative standard deviation between the individual results of the control test samples was assessed and compared with the reproducibility standard deviation of the current 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 data statistics of previous results of proficiency testing rounds for real water samples during the period 2017 to 2018.

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 participant 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 from 2017 to 2018 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 4<sup>th</sup> June 2019. 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,...) 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 DIN 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 of 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.

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 assurance, the participants can compare their results to 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 based on 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 2017 to 2018 (PAH, as RSD pooled) or from the participants' results after removal of outliers (sR) in the current round.

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<sub>n</sub>-Score

New for the 2019 proficiency testing of real water samples is the additional assessment of the participants' results using E<sub>n</sub>-Scores. 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<sub>n</sub>-Scores were calculated based on 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<br>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   |
| $U(\bar{X})$ | expanded measurement uncertainty for the assigned value   |

### E2.3. Performance evaluation z-Score and E<sub>n</sub>-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 the results of participants and the assigned value is evaluated by the criteria.

#### Interpretation of E<sub>n</sub>-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<sub>n</sub>-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 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 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 the evaluation of  $E_n$ -Scores on separate pages.

The tables also contain the evaluation basis such as the assigned values including 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 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 an evaluation of 2 proficiency testing rounds (2017, 2018) in real samples, evaluation criteria (RSD<sub>pool</sub>) were calculated. These criteria were compared with the relative reproducibility standard deviation (sR) of the current proficiency testing.

Parameter Anthracene, sample P20 A: Assessment is used for informational purposes only, since the outlier adjusted mean value of participant results is not within range of the measurement uncertainty of the control value and thereby the traceability is not guaranteed.

Parameter Benz(a)pyrene, sample P20 A: The relative reproducibility standard deviation was 32%. The calculated criterion of evaluation was chosen to be 23%.

Parameter Dibenzo(a,h)anthracene, sample P20 A and P20 B: The relative reproducibility standard deviation of the current round was chosen, 20% for sample P20 A and 28% for sample P20 B as a criterion.



Parameter Benzo(g,h,i)perylene, sample P20 A: The calculated criterion of evaluation was 33%. The relative reproducibility standard deviation of 22% for sample P20 A was chosen as the criterion.

Parameter Benzo(g,h,i)perylene, sample P20 B: The relative reproducibility standard deviation was 37%. Therefore, the calculated criterion of evaluation was chosen to be 33%.

For all other parameters, the higher criterion of the current relative reproducibility standard deviation and the calculated criterion of evaluation was selected as the criterion for calculating the z-score.

## E5. Annotations on tables and charts

### E5.1. Information and abbreviations in tables

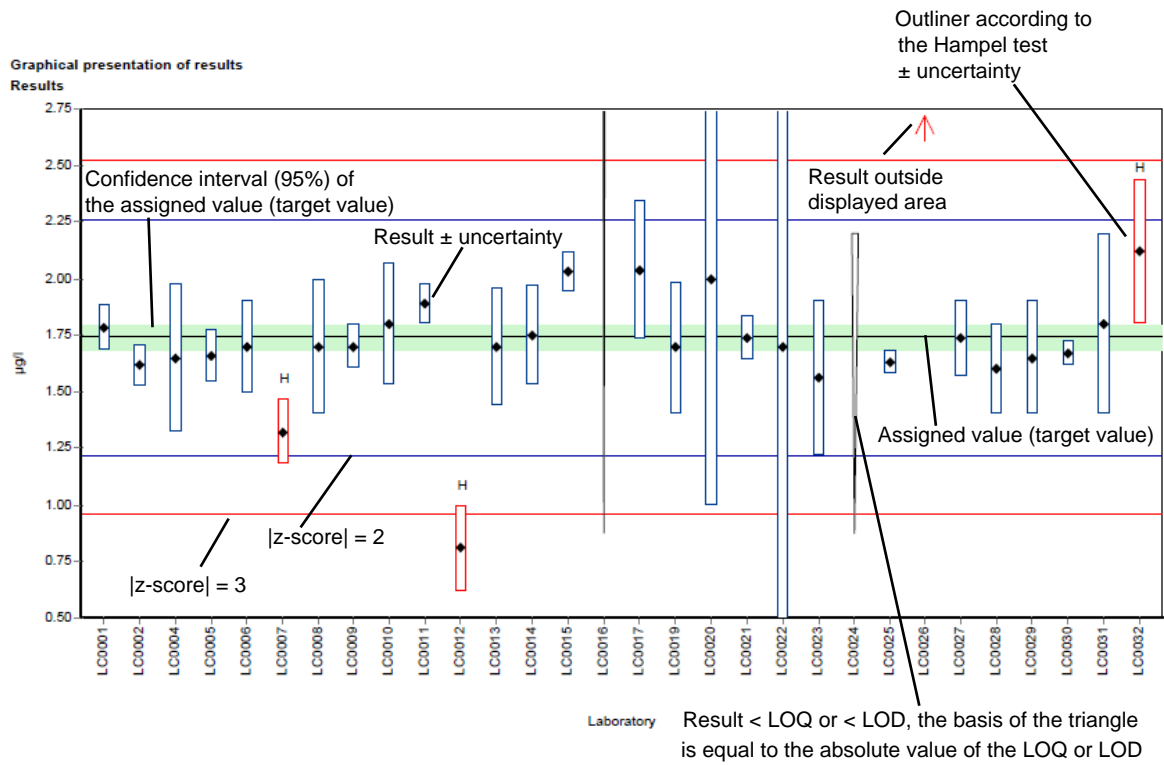
|                              |   |
|------------------------------|---|
| Parameter                    | Analyte identifier  |
| Sample                       | Sample identifier   |
| Unit                         | Given unit for result and uncertainty (e.g. µg/l)   |
| Assigned value               | 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)   |
| Criterion                    | Specified value for the determination of the z-score in the given unit (3 significant digits)   |
| Criterion [%]                | Specified value for the determination of the z-score in % of the assigned value (3 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)  |
| sR                           | Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)  |
| vR [%]                       | 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                  | Result as indicated by participant (max. 5 decimal places)  |
| ± U                     | uncertainty 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 <sub>n</sub> -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).<br>Note: E <sub>n</sub> -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   |

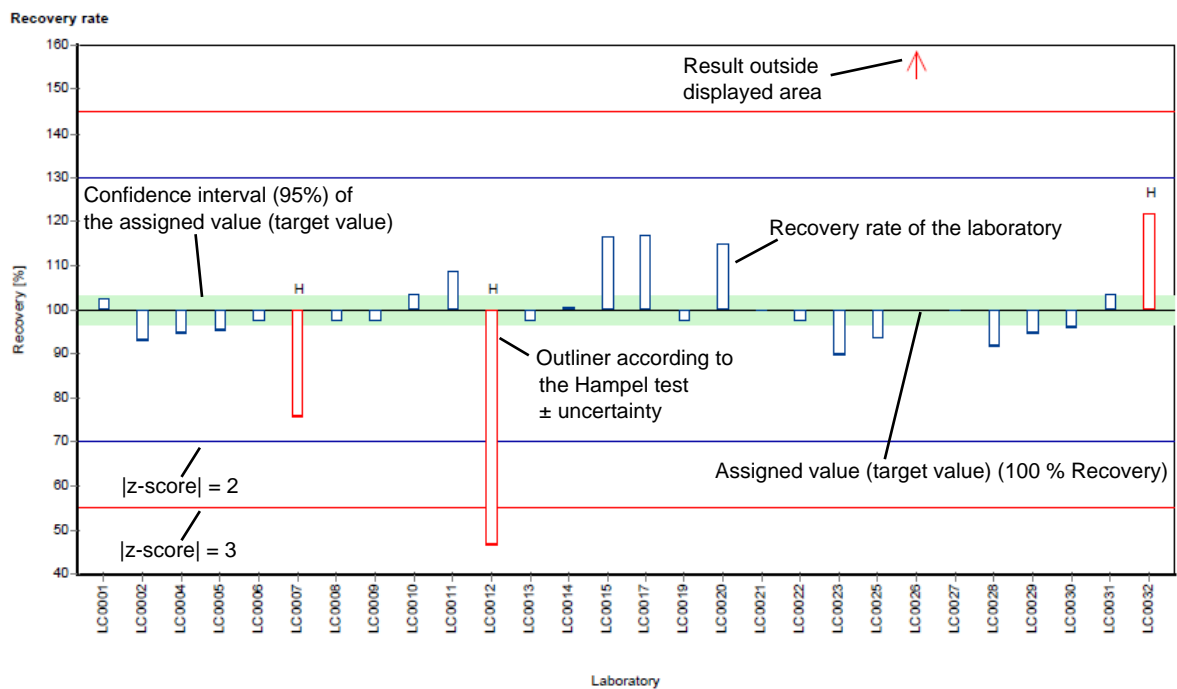
## E5.2. Graphical presentation of results

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

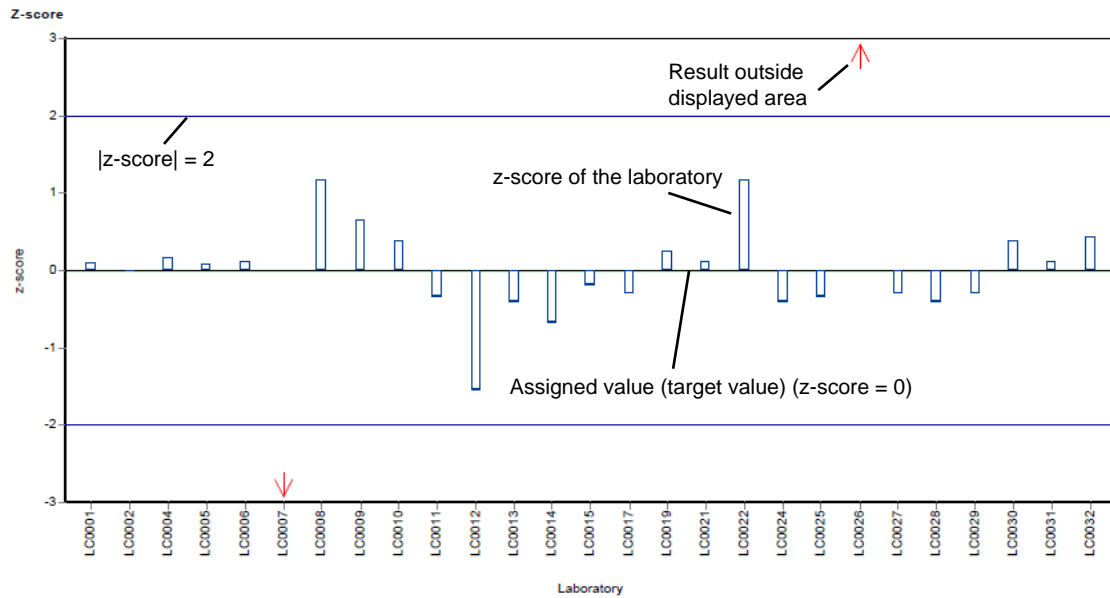
### Example chart: Results



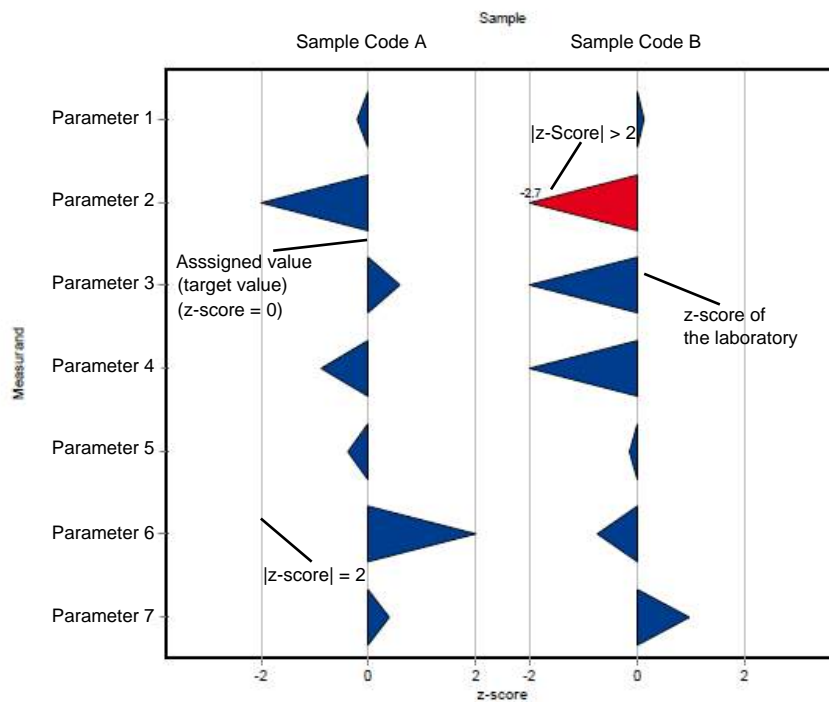
### Example chart: Recovery



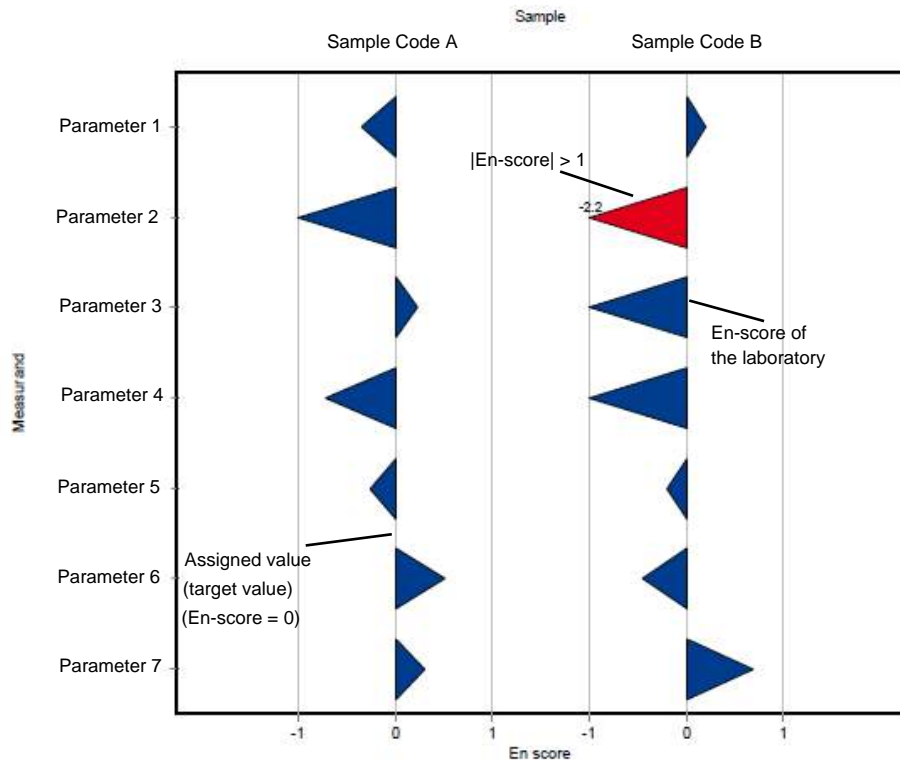
**Example chart: z-score**



**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 [%] |
|------------------------|--------|------|------------------|---------|-----------|---------------|
| Acenaphthene           | P20 A  | ng/l | 124 ±            | 14.2    | 27.5      | 22            |
|                        | P20 B  | ng/l | 10.4 ±           | 1.38    | 1.98      | 19            |
| Acenaphthylene         | P20 A  | ng/l | 244 ±            | 30.9    | 56.1      | 23            |
|                        | P20 B  | ng/l | - ±              | -       | -         | -             |
| Anthracene             | P20 A  | ng/l | - ±              | -       | -         | -             |
|                        | P20 B  | ng/l | 33.4 ±           | 2.14    | 8         | 24            |
| Benzo[a]anthracene     | P20 A  | ng/l | 40.9 ±           | 5.55    | 10.4      | 25            |
|                        | P20 B  | ng/l | 9.26 ±           | 0.668   | 1.67      | 18            |
| Benzo[a]pyrene         | P20 A  | ng/l | 57.6 ±           | 9.56    | 13.3      | 23            |
|                        | P20 B  | ng/l | 9.87 ±           | 1.48    | 2.27      | 23            |
| Benzo[b]fluoranthene   | P20 A  | ng/l | 185 ±            | 12.1    | 33.3      | 18            |
|                        | P20 B  | ng/l | 6.38 ±           | 0.696   | 1.15      | 18            |
| Benzo[g,h,i]perylene   | P20 A  | ng/l | 203 ±            | 23.4    | 45.4      | 22            |
|                        | P20 B  | ng/l | 19.6 ±           | 4.4     | 6.47      | 33            |
| Benzo[k]fluoranthene   | P20 A  | ng/l | 204 ±            | 25.3    | 55.1      | 27            |
|                        | P20 B  | ng/l | 33.3 ±           | 3.57    | 9         | 27            |
| Chrysene               | P20 A  | ng/l | 202 ±            | 12.8    | 38.4      | 19            |
|                        | P20 B  | ng/l | 42.6 ±           | 3.58    | 8.09      | 19            |
| Dibenzo[a,h]anthracene | P20 A  | ng/l | 67.1 ±           | 7.04    | 13.2      | 20            |
|                        | P20 B  | ng/l | 26.1 ±           | 4.09    | 7.37      | 28            |
| Fluoranthene           | P20 A  | ng/l | 125 ±            | 8.6     | 23.7      | 19            |
|                        | P20 B  | ng/l | 29.2 ±           | 2.5     | 5.54      | 19            |
| Fluorene               | P20 A  | ng/l | 158 ±            | 9.33    | 20.6      | 13            |
|                        | P20 B  | ng/l | 26.3 ±           | 2.42    | 4.36      | 17            |
| Indeno[1,2,3-cd]pyrene | P20 A  | ng/l | - ±              | -       | -         | -             |
|                        | P20 B  | ng/l | - ±              | -       | -         | -             |
| Naphthalene            | P20 A  | ng/l | 87.6 ±           | 4.77    | 21        | 24            |
|                        | P20 B  | ng/l | 42.6 ±           | 3.86    | 10.2      | 24            |
| Phenanthrene           | P20 A  | ng/l | 274 ±            | 13.2    | 41.1      | 15            |
|                        | P20 B  | ng/l | 47.4 ±           | 4       | 7.48      | 16            |
| Pyrene                 | P20 A  | ng/l | 175 ±            | 13.6    | 29.8      | 17            |
|                        | P20 B  | ng/l | 20.6 ±           | 0.83    | 3.51      | 17            |

## 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 [%] |
|------------------------|--------|-----------------------------------|--------------------|------|------|------------|---------|---------|-------|--------|
| Acenaphthene           | P20 A  | 15                                | 0                  | ng/l | 124  | ± 21.3     | 78      | 177     | 27.5  | 22     |
|                        | P20 B  | 7                                 | 0                  | ng/l | 10.4 | ± 2.07     | 7.6     | 12.9    | 1.82  | 18     |
| Acenaphthylene         | P20 A  | 12                                | 1                  | ng/l | 244  | ± 46.4     | 162     | 373     | 53.6  | 22     |
|                        | P20 B  | 5                                 | 2                  | ng/l | -    | ± -        | 10      | 22.4    | -     | -      |
| Anthracene             | P20 A  | 15                                | 0                  | ng/l | 58.3 | ± 11.9     | 30      | 77.4    | 15.3  | 26     |
|                        | P20 B  | 13                                | 0                  | ng/l | 33.4 | ± 3.2      | 28.4    | 40.8    | 3.85  | 12     |
| Benzo[a]anthracene     | P20 A  | 14                                | 0                  | ng/l | 40.9 | ± 8.33     | 20      | 55      | 10.4  | 25     |
|                        | P20 B  | 9                                 | 0                  | ng/l | 9.26 | ± 1        | 7.6     | 10.4    | 1     | 11     |
| Benzo[a]pyrene         | P20 A  | 15                                | 1                  | ng/l | 57.6 | ± 14.3     | 26      | 85      | 18.5  | 32     |
|                        | P20 B  | 9                                 | 2                  | ng/l | 9.87 | ± 2.22     | 6.2     | 13.3    | 2.22  | 22     |
| Benzo[b]fluoranthene   | P20 A  | 13                                | 3                  | ng/l | 185  | ± 18.2     | 150     | 233     | 21.9  | 12     |
|                        | P20 B  | 6                                 | 2                  | ng/l | 6.38 | ± 1.04     | 5.1     | 7       | 0.852 | 13     |
| Benzo[g,h,i]perylene   | P20 A  | 15                                | 1                  | ng/l | 203  | ± 35.2     | 101     | 278     | 45.4  | 22     |
|                        | P20 B  | 11                                | 1                  | ng/l | 19.6 | ± 6.6      | 12      | 37      | 7.3   | 37     |
| Benzo[k]fluoranthene   | P20 A  | 16                                | 0                  | ng/l | 204  | ± 37.9     | 91      | 282     | 50.6  | 25     |
|                        | P20 B  | 14                                | 0                  | ng/l | 33.3 | ± 5.35     | 20      | 42.8    | 6.68  | 20     |
| Chrysene               | P20 A  | 14                                | 1                  | ng/l | 202  | ± 19.2     | 137     | 230     | 24    | 12     |
|                        | P20 B  | 14                                | 0                  | ng/l | 42.6 | ± 5.37     | 26      | 51.2    | 6.69  | 16     |
| Dibenzo[a,h]anthracene | P20 A  | 14                                | 0                  | ng/l | 67.1 | ± 10.6     | 40      | 86      | 13.2  | 20     |
|                        | P20 B  | 13                                | 0                  | ng/l | 26.1 | ± 6.13     | 10      | 35      | 7.37  | 28     |
| Fluoranthene           | P20 A  | 15                                | 0                  | ng/l | 125  | ± 12.9     | 82.3    | 143     | 16.7  | 13     |
|                        | P20 B  | 13                                | 0                  | ng/l | 29.2 | ± 3.75     | 20      | 37      | 4.51  | 15     |
| Fluorene               | P20 A  | 15                                | 0                  | ng/l | 158  | ± 14       | 135     | 196     | 18.1  | 11     |
|                        | P20 B  | 13                                | 0                  | ng/l | 26.3 | ± 3.63     | 16.5    | 33.1    | 4.36  | 17     |
| Indeno[1,2,3-cd]pyrene | P20 A  | 2                                 | 0                  | ng/l | -    | ± -        | 8.02    | 34.3    | -     | -      |
|                        | P20 B  | 2                                 | 0                  | ng/l | -    | ± -        | 4.4     | 33.6    | -     | -      |
| Naphthalene            | P20 A  | 12                                | 1                  | ng/l | 87.6 | ± 7.15     | 70      | 98.6    | 8.26  | 9.4    |

| Parameter    | Sample | Number of results for calculation | Number of outliers | Unit | Mean | ± CI (99%) | Minimum | Maximum | sR   | vR [%] |
|--------------|--------|-----------------------------------|--------------------|------|------|------------|---------|---------|------|--------|
| Naphthalene  | P20 B  | 11                                | 0                  | ng/l | 42.6 | ± 5.78     | 31.4    | 50      | 6.39 | 15     |
| Phenanthrene | P20 A  | 15                                | 0                  | ng/l | 274  | ± 19.8     | 229     | 316     | 25.5 | 9.3    |
|              | P20 B  | 14                                | 0                  | ng/l | 47.4 | ± 6        | 30.8    | 58.5    | 7.48 | 16     |
| Pyrene       | P20 A  | 15                                | 0                  | ng/l | 175  | ± 20.4     | 122     | 213     | 26.3 | 15     |
|              | P20 B  | 11                                | 1                  | ng/l | 20.6 | ± 1.25     | 18.4    | 23      | 1.38 | 6.7    |



## E7. Parameterorientierte Auswertung / Parameter oriented report

|                              |     |
|------------------------------|-----|
| Acenaphthene.....            | 34  |
| Acenaphthylene.....          | 42  |
| Anthracene.....              | 48  |
| Benzo(a)anthracene.....      | 56  |
| Benzo(a)pyrene.....          | 64  |
| Benzo(b)fluoranthene.....    | 72  |
| Benzo(g,h,i)perylene.....    | 80  |
| Benzo(k)fluoranthene.....    | 88  |
| Chrysene.....                | 96  |
| Dibenzo(a,h)anthracene.....  | 104 |
| Fluoranthene.....            | 112 |
| Fluorene.....                | 120 |
| Indeno(1,2,3-c,d)pyrene..... | 128 |
| Naphthalene.....             | 132 |
| Phenanthrene.....            | 140 |
| Pyrene.....                  | 151 |

## Parameter oriented report

### P20 A

#### Acenaphthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 124 ± 14.2  |
| Criterion                    | 27.5 (22 %) |
| Minimum - Maximum            | 78 - 177    |
| Control test value ± U (k=2) | 150 ± 42.1  |

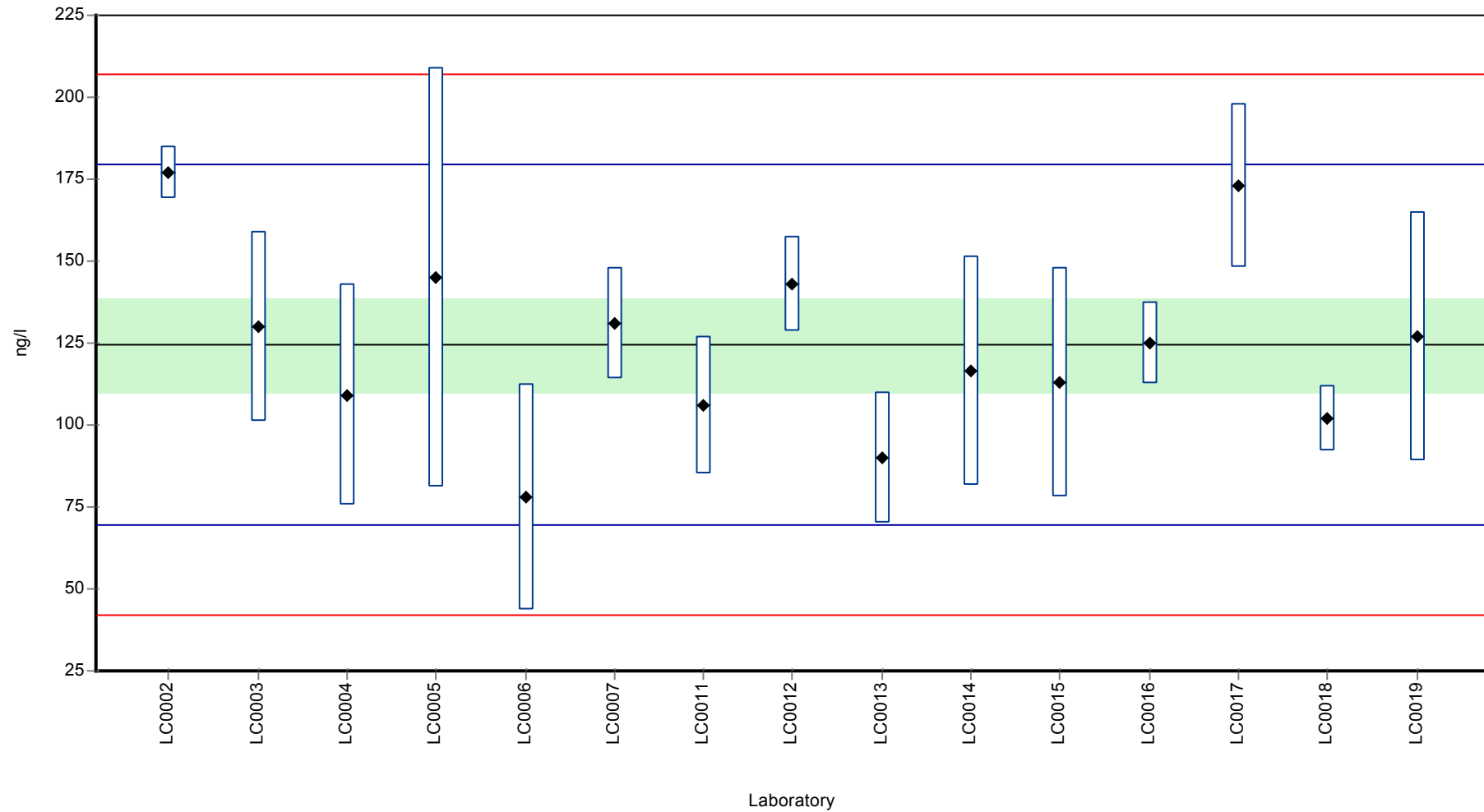
| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 177    | 8.09  | 142          | 1.91    |          |
| LC0003  | 130    | 29    | 105          | 0.2     |          |
| LC0004  | 109.1  | 33.8  | 87.7         | -0.56   |          |
| LC0005  | 145    | 64    | 117          | 0.75    |          |
| LC0006  | 78     | 34.32 | 62.7         | -1.69   |          |
| LC0007  | 131.18 | 17.05 | 105          | 0.25    |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | -      | -     | -            | -       |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 106    | 21    | 85.2         | -0.67   |          |
| LC0012  | 143    | 14.3  | 115          | 0.68    |          |
| LC0013  | 90     | 20    | 72.4         | -1.25   |          |
| LC0014  | 116.5  | 35    | 93.7         | -0.29   |          |
| LC0015  | 113    | 35    | 90.8         | -0.41   |          |
| LC0016  | 125.13 | 12.51 | 101          | 0.03    |          |
| LC0017  | 173    | 25    | 139          | 1.77    |          |
| LC0018  | 102    | 10    | 82           | -0.81   |          |
| LC0019  | 127    | 38    | 102          | 0.09    |          |

#### Characteristics of parameter

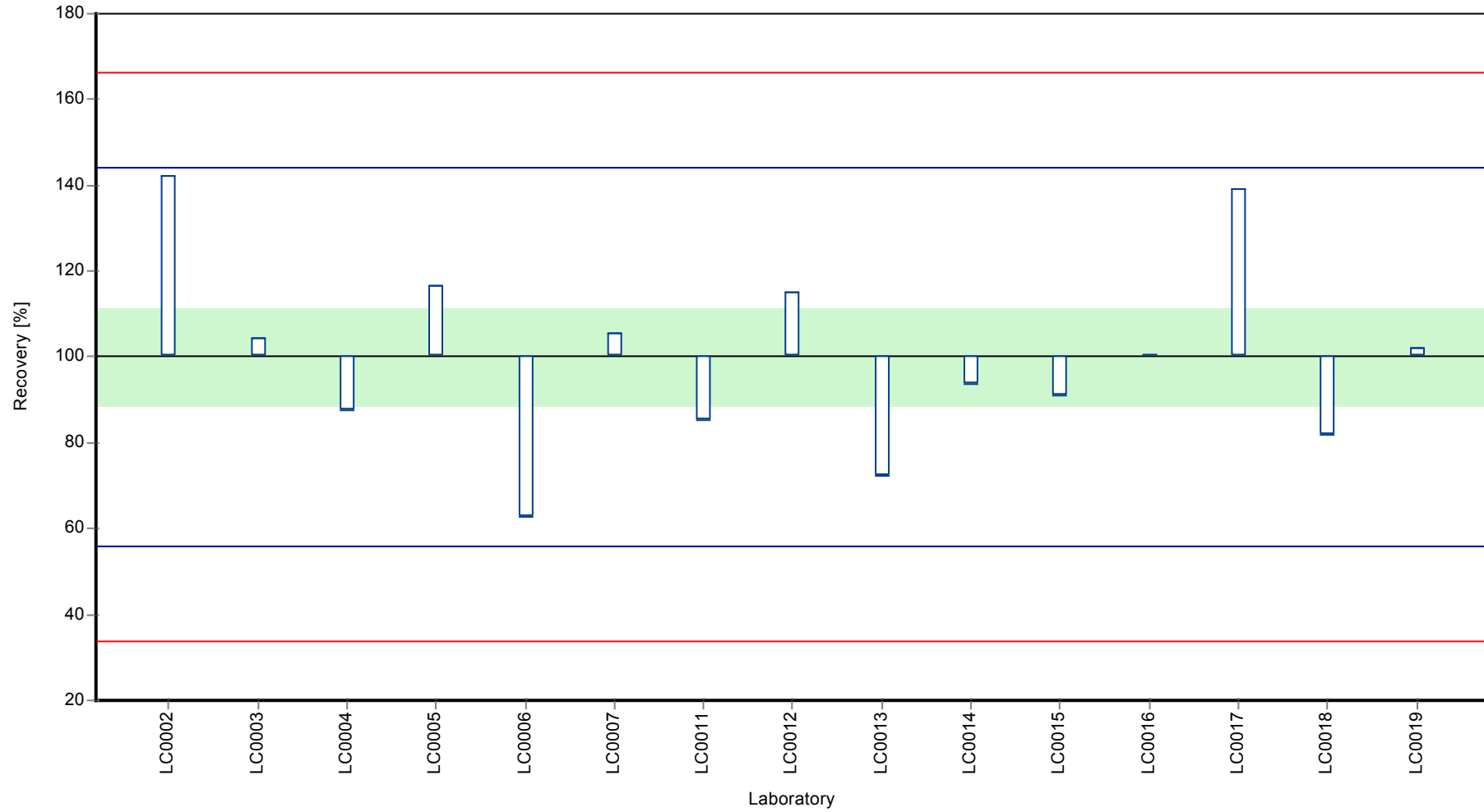
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 124 ± 21.3  | 124 ± 21.3       | ng/l |
| Minimum                 | 78          | 78               | ng/l |
| Maximum                 | 177         | 177              | ng/l |
| Standard deviation      | 27.5        | 27.5             | ng/l |
| rel. standard deviation | 22.1        | 22.1             | %    |
| n                       | 15          | 15               | -    |

Graphical presentation of results

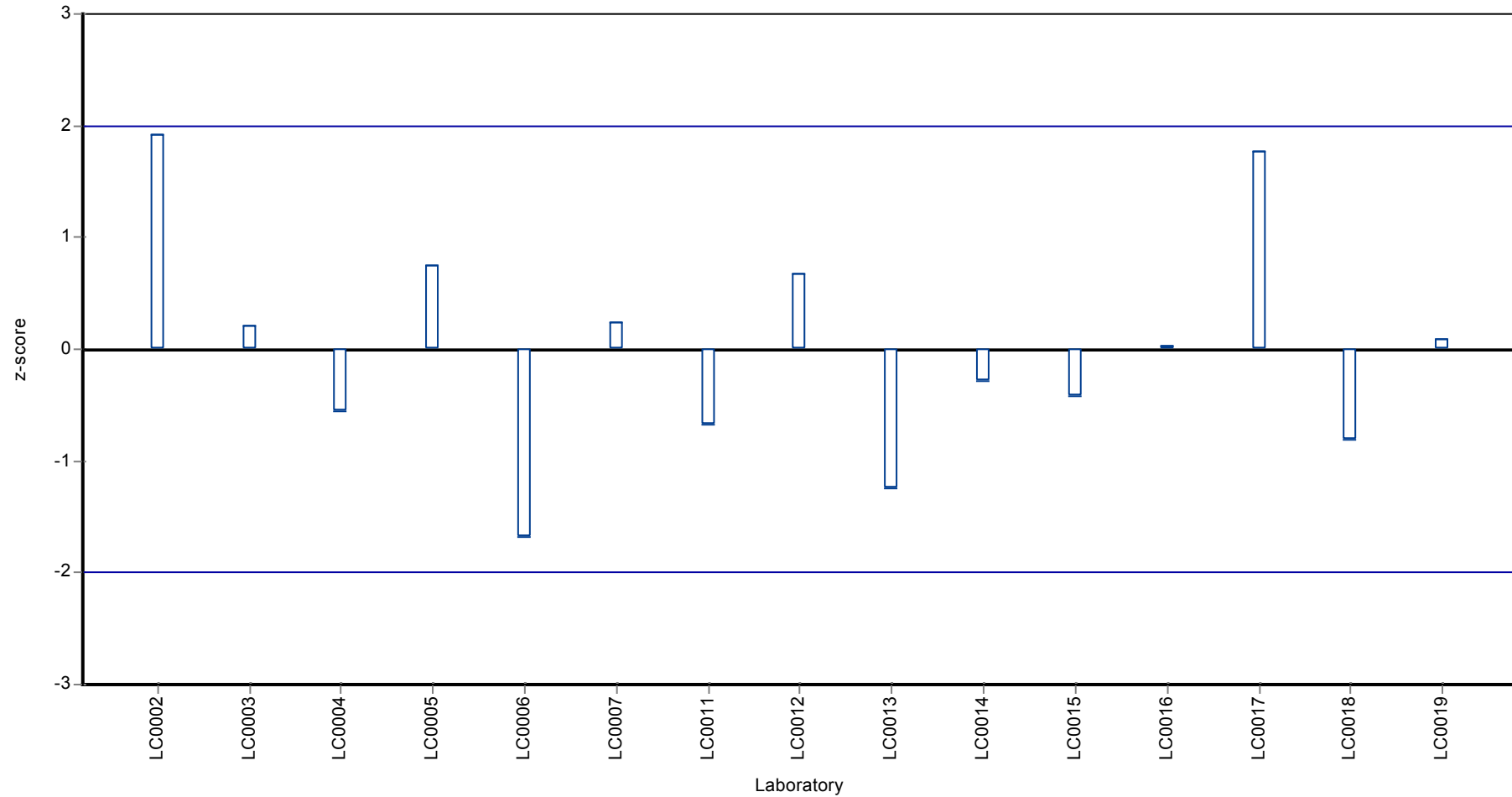
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Acenaphthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 10.4 ± 1.38 |
| Criterion                    | 1.98 (19 %) |
| Minimum - Maximum            | 7.6 - 12.9  |
| Control test value ± U (k=2) | 11.6 ± 3.26 |

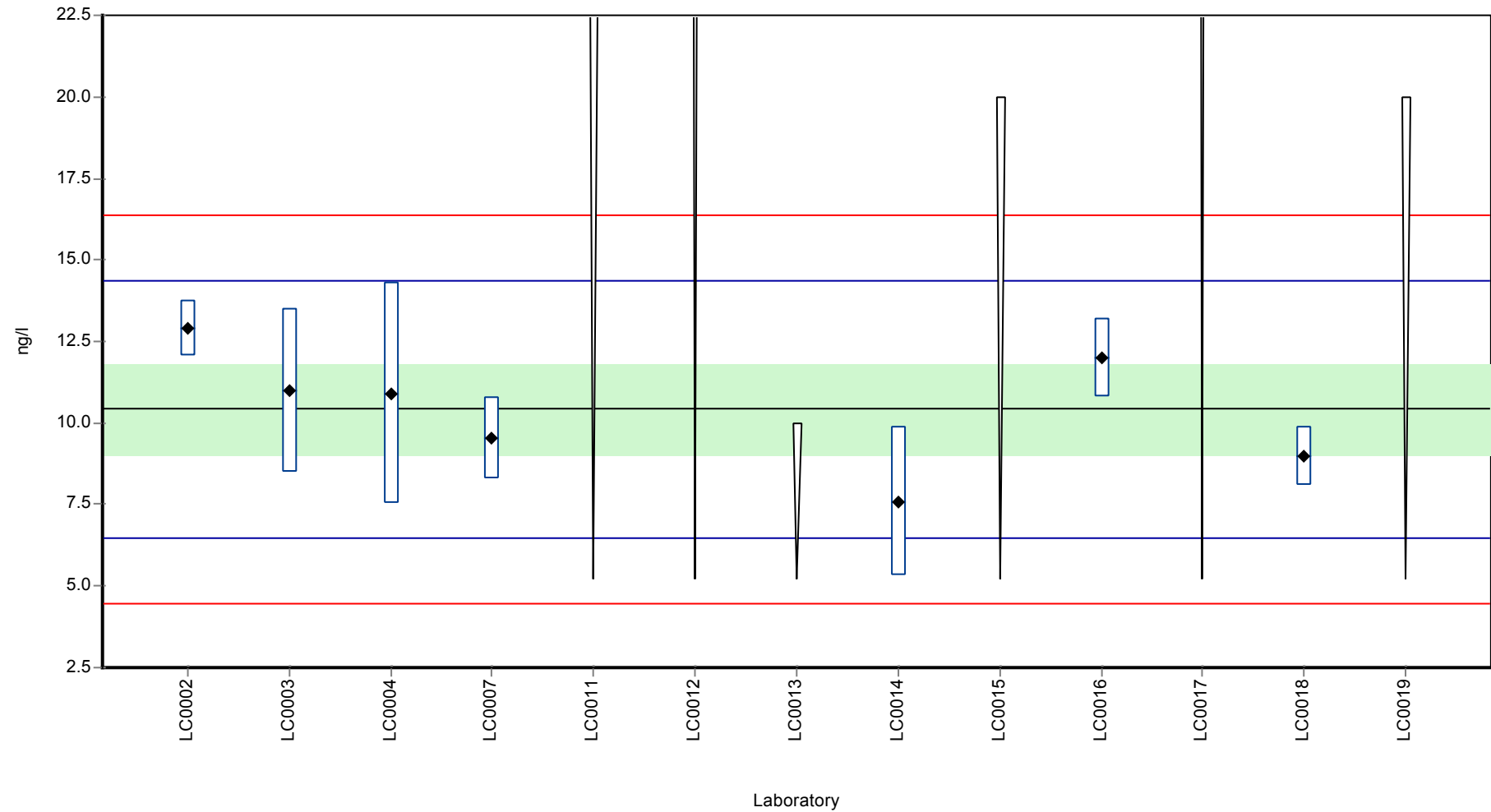
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 12.9         | 0.87 | 124          | 1.25    |          |
| LC0003  | 11           | 2.5  | 106          | 0.29    |          |
| LC0004  | 10.9         | 3.4  | 105          | 0.24    |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | -            | -    | -            | -       |          |
| LC0007  | 9.54         | 1.24 | 91.6         | -0.44   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0014  | 7.6          | 2.3  | 72.9         | -1.42   |          |
| LC0015  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0016  | 12           | 1.2  | 115          | 0.8     |          |
| LC0017  | < 66.9 (LOQ) | -    | -            | -       |          |
| LC0018  | 9            | 0.9  | 86.4         | -0.72   |          |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

#### Characteristics of parameter

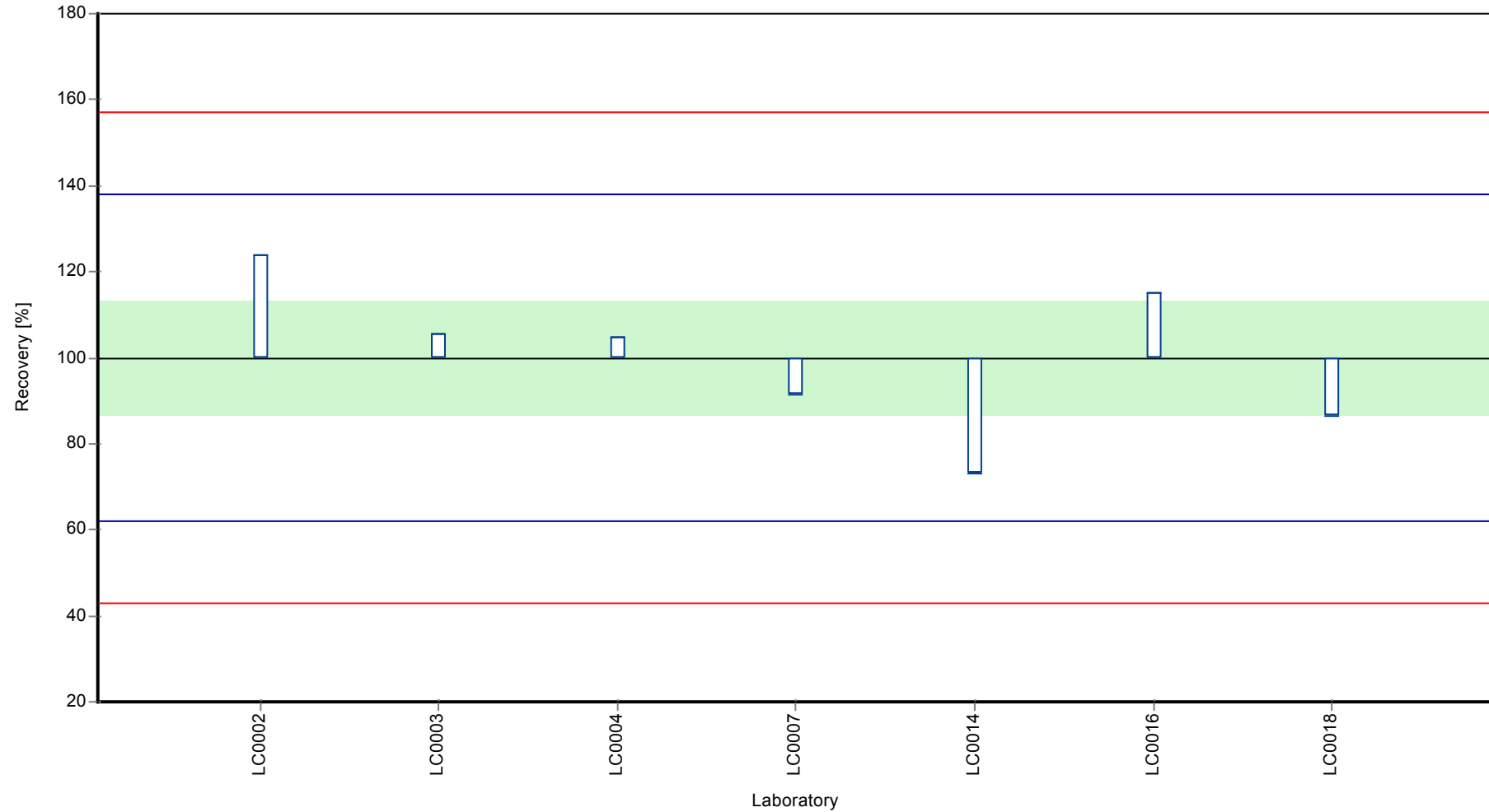
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 10.4 ± 2.07 | 10.4 ± 2.07      | ng/l |
| Minimum                 | 7.6         | 7.6              | ng/l |
| Maximum                 | 12.9        | 12.9             | ng/l |
| Standard deviation      | 1.82        | 1.82             | ng/l |
| rel. standard deviation | 17.5        | 17.5             | %    |
| n                       | 7           | 7                | -    |

Graphical presentation of results

Results

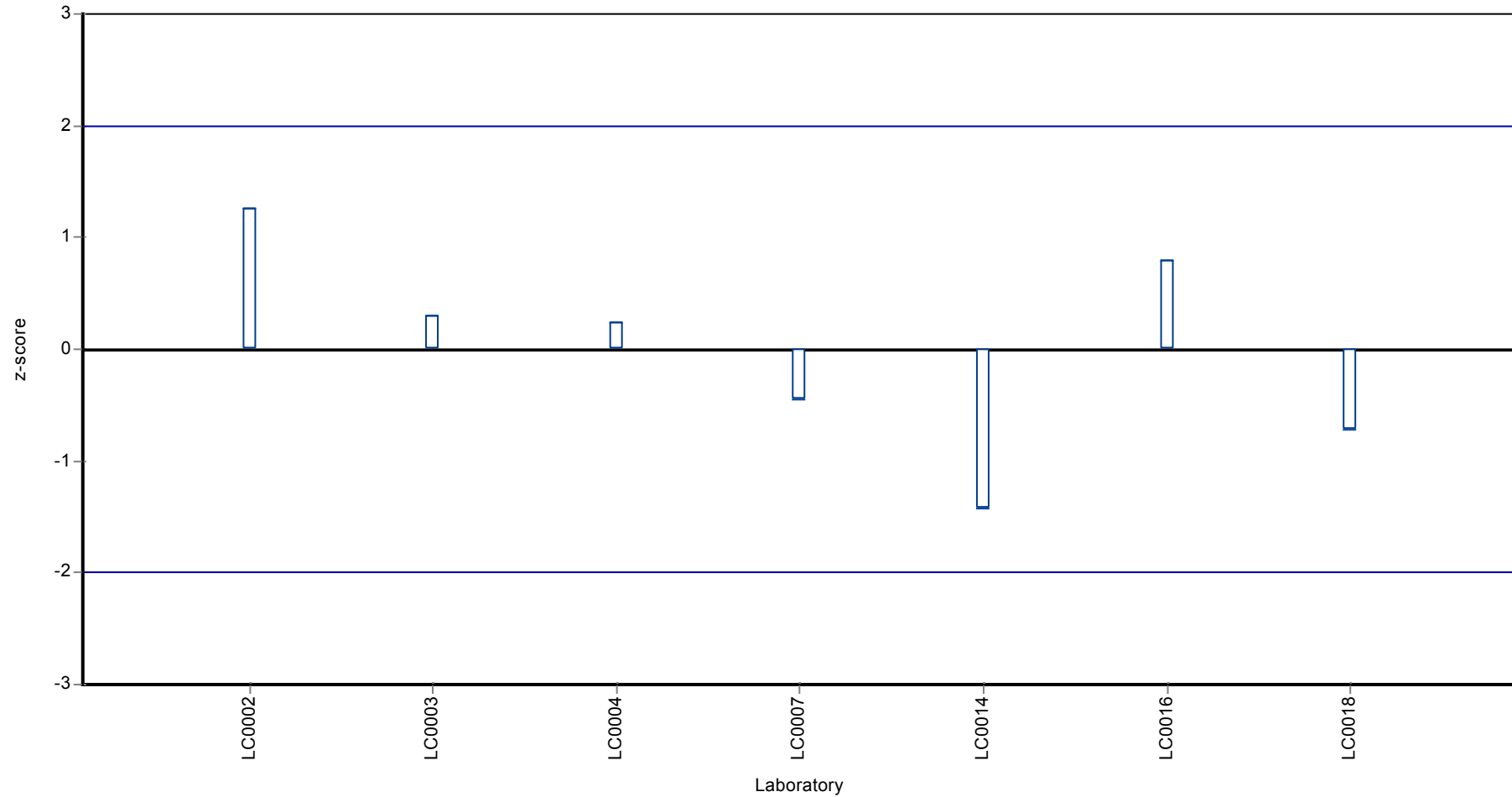


Recovery rate





Z-score



## Parameter oriented report

### P20 A

#### Acenaphthylene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 244 ± 30.9  |
| Criterion                    | 56.1 (23 %) |
| Minimum - Maximum            | 162 - 373   |
| Control test value ± U (k=2) | 279 ± 78.1  |

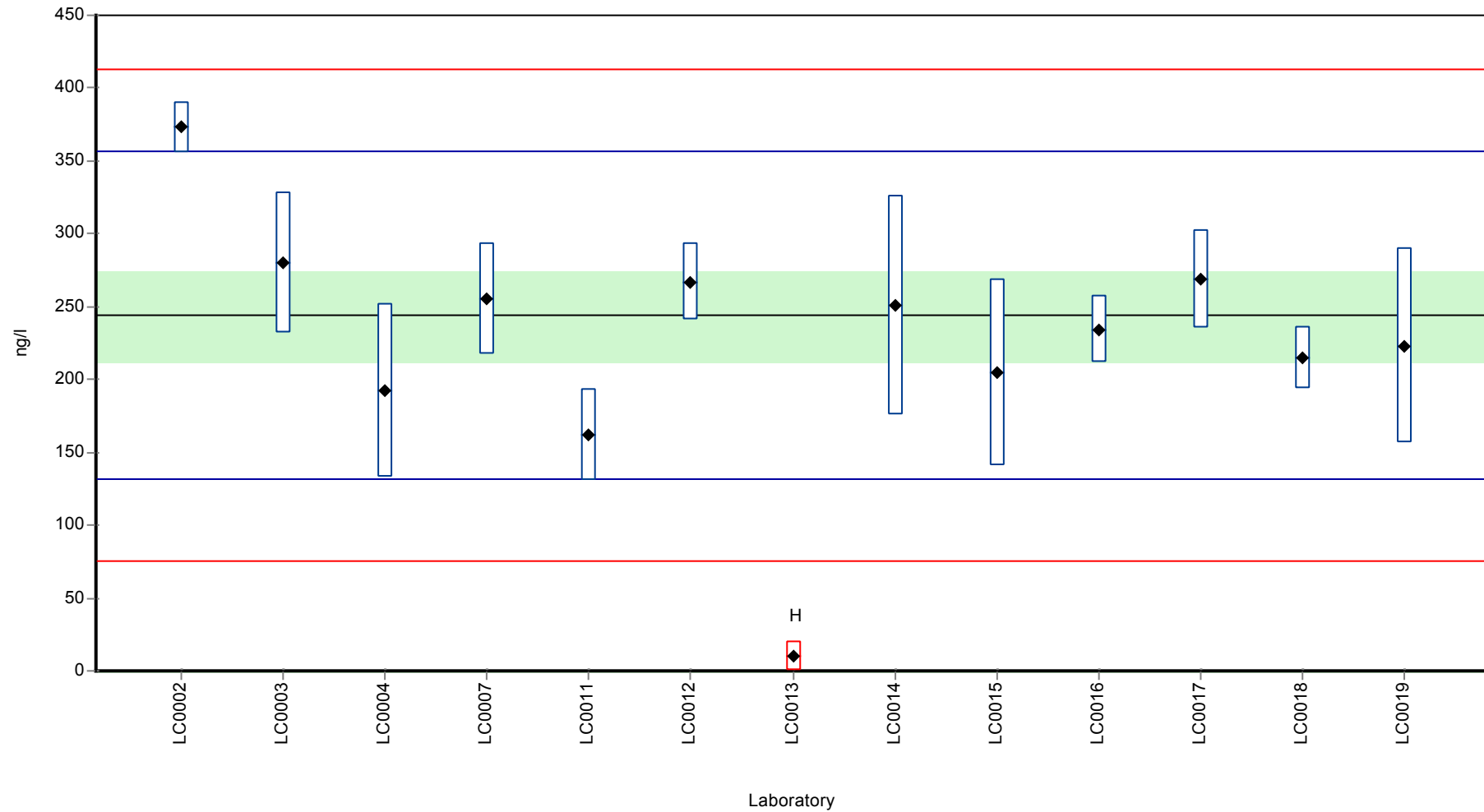
| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 373    | 17.6  | 153          | 2.3     |          |
| LC0003  | 280    | 48    | 115          | 0.64    |          |
| LC0004  | 192.4  | 59.7  | 78.9         | -0.92   |          |
| LC0005  | -      | -     | -            | -       |          |
| LC0006  | -      | -     | -            | -       |          |
| LC0007  | 255.53 | 38.33 | 105          | 0.21    |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | -      | -     | -            | -       |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 162    | 32    | 66.4         | -1.46   |          |
| LC0012  | 267    | 26.7  | 109          | 0.41    |          |
| LC0013  | 10     | 10    | 4.1          | -4.17   | H        |
| LC0014  | 251.4  | 75.4  | 103          | 0.13    |          |
| LC0015  | 205    | 64    | 84           | -0.69   |          |
| LC0016  | 234.5  | 23.45 | 96.1         | -0.17   |          |
| LC0017  | 269    | 33.4  | 110          | 0.45    |          |
| LC0018  | 215    | 21    | 88.1         | -0.52   |          |
| LC0019  | 223    | 67    | 91.4         | -0.37   |          |

#### Characteristics of parameter

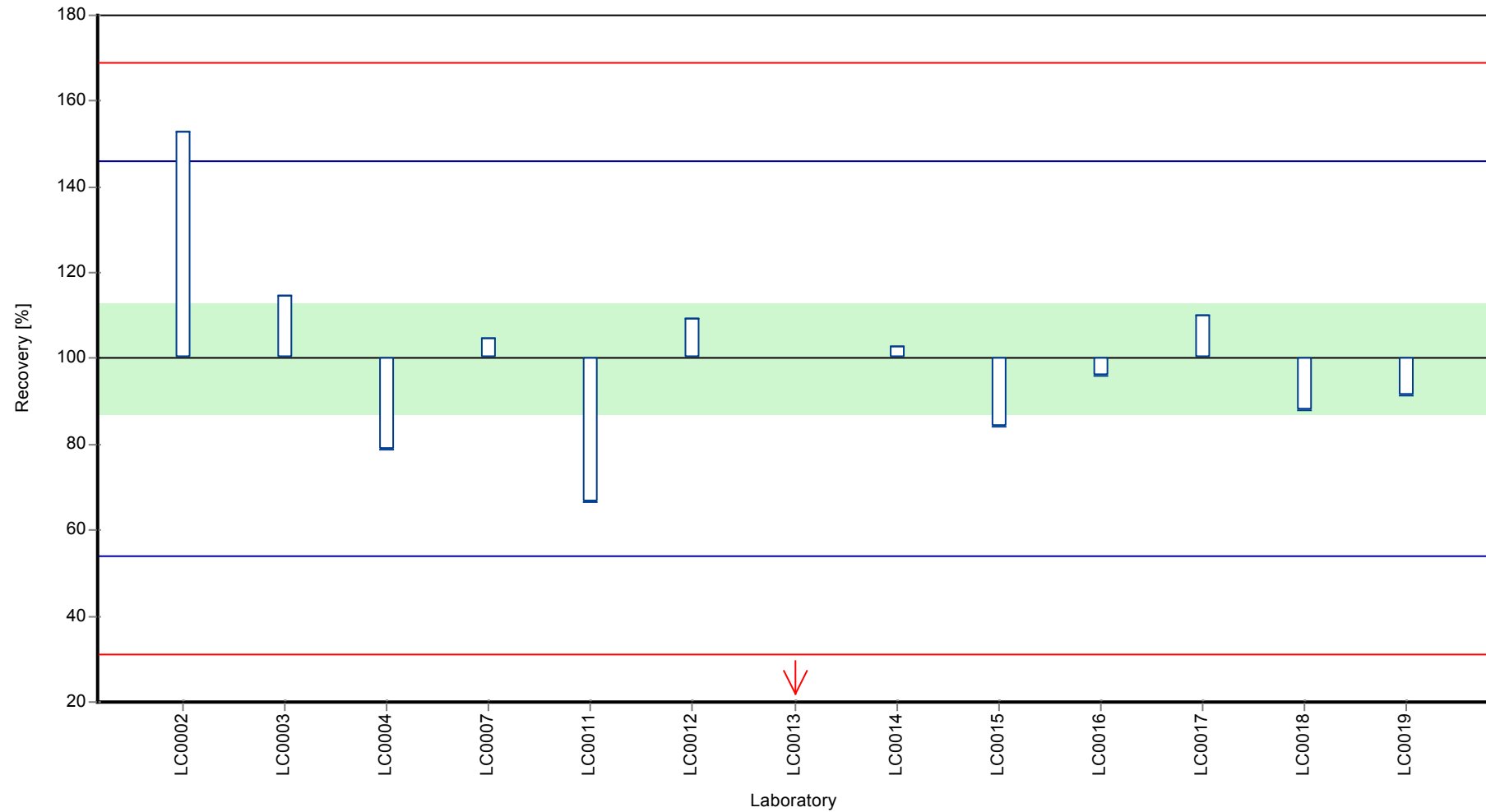
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 226 ± 68.8  | 244 ± 46.4       | ng/l |
| Minimum                 | 10          | 162              | ng/l |
| Maximum                 | 373         | 373              | ng/l |
| Standard deviation      | 82.7        | 53.6             | ng/l |
| rel. standard deviation | 36.6        | 22               | %    |
| n                       | 13          | 12               | -    |

Graphical presentation of results

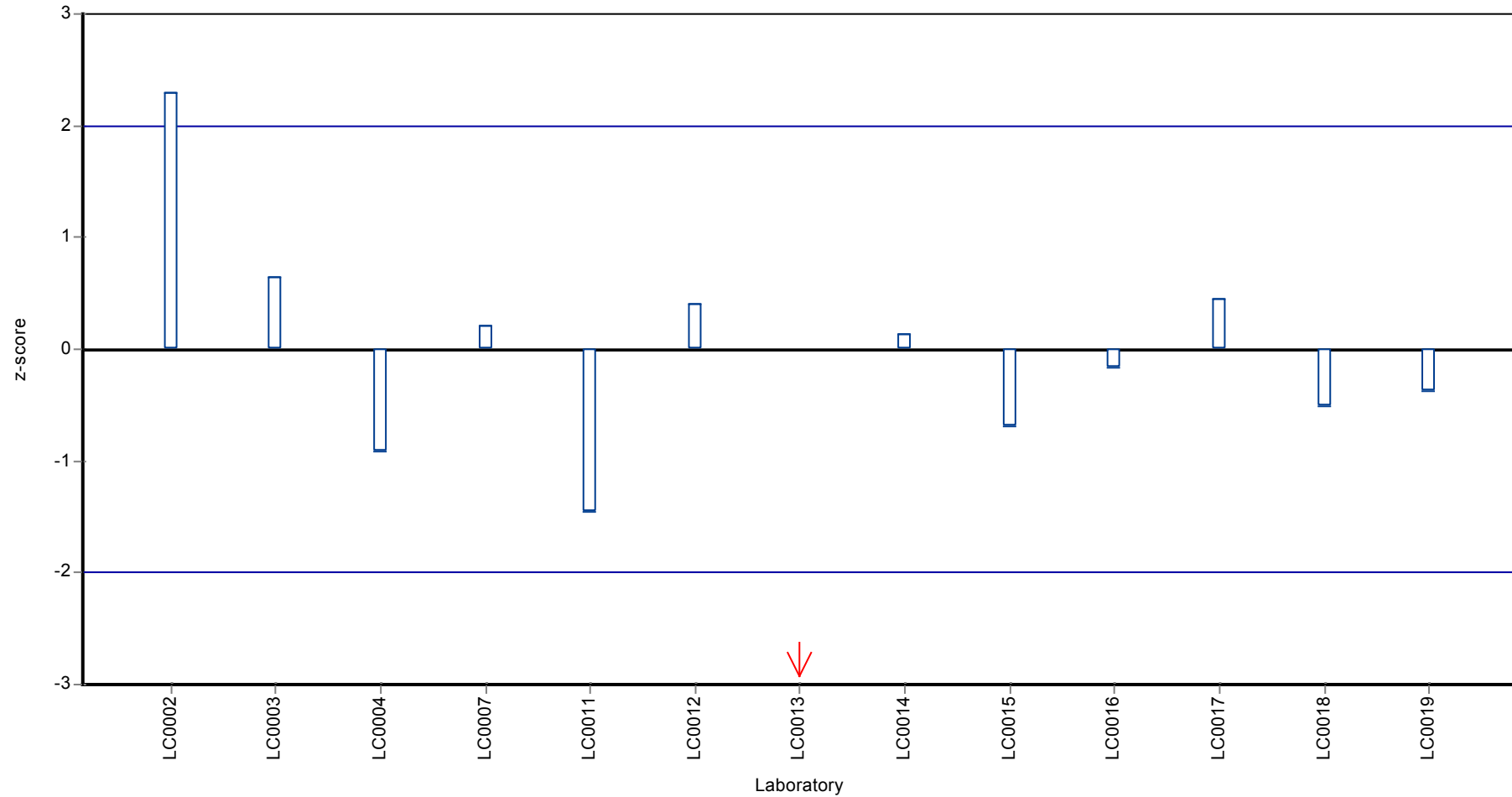
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Acenaphthylene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | -           |
| Criterion                    | -           |
| Minimum - Maximum            | 10 - 22.4   |
| Control test value ± U (k=2) | 15.7 ± 4.39 |

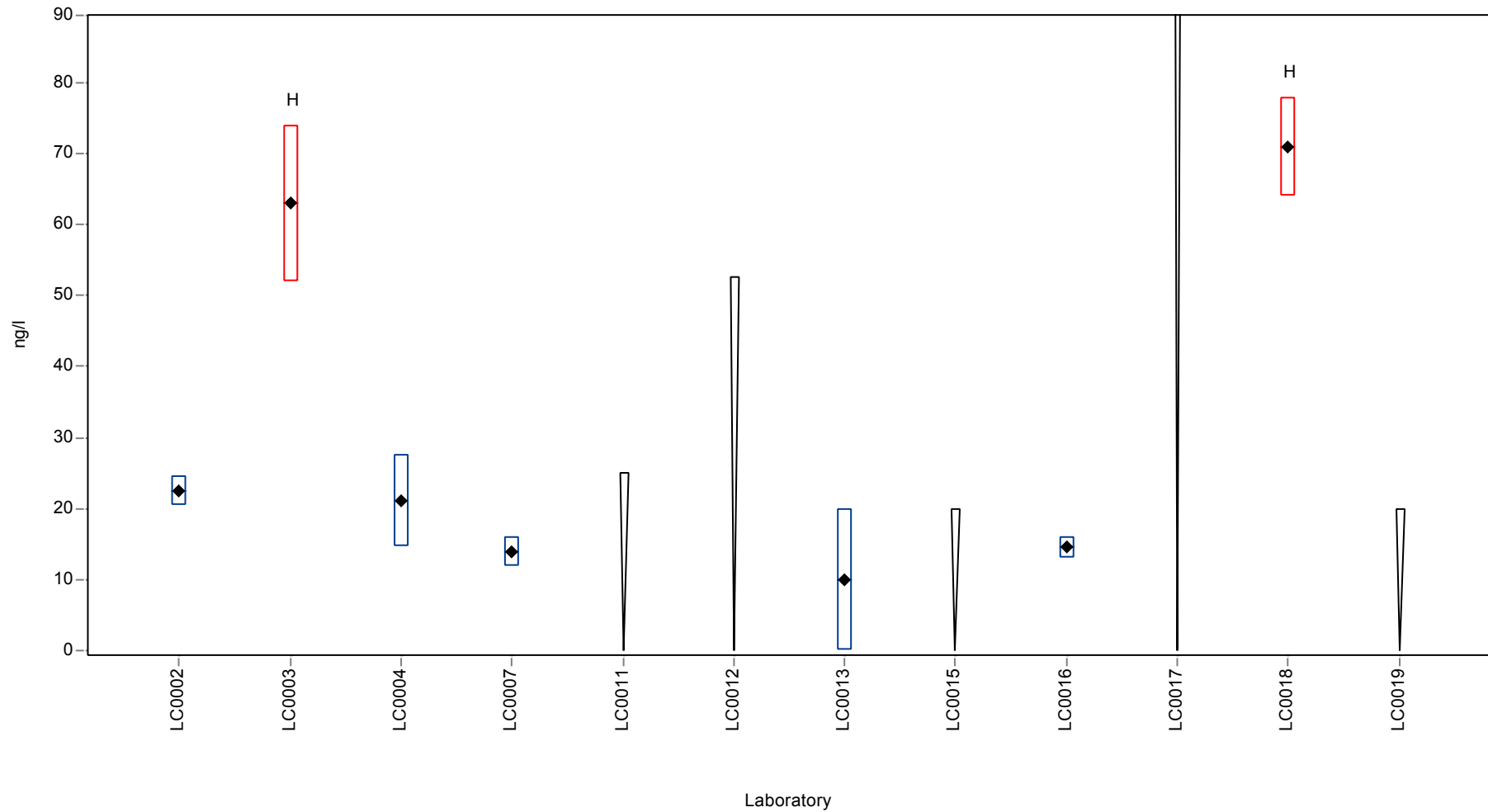
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 22.4         | 2.12 | -            | -       |          |
| LC0003  | 63           | 11   | -            | -       | H        |
| LC0004  | 21           | 6.5  | -            | -       |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | -            | -    | -            | -       |          |
| LC0007  | 13.82        | 2.07 | -            | -       |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 10           | 10   | -            | -       |          |
| LC0014  | -            | -    | -            | -       |          |
| LC0015  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0016  | 14.5         | 1.5  | -            | -       |          |
| LC0017  | < 161 (LOQ)  | -    | -            | -       |          |
| LC0018  | 71           | 7    | -            | -       | H        |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 30.8 ± 28.6 | -                | ng/l |
| Minimum                 | 10          | 10               | ng/l |
| Maximum                 | 71          | 22.4             | ng/l |
| Standard deviation      | 25.2        | -                | ng/l |
| rel. standard deviation | 81.7        | -                | %    |
| n                       | 7           | 5                | -    |

Graphical presentation of results

Results



Parameter oriented report Polycyclic Aromatic Hydrocarbons P20

Sample: P20A, Parameter: Anthracene

## Parameter oriented report

### P20 A

#### Anthracene

|                              |           |
|------------------------------|-----------|
| Unit                         | ng/l      |
| Assigned value ± U (k=2)     | -         |
| Criterion                    | -         |
| Minimum - Maximum            | -         |
| Control test value ± U (k=2) | 80.6 ± 21 |

#### Information zur Auswertung:

Die Bewertung dient nur zu Informationszwecken, da der von Ausreißern bereinigte Mittelwert der Ergebnisse der Teilnehmer nicht im Bereich der Messunsicherheit des Kontrollwertes liegt und dadurch Rückführbarkeit nicht gewährleistet ist.

#### Information for evaluation:

Assessment is used for informational purposes only, since the outlier adjusted mean value of participant results is not within range of the measurement uncertainty of the control value and thereby traceability is not guaranteed.

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     |              |         |          |
| LC0002  | 77.4   | 0.04  |              |         |          |
| LC0003  | 68     | 8     |              |         |          |
| LC0004  | 56.9   | 17.6  |              |         |          |
| LC0005  | 73.2   | 32.2  |              |         |          |
| LC0006  | 32     | 14.08 |              |         |          |
| LC0007  | 69.98  | 12.6  |              |         |          |
| LC0008  | -      | -     |              |         |          |
| LC0009  | -      | -     |              |         |          |
| LC0010  | -      | -     |              |         |          |
| LC0011  | 47     | 9     |              |         |          |
| LC0012  | 62     | 6.2   |              |         |          |
| LC0013  | 30     | 10    |              |         |          |
| LC0014  | 37.3   | 11.2  |              |         |          |
| LC0015  | 57     | 18    |              |         |          |
| LC0016  | 72     | 7.2   |              |         |          |
| LC0017  | 72.2   | 8.22  |              |         |          |
| LC0018  | 59     | 6     |              |         |          |
| LC0019  | 60     | 18    |              |         |          |

#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 58.3 ± 11.9 | 58.3 ± 11.9      | ng/l |
| Minimum                 | 30          | 30               | ng/l |
| Maximum                 | 77.4        | 77.4             | ng/l |
| Standard deviation      | 15.3        | 15.3             | ng/l |
| rel. standard deviation | 26.3        | 26.3             | %    |
| n                       | 15          | 15               | -    |



Information zur Auswertung: Die Bewertung dient nur zu Informationszwecken, da der von Ausreißern bereinigte Mittelwert der Ergebnisse der Teilnehmer nicht im Bereich der Messunsicherheit des Kontrollwertes liegt und dadurch keine Rückführbarkeit gegeben ist.

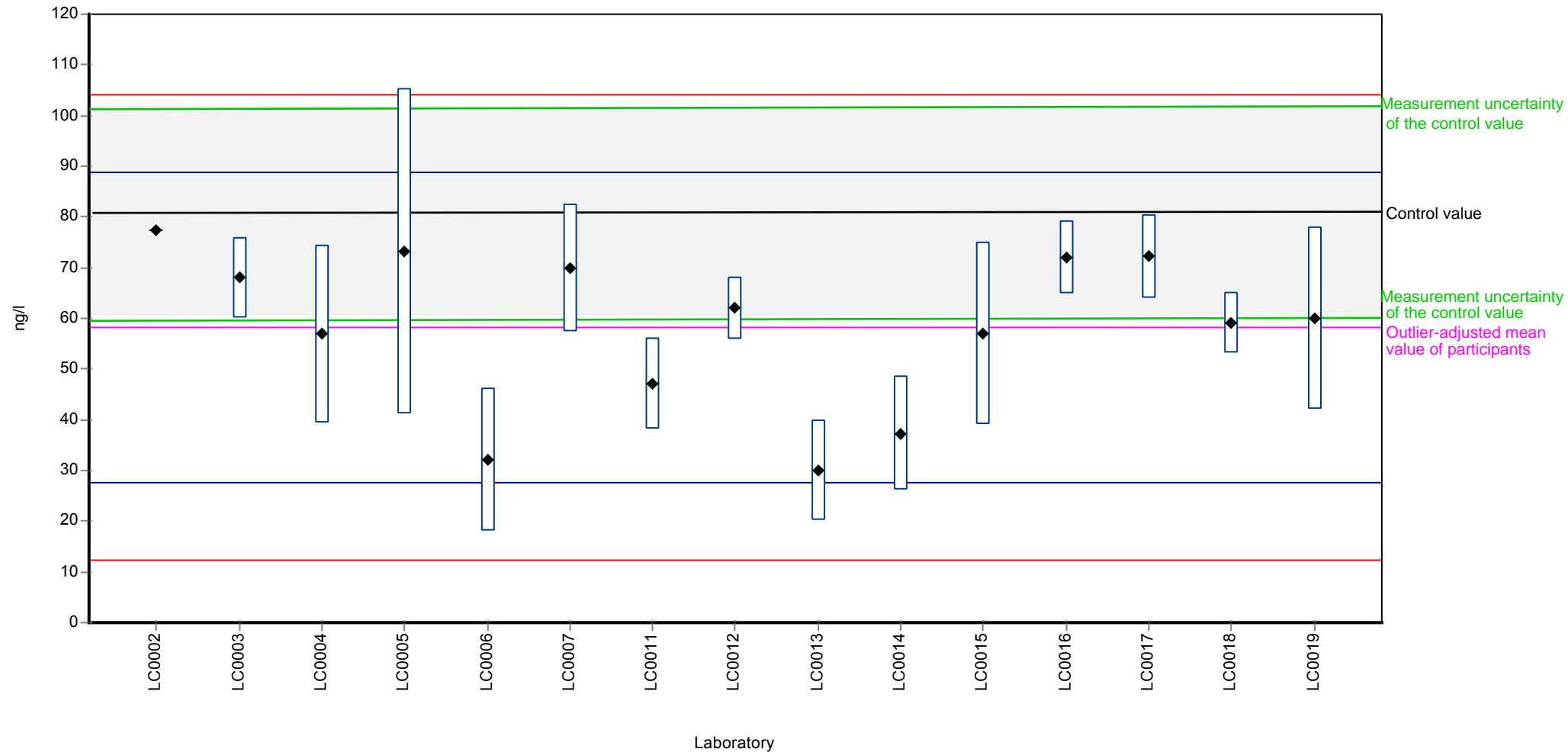
Information for evaluation: Assessment is used for informational purposes only, since the outlier adjusted mean value of participant results is not within range of the measurement uncertainty of the control value and thus, traceability is not given.

Parameter oriented report Polycyclic Aromatic Hydrocarbons P20

Sample: P20A, Parameter: Anthracene

### Graphical presentation of results

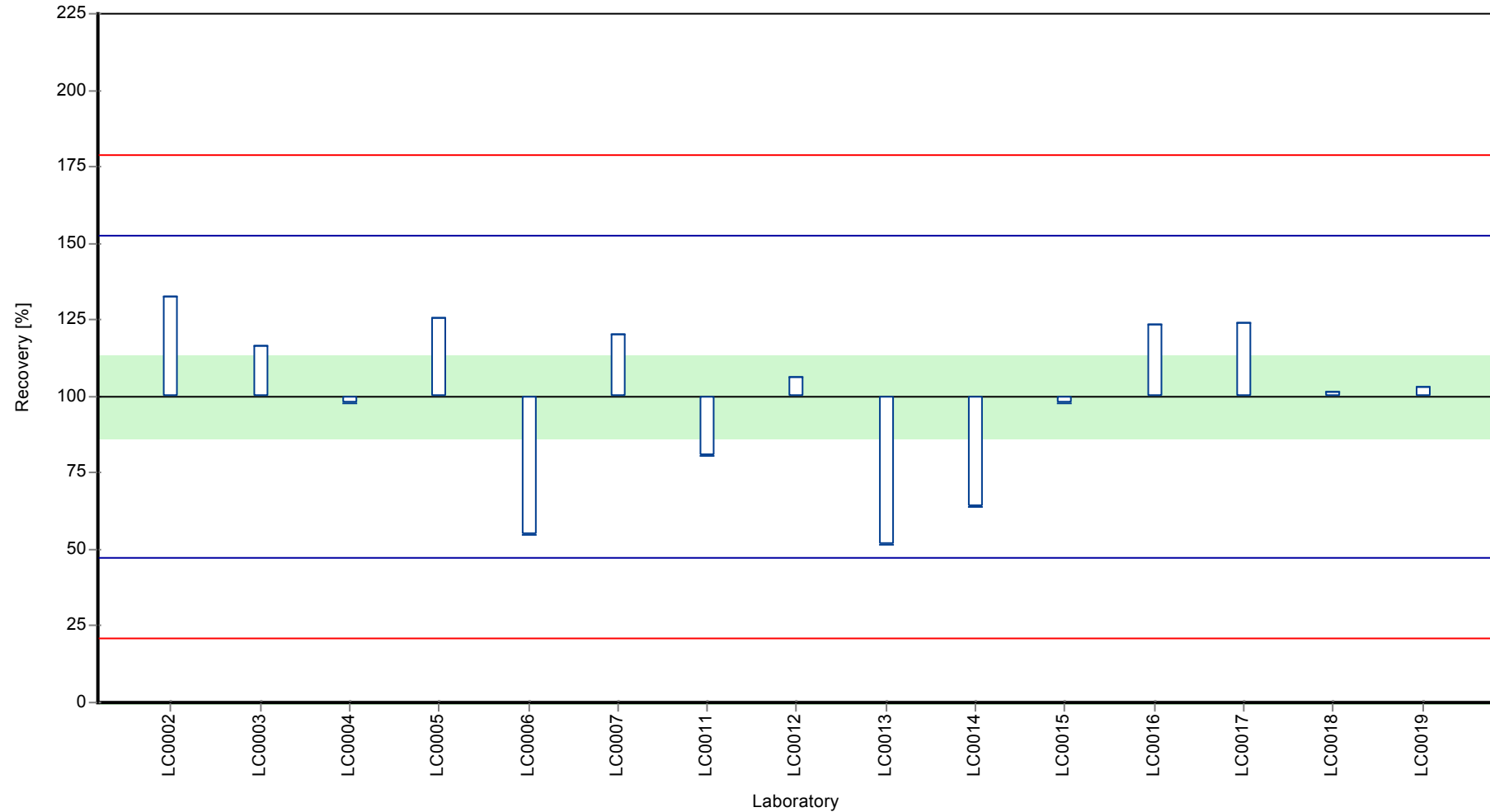
#### Results



Information zur Auswertung: Die Bewertung dient nur zu Informationszwecken, da der von Ausreißern bereinigte Mittelwert der Ergebnisse der Teilnehmer nicht im Bereich der Messunsicherheit des Kontrollwertes liegt und dadurch keine Rückführbarkeit gegeben ist.

Information for evaluation: Assessment is used for informational purposes only, since the outlier adjusted mean value of participant results is not within range of the measurement uncertainty of the control value and thus, traceability is not given.

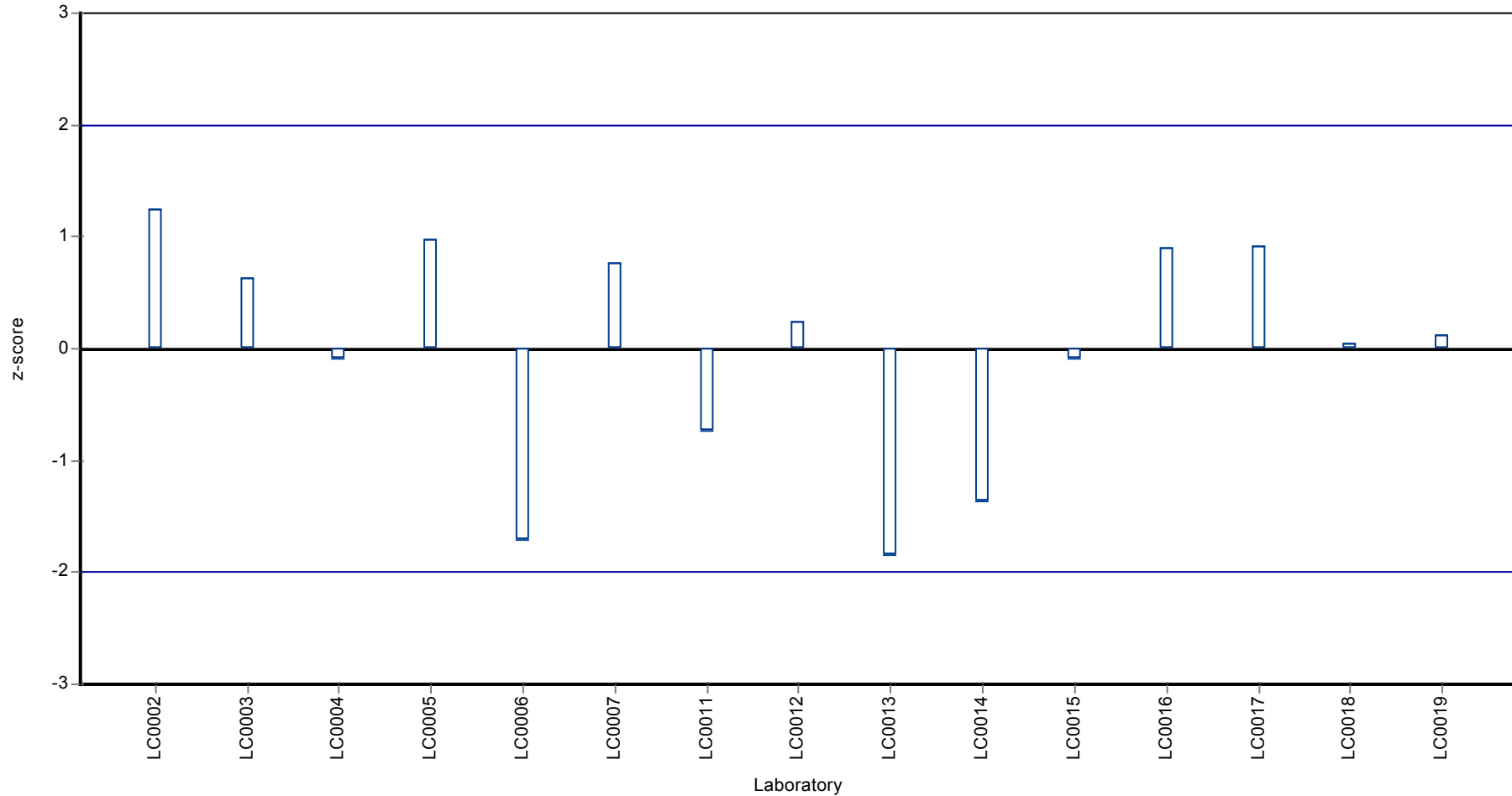
Recovery rate



Information zur Auswertung: Die Bewertung dient nur zu Informationszwecken, da der von Ausreißern bereinigte Mittelwert der Ergebnisse der Teilnehmer nicht im Bereich der Messunsicherheit des Kontrollwertes liegt und dadurch keine Rückführbarkeit gegeben ist.

Information for evaluation: Assessment is used for informational purposes only, since the outlier adjusted mean value of participant results is not within range of the measurement uncertainty of the control value and thus, traceability is not given.

Z-score



## Parameter oriented report

### P20 B

#### Anthracene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 33.4 ± 2.14 |
| Criterion                    | 8 (24 %)    |
| Minimum - Maximum            | 28.4 - 40.8 |
| Control test value ± U (k=2) | 36.3 ± 9.44 |

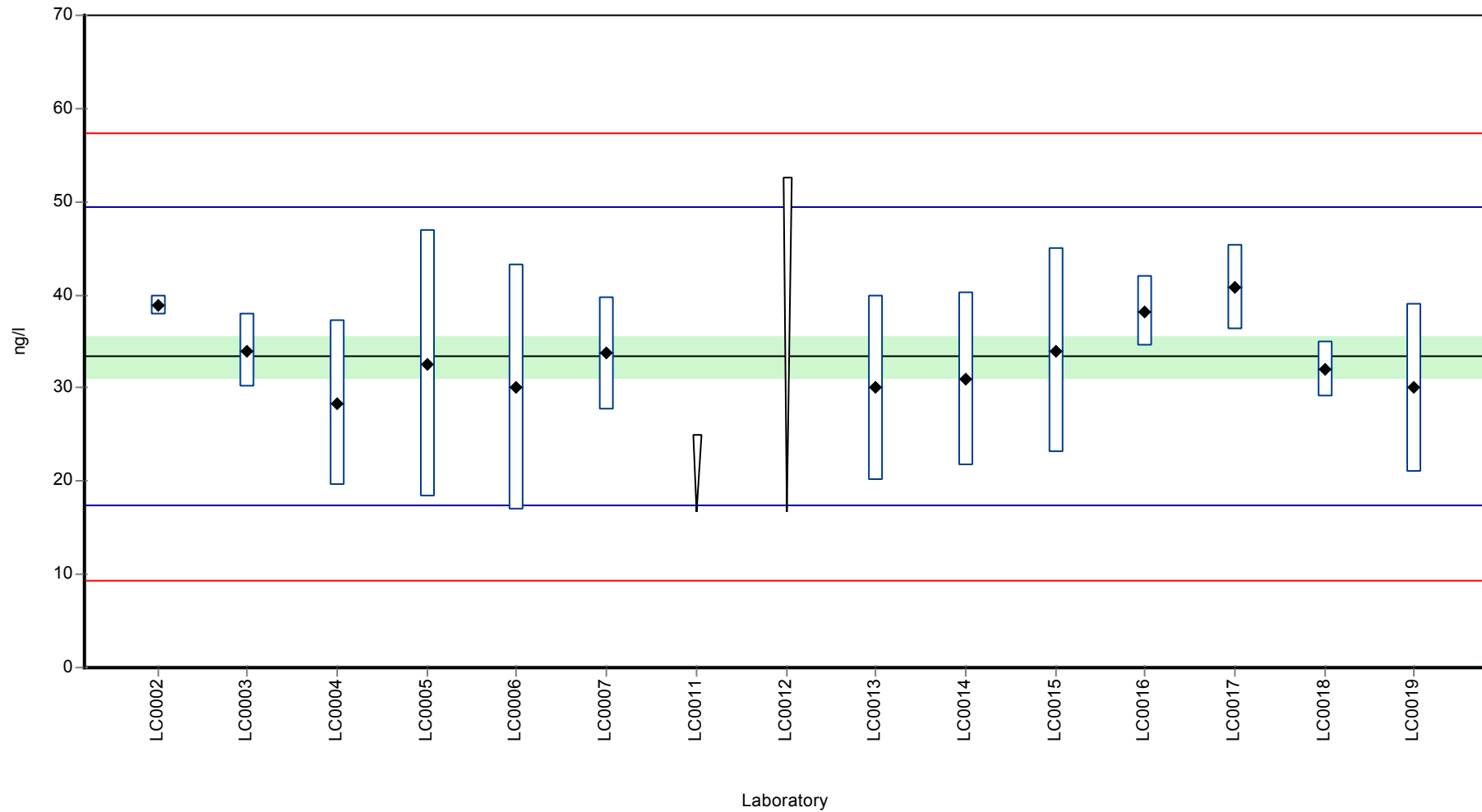
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 38.9         | 1.05 | 117          | 0.69    |          |
| LC0003  | 34           | 4    | 102          | 0.08    |          |
| LC0004  | 28.4         | 8.8  | 85.2         | -0.62   |          |
| LC0005  | 32.6         | 14.3 | 97.7         | -0.09   |          |
| LC0006  | 30           | 13.2 | 90           | -0.42   |          |
| LC0007  | 33.72        | 6.06 | 101          | 0.05    |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 30           | 10   | 90           | -0.42   |          |
| LC0014  | 30.9         | 9.3  | 92.6         | -0.31   |          |
| LC0015  | 34           | 11   | 102          | 0.08    |          |
| LC0016  | 38.25        | 3.85 | 115          | 0.61    |          |
| LC0017  | 40.8         | 4.64 | 122          | 0.93    |          |
| LC0018  | 32           | 3    | 95.9         | -0.17   |          |
| LC0019  | 30           | 9    | 90           | -0.42   |          |

#### Characteristics of parameter

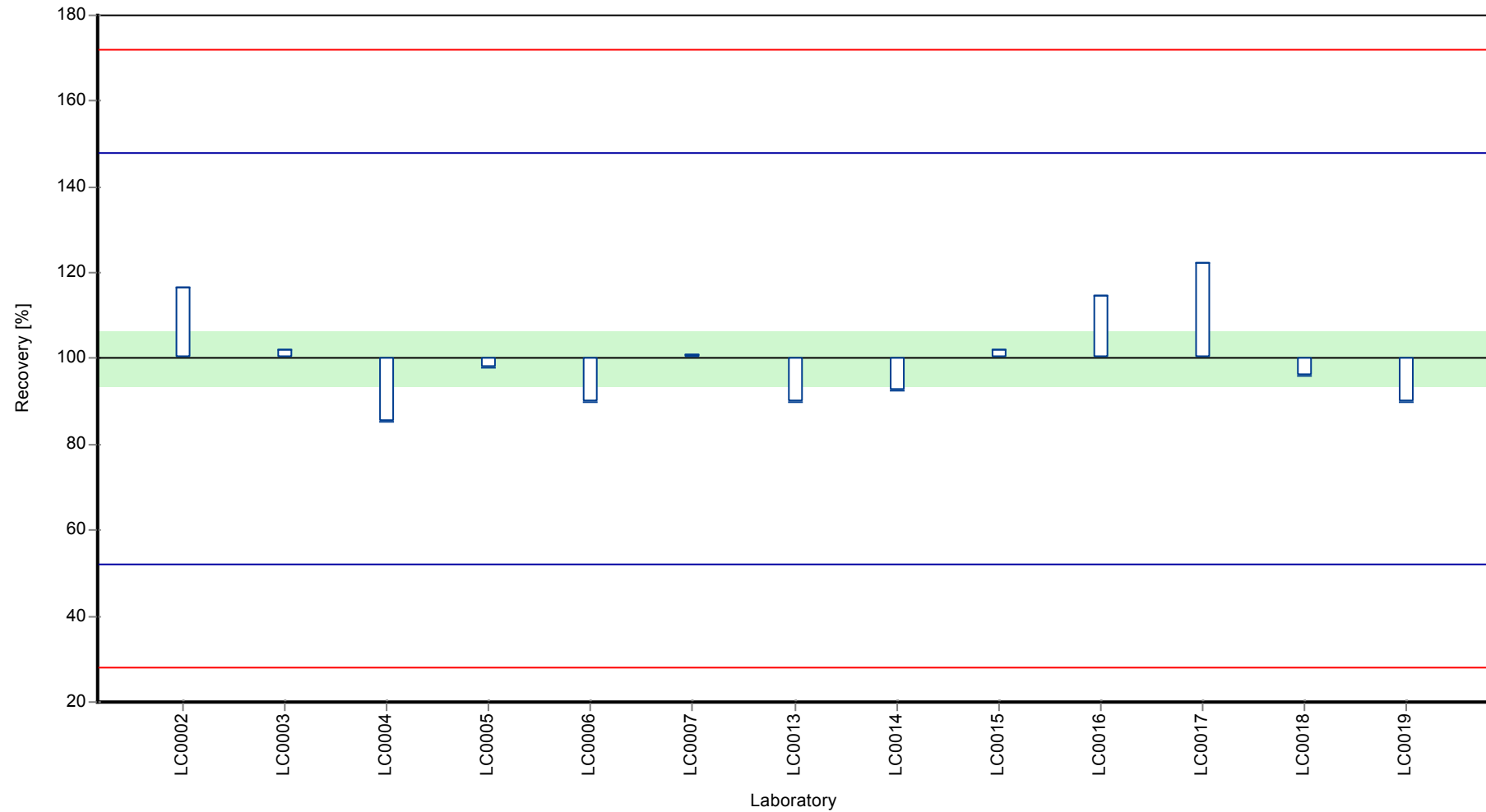
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 33.4 ± 3.2  | 33.4 ± 3.2       | ng/l |
| Minimum                 | 28.4        | 28.4             | ng/l |
| Maximum                 | 40.8        | 40.8             | ng/l |
| Standard deviation      | 3.85        | 3.85             | ng/l |
| rel. standard deviation | 11.5        | 11.5             | %    |
| n                       | 13          | 13               | -    |

Graphical presentation of results

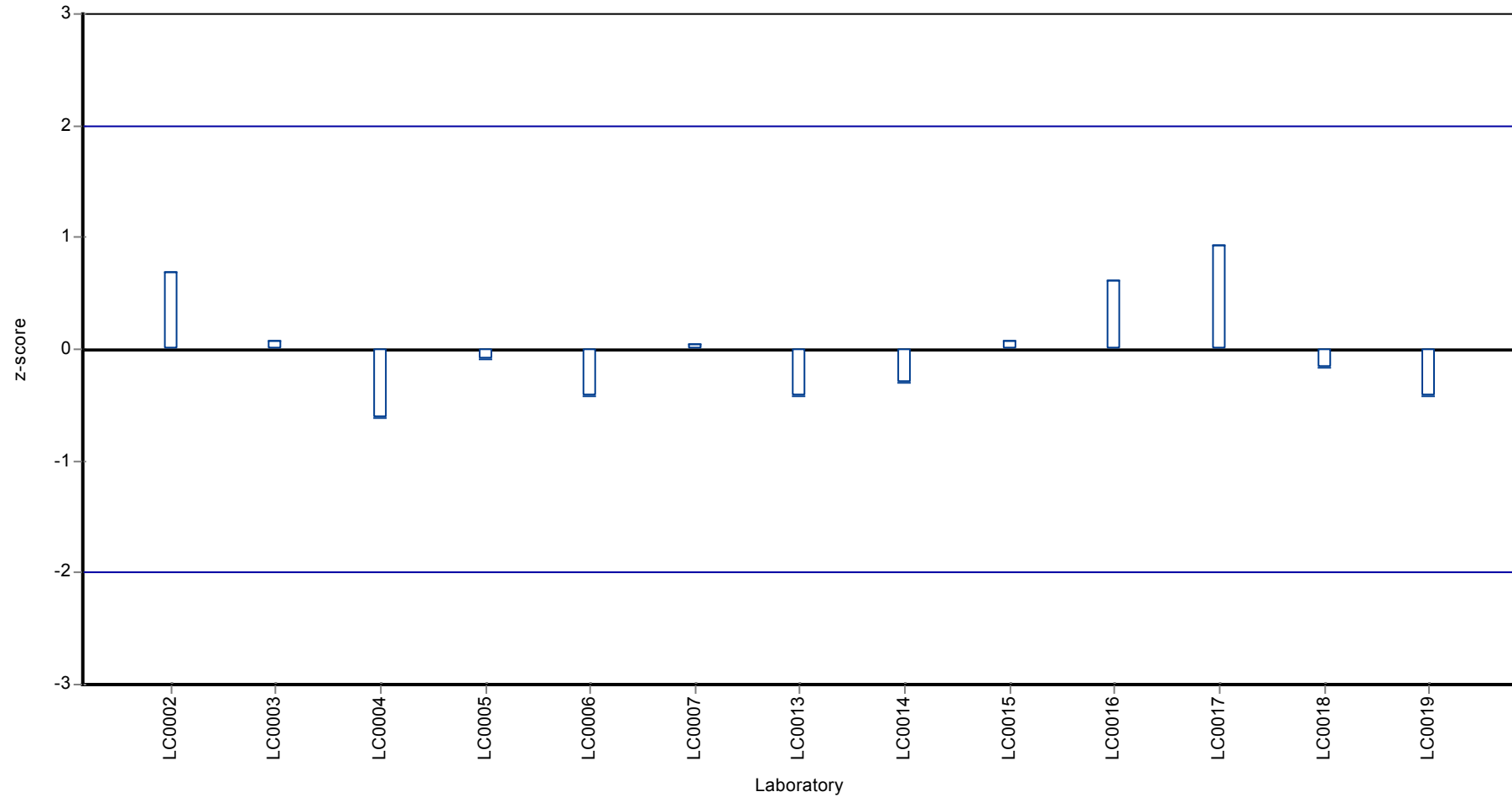
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 A

#### Benzo[a]anthracene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 40.9 ± 5.55 |
| Criterion                    | 10.4 (25 %) |
| Minimum - Maximum            | 20 - 55     |
| Control test value ± U (k=2) | 51.4 ± 12.3 |

| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 48.2         | 1.14 | 118          | 0.7     |          |
| LC0003  | 45           | 8    | 110          | 0.39    |          |
| LC0004  | 52           | 16.1 | 127          | 1.07    |          |
| LC0005  | 29.2         | 12.8 | 71.4         | -1.13   |          |
| LC0006  | 30           | 13.2 | 73.3         | -1.05   |          |
| LC0007  | 43.83        | 4.82 | 107          | 0.28    |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | 30           | 6    | 73.3         | -1.05   |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 20           | 10   | 48.9         | -2.01   |          |
| LC0014  | 35.4         | 10.6 | 86.5         | -0.53   |          |
| LC0015  | 55           | 17   | 134          | 1.36    |          |
| LC0016  | 46.13        | 4.65 | 113          | 0.5     |          |
| LC0017  | 50           | 4.75 | 122          | 0.88    |          |
| LC0018  | 48           | 5    | 117          | 0.68    |          |
| LC0019  | 40           | 12   | 97.8         | -0.09   |          |

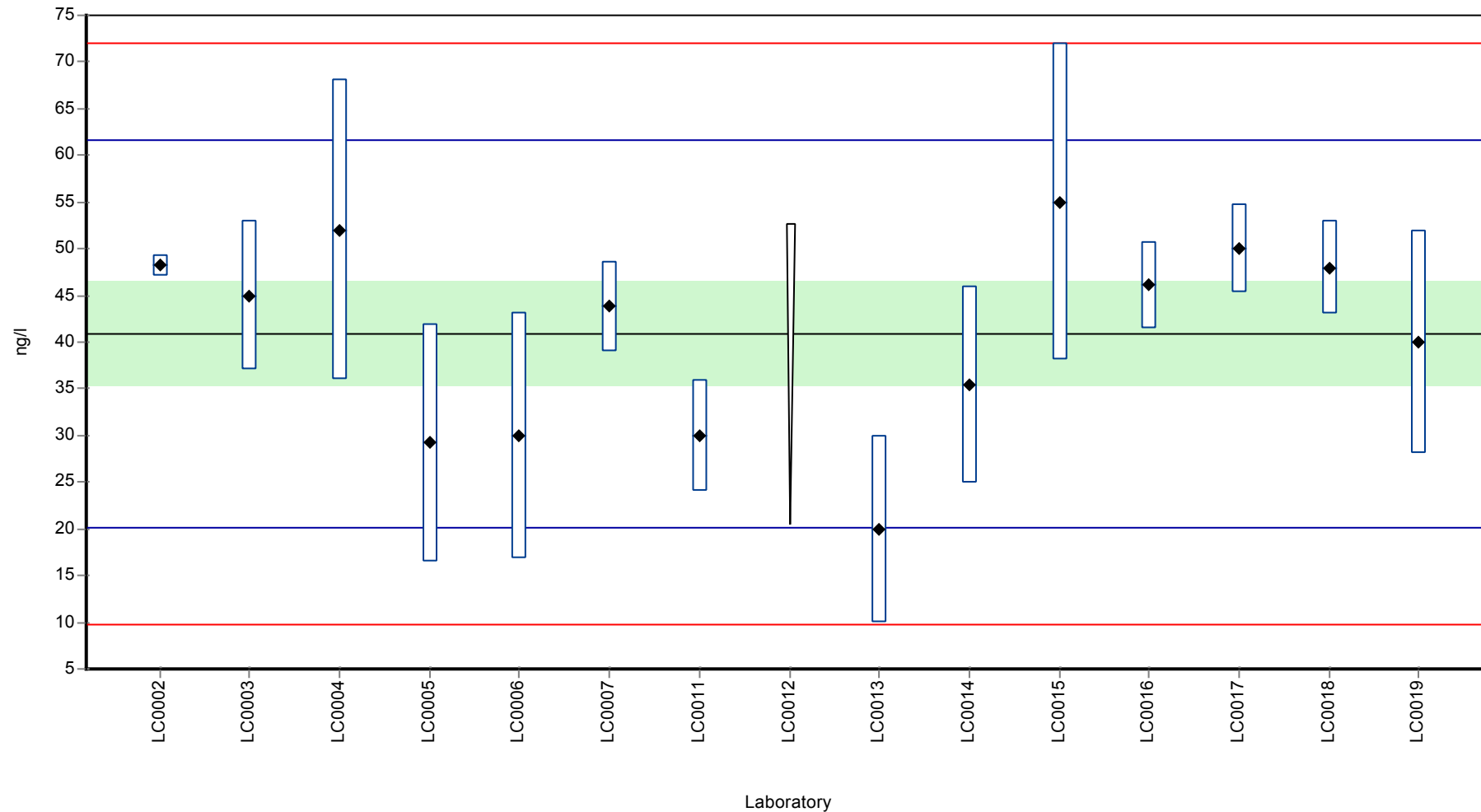
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 40.9 ± 8.33 | 40.9 ± 8.33      | ng/l |
| Minimum                 | 20          | 20               | ng/l |
| Maximum                 | 55          | 55               | ng/l |
| Standard deviation      | 10.4        | 10.4             | ng/l |
| rel. standard deviation | 25.4        | 25.4             | %    |
| n                       | 14          | 14               | -    |

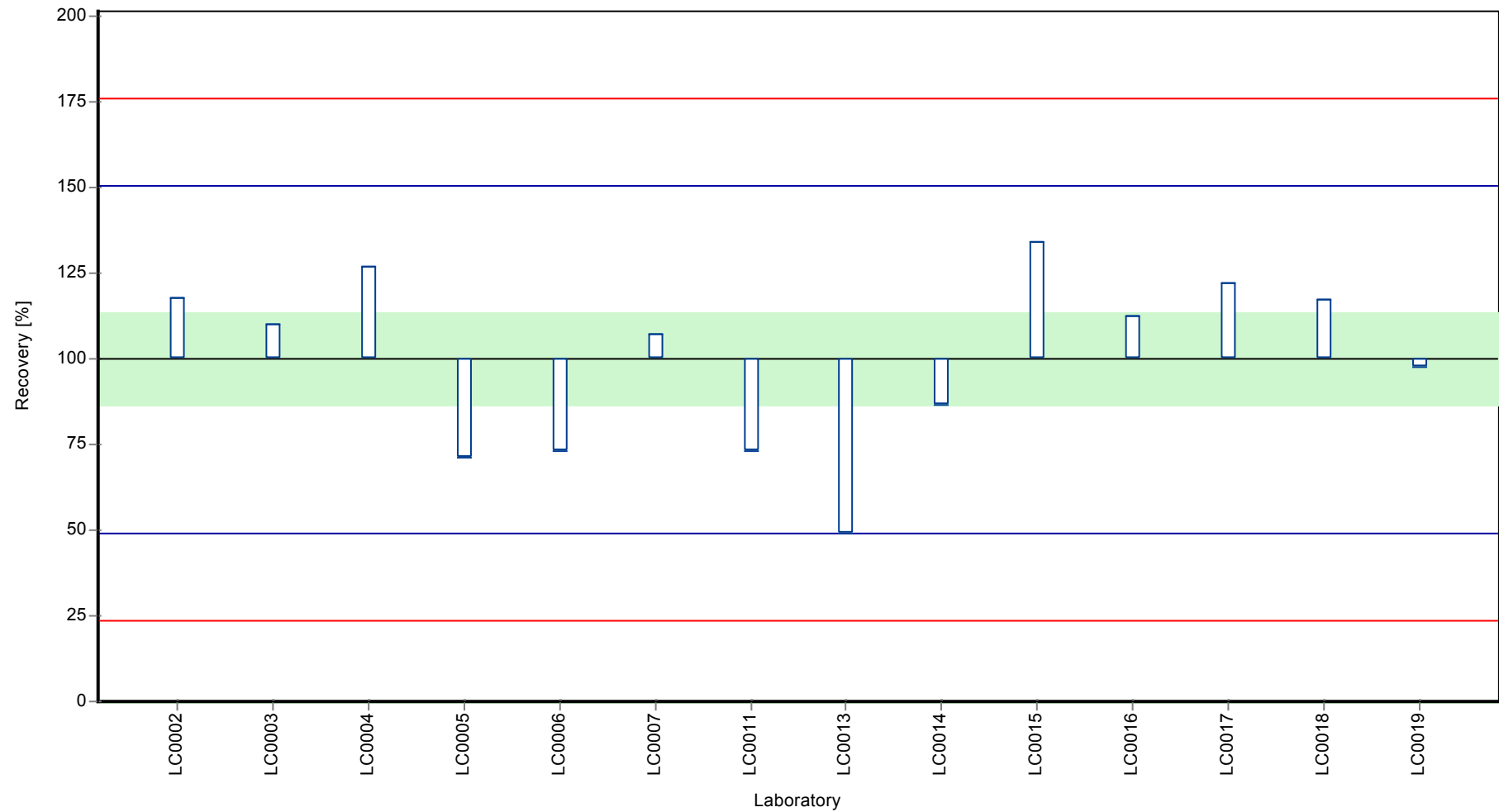


Graphical presentation of results

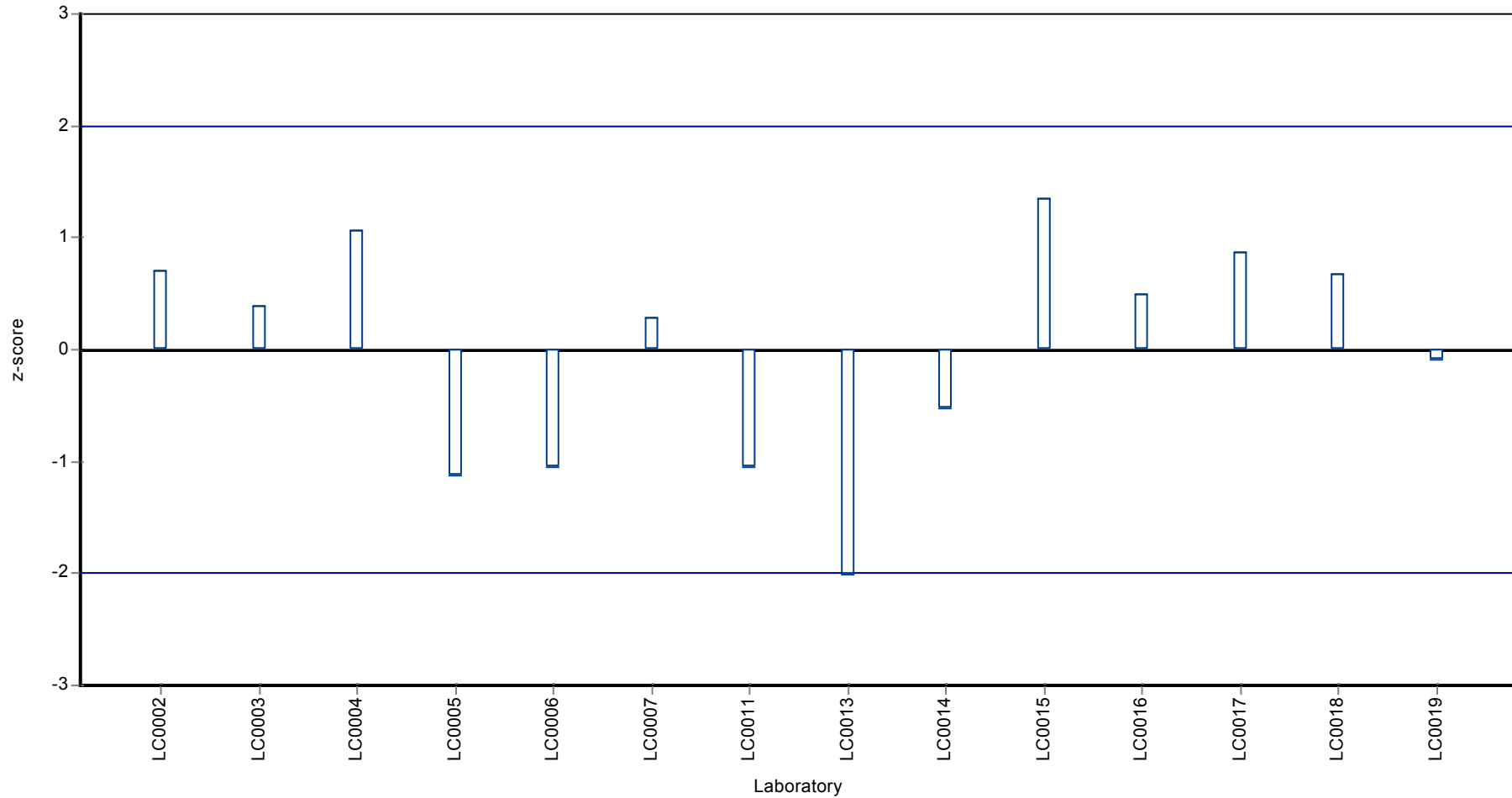
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 B

#### Benzo[a]anthracene

|                              |              |
|------------------------------|--------------|
| Unit                         | ng/l         |
| Assigned value ± U (k=2)     | 9.26 ± 0.668 |
| Criterion                    | 1.67 (18 %)  |
| Minimum - Maximum            | 7.6 - 10.4   |
| Control test value ± U (k=2) | 9.08 ± 2.18  |

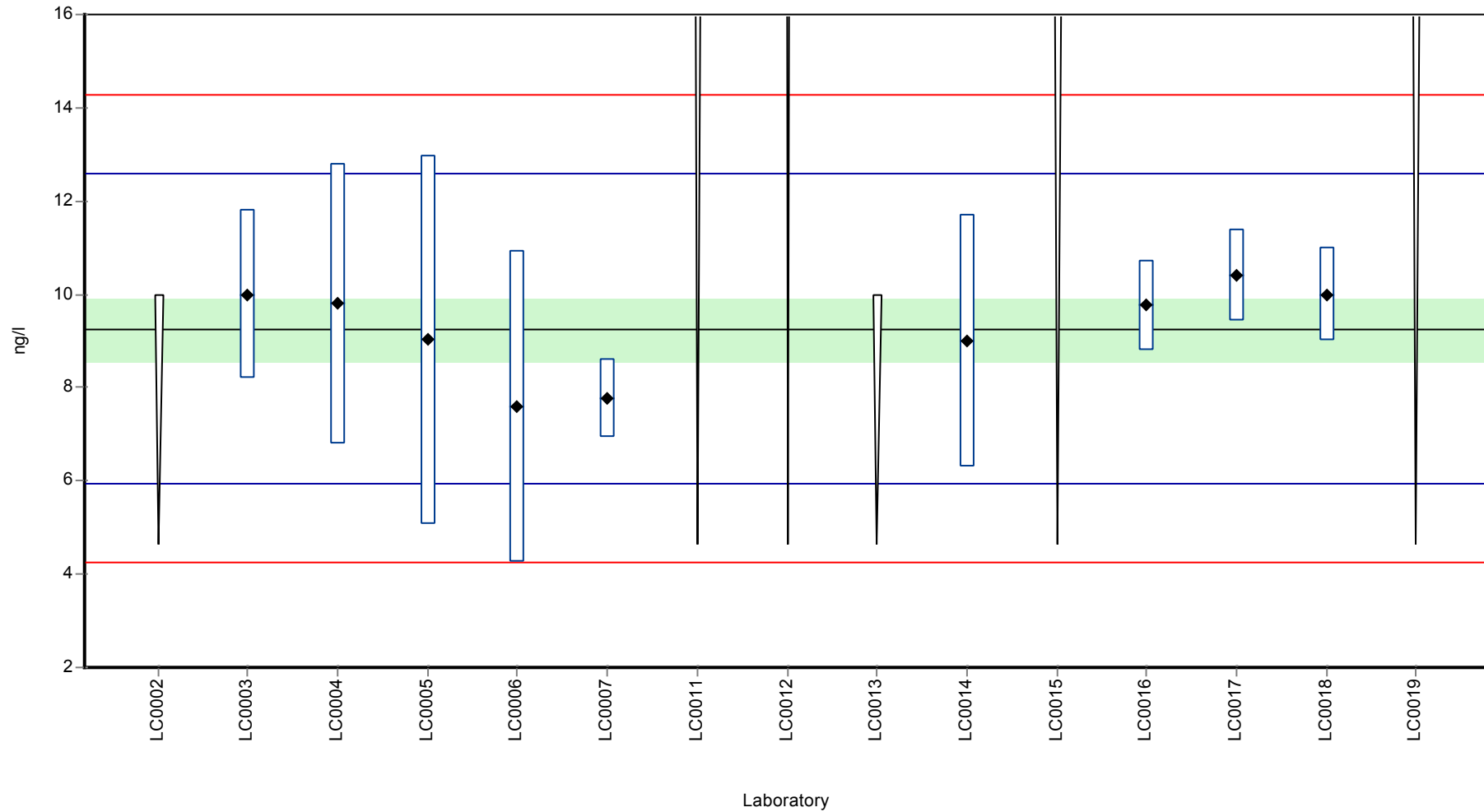
| Labcode | Result       | ± U   | Recovery [%] | z-score | Comments |
|---------|--------------|-------|--------------|---------|----------|
| LC0001  | -            | -     | -            | -       |          |
| LC0002  | < 10 (LOQ)   | -     | -            | -       |          |
| LC0003  | 10           | 1.8   | 108          | 0.44    |          |
| LC0004  | 9.8          | 3     | 106          | 0.32    |          |
| LC0005  | 9.02         | 3.97  | 97.4         | -0.14   |          |
| LC0006  | 7.6          | 3.34  | 82.1         | -1      |          |
| LC0007  | 7.77         | 0.85  | 83.9         | -0.89   |          |
| LC0008  | -            | -     | -            | -       |          |
| LC0009  | -            | -     | -            | -       |          |
| LC0010  | -            | -     | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -     | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -     | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -     | -            | -       |          |
| LC0014  | 9            | 2.7   | 97.2         | -0.16   |          |
| LC0015  | < 20 (LOQ)   | -     | -            | -       |          |
| LC0016  | 9.76         | 0.98  | 105          | 0.3     |          |
| LC0017  | 10.4         | 0.992 | 112          | 0.68    |          |
| LC0018  | 10           | 1     | 108          | 0.44    |          |
| LC0019  | < 20 (LOQ)   | -     | -            | -       |          |

#### Characteristics of parameter

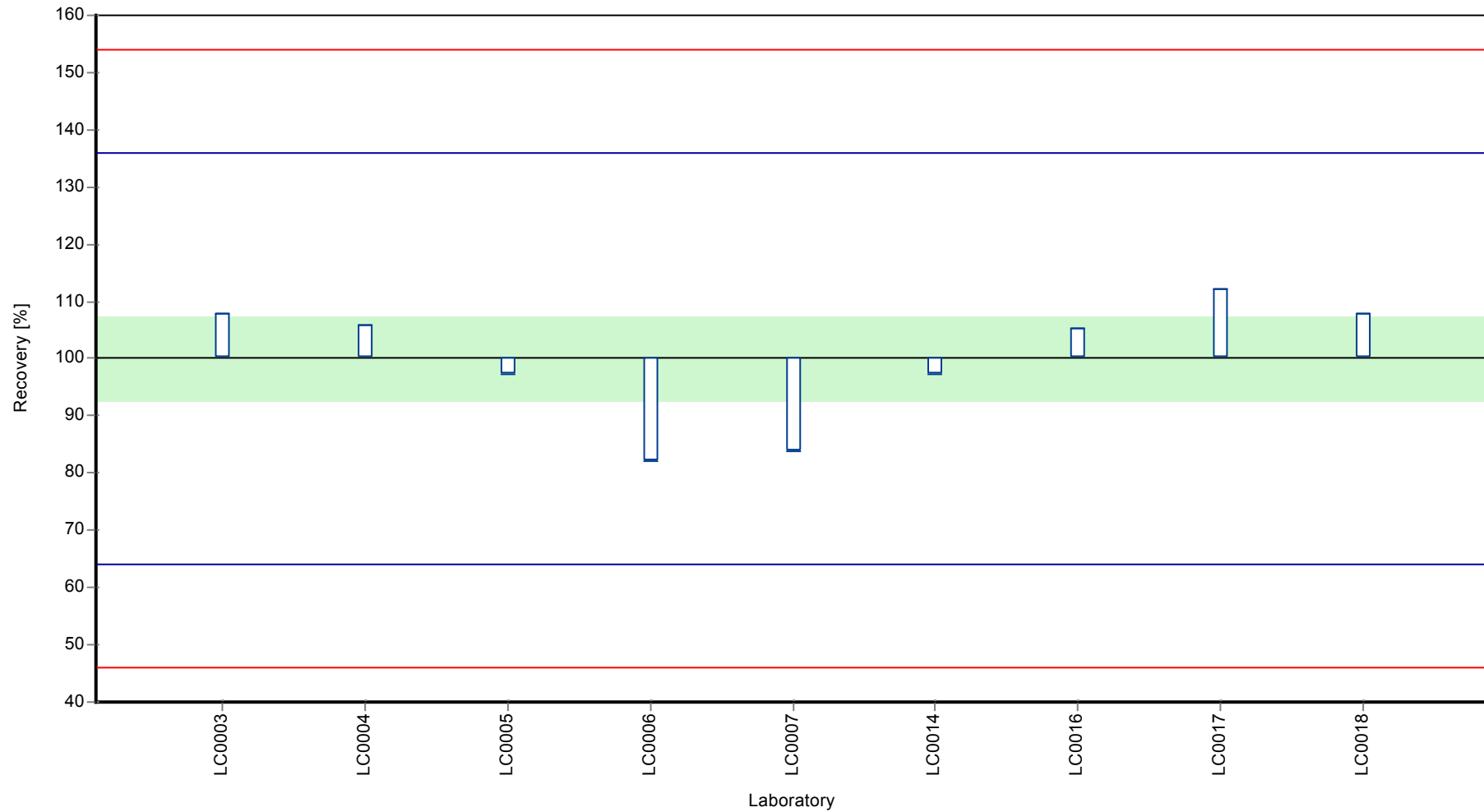
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 9.26 ± 1    | 9.26 ± 1         | ng/l |
| Minimum                 | 7.6         | 7.6              | ng/l |
| Maximum                 | 10.4        | 10.4             | ng/l |
| Standard deviation      | 1           | 1                | ng/l |
| rel. standard deviation | 10.8        | 10.8             | %    |
| n                       | 9           | 9                | -    |

Graphical presentation of results

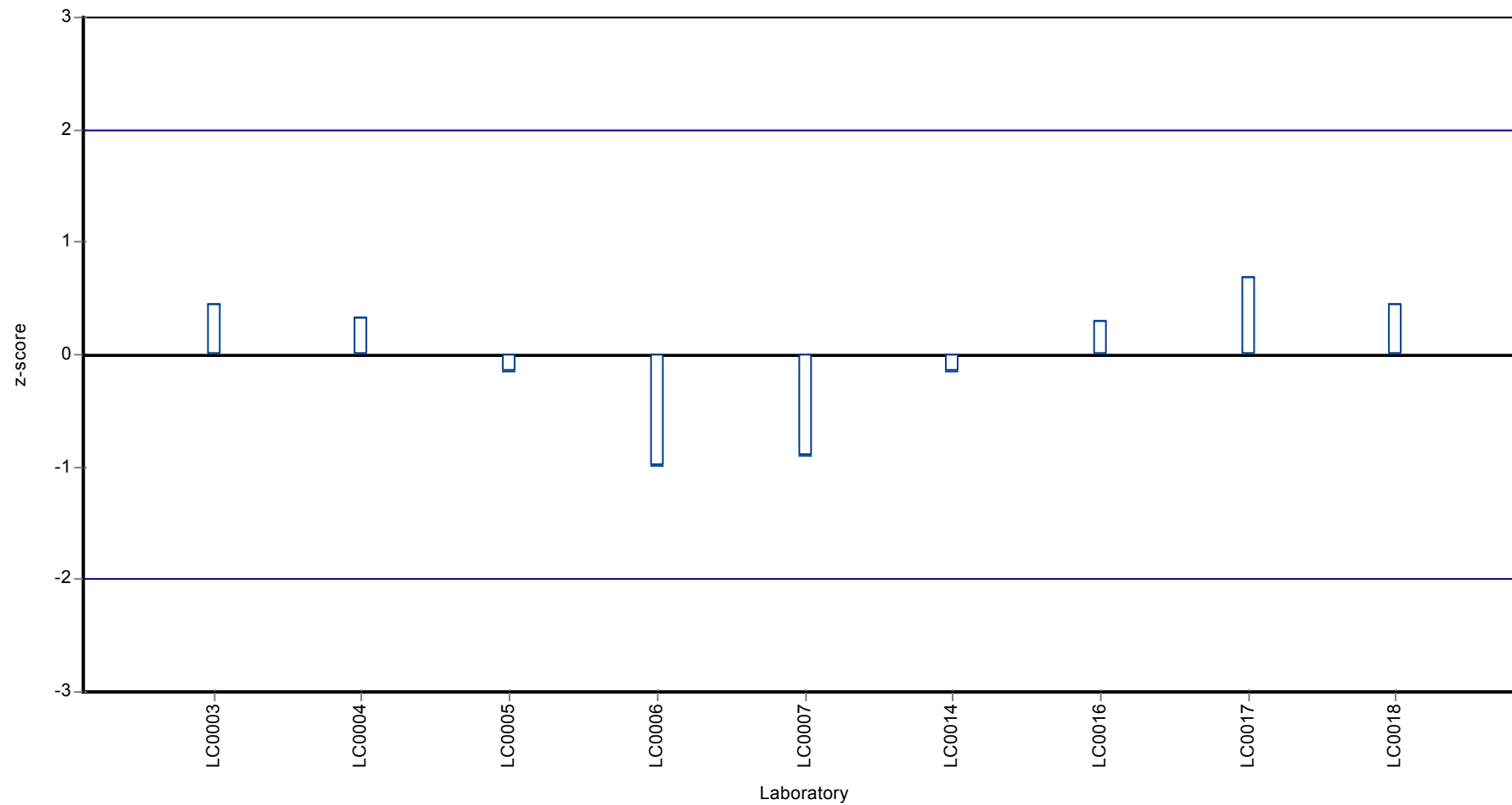
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 A

#### Benzo[a]pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 57.6 ± 9.56 |
| Criterion                    | 13.3 (23 %) |
| Minimum - Maximum            | 26 - 85     |
| Control test value ± U (k=2) | 75.7 ± 21.2 |

| Labcode | Result     | ± U   | Recovery [%] | z-score | Comments |
|---------|------------|-------|--------------|---------|----------|
| LC0001  | -          | -     | -            | -       |          |
| LC0002  | 75         | 1.21  | 130          | 1.31    |          |
| LC0003  | 69         | 10    | 120          | 0.86    |          |
| LC0004  | 57.3       | 17.8  | 99.4         | -0.02   |          |
| LC0005  | 44.2       | 19.4  | 76.7         | -1.01   |          |
| LC0006  | 28.5       | 12.54 | 49.5         | -2.2    |          |
| LC0007  | 61.04      | 13.43 | 106          | 0.26    |          |
| LC0008  | -          | -     | -            | -       |          |
| LC0009  | 40.3       | 12.1  | 69.9         | -1.31   |          |
| LC0010  | 146.7      | 44.02 | 255          | 6.72    | H        |
| LC0011  | 26         | 5     | 45.1         | -2.39   |          |
| LC0012  | 63.8       | 6.4   | 111          | 0.47    |          |
| LC0013  | < 10 (LOQ) | -     | -            | -       |          |
| LC0014  | 34.4       | 10.3  | 59.7         | -1.75   |          |
| LC0015  | 85         | 26    | 147          | 2.07    |          |
| LC0016  | 70.38      | 7.1   | 122          | 0.96    |          |
| LC0017  | 76.5       | 7.96  | 133          | 1.42    |          |
| LC0018  | 70         | 7     | 121          | 0.93    |          |
| LC0019  | 63         | 19    | 109          | 0.41    |          |

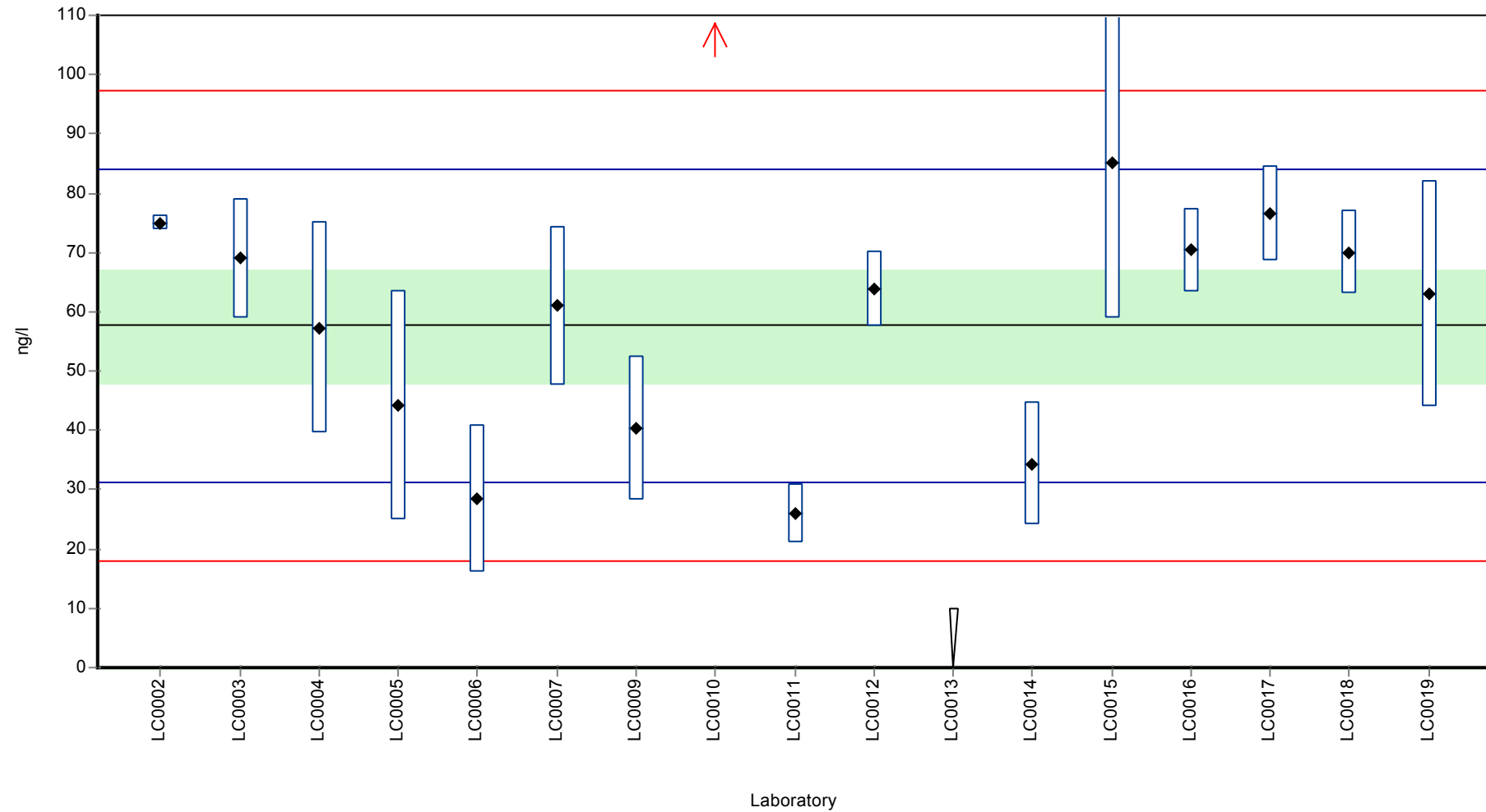
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 63.2 ± 21.4 | 57.6 ± 14.3      | ng/l |
| Minimum                 | 26          | 26               | ng/l |
| Maximum                 | 147         | 85               | ng/l |
| Standard deviation      | 28.6        | 18.5             | ng/l |
| rel. standard deviation | 45.2        | 32.1             | %    |
| n                       | 16          | 15               | -    |

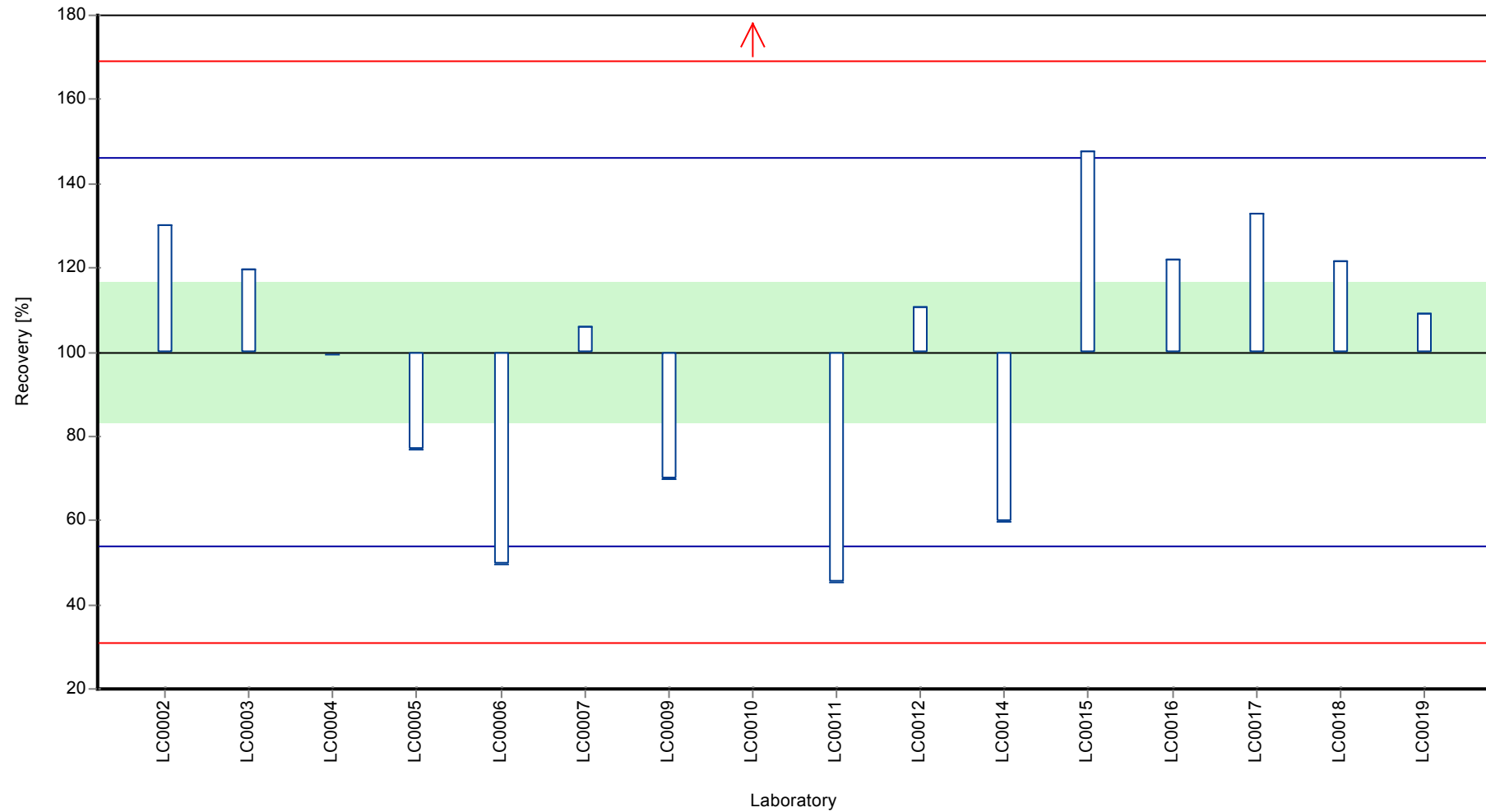


Graphical presentation of results

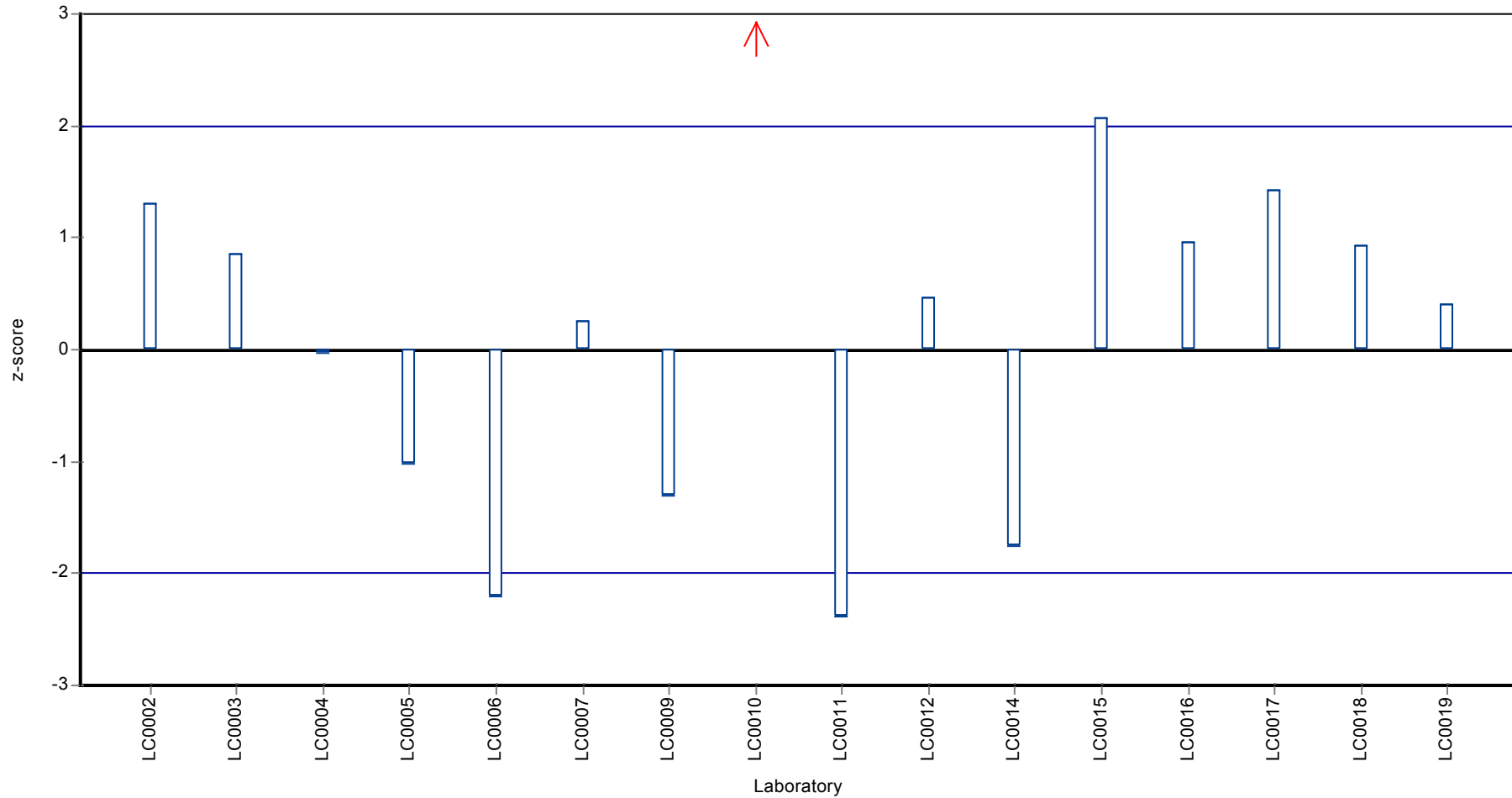
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Benzo[a]pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 9.87 ± 1.48 |
| Criterion                    | 2.27 (23 %) |
| Minimum - Maximum            | 6.2 - 13.3  |
| Control test value ± U (k=2) | 9.72 ± 2.72 |

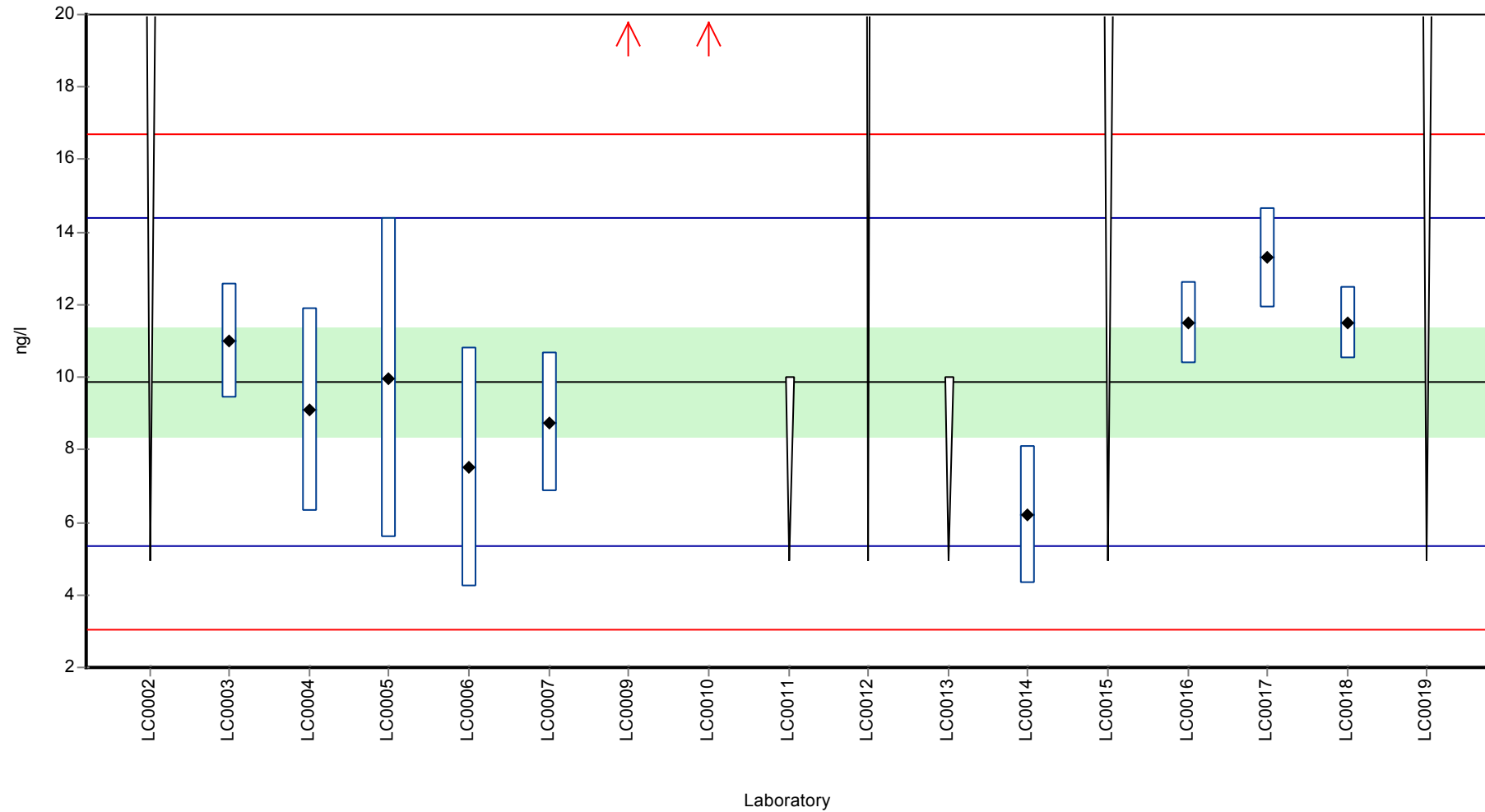
| Labcode | Result       | ± U   | Recovery [%] | z-score | Comments |
|---------|--------------|-------|--------------|---------|----------|
| LC0001  | -            | -     | -            | -       |          |
| LC0002  | < 20 (LOQ)   | -     | -            | -       |          |
| LC0003  | 11           | 1.6   | 111          | 0.5     |          |
| LC0004  | 9.1          | 2.8   | 92.2         | -0.34   |          |
| LC0005  | 9.98         | 4.39  | 101          | 0.05    |          |
| LC0006  | 7.5          | 3.3   | 76           | -1.04   |          |
| LC0007  | 8.76         | 1.93  | 88.7         | -0.49   |          |
| LC0008  | -            | -     | -            | -       |          |
| LC0009  | 29           | 8.7   | 294          | 8.43    | H        |
| LC0010  | 35.6         | 10.68 | 361          | 11.3    | H        |
| LC0011  | < 10 (LOQ)   | -     | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -     | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -     | -            | -       |          |
| LC0014  | 6.2          | 1.9   | 62.8         | -1.62   |          |
| LC0015  | < 20 (LOQ)   | -     | -            | -       |          |
| LC0016  | 11.5         | 1.15  | 117          | 0.72    |          |
| LC0017  | 13.3         | 1.38  | 135          | 1.51    |          |
| LC0018  | 11.5         | 1     | 117          | 0.72    |          |
| LC0019  | < 20 (LOQ)   | -     | -            | -       |          |

#### Characteristics of parameter

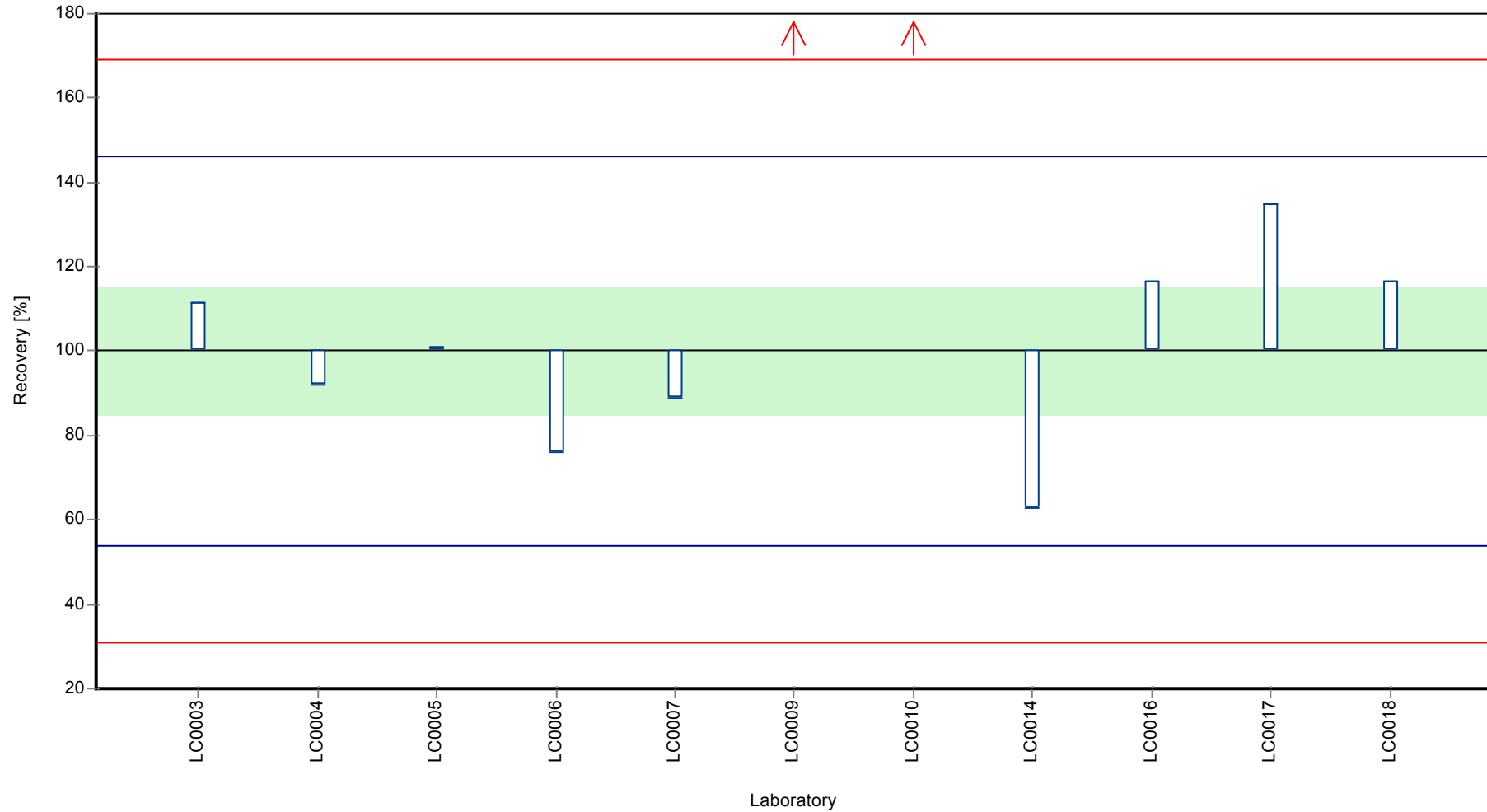
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 13.9 ± 8.51 | 9.87 ± 2.22      | ng/l |
| Minimum                 | 6.2         | 6.2              | ng/l |
| Maximum                 | 35.6        | 13.3             | ng/l |
| Standard deviation      | 9.4         | 2.22             | ng/l |
| rel. standard deviation | 67.4        | 22.4             | %    |
| n                       | 11          | 9                | -    |

Graphical presentation of results

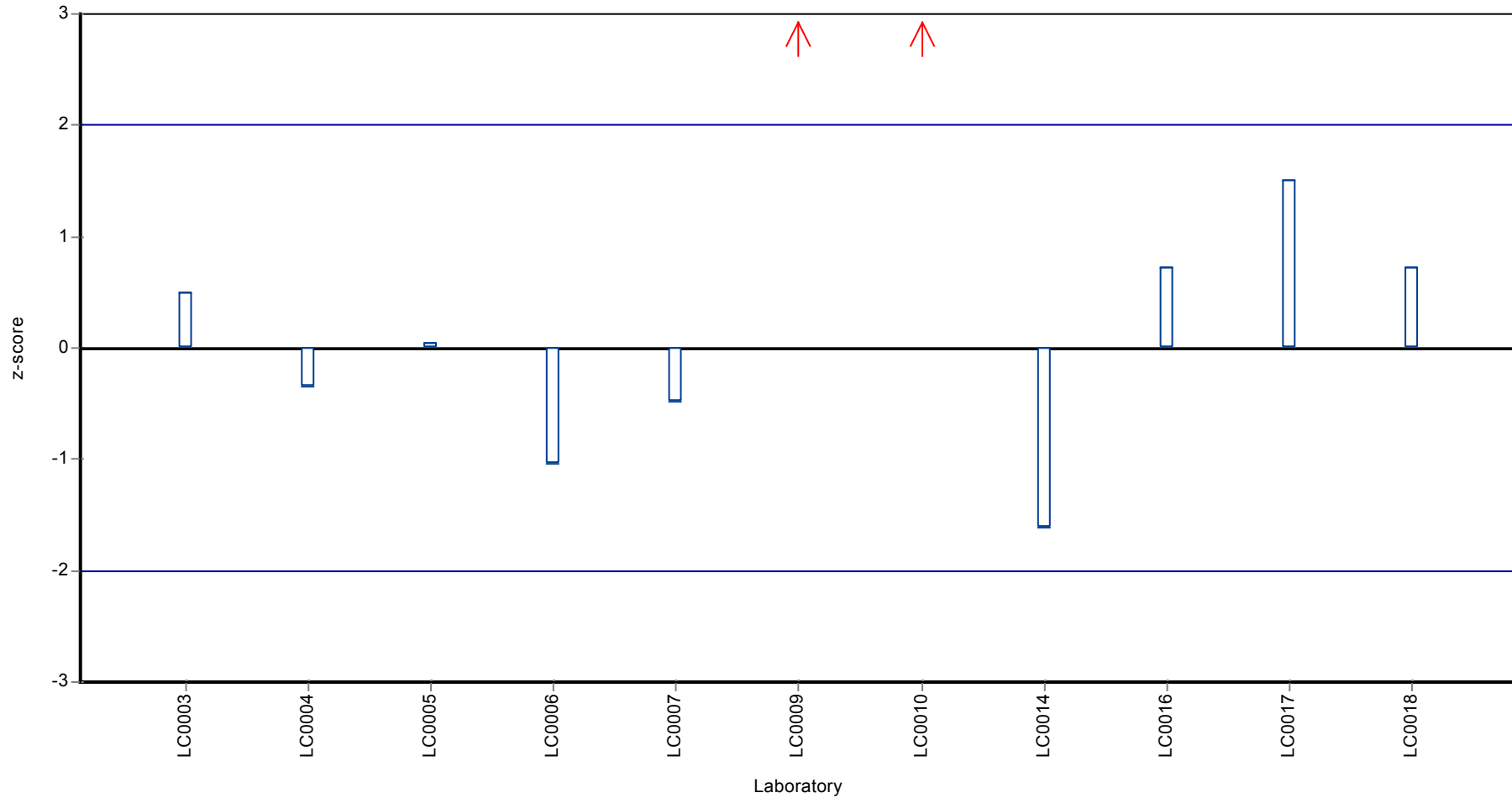
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Benzo[b]fluoranthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 185 ± 12.1  |
| Criterion                    | 33.3 (18 %) |
| Minimum - Maximum            | 150 - 233   |
| Control test value ± U (k=2) | 196 ± 50.9  |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 233    | 6.35  | 126          | 1.45    |          |
| LC0003  | 180    | 47    | 97.4         | -0.14   |          |
| LC0004  | 184    | 57.1  | 99.6         | -0.02   |          |
| LC0005  | 102    | 45    | 55.2         | -2.49   | H        |
| LC0006  | 150.8  | 66.35 | 81.6         | -1.02   |          |
| LC0007  | 173.78 | 24.33 | 94.1         | -0.33   |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | 187    | 56    | 101          | 0.07    |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 91     | 18    | 49.3         | -2.82   | H        |
| LC0012  | 186    | 18.6  | 101          | 0.04    |          |
| LC0013  | 150    | 30    | 81.2         | -1.04   |          |
| LC0014  | 176.8  | 53.1  | 95.7         | -0.24   |          |
| LC0015  | 243    | 75    | 132          | 1.75    | H        |
| LC0016  | 191.25 | 19.15 | 104          | 0.2     |          |
| LC0017  | 211    | 21.3  | 114          | 0.79    |          |
| LC0018  | 195    | 20    | 106          | 0.31    |          |
| LC0019  | 183    | 55    | 99.1         | -0.05   |          |

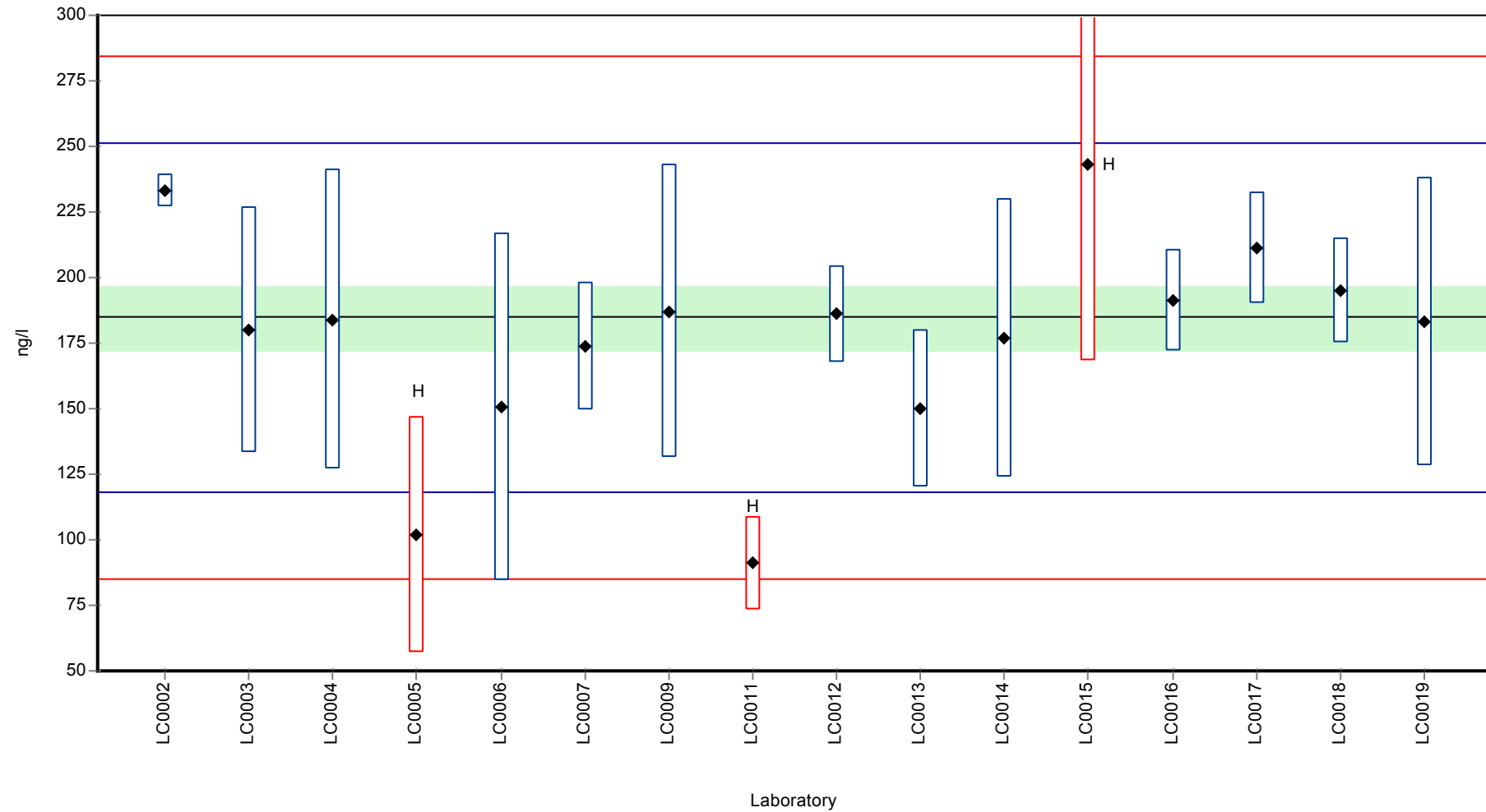
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 177 ± 29.9  | 185 ± 18.2       | ng/l |
| Minimum                 | 91          | 150              | ng/l |
| Maximum                 | 243         | 233              | ng/l |
| Standard deviation      | 39.9        | 21.9             | ng/l |
| rel. standard deviation | 22.5        | 11.8             | %    |
| n                       | 16          | 13               | -    |

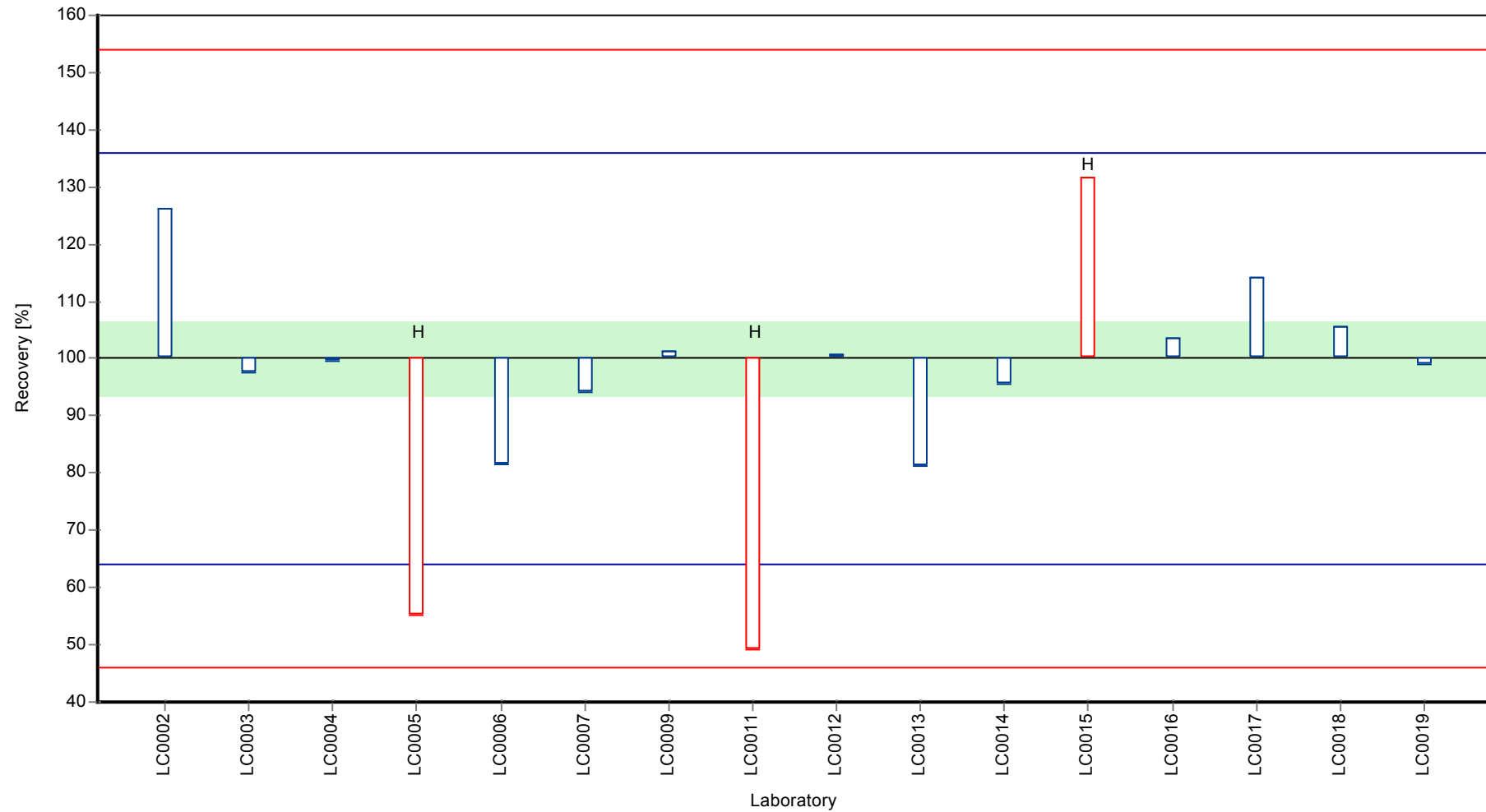


Graphical presentation of results

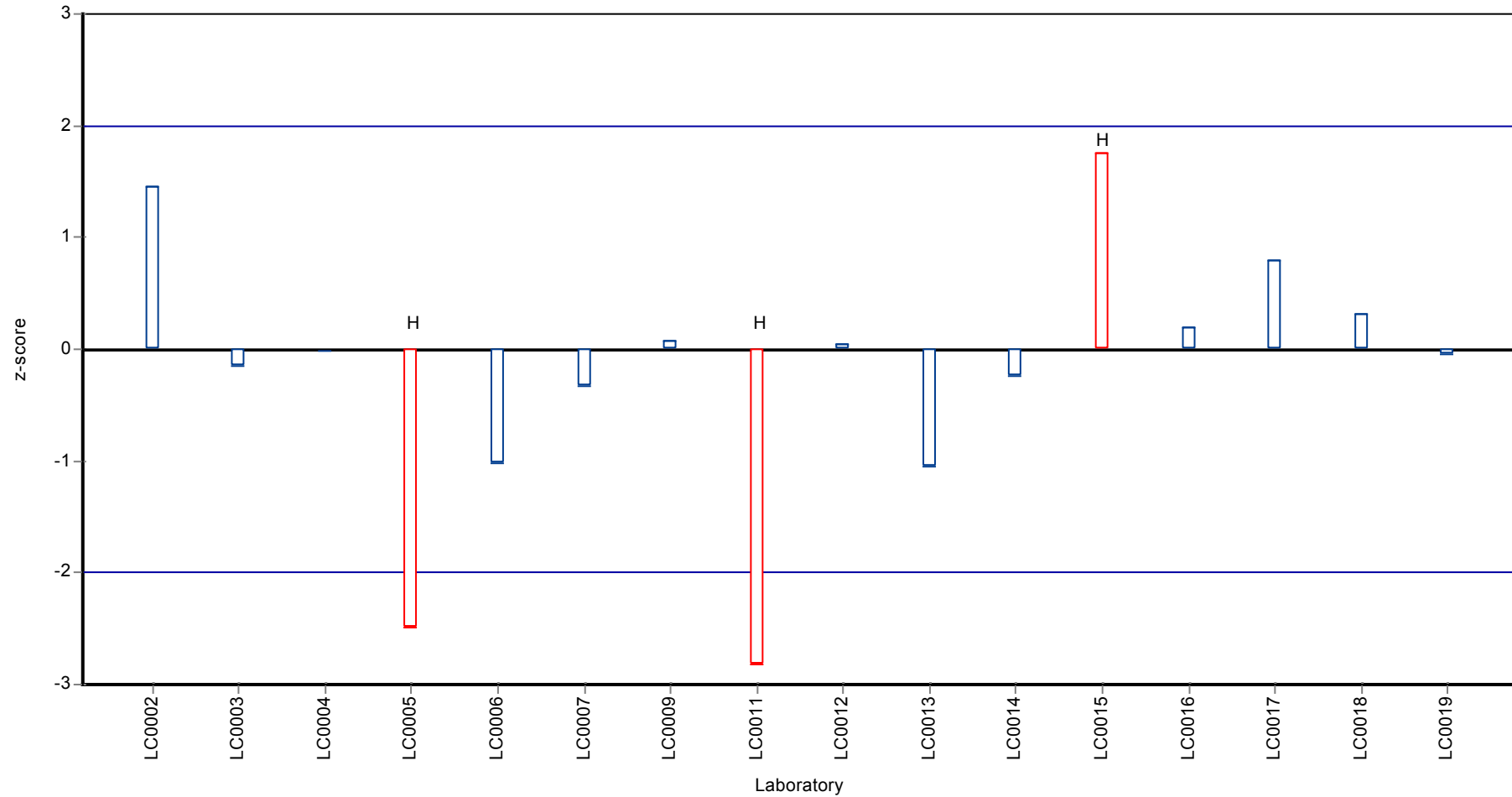
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Benzo[b]fluoranthene

|                              |              |
|------------------------------|--------------|
| Unit                         | ng/l         |
| Assigned value ± U (k=2)     | 6.38 ± 0.696 |
| Criterion                    | 1.15 (18 %)  |
| Minimum - Maximum            | 5.1 - 7      |
| Control test value ± U (k=2) | 5.47 ± 1.42  |

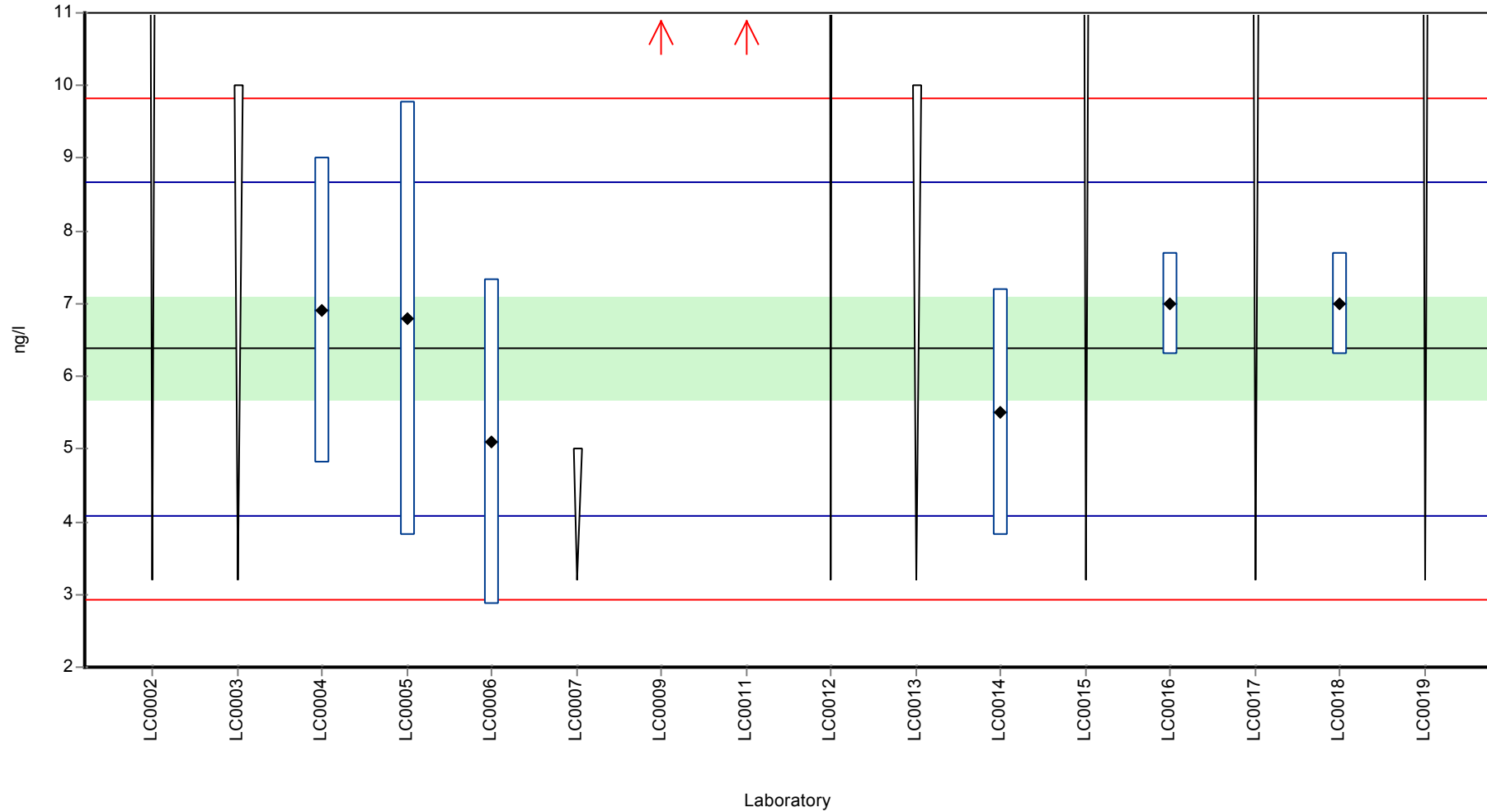
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0003  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0004  | 6.9          | 2.1  | 108          | 0.45    |          |
| LC0005  | 6.8          | 2.99 | 107          | 0.36    |          |
| LC0006  | 5.1          | 2.24 | 79.9         | -1.12   |          |
| LC0007  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | 28.2         | 8.5  | 442          | 19      | H        |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | 24           | 5    | 376          | 15.3    | H        |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0014  | 5.5          | 1.7  | 86.2         | -0.77   |          |
| LC0015  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0016  | 7            | 0.7  | 110          | 0.54    |          |
| LC0017  | < 16.8 (LOQ) | -    | -            | -       |          |
| LC0018  | 7            | 0.7  | 110          | 0.54    |          |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

#### Characteristics of parameter

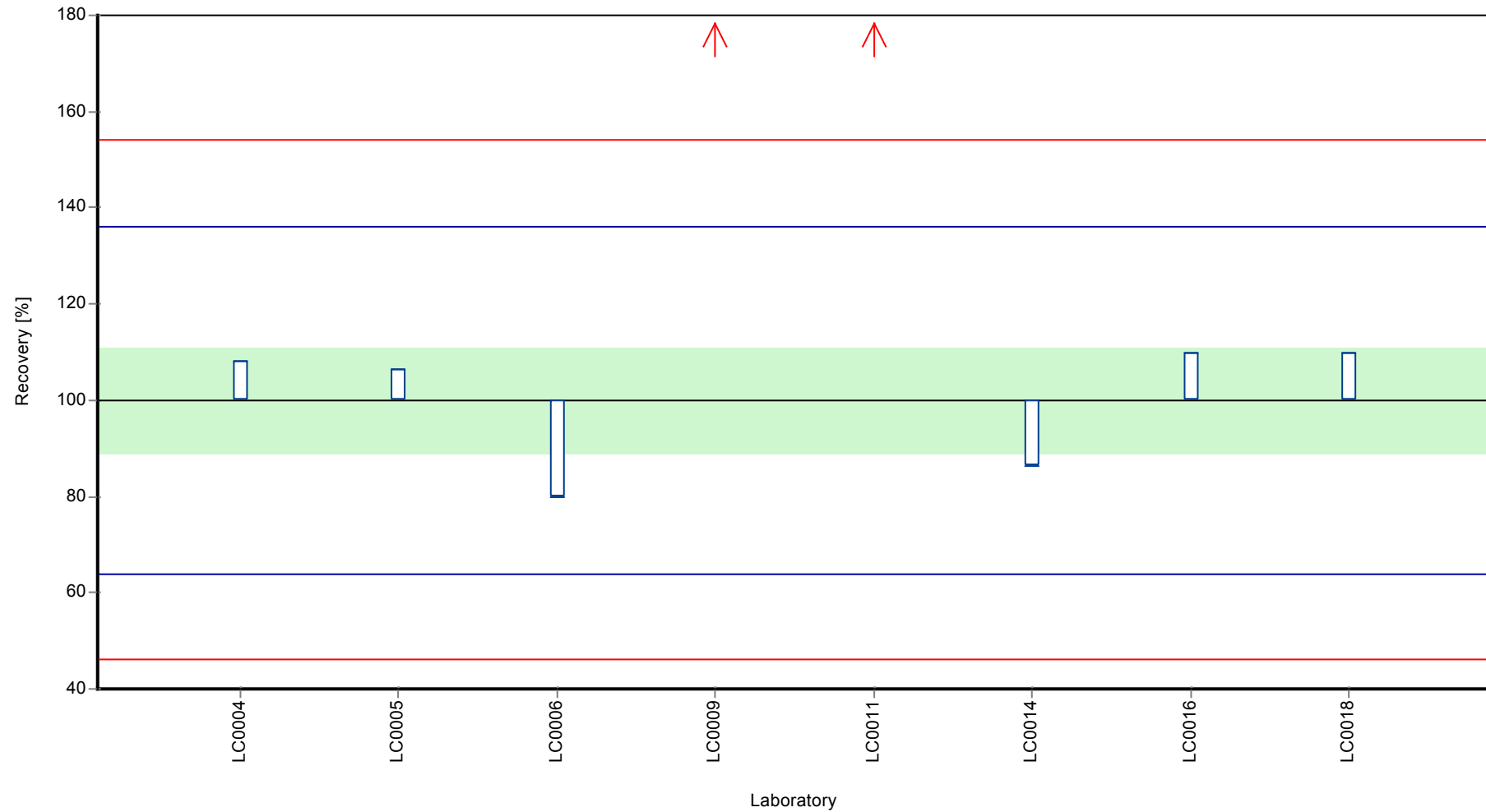
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 11.3 ± 9.78 | 6.38 ± 1.04      | ng/l |
| Minimum                 | 5.1         | 5.1              | ng/l |
| Maximum                 | 28.2        | 7                | ng/l |
| Standard deviation      | 9.22        | 0.852            | ng/l |
| rel. standard deviation | 81.5        | 13.3             | %    |
| n                       | 8           | 6                | -    |

Graphical presentation of results

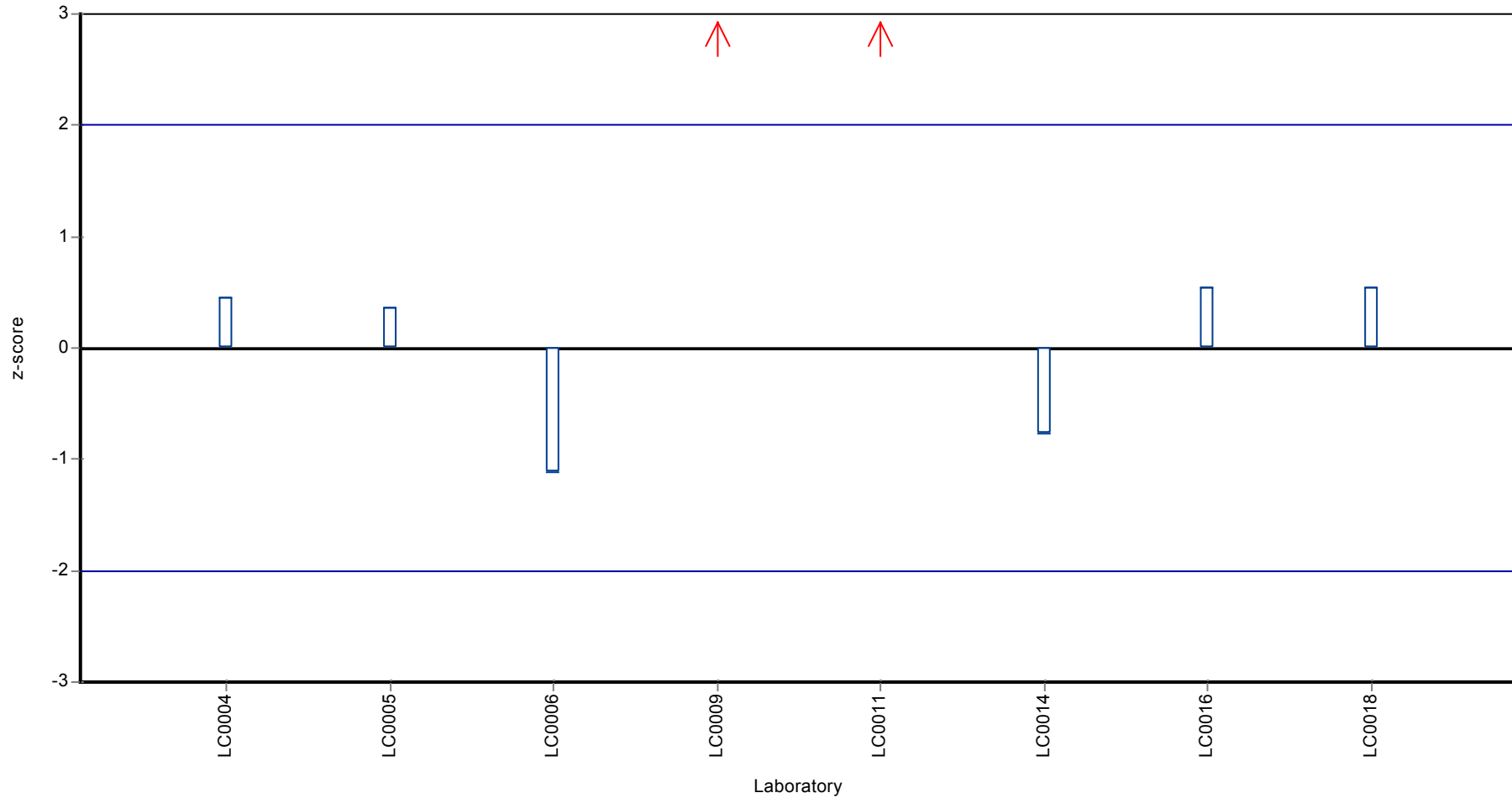
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Benzo[g,h,i]perylene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 203 ± 23.4  |
| Criterion                    | 45.4 (22 %) |
| Minimum - Maximum            | 101 - 278   |
| Control test value ± U (k=2) | 238 ± 76.1  |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 275    | 4.35  | 136          | 1.59    |          |
| LC0003  | 200    | 47    | 98.6         | -0.06   |          |
| LC0004  | 203.2  | 63    | 100          | 0.01    |          |
| LC0005  | 101    | 44    | 49.8         | -2.24   |          |
| LC0006  | 179    | 78.76 | 88.2         | -0.53   |          |
| LC0007  | 201.65 | 32.26 | 99.4         | -0.03   |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | 225    | 68    | 111          | 0.49    |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 82     | 16    | 40.4         | -2.66   | H        |
| LC0012  | 217    | 21.7  | 107          | 0.31    |          |
| LC0013  | 150    | 30    | 73.9         | -1.16   |          |
| LC0014  | 186.8  | 56    | 92.1         | -0.35   |          |
| LC0015  | 278    | 86    | 137          | 1.65    |          |
| LC0016  | 207.38 | 20.75 | 102          | 0.1     |          |
| LC0017  | 234    | 25    | 115          | 0.69    |          |
| LC0018  | 225    | 22    | 111          | 0.49    |          |
| LC0019  | 160    | 48    | 78.9         | -0.94   |          |

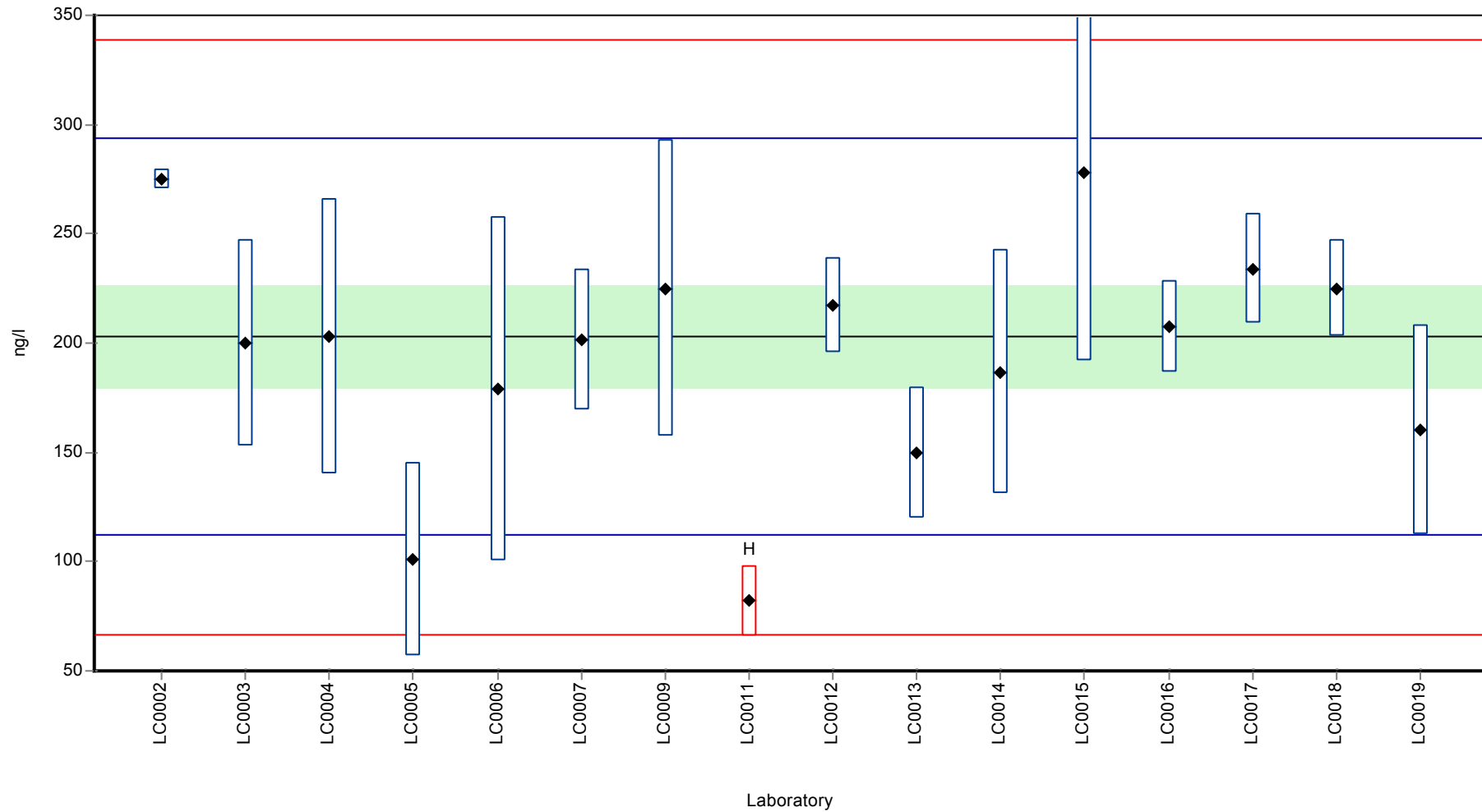
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 195 ± 40    | 203 ± 35.2       | ng/l |
| Minimum                 | 82          | 101              | ng/l |
| Maximum                 | 278         | 278              | ng/l |
| Standard deviation      | 53.3        | 45.4             | ng/l |
| rel. standard deviation | 27.3        | 22.4             | %    |
| n                       | 16          | 15               | -    |

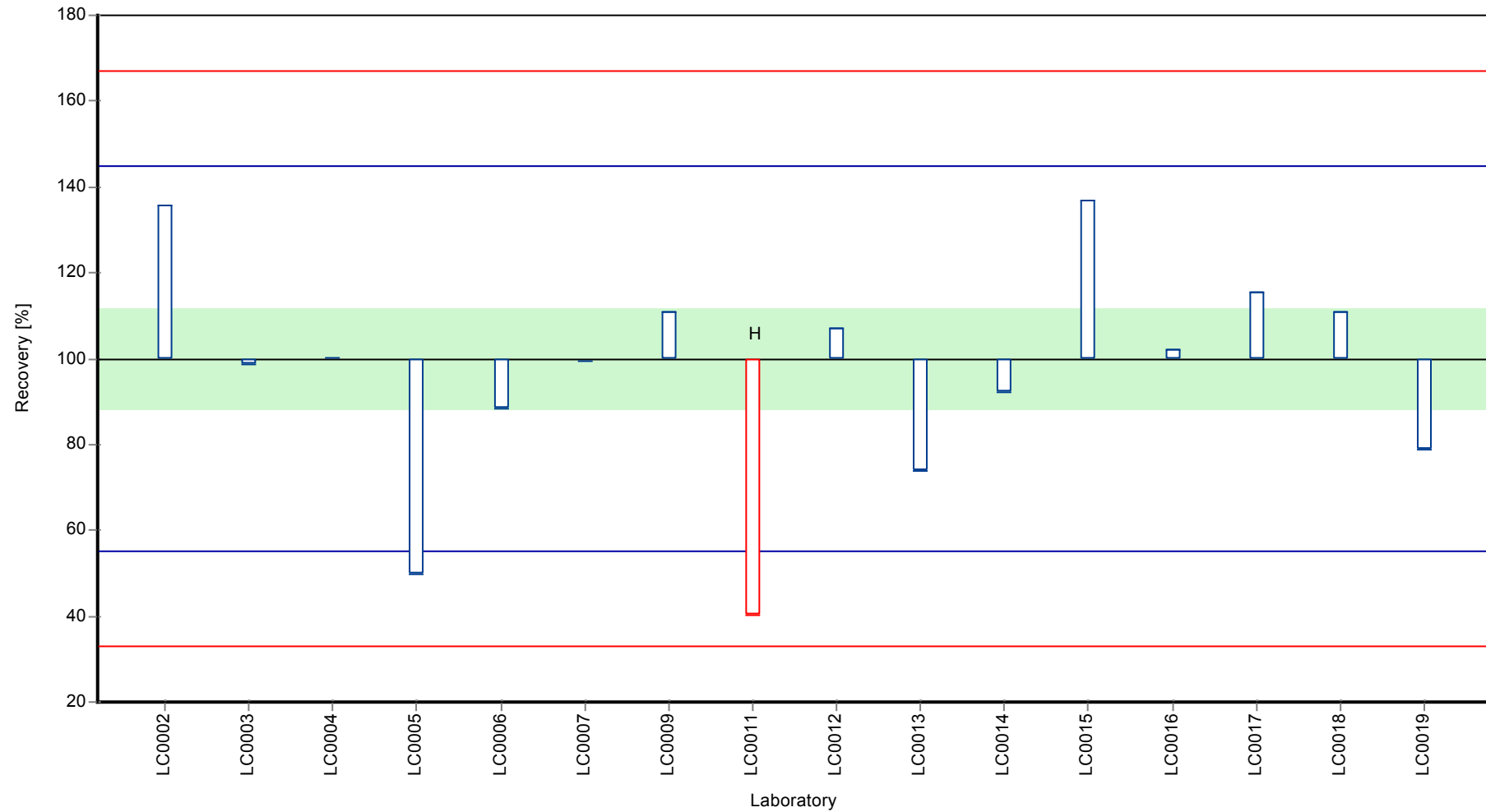


Graphical presentation of results

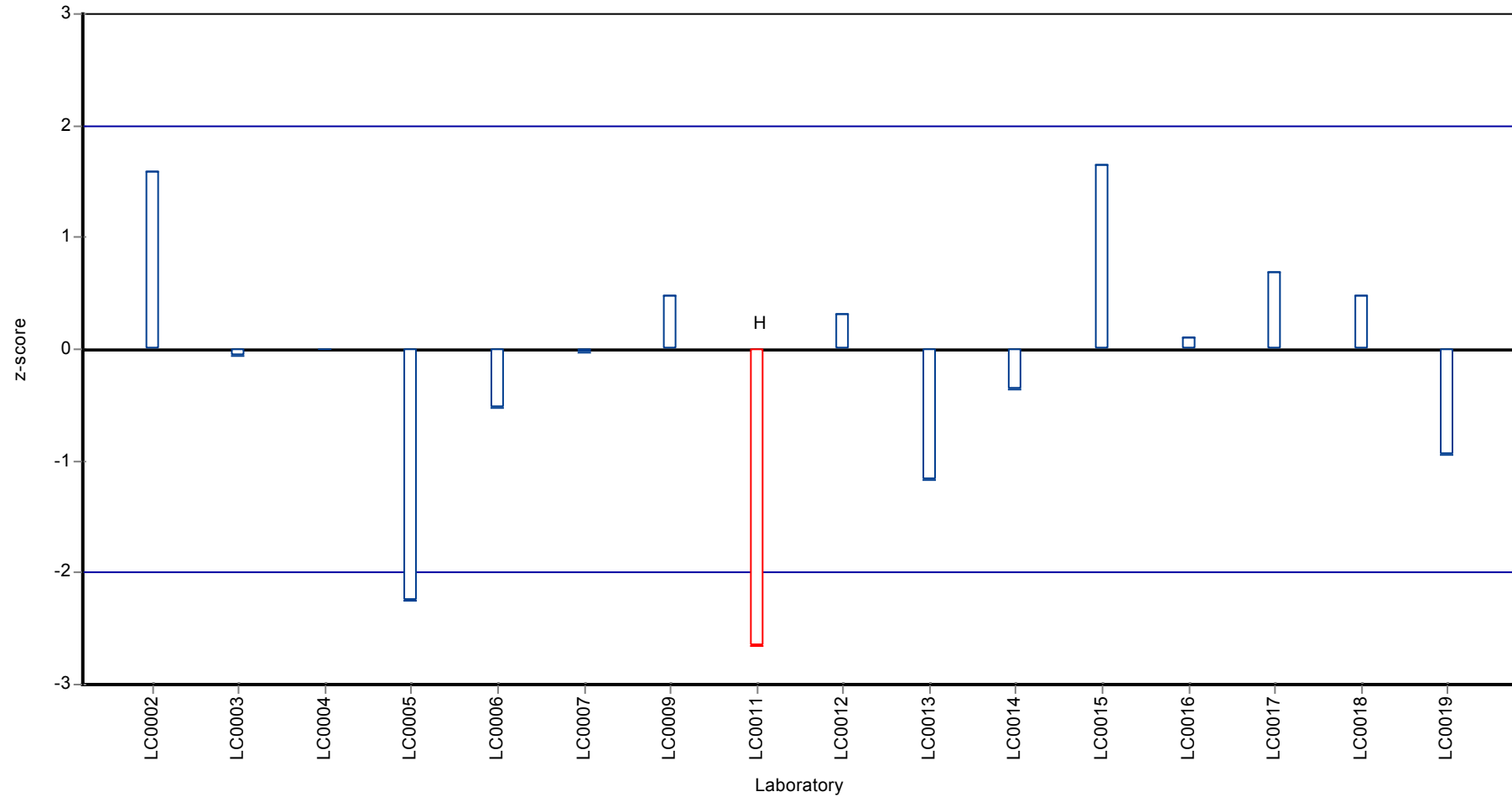
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 B

#### Benzo[g,h,i]perylene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 19.6 ± 4.4  |
| Criterion                    | 6.47 (33 %) |
| Minimum - Maximum            | 12 - 37     |
| Control test value ± U (k=2) | 19.7 ± 6.3  |

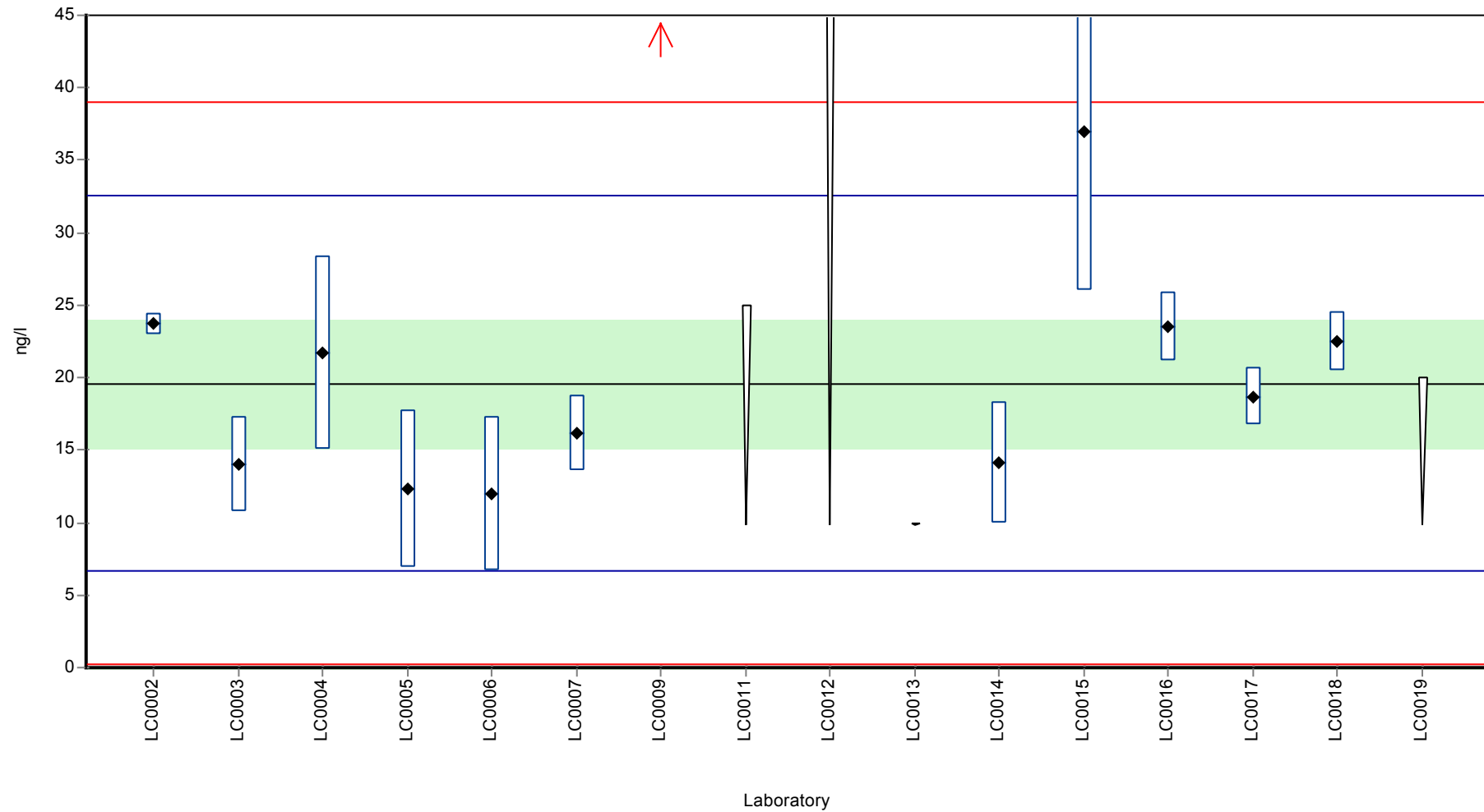
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 23.7         | 0.74 | 121          | 0.63    |          |
| LC0003  | 14           | 3.3  | 71.4         | -0.87   |          |
| LC0004  | 21.7         | 6.7  | 111          | 0.32    |          |
| LC0005  | 12.3         | 5.41 | 62.7         | -1.13   |          |
| LC0006  | 12           | 5.28 | 61.2         | -1.18   |          |
| LC0007  | 16.17        | 2.58 | 82.5         | -0.53   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | 48.4         | 14.5 | 247          | 4.45    | H        |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0014  | 14.1         | 4.2  | 71.9         | -0.85   |          |
| LC0015  | 37           | 11   | 189          | 2.69    |          |
| LC0016  | 23.5         | 2.35 | 120          | 0.6     |          |
| LC0017  | 18.7         | 2    | 95.4         | -0.14   |          |
| LC0018  | 22.5         | 2    | 115          | 0.45    |          |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

#### Characteristics of parameter

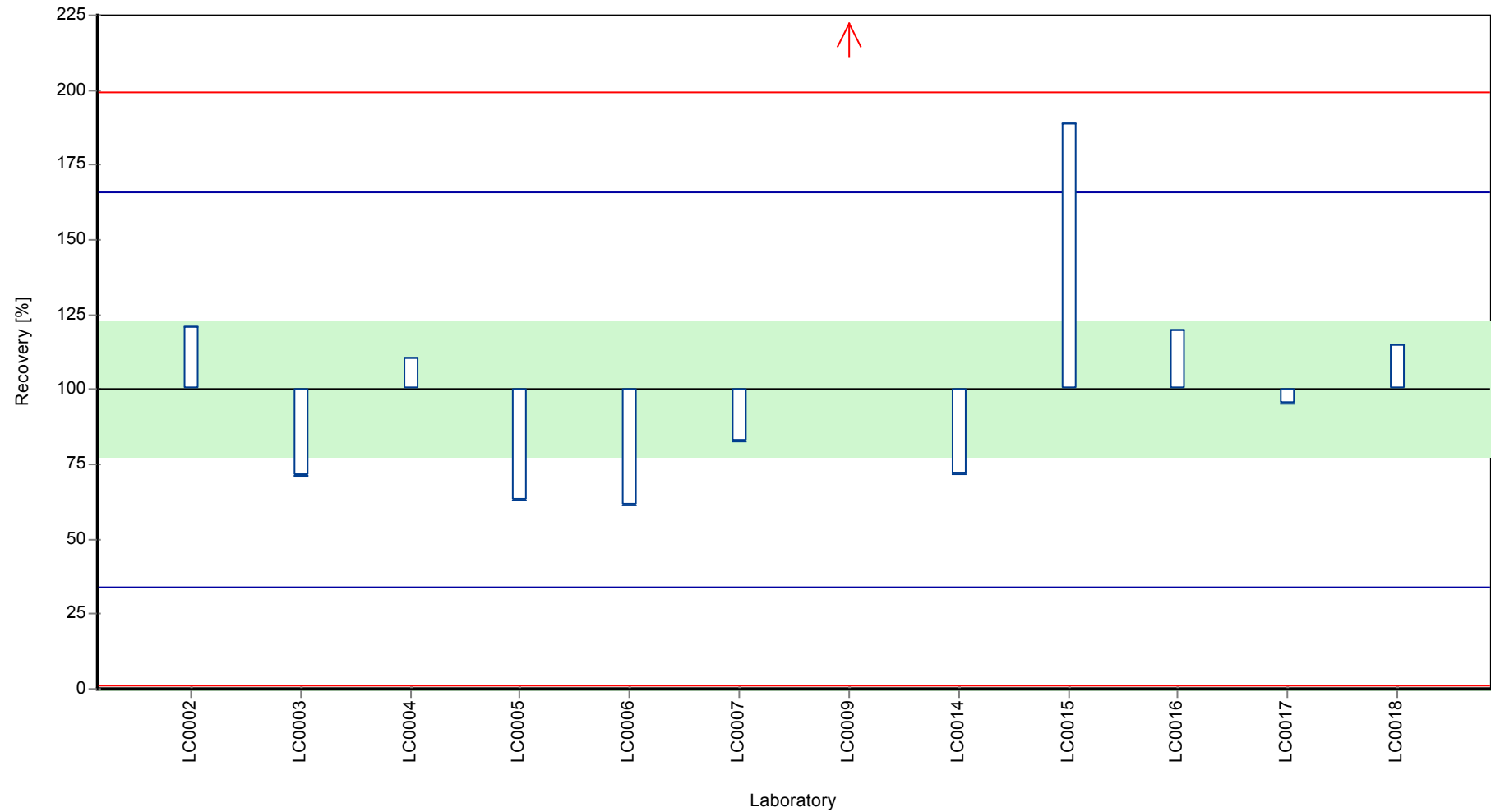
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 22 ± 9.39   | 19.6 ± 6.6       | ng/l |
| Minimum                 | 12          | 12               | ng/l |
| Maximum                 | 48.4        | 37               | ng/l |
| Standard deviation      | 10.8        | 7.3              | ng/l |
| rel. standard deviation | 49.3        | 37.2             | %    |
| n                       | 12          | 11               | -    |

Graphical presentation of results

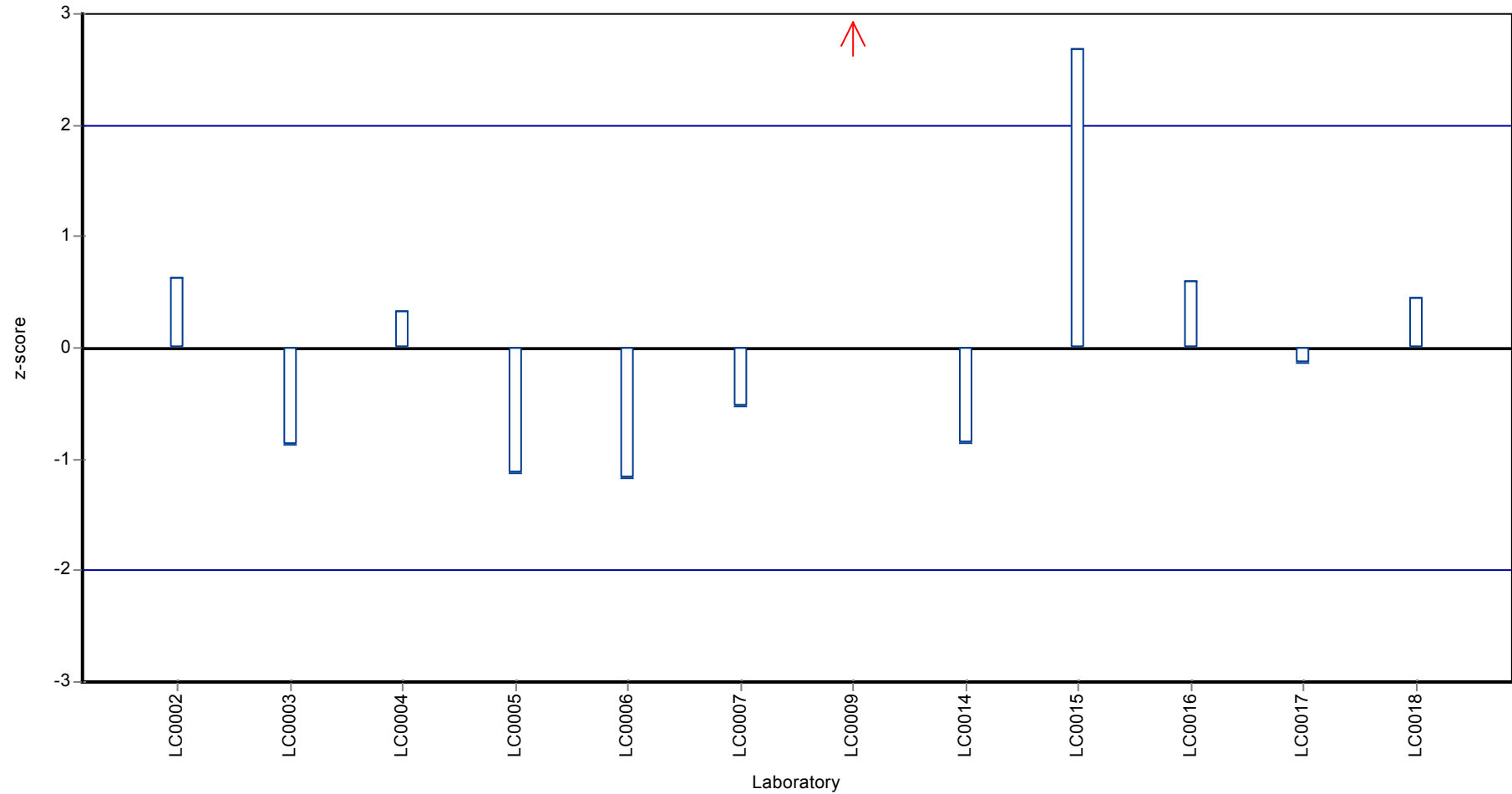
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Benzo[k]fluoranthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 204 ± 25.3  |
| Criterion                    | 55.1 (27 %) |
| Minimum - Maximum            | 91 - 282    |
| Control test value ± U (k=2) | 240 ± 67.2  |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 282    | 4.59  | 138          | 1.41    |          |
| LC0003  | 220    | 36    | 108          | 0.29    |          |
| LC0004  | 235.3  | 72.9  | 115          | 0.56    |          |
| LC0005  | 120    | 53    | 58.8         | -1.53   |          |
| LC0006  | 170.5  | 75.02 | 83.5         | -0.61   |          |
| LC0007  | 202.53 | 30.38 | 99.2         | -0.03   |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | 211    | 63    | 103          | 0.12    |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 91     | 18    | 44.6         | -2.05   |          |
| LC0012  | 207    | 20.7  | 101          | 0.05    |          |
| LC0013  | 160    | 30    | 78.4         | -0.8    |          |
| LC0014  | 208.8  | 62.6  | 102          | 0.08    |          |
| LC0015  | 179    | 56    | 87.7         | -0.46   |          |
| LC0016  | 243.5  | 24.4  | 119          | 0.71    |          |
| LC0017  | 239    | 22.9  | 117          | 0.63    |          |
| LC0018  | 230    | 23    | 113          | 0.47    |          |
| LC0019  | 267    | 80    | 131          | 1.14    |          |

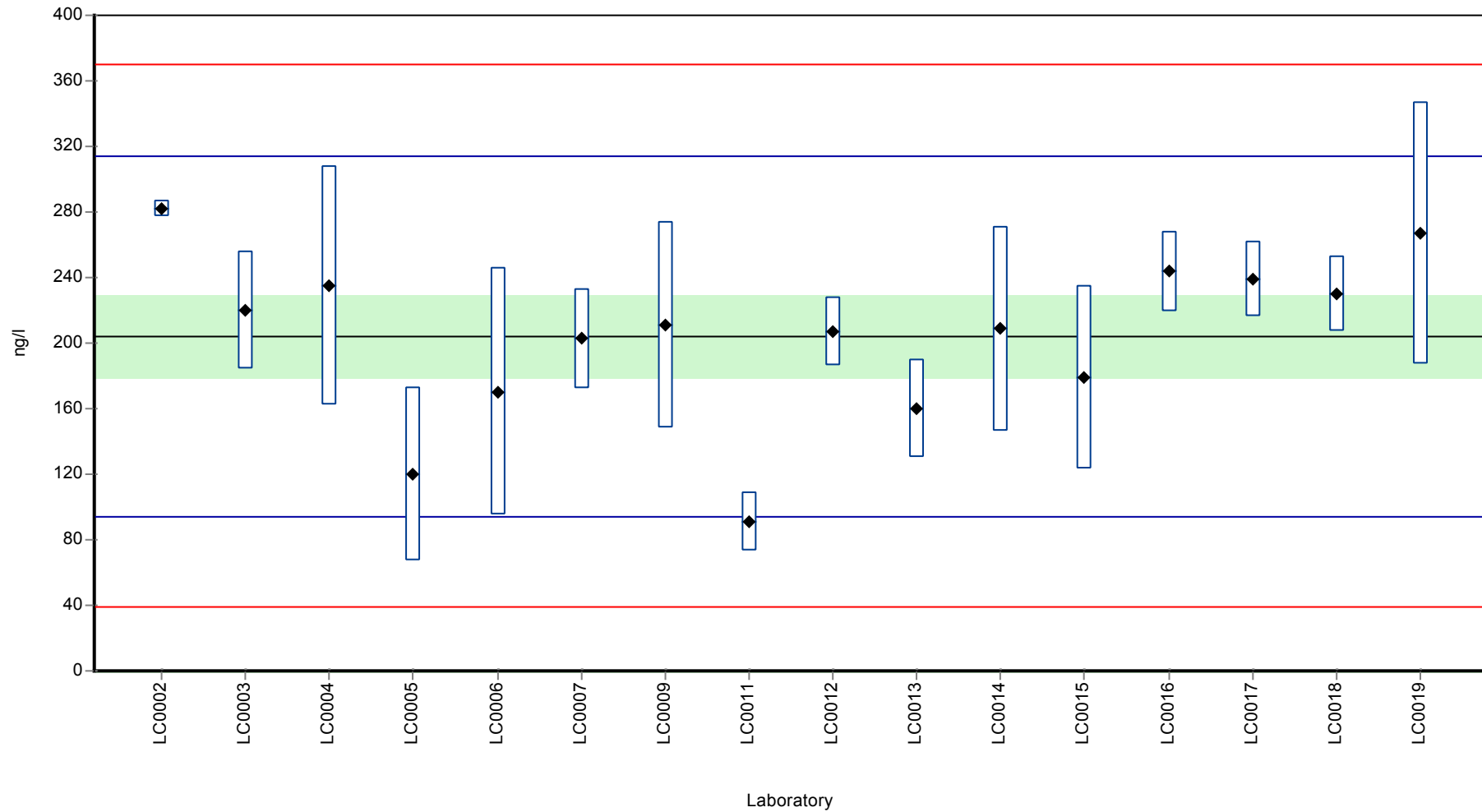
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 204 ± 37.9  | 204 ± 37.9       | ng/l |
| Minimum                 | 91          | 91               | ng/l |
| Maximum                 | 282         | 282              | ng/l |
| Standard deviation      | 50.6        | 50.6             | ng/l |
| rel. standard deviation | 24.8        | 24.8             | %    |
| n                       | 16          | 16               | -    |

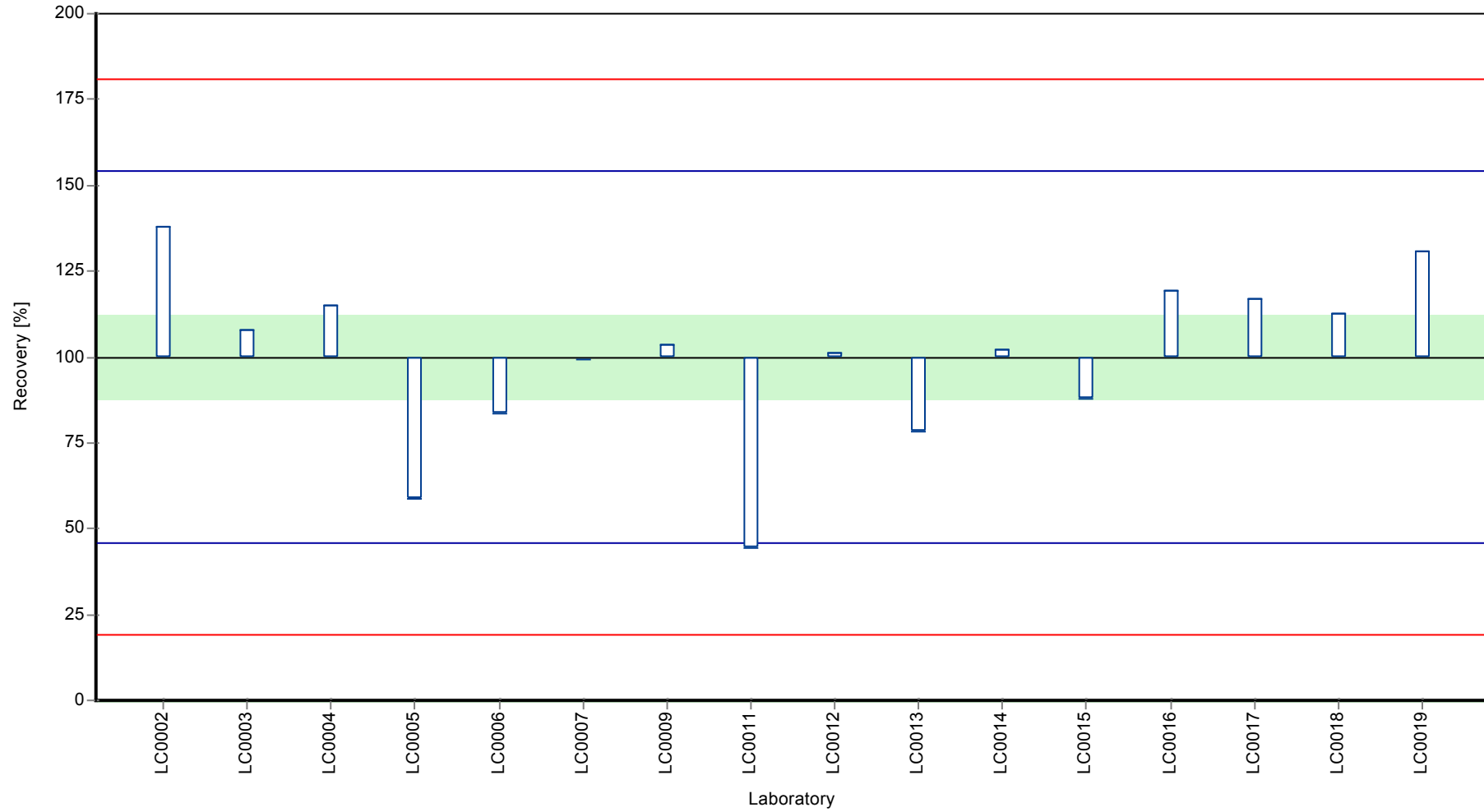


Graphical presentation of results

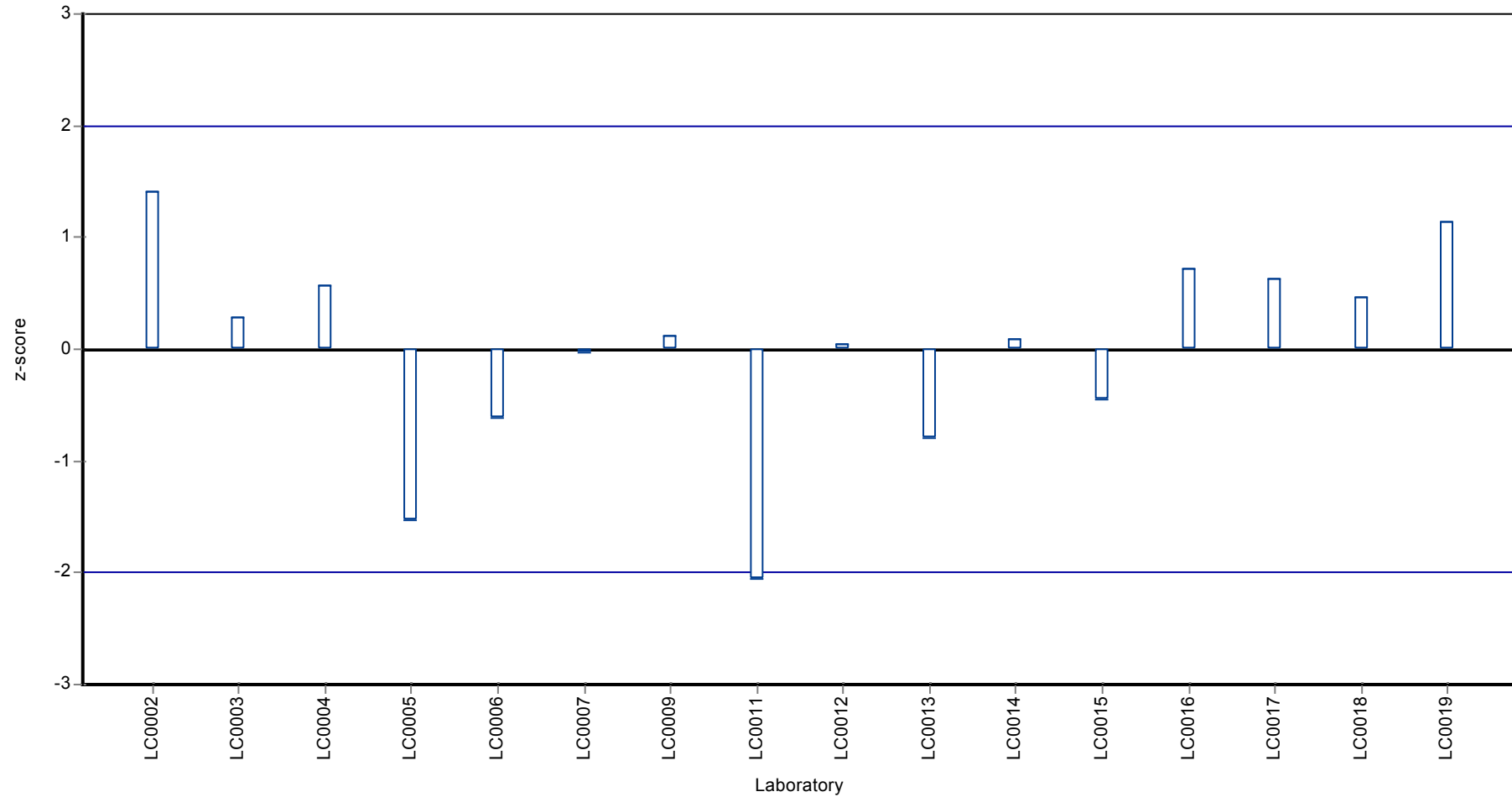
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Benzo[k]fluoranthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 33.3 ± 3.57 |
| Criterion                    | 9 (27 %)    |
| Minimum - Maximum            | 20 - 42.8   |
| Control test value ± U (k=2) | 36 ± 10.1   |

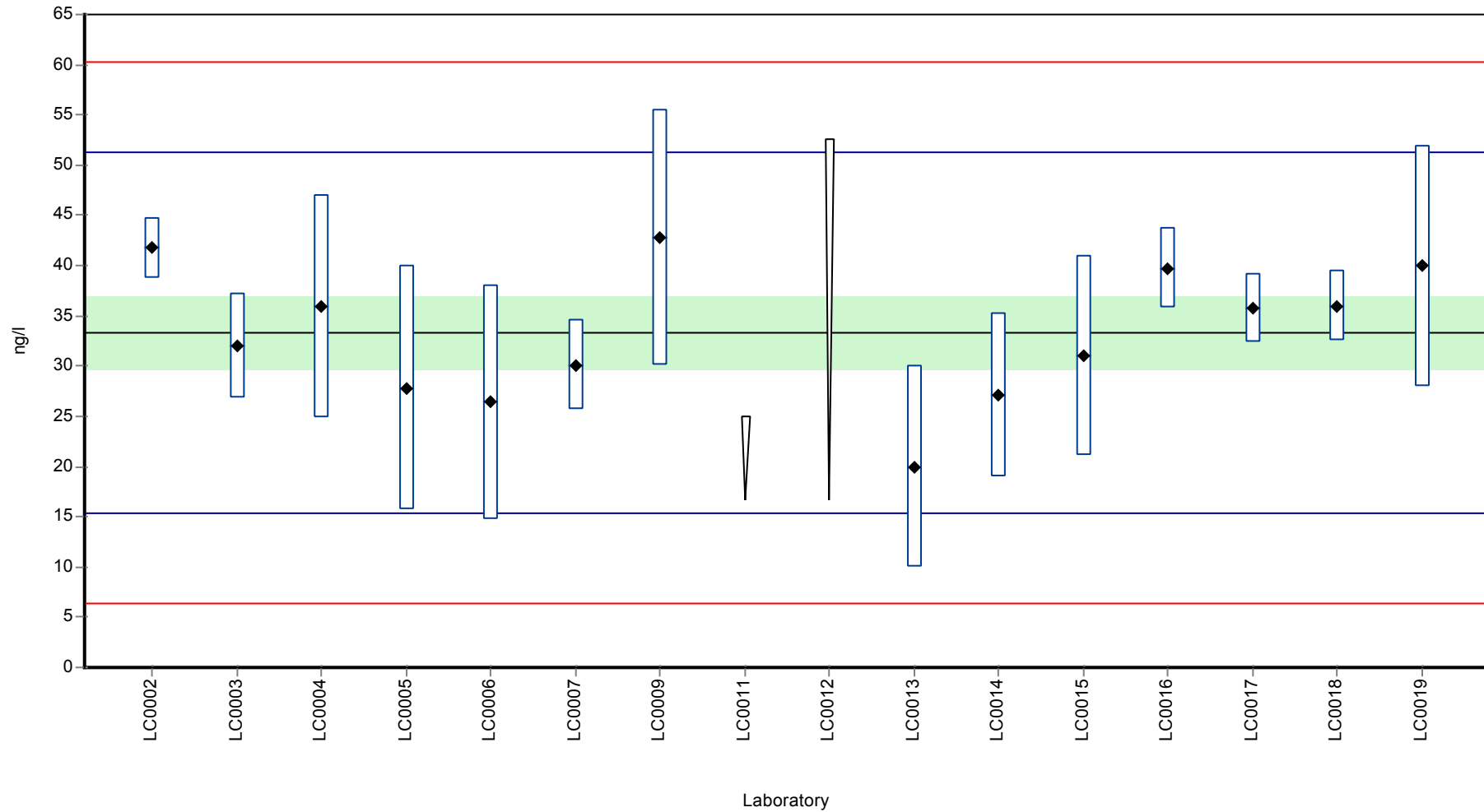
| Labcode | Result       | ± U   | Recovery [%] | z-score | Comments |
|---------|--------------|-------|--------------|---------|----------|
| LC0001  | -            | -     | -            | -       |          |
| LC0002  | 41.8         | 3.02  | 125          | 0.94    |          |
| LC0003  | 32           | 5.2   | 96           | -0.15   |          |
| LC0004  | 36           | 11.1  | 108          | 0.3     |          |
| LC0005  | 27.8         | 12.2  | 83.4         | -0.61   |          |
| LC0006  | 26.4         | 11.62 | 79.2         | -0.77   |          |
| LC0007  | 30.1         | 4.52  | 90.3         | -0.36   |          |
| LC0008  | -            | -     | -            | -       |          |
| LC0009  | 42.8         | 12.8  | 128          | 1.05    |          |
| LC0010  | -            | -     | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -     | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -     | -            | -       |          |
| LC0013  | 20           | 10    | 60           | -1.48   |          |
| LC0014  | 27.1         | 8.1   | 81.3         | -0.69   |          |
| LC0015  | 31           | 10    | 93           | -0.26   |          |
| LC0016  | 39.75        | 4     | 119          | 0.71    |          |
| LC0017  | 35.7         | 3.42  | 107          | 0.27    |          |
| LC0018  | 36           | 3.5   | 108          | 0.3     |          |
| LC0019  | 40           | 12    | 120          | 0.74    |          |

#### Characteristics of parameter

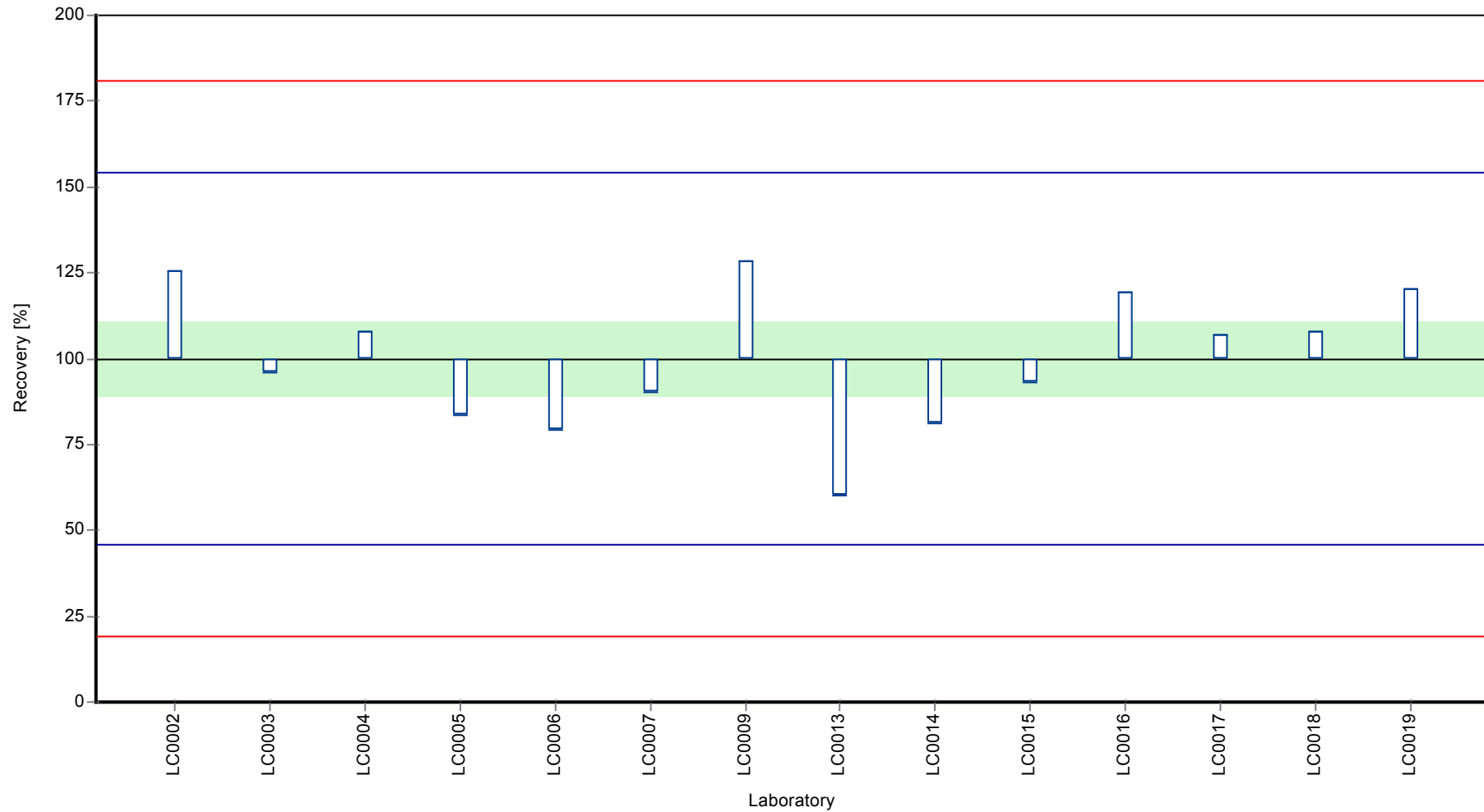
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 33.3 ± 5.35 | 33.3 ± 5.35      | ng/l |
| Minimum                 | 20          | 20               | ng/l |
| Maximum                 | 42.8        | 42.8             | ng/l |
| Standard deviation      | 6.68        | 6.68             | ng/l |
| rel. standard deviation | 20          | 20               | %    |
| n                       | 14          | 14               | -    |

Graphical presentation of results

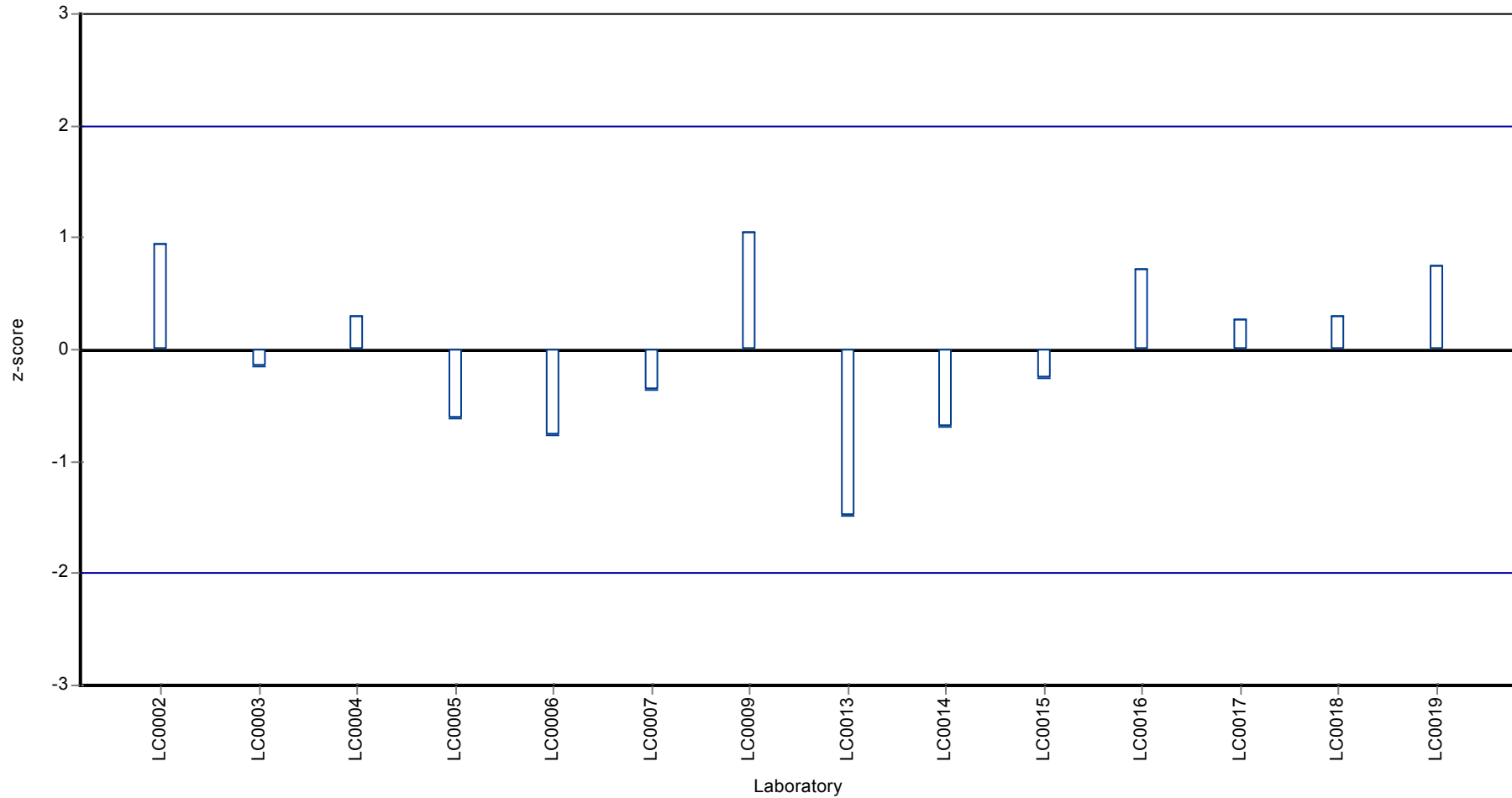
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Chrysene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 202 ± 12.8  |
| Criterion                    | 38.4 (19 %) |
| Minimum - Maximum            | 137 - 230   |
| Control test value ± U (k=2) | 199 ± 51.7  |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 215    | 5.9   | 106          | 0.34    |          |
| LC0003  | 200    | 32    | 99           | -0.05   |          |
| LC0004  | 217.9  | 67.5  | 108          | 0.41    |          |
| LC0005  | 118    | 52    | 58.4         | -2.19   | H        |
| LC0006  | 188    | 82.72 | 93           | -0.37   |          |
| LC0007  | 211.42 | 25.37 | 105          | 0.24    |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | -      | -     | -            | -       |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 137    | 27    | 67.8         | -1.7    |          |
| LC0012  | 200    | 20    | 99           | -0.05   |          |
| LC0013  | 180    | 30    | 89.1         | -0.57   |          |
| LC0014  | 189.6  | 56.9  | 93.8         | -0.33   |          |
| LC0015  | 228    | 71    | 113          | 0.68    |          |
| LC0016  | 222.25 | 22.25 | 110          | 0.53    |          |
| LC0017  | 205    | 18.7  | 101          | 0.08    |          |
| LC0018  | 205    | 20    | 101          | 0.08    |          |
| LC0019  | 230    | 69    | 114          | 0.73    |          |

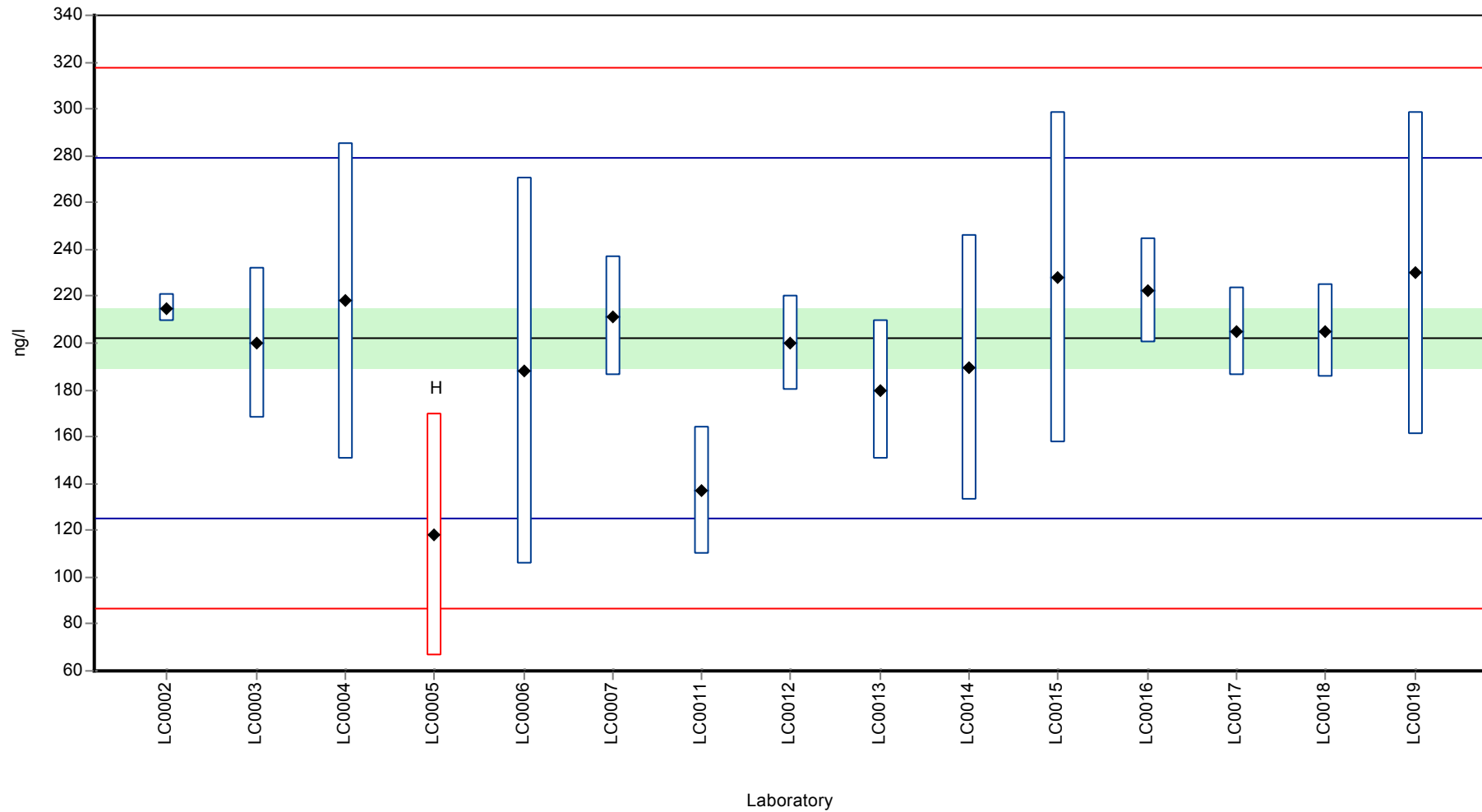
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 196 ± 24.6  | 202 ± 19.2       | ng/l |
| Minimum                 | 118         | 137              | ng/l |
| Maximum                 | 230         | 230              | ng/l |
| Standard deviation      | 31.7        | 24               | ng/l |
| rel. standard deviation | 16.1        | 11.9 %           |      |
| n                       | 15          | 14               | -    |

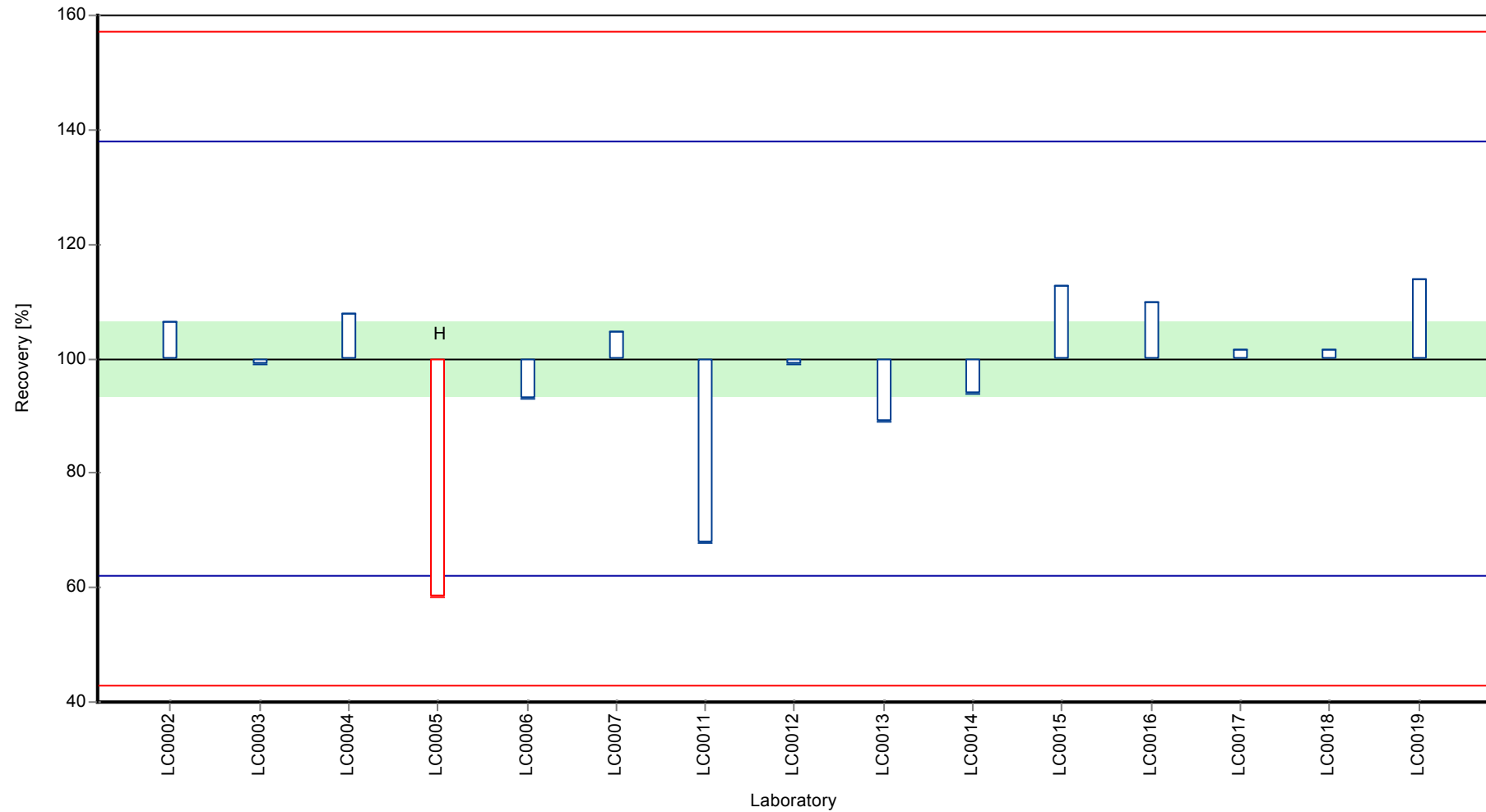


Graphical presentation of results

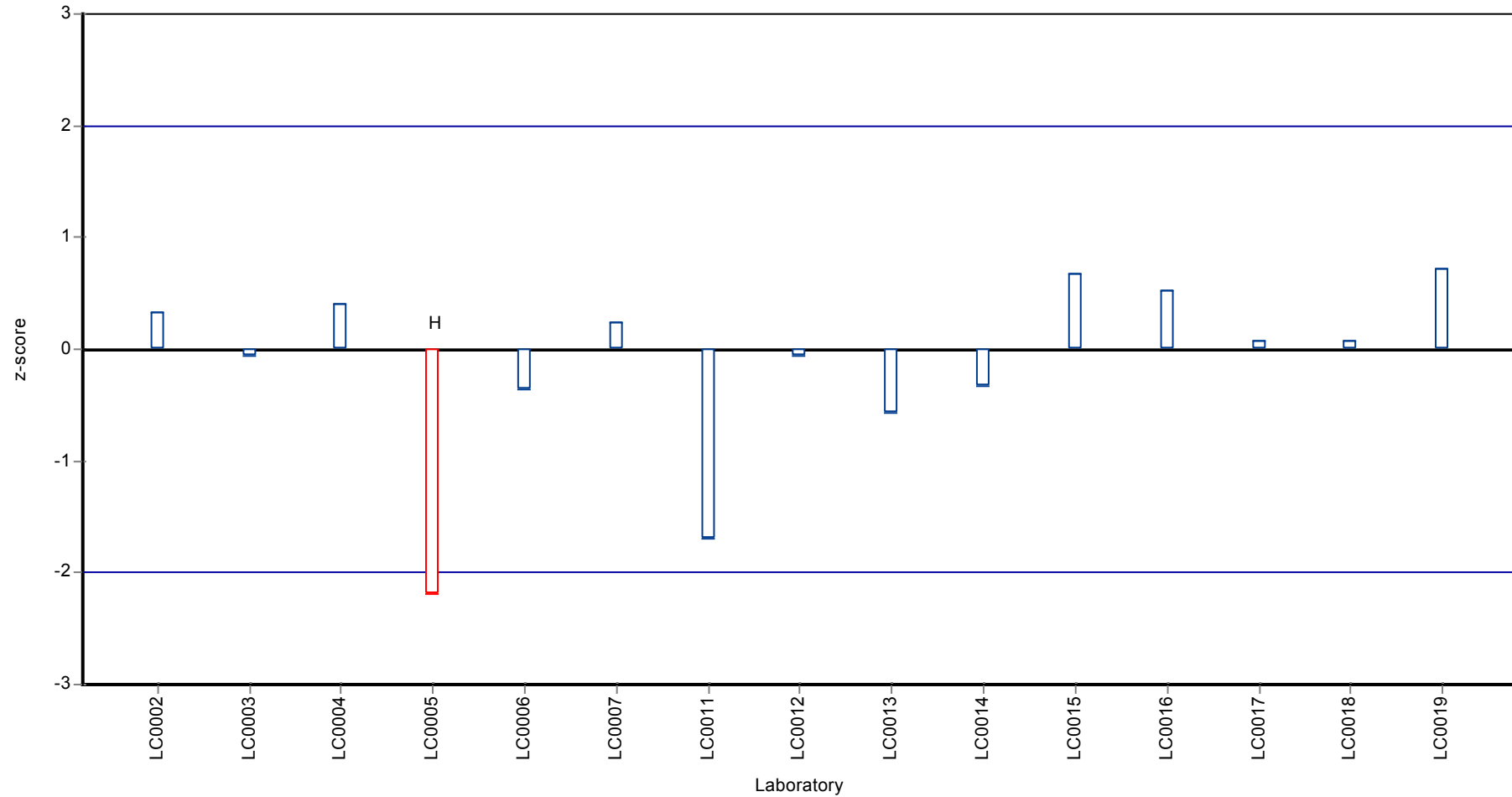
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Chrysene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 42.6 ± 3.58 |
| Criterion                    | 8.09 (19 %) |
| Minimum - Maximum            | 26 - 51.3   |
| Control test value ± U (k=2) | 41.7 ± 10.8 |

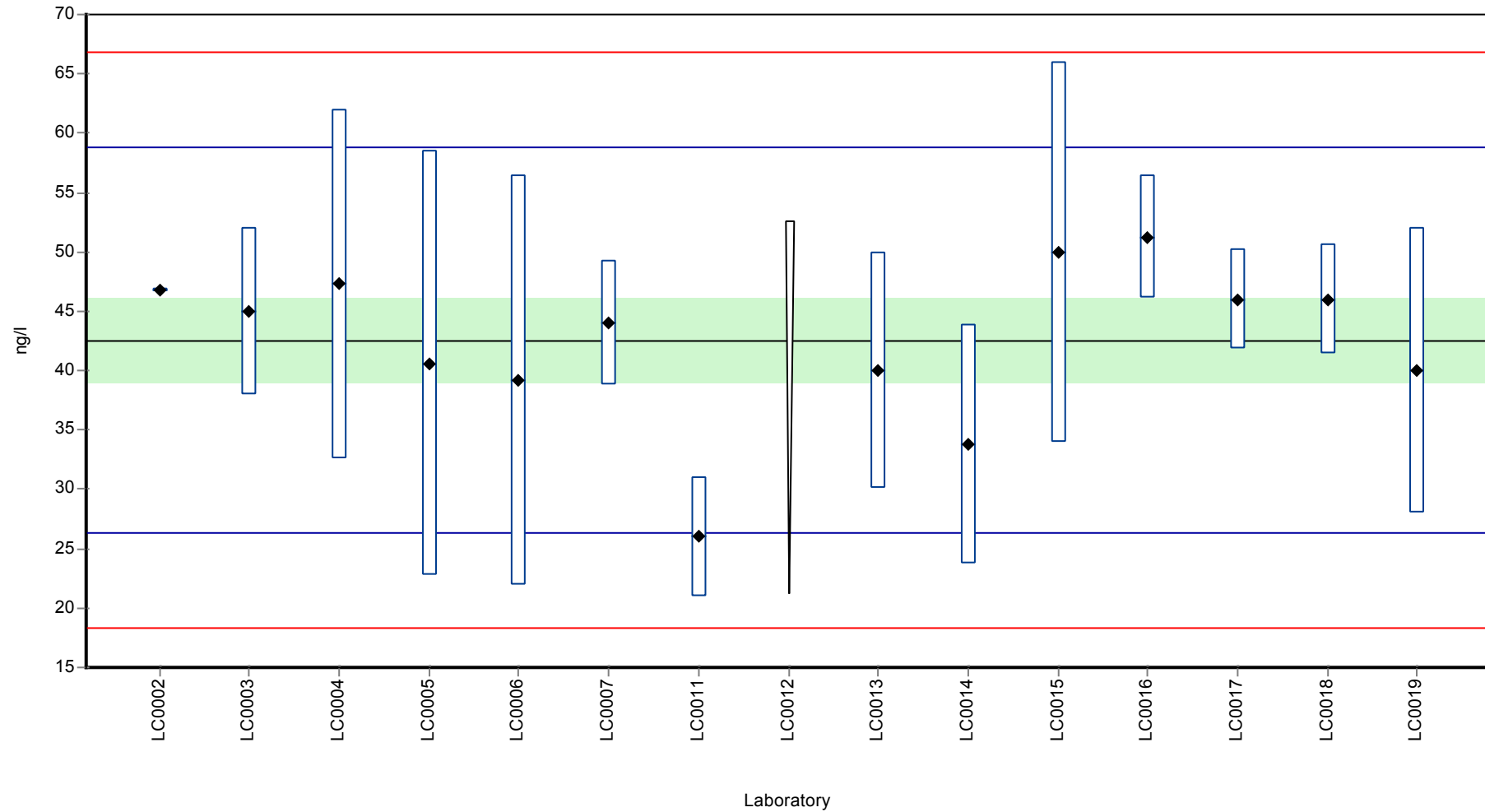
| Labcode | Result       | ± U   | Recovery [%] | z-score | Comments |
|---------|--------------|-------|--------------|---------|----------|
| LC0001  | -            | -     | -            | -       |          |
| LC0002  | 46.8         | 0.09  | 110          | 0.52    |          |
| LC0003  | 45           | 7.1   | 106          | 0.3     |          |
| LC0004  | 47.3         | 14.7  | 111          | 0.58    |          |
| LC0005  | 40.6         | 17.9  | 95.4         | -0.24   |          |
| LC0006  | 39.2         | 17.25 | 92.1         | -0.42   |          |
| LC0007  | 44           | 5.28  | 103          | 0.18    |          |
| LC0008  | -            | -     | -            | -       |          |
| LC0009  | -            | -     | -            | -       |          |
| LC0010  | -            | -     | -            | -       |          |
| LC0011  | 26           | 5     | 61.1         | -2.05   |          |
| LC0012  | < 52.6 (LOQ) | -     | -            | -       |          |
| LC0013  | 40           | 10    | 94           | -0.32   |          |
| LC0014  | 33.8         | 10.1  | 79.4         | -1.08   |          |
| LC0015  | 50           | 16    | 117          | 0.92    |          |
| LC0016  | 51.25        | 5.15  | 120          | 1.07    |          |
| LC0017  | 46           | 4.19  | 108          | 0.42    |          |
| LC0018  | 46           | 4.6   | 108          | 0.42    |          |
| LC0019  | 40           | 12    | 94           | -0.32   |          |

#### Characteristics of parameter

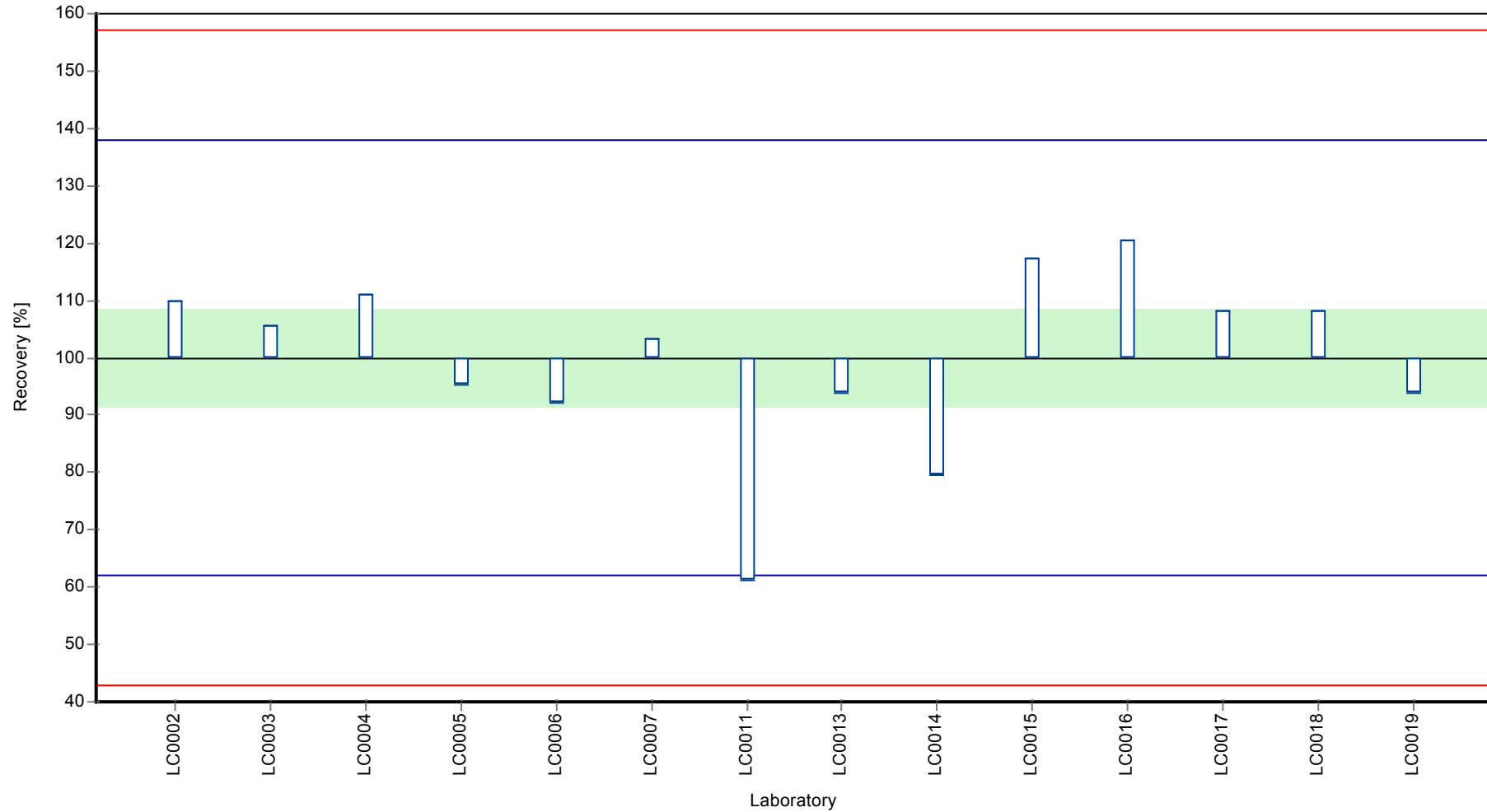
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 42.6 ± 5.37 | 42.6 ± 5.37      | ng/l |
| Minimum                 | 26          | 26               | ng/l |
| Maximum                 | 51.2        | 51.2             | ng/l |
| Standard deviation      | 6.69        | 6.69             | ng/l |
| rel. standard deviation | 15.7        | 15.7             | %    |
| n                       | 14          | 14               | -    |

Graphical presentation of results

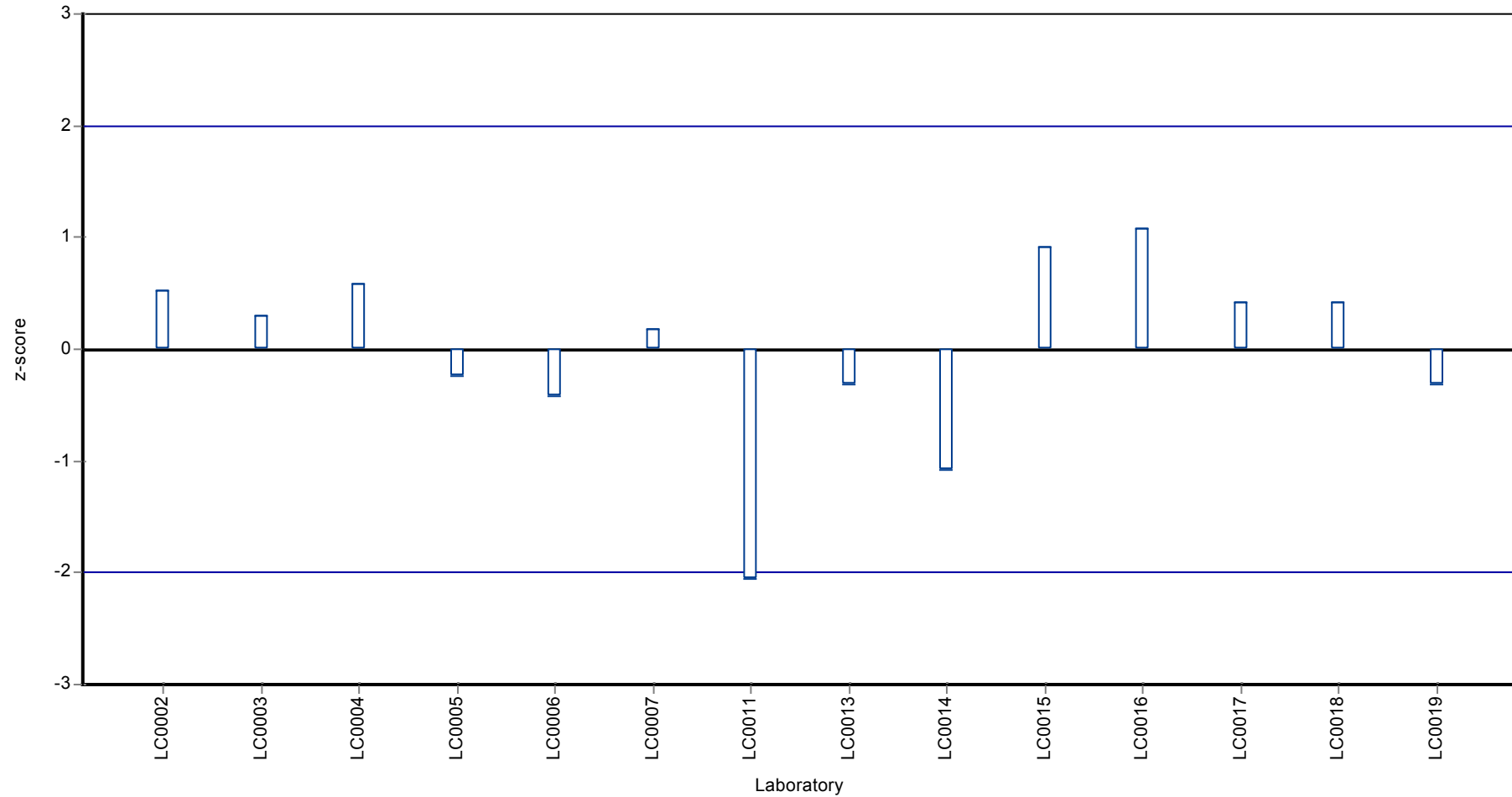
Results



**Recovery rate**



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons P20

Sample: P20A, Parameter: Dibenzo[a,h]anthracene

## Parameter oriented report

### P20 A

#### Dibenzo[a,h]anthracene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 67.1 ± 7.04 |
| Criterion                    | 13.2 (20 %) |
| Minimum - Maximum            | 40 - 86     |
| Control test value ± U (k=2) | 72.4 ± 23.2 |

| Labcode | Result     | ± U   | Recovery [%] | z-score | Comments |
|---------|------------|-------|--------------|---------|----------|
| LC0001  | -          | -     | -            | -       |          |
| LC0002  | 85.8       | 2.09  | 128          | 1.42    |          |
| LC0003  | 67         | 13    | 99.9         | 0.00    |          |
| LC0004  | 76.3       | 23.6  | 114          | 0.7     |          |
| LC0005  | 52.6       | 23.1  | 78.4         | -1.1    |          |
| LC0006  | 59.8       | 26.31 | 89.2         | -0.55   |          |
| LC0007  | 60.7       | 10.93 | 90.5         | -0.48   |          |
| LC0008  | -          | -     | -            | -       |          |
| LC0009  | -          | -     | -            | -       |          |
| LC0010  | -          | -     | -            | -       |          |
| LC0011  | < 25 (LOQ) | -     | -            | -       | FN       |
| LC0012  | 69.7       | 6.8   | 104          | 0.2     |          |
| LC0013  | 40         | 10    | 59.6         | -2.06   |          |
| LC0014  | 63.8       | 25.5  | 95.1         | -0.25   |          |
| LC0015  | 86         | 27    | 128          | 1.44    |          |
| LC0016  | 70.88      | 7.1   | 106          | 0.29    |          |
| LC0017  | 78.8       | 10.3  | 118          | 0.89    |          |
| LC0018  | 74.5       | 7     | 111          | 0.56    |          |
| LC0019  | 53         | 16    | 79           | -1.07   |          |

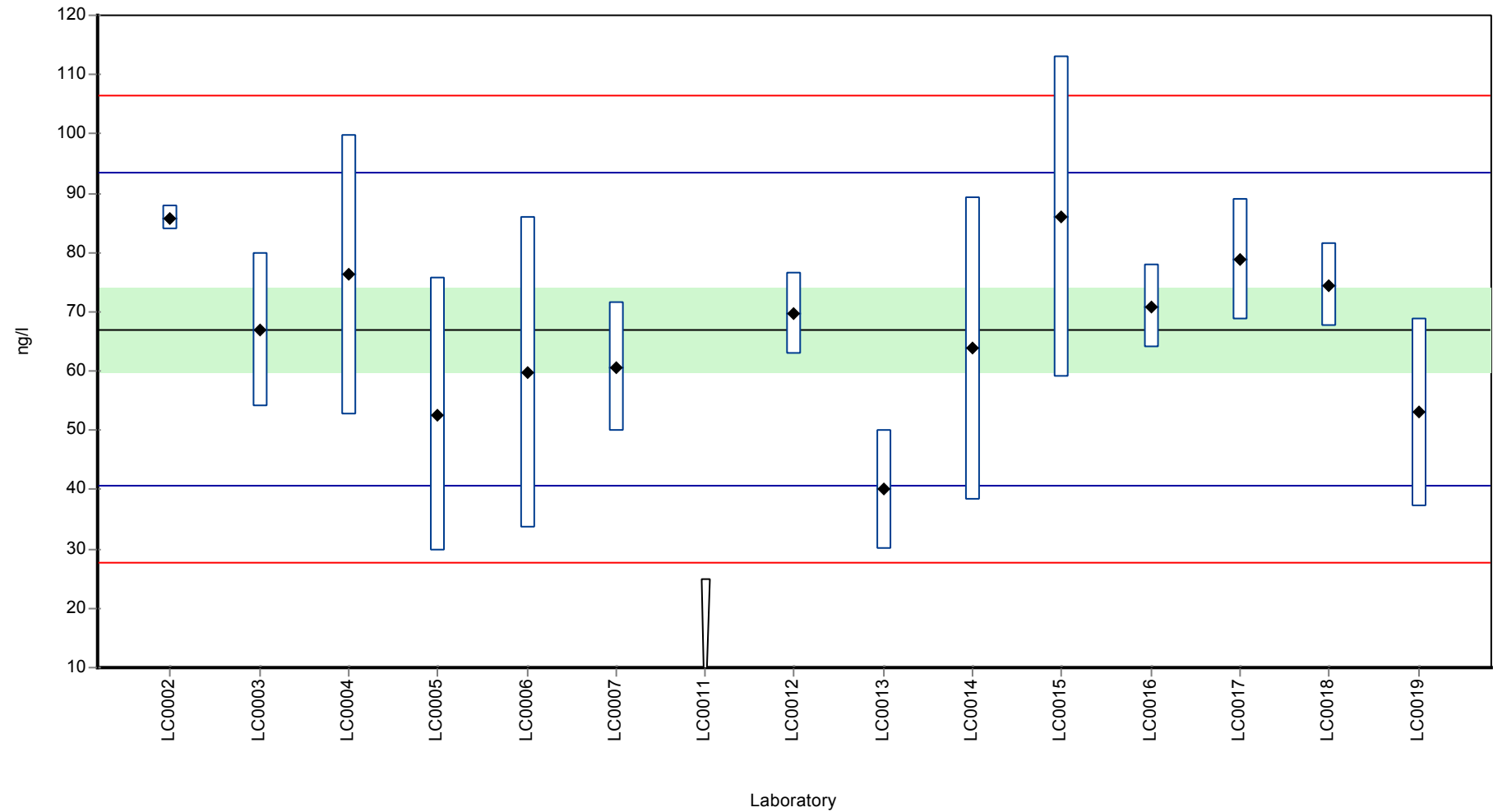
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 67.1 ± 10.6 | 67.1 ± 10.6      | ng/l |
| Minimum                 | 40          | 40               | ng/l |
| Maximum                 | 86          | 86               | ng/l |
| Standard deviation      | 13.2        | 13.2             | ng/l |
| rel. standard deviation | 19.6        | 19.6             | %    |
| n                       | 14          | 14               | -    |

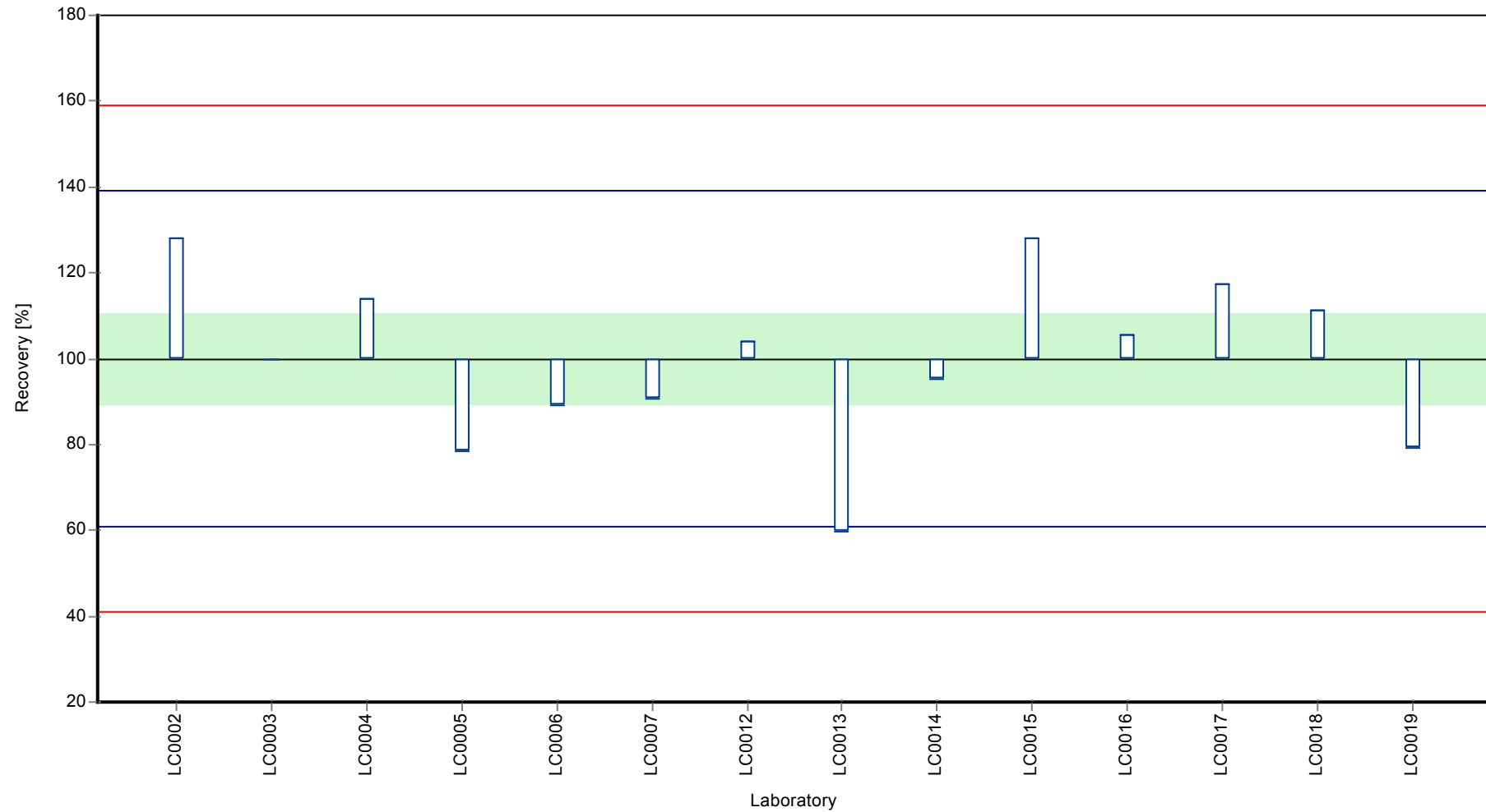


Graphical presentation of results

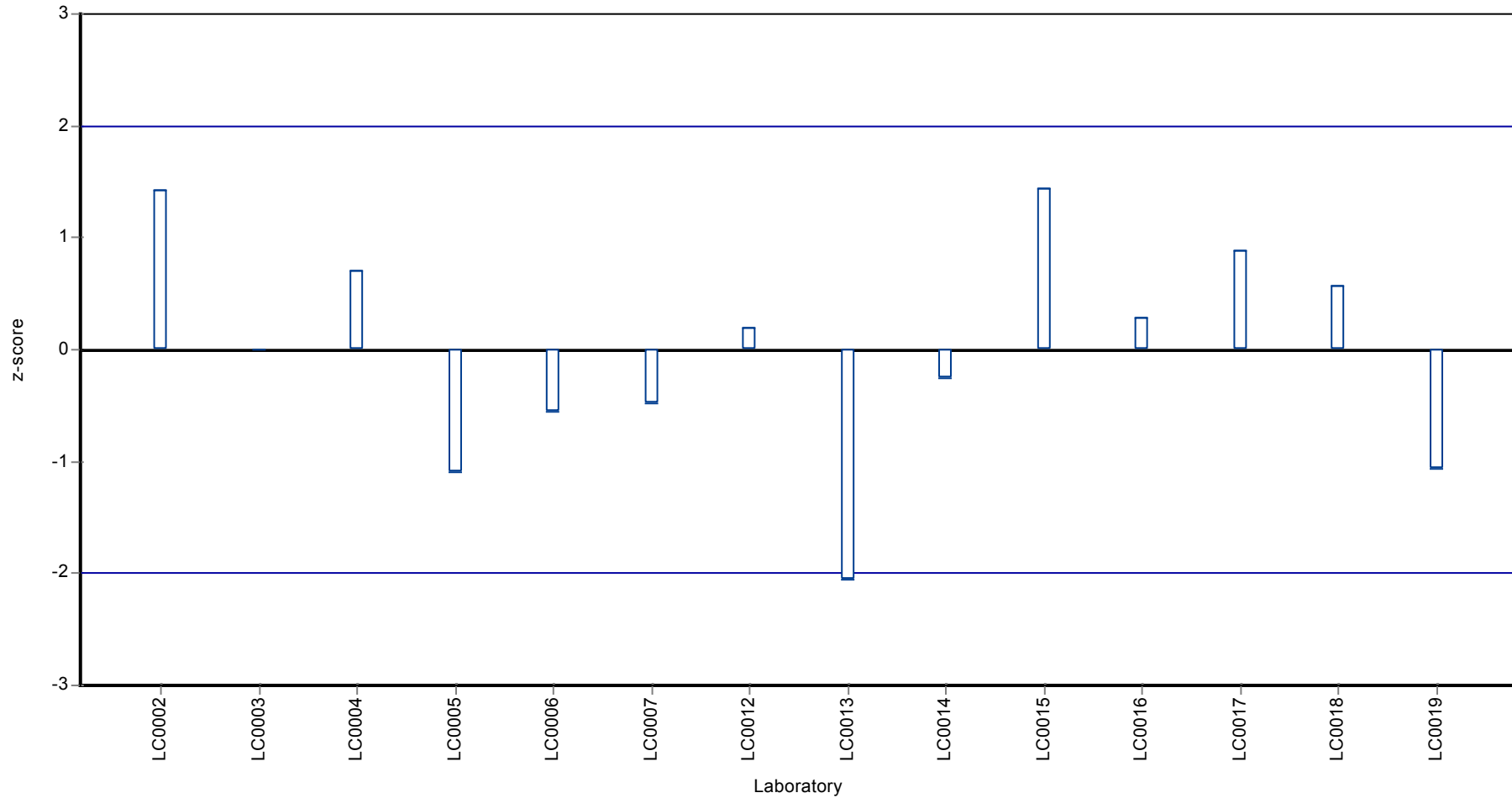
Results



Recovery rate



Z-score



Parameter oriented report Polycyclic Aromatic Hydrocarbons P20

Sample: P20B, Parameter: Dibenzo[a,h]anthracene

## Parameter oriented report

### P20 B

#### Dibenzo[a,h]anthracene

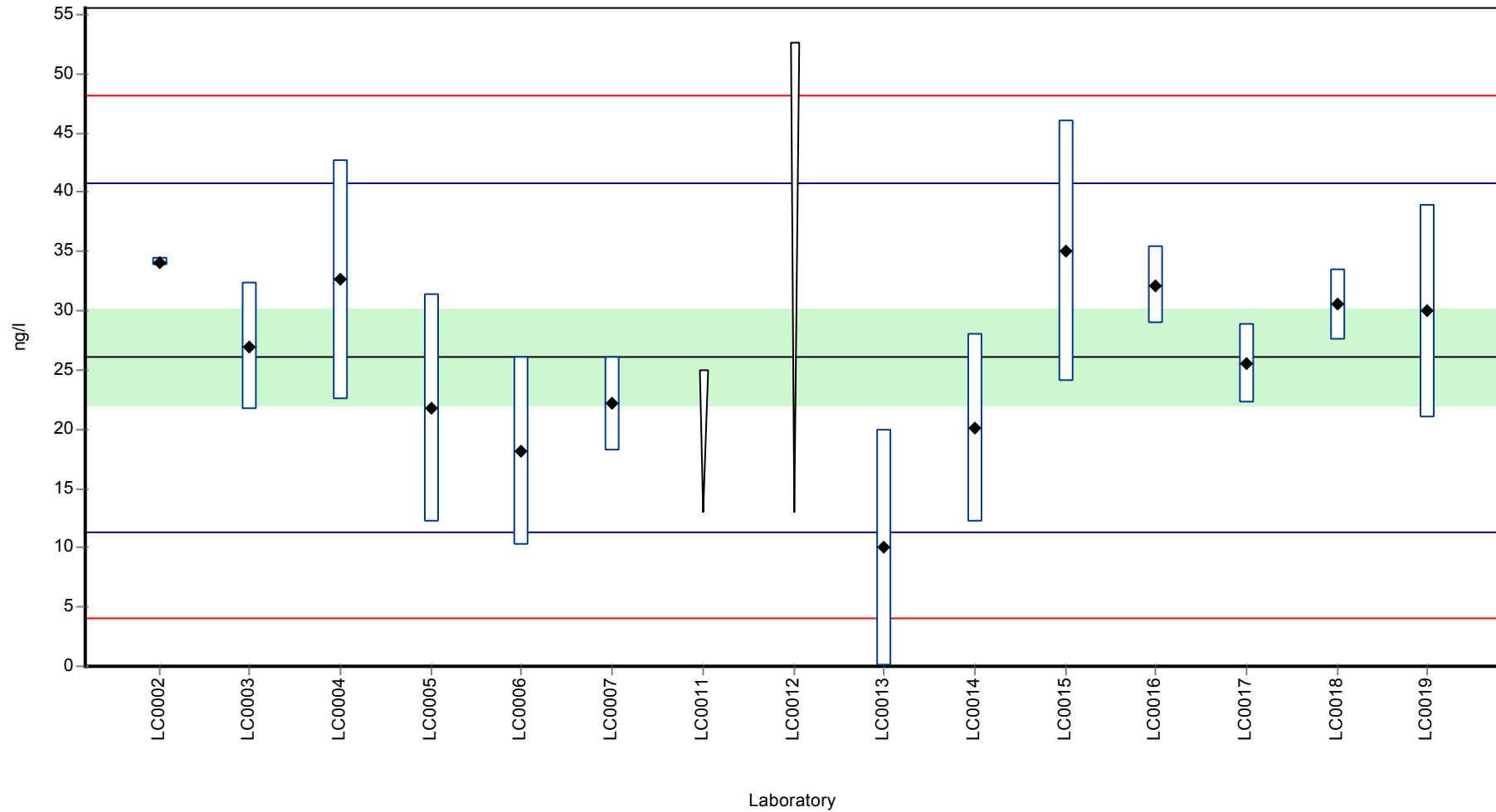
|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 26.1 ± 4.09 |
| Criterion                    | 7.37 (28 %) |
| Minimum - Maximum            | 10 - 35     |
| Control test value ± U (k=2) | 24.4 ± 7.8  |

| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 34.1         | 0.31 | 131          | 1.09    |          |
| LC0003  | 27           | 5.4  | 104          | 0.13    |          |
| LC0004  | 32.6         | 10.1 | 125          | 0.89    |          |
| LC0005  | 21.8         | 9.59 | 83.6         | -0.58   |          |
| LC0006  | 18.1         | 7.96 | 69.4         | -1.08   |          |
| LC0007  | 22.12        | 3.98 | 84.8         | -0.54   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 10           | 10   | 38.3         | -2.18   |          |
| LC0014  | 20.1         | 8    | 77.1         | -0.81   |          |
| LC0015  | 35           | 11   | 134          | 1.21    |          |
| LC0016  | 32.13        | 3.25 | 123          | 0.82    |          |
| LC0017  | 25.6         | 3.35 | 98.2         | -0.07   |          |
| LC0018  | 30.5         | 3    | 117          | 0.6     |          |
| LC0019  | 30           | 9    | 115          | 0.53    |          |

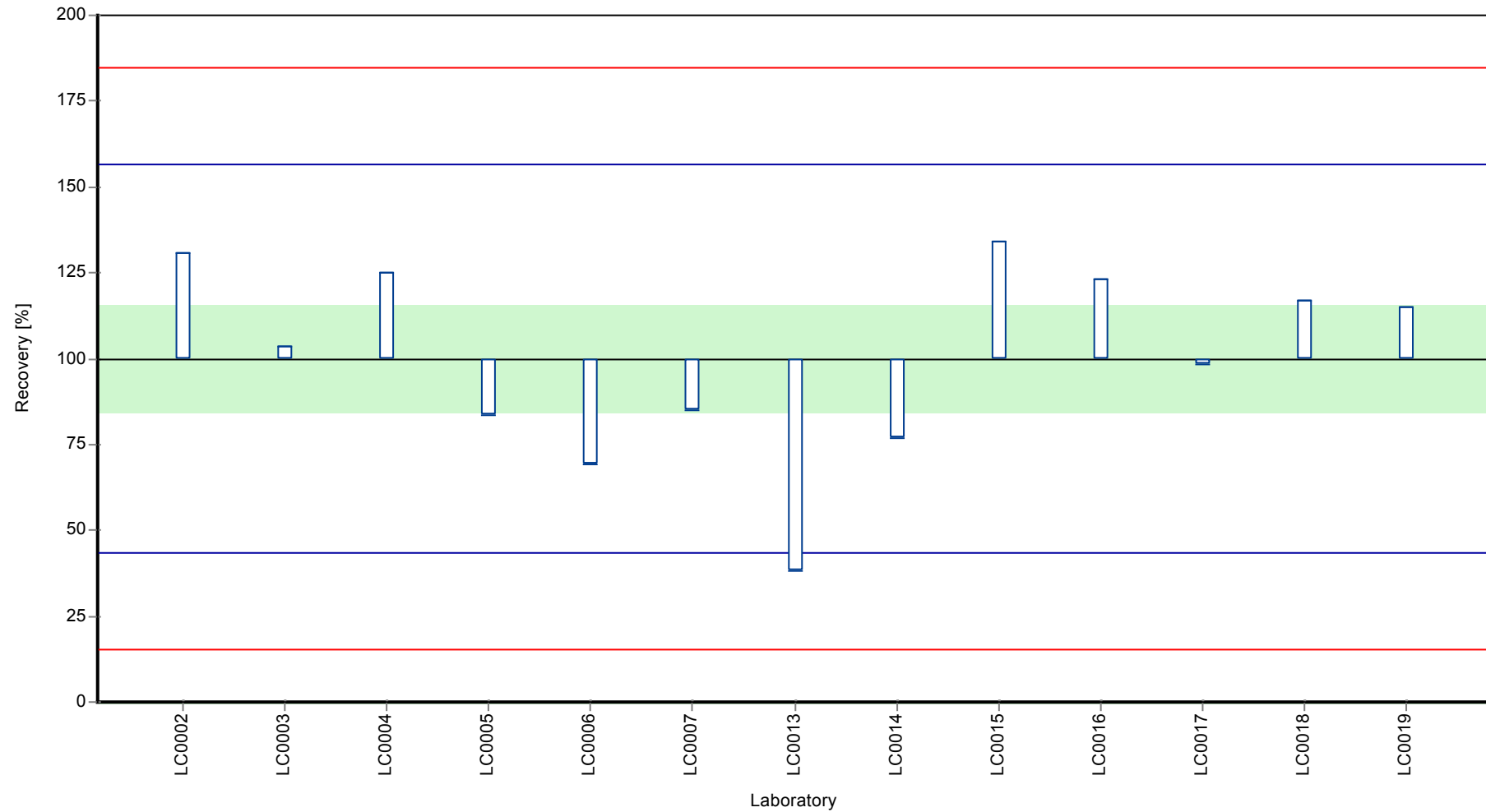
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 26.1 ± 6.13 | 26.1 ± 6.13      | ng/l |
| Minimum                 | 10          | 10               | ng/l |
| Maximum                 | 35          | 35               | ng/l |
| Standard deviation      | 7.37        | 7.37             | ng/l |
| rel. standard deviation | 28.2        | 28.2             | %    |
| n                       | 13          | 13               | -    |

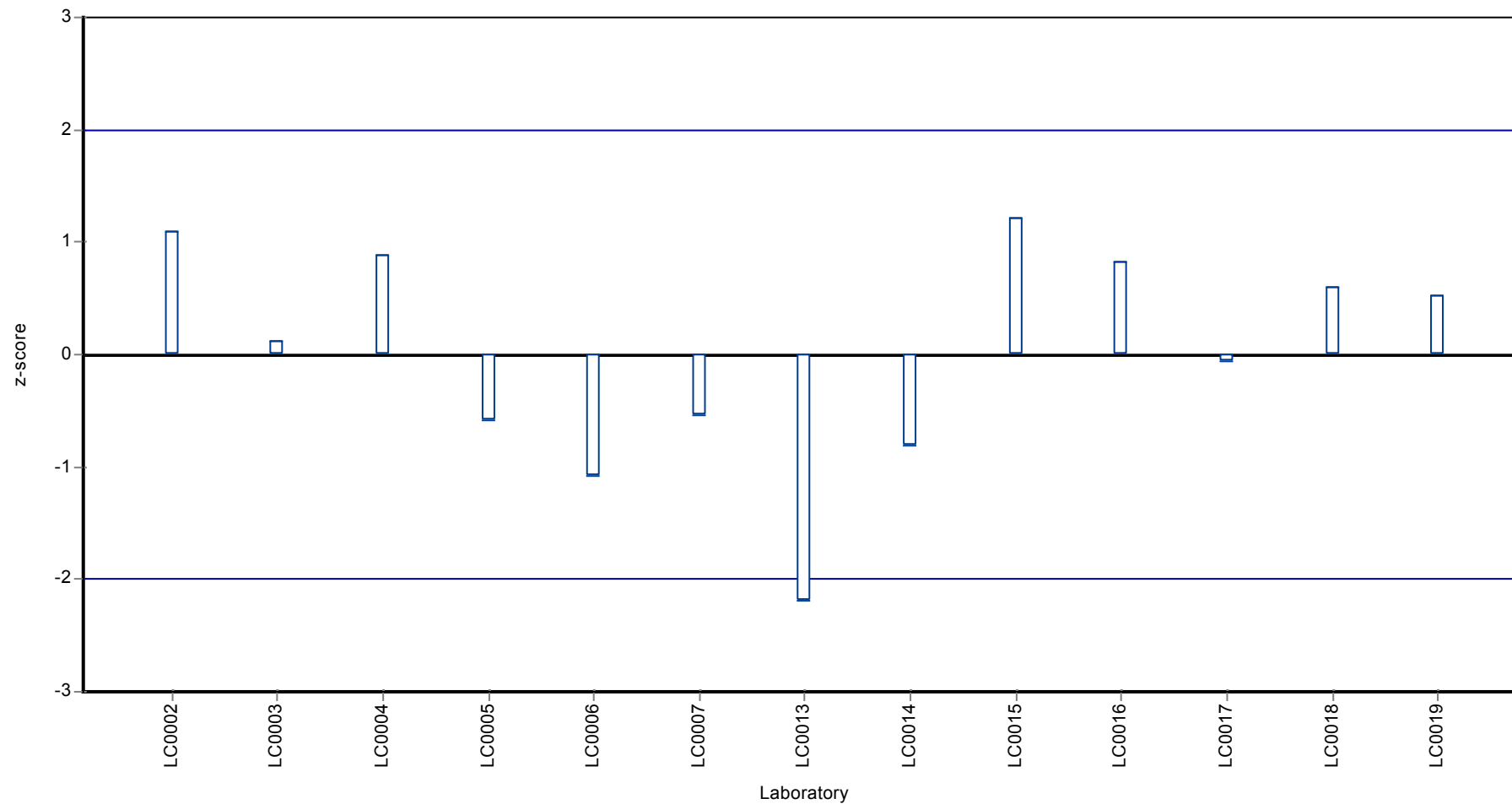
**Graphical presentation of results**  
**Results**



**Recovery rate**



Z-score



## Parameter oriented report

### P20 A

#### Fluoranthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 125 ± 8.6   |
| Criterion                    | 23.7 (19 %) |
| Minimum - Maximum            | 82.3 - 143  |
| Control test value ± U (k=2) | 146 ± 32    |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 141    | 1.79  | 113          | 0.68    |          |
| LC0003  | 140    | 33    | 112          | 0.64    |          |
| LC0004  | 127.5  | 39.5  | 102          | 0.11    |          |
| LC0005  | 82.3   | 36.2  | 65.9         | -1.79   |          |
| LC0006  | 122.8  | 54.12 | 98.3         | -0.09   |          |
| LC0007  | 131.87 | 27.69 | 106          | 0.29    |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | -      | -     | -            | -       |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 110    | 22    | 88.1         | -0.63   |          |
| LC0012  | 131    | 13.1  | 105          | 0.26    |          |
| LC0013  | 120    | 20    | 96.1         | -0.2    |          |
| LC0014  | 111.4  | 33.4  | 89.2         | -0.57   |          |
| LC0015  | 143    | 44    | 115          | 0.76    |          |
| LC0016  | 132.25 | 13.25 | 106          | 0.31    |          |
| LC0017  | 143    | 13.6  | 115          | 0.76    |          |
| LC0018  | 130    | 13    | 104          | 0.22    |          |
| LC0019  | 107    | 32    | 85.7         | -0.75   |          |

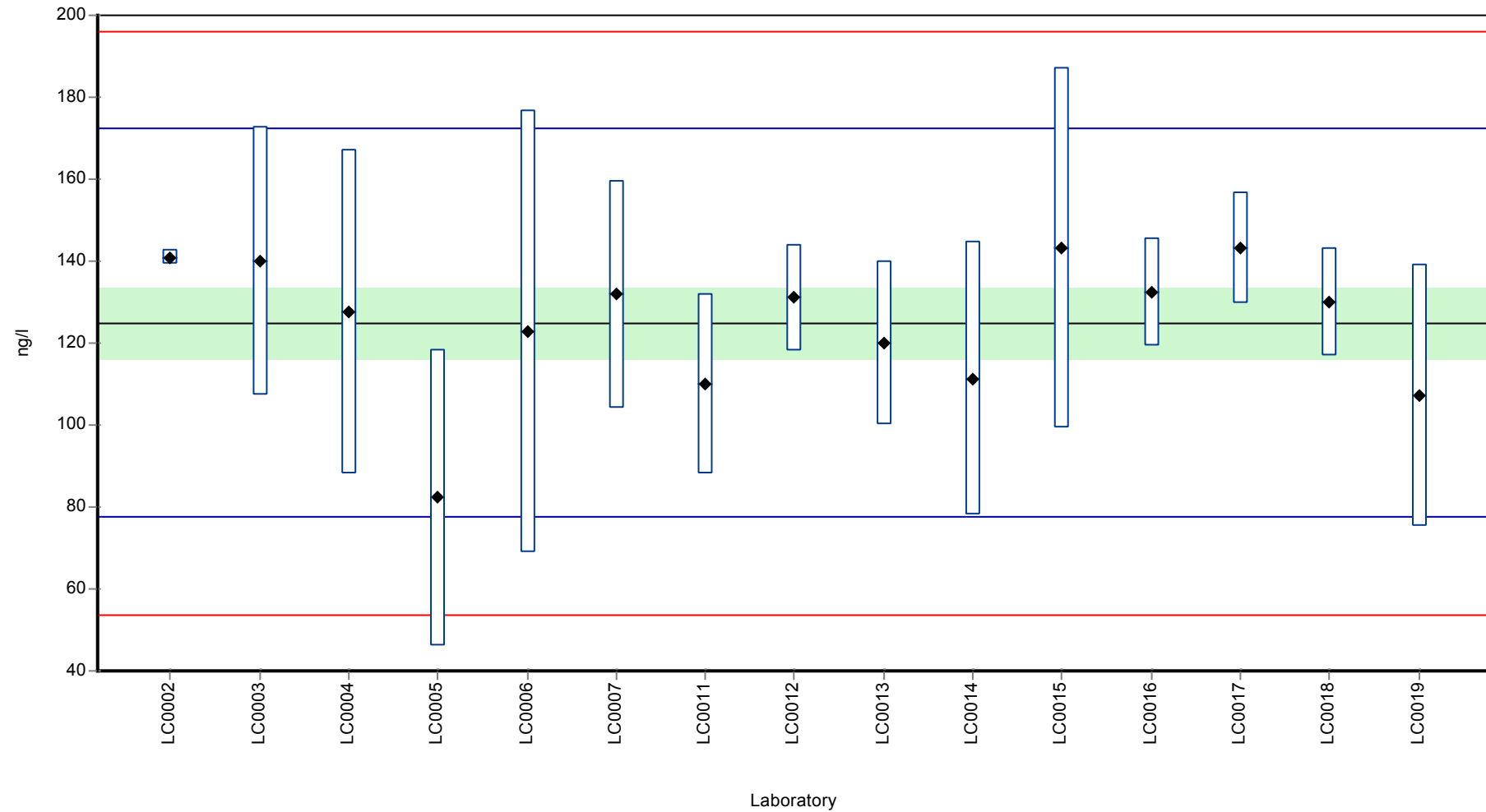
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 125 ± 12.9  | 125 ± 12.9       | ng/l |
| Minimum                 | 82.3        | 82.3             | ng/l |
| Maximum                 | 143         | 143              | ng/l |
| Standard deviation      | 16.7        | 16.7             | ng/l |
| rel. standard deviation | 13.3        | 13.3             | %    |
| n                       | 15          | 15               | -    |

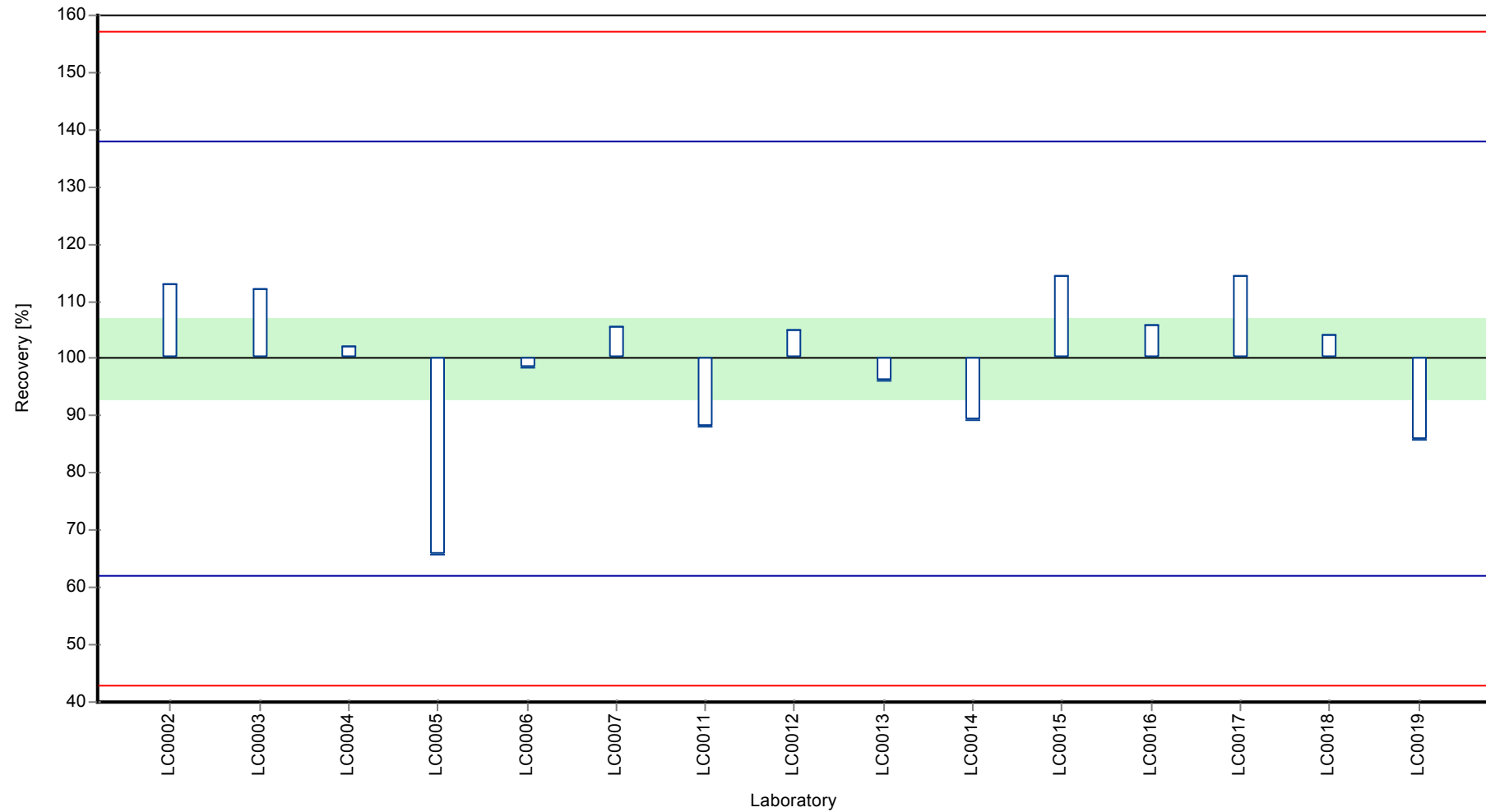


Graphical presentation of results

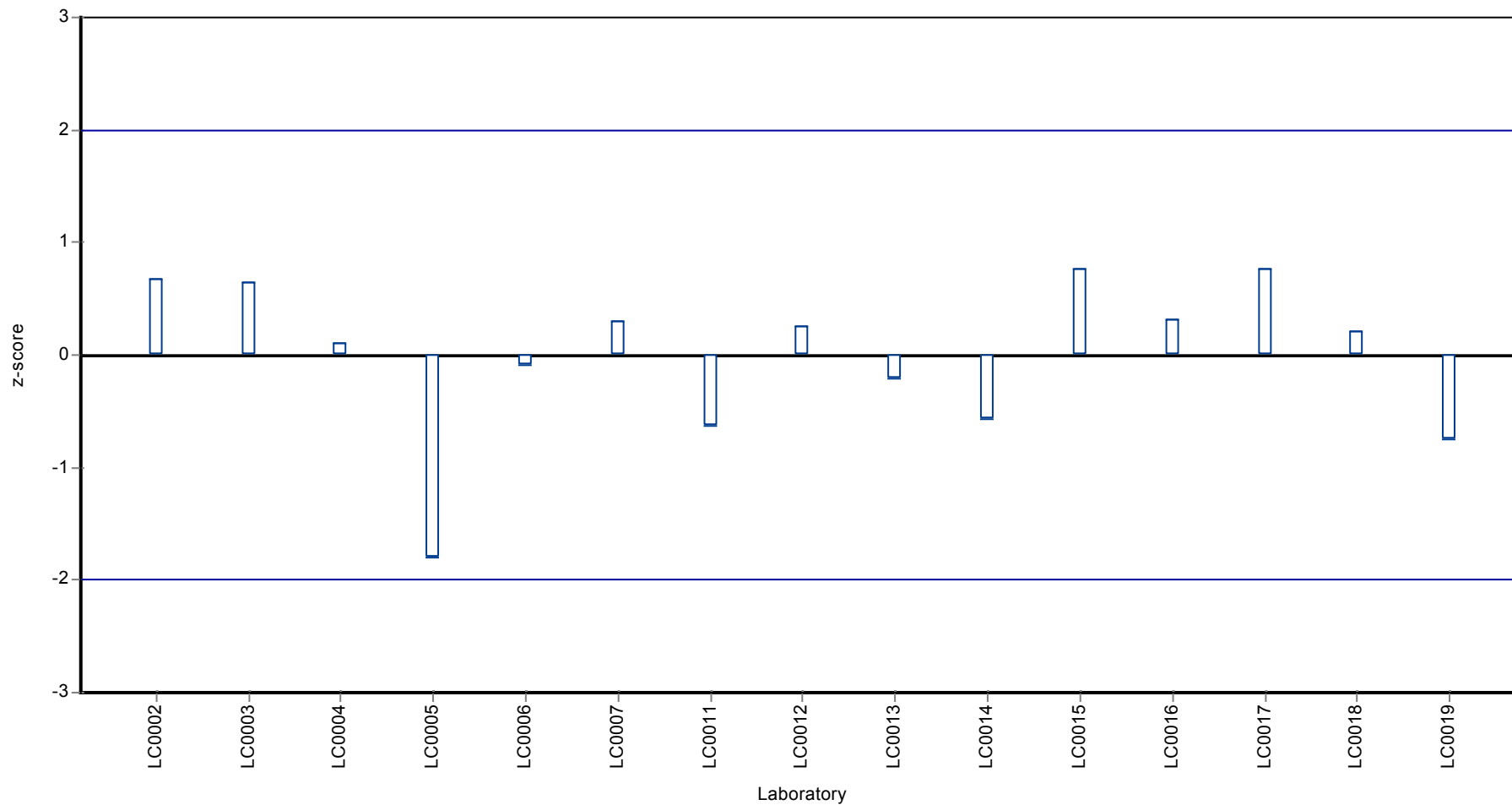
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 B

#### Fluoranthene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 29.2 ± 2.5  |
| Criterion                    | 5.54 (19 %) |
| Minimum - Maximum            | 20 - 37     |
| Control test value ± U (k=2) | 32.4 ± 7.13 |

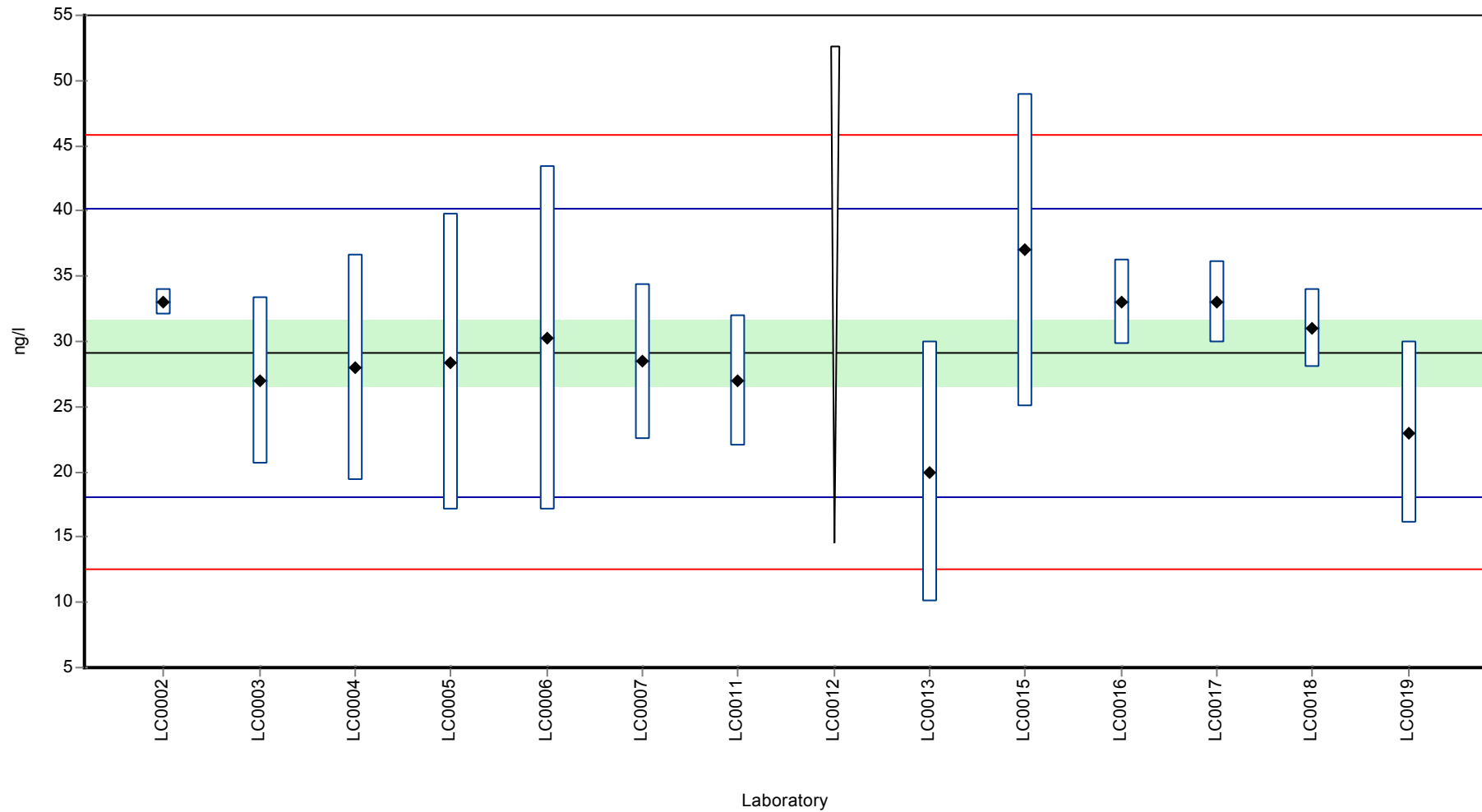
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 33           | 1    | 113          | 0.69    |          |
| LC0003  | 27           | 6.4  | 92.6         | -0.39   |          |
| LC0004  | 28           | 8.7  | 96           | -0.21   |          |
| LC0005  | 28.4         | 11.4 | 97.4         | -0.14   |          |
| LC0006  | 30.2         | 13.2 | 104          | 0.19    |          |
| LC0007  | 28.46        | 5.98 | 97.6         | -0.13   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | 27           | 5    | 92.6         | -0.39   |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 20           | 10   | 68.6         | -1.65   |          |
| LC0014  | -            | -    | -            | -       |          |
| LC0015  | 37           | 12   | 127          | 1.42    |          |
| LC0016  | 33           | 3.3  | 113          | 0.69    |          |
| LC0017  | 33           | 3.14 | 113          | 0.69    |          |
| LC0018  | 31           | 3    | 106          | 0.33    |          |
| LC0019  | 23           | 7    | 78.9         | -1.11   |          |

#### Characteristics of parameter

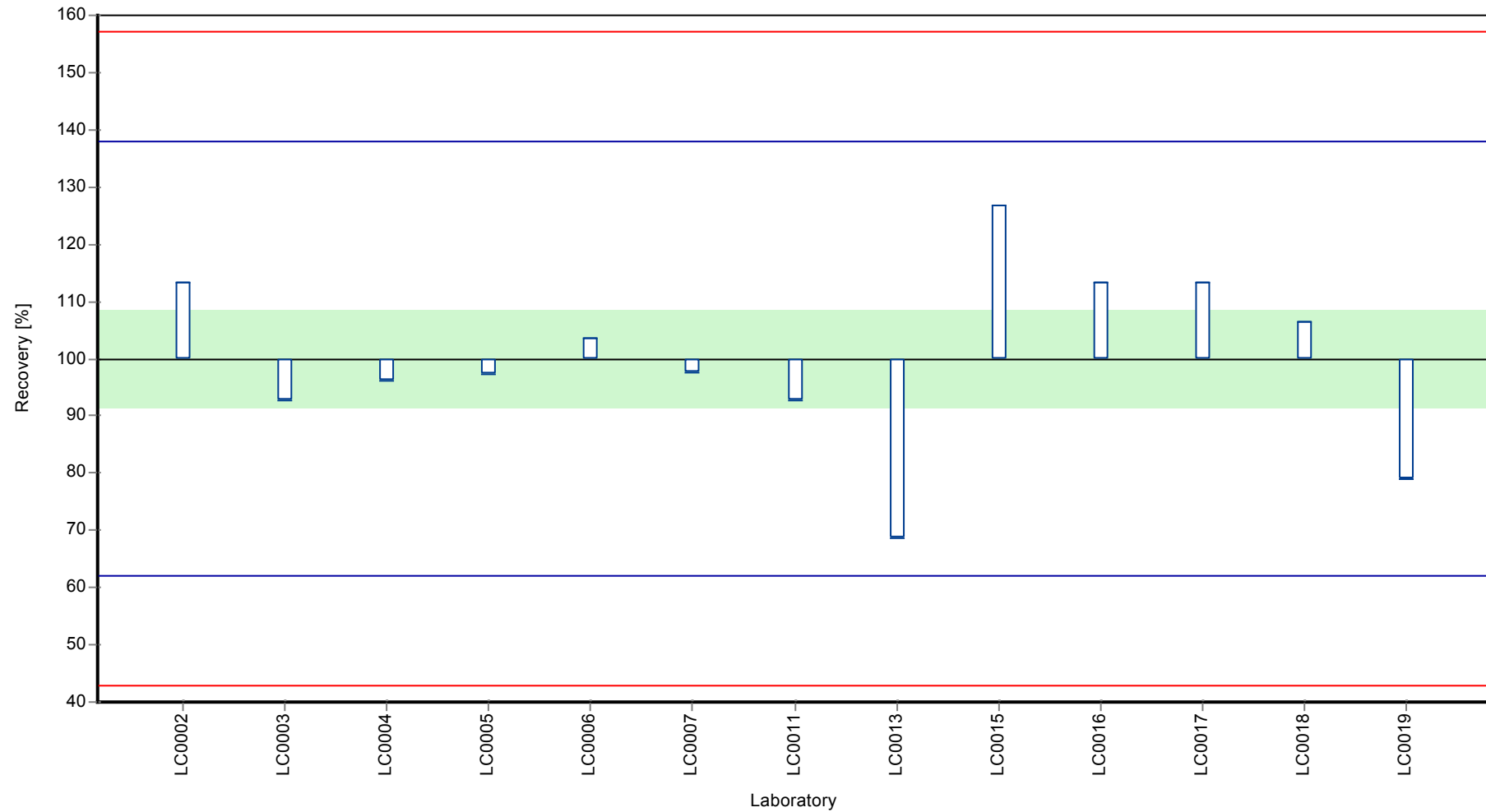
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 29.2 ± 3.75 | 29.2 ± 3.75      | ng/l |
| Minimum                 | 20          | 20               | ng/l |
| Maximum                 | 37          | 37               | ng/l |
| Standard deviation      | 4.51        | 4.51             | ng/l |
| rel. standard deviation | 15.5        | 15.5             | %    |
| n                       | 13          | 13               | -    |

Graphical presentation of results

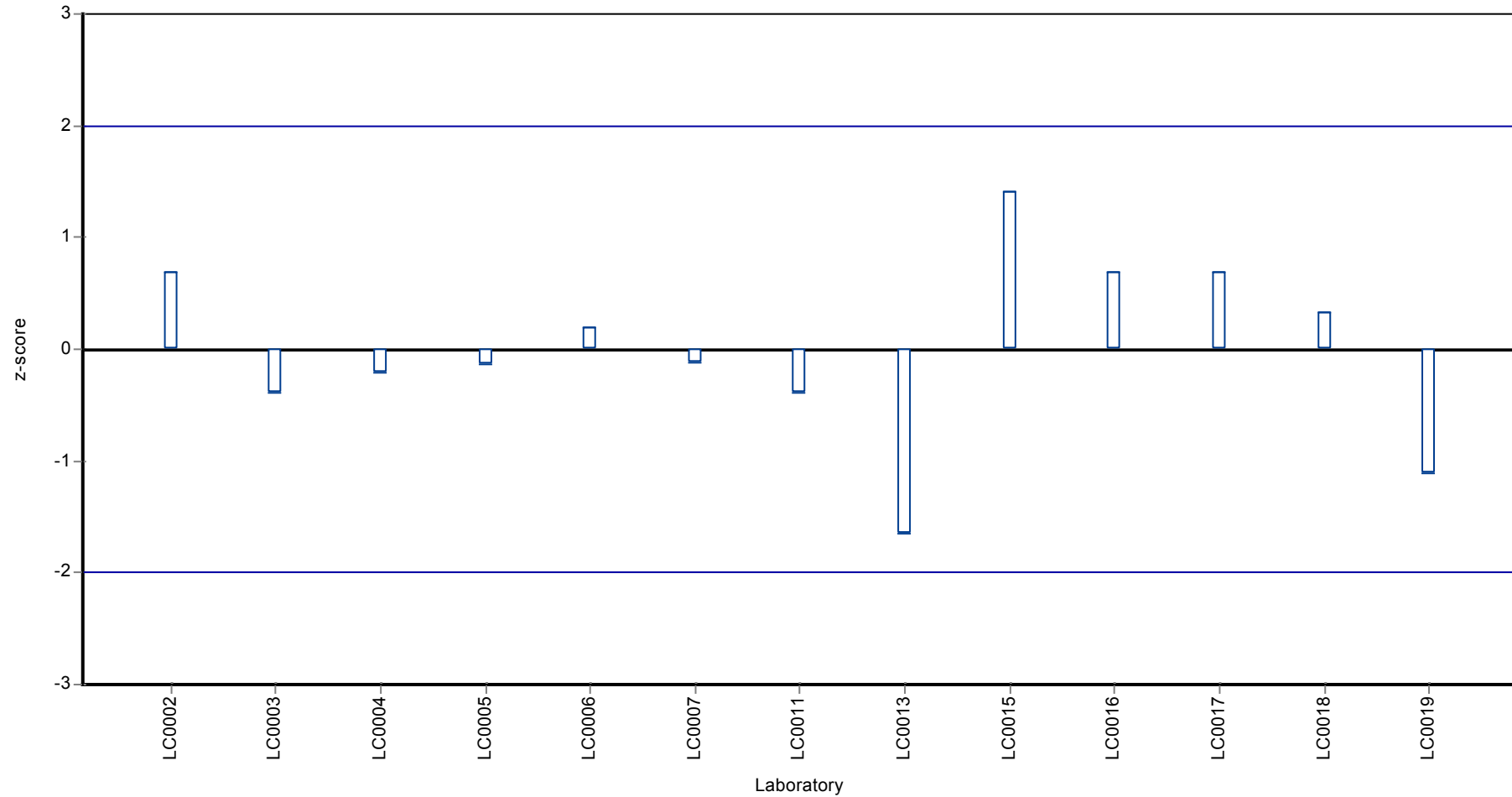
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 A

#### Fluorene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 158 ± 9.33  |
| Criterion                    | 20.6 (13 %) |
| Minimum - Maximum            | 135 - 196   |
| Control test value ± U (k=2) | 184 ± 55.3  |

| Labcode | Result | ± U   | Recovery [%] | z-score | Comments |
|---------|--------|-------|--------------|---------|----------|
| LC0001  | -      | -     | -            | -       |          |
| LC0002  | 184    | 9.24  | 116          | 1.24    |          |
| LC0003  | 170    | 39    | 107          | 0.56    |          |
| LC0004  | 139.9  | 43.4  | 88.3         | -0.9    |          |
| LC0005  | 161    | 71    | 102          | 0.12    |          |
| LC0006  | 142.5  | 62.7  | 89.9         | -0.78   |          |
| LC0007  | 174.55 | 22.69 | 110          | 0.78    |          |
| LC0008  | -      | -     | -            | -       |          |
| LC0009  | -      | -     | -            | -       |          |
| LC0010  | -      | -     | -            | -       |          |
| LC0011  | 142    | 28    | 89.6         | -0.8    |          |
| LC0012  | 139    | 13.9  | 87.7         | -0.94   |          |
| LC0013  | 160    | 30    | 101          | 0.07    |          |
| LC0014  | 155.7  | 46.7  | 98.3         | -0.13   |          |
| LC0015  | 148    | 46    | 93.4         | -0.51   |          |
| LC0016  | 172.25 | 17.25 | 109          | 0.67    |          |
| LC0017  | 196    | 28.9  | 124          | 1.82    |          |
| LC0018  | 135    | 13    | 85.2         | -1.14   |          |
| LC0019  | 157    | 47    | 99.1         | -0.07   |          |

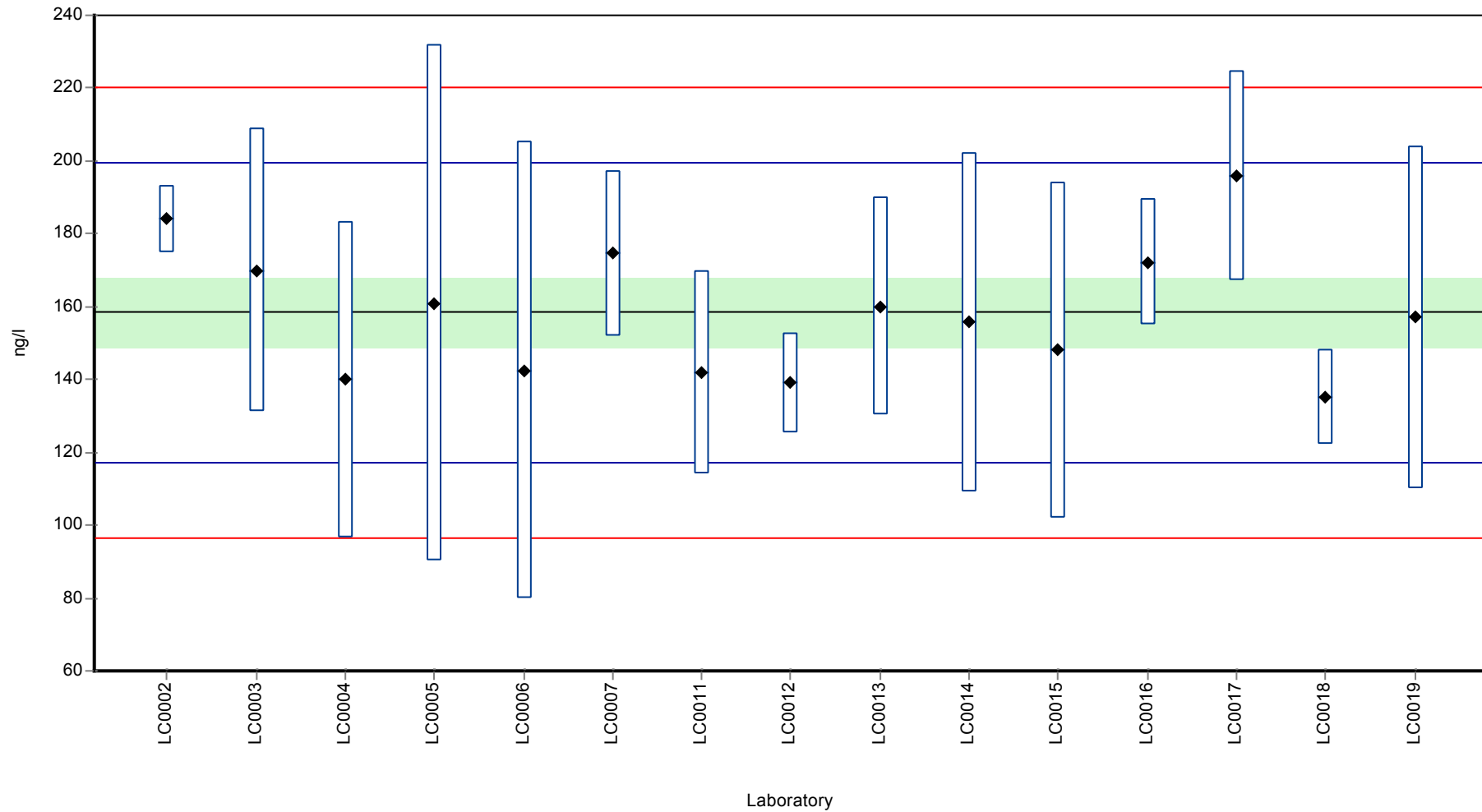
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 158 ± 14    | 158 ± 14         | ng/l |
| Minimum                 | 135         | 135              | ng/l |
| Maximum                 | 196         | 196              | ng/l |
| Standard deviation      | 18.1        | 18.1             | ng/l |
| rel. standard deviation | 11.4        | 11.4             | %    |
| n                       | 15          | 15               | -    |

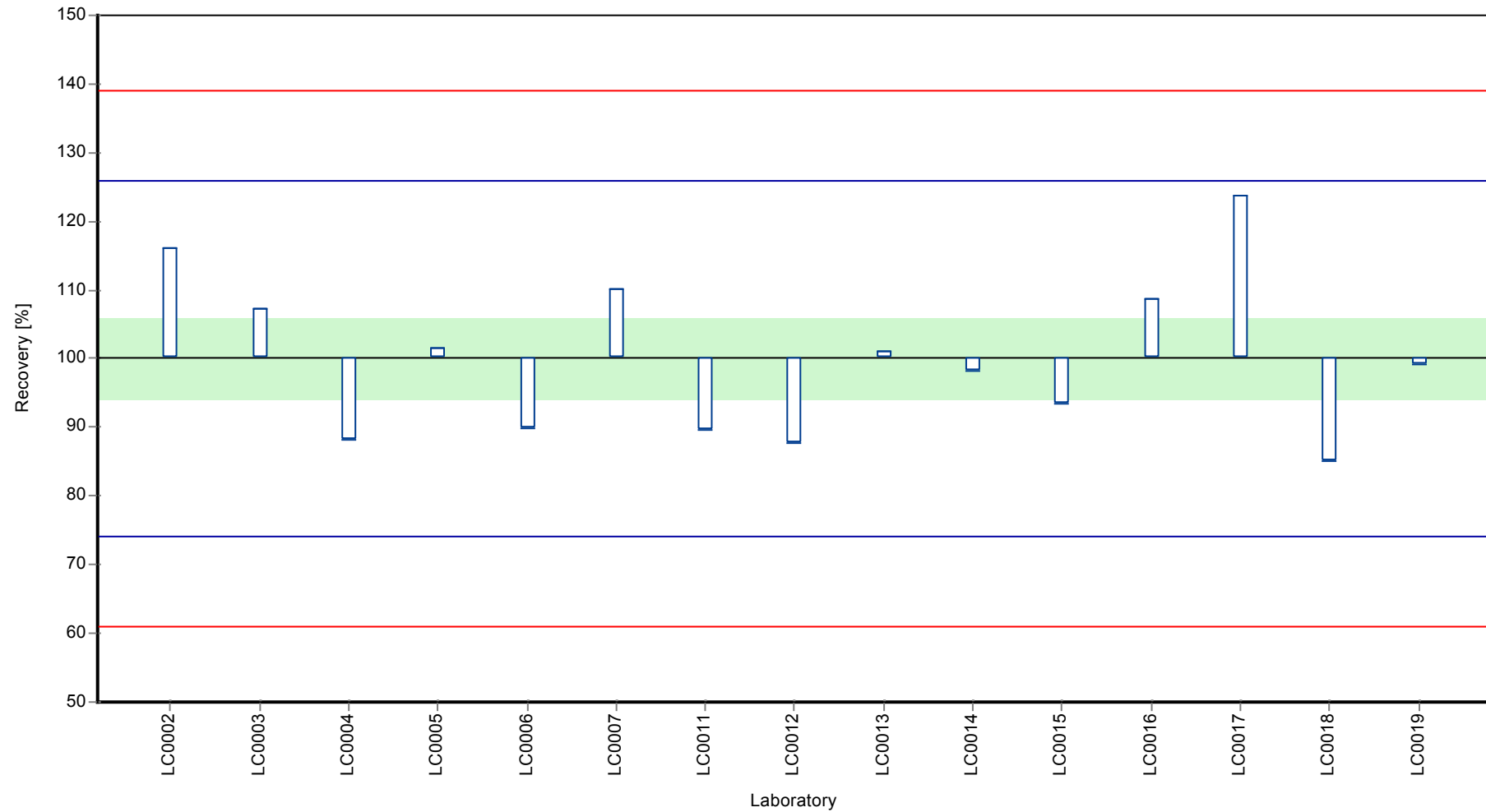


Graphical presentation of results

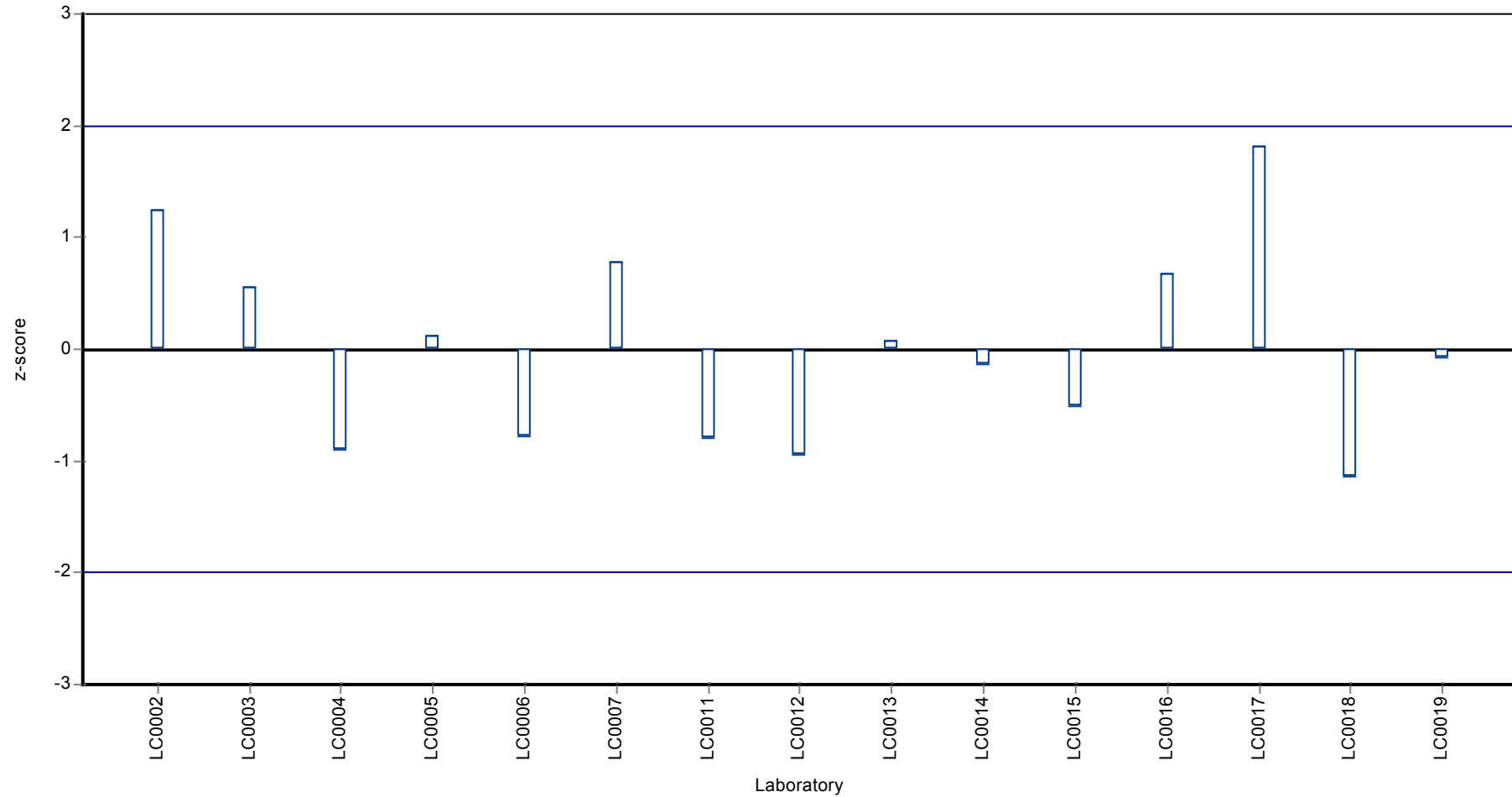
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 B

#### Fluorene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 26.3 ± 2.42 |
| Criterion                    | 4.36 (17 %) |
| Minimum - Maximum            | 16.5 - 33.1 |
| Control test value ± U (k=2) | 30.3 ± 9.1  |

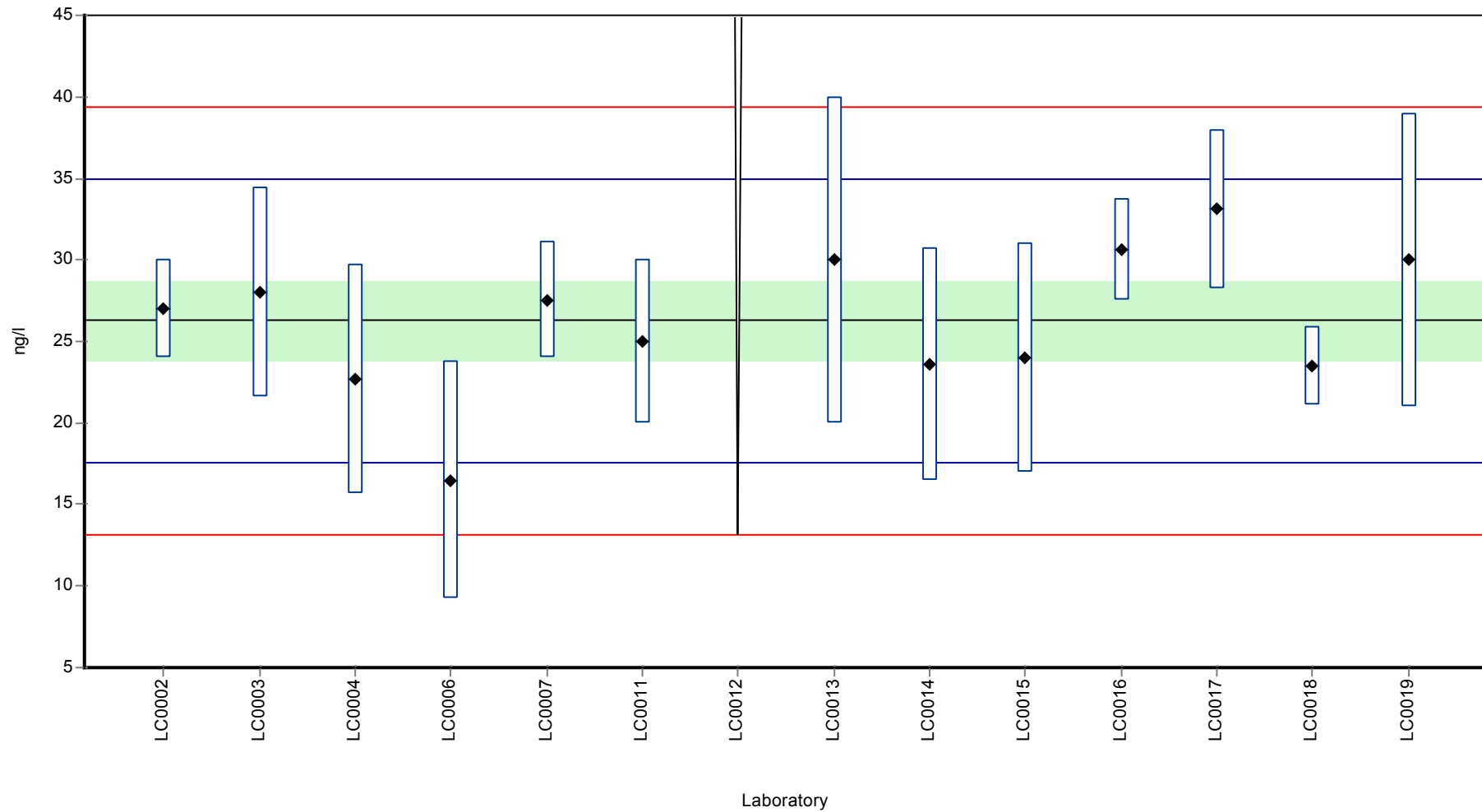
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 27           | 2.98 | 103          | 0.17    |          |
| LC0003  | 28           | 6.4  | 107          | 0.4     |          |
| LC0004  | 22.7         | 7    | 86.4         | -0.82   |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | 16.5         | 7.26 | 62.8         | -2.24   |          |
| LC0007  | 27.54        | 3.58 | 105          | 0.29    |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | 25           | 5    | 95.1         | -0.29   |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 30           | 10   | 114          | 0.85    |          |
| LC0014  | 23.6         | 7.1  | 89.8         | -0.61   |          |
| LC0015  | 24           | 7    | 91.3         | -0.52   |          |
| LC0016  | 30.63        | 3.1  | 117          | 1       |          |
| LC0017  | 33.1         | 4.9  | 126          | 1.56    |          |
| LC0018  | 23.5         | 2.4  | 89.4         | -0.64   |          |
| LC0019  | 30           | 9    | 114          | 0.85    |          |

#### Characteristics of parameter

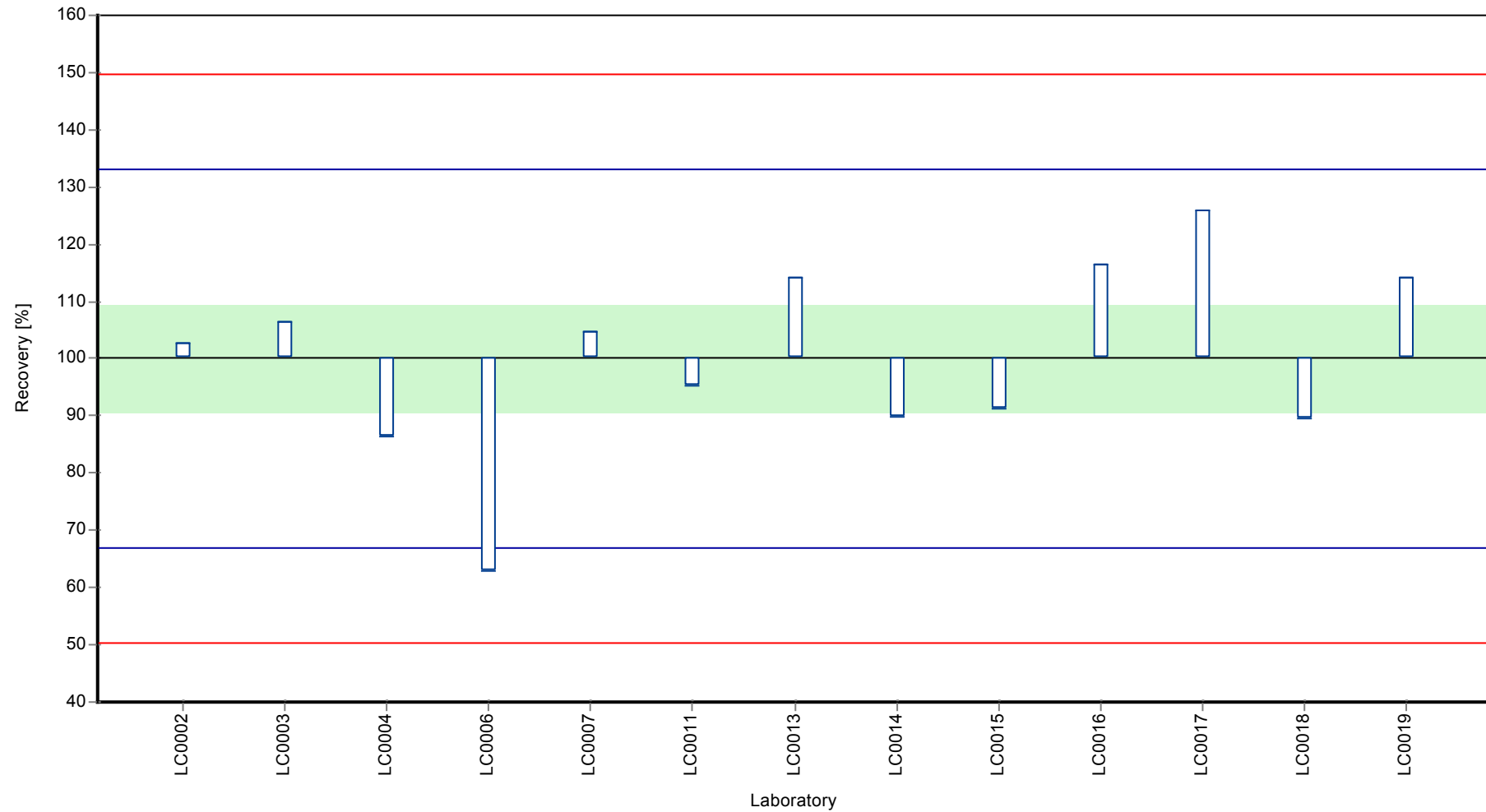
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 26.3 ± 3.63 | 26.3 ± 3.63      | ng/l |
| Minimum                 | 16.5        | 16.5             | ng/l |
| Maximum                 | 33.1        | 33.1             | ng/l |
| Standard deviation      | 4.36        | 4.36             | ng/l |
| rel. standard deviation | 16.6        | 16.6             | %    |
| n                       | 13          | 13               | -    |

Graphical presentation of results

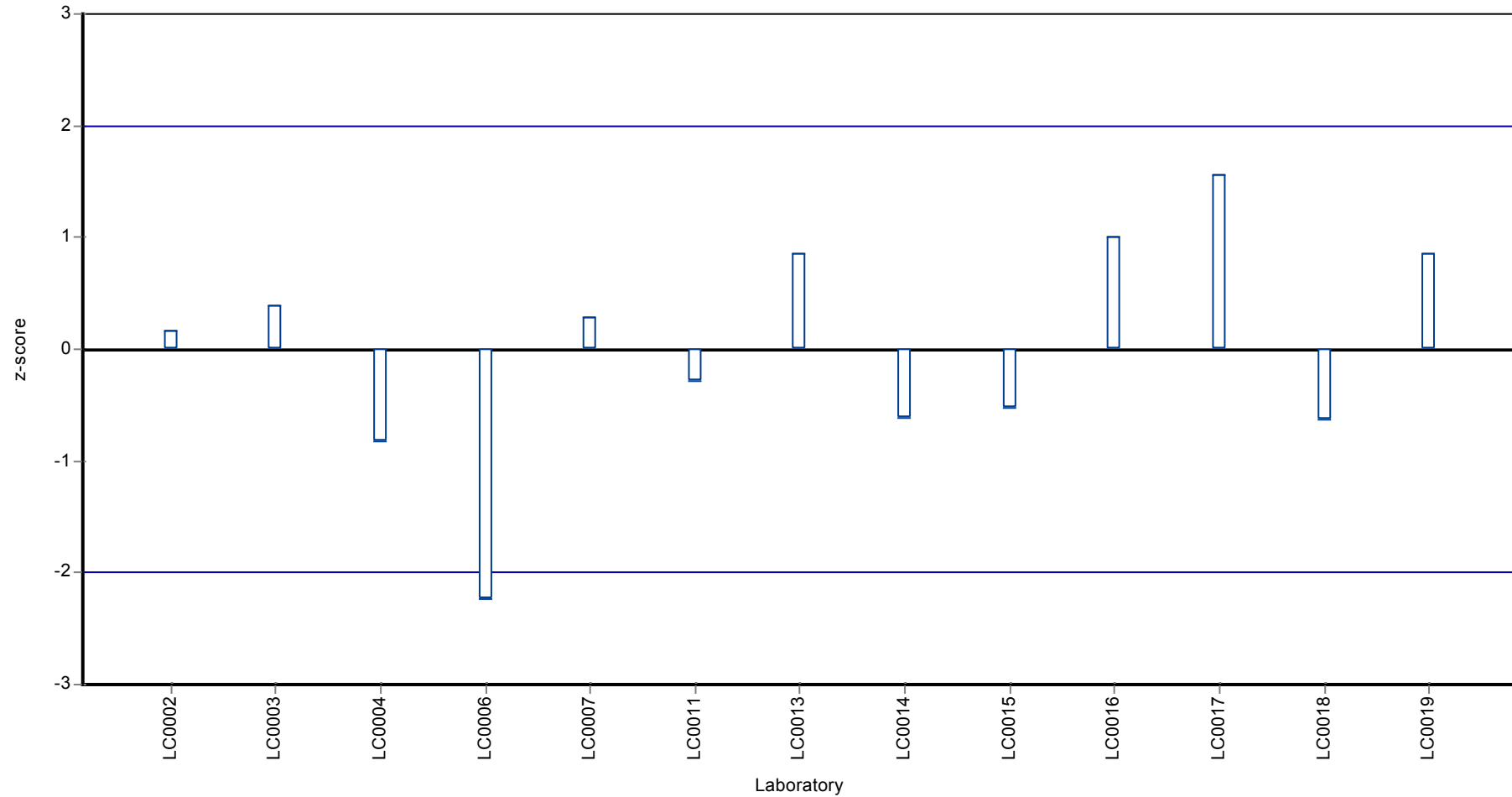
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 A

#### Indeno[1,2,3-cd]pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | -           |
| Criterion                    | -           |
| Minimum - Maximum            | 8.02 - 34.3 |
| Control test value ± U (k=2) | 11.4 ± 3.64 |

| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0003  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0004  | < 1.6 (LOQ)  | -    | -            | -       |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | -            | -    | -            | -       |          |
| LC0007  | 8.02         | 1.36 | -            | -       |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0014  | 34.3         | 15.4 | -            | -       | FP       |
| LC0015  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0016  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0017  | < 7.22 (LOQ) | -    | -            | -       |          |
| LC0018  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

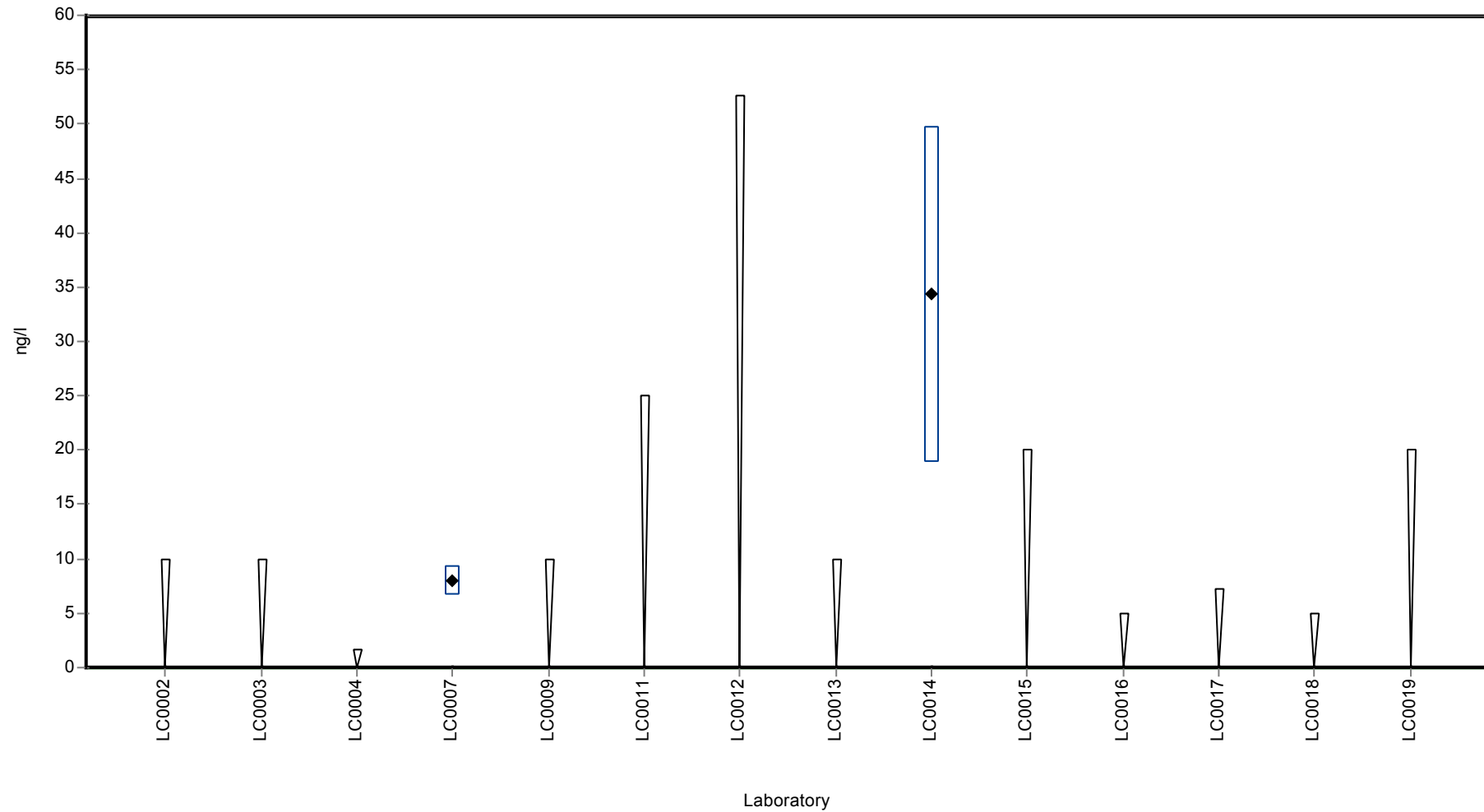
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 21.2 ± 39.4 | -                | ng/l |
| Minimum                 | 8.02        | 8.02             | ng/l |
| Maximum                 | 34.3        | 34.3             | ng/l |
| Standard deviation      | 18.6        | -                | ng/l |
| rel. standard deviation | 87.8        | -                | %    |
| n                       | 2           | 2                | -    |



Graphical presentation of results

Results



## Parameter oriented report

### P20 B

#### Indeno[1,2,3-cd]pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | -           |
| Criterion                    | -           |
| Minimum - Maximum            | 4.4 - 33.6  |
| Control test value ± U (k=2) | 3.72 ± 1.19 |

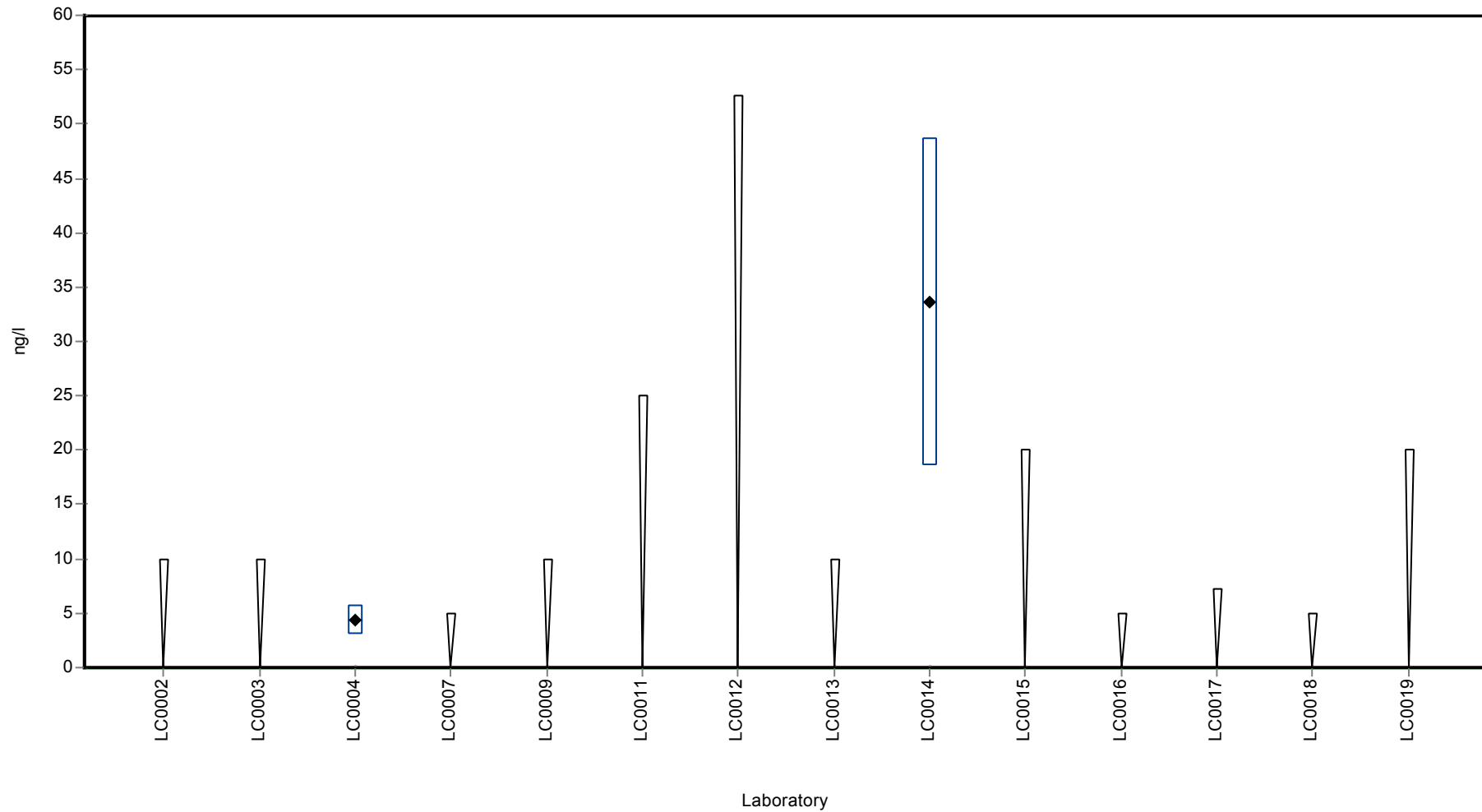
| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0003  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0004  | 4.4          | 1.4  | -            | -       |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | -            | -    | -            | -       |          |
| LC0007  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | < 10 (LOQ)   | -    | -            | -       |          |
| LC0014  | 33.6         | 15.1 | -            | -       | FP       |
| LC0015  | < 20 (LOQ)   | -    | -            | -       |          |
| LC0016  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0017  | < 7.22 (LOQ) | -    | -            | -       |          |
| LC0018  | < 5 (LOQ)    | -    | -            | -       |          |
| LC0019  | < 20 (LOQ)   | -    | -            | -       |          |

#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 19 ± 43.8   | -                | ng/l |
| Minimum                 | 4.4         | 4.4              | ng/l |
| Maximum                 | 33.6        | 33.6             | ng/l |
| Standard deviation      | 20.6        | -                | ng/l |
| rel. standard deviation | 109         | -                | %    |
| n                       | 2           | 2                | -    |

Graphical presentation of results

Results



## Parameter oriented report

### P20 A

#### Naphthalene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 87.6 ± 4.77 |
| Criterion                    | 21 (24 %)   |
| Minimum - Maximum            | 70 - 98.6   |
| Control test value ± U (k=2) | 109 ± 30.5  |

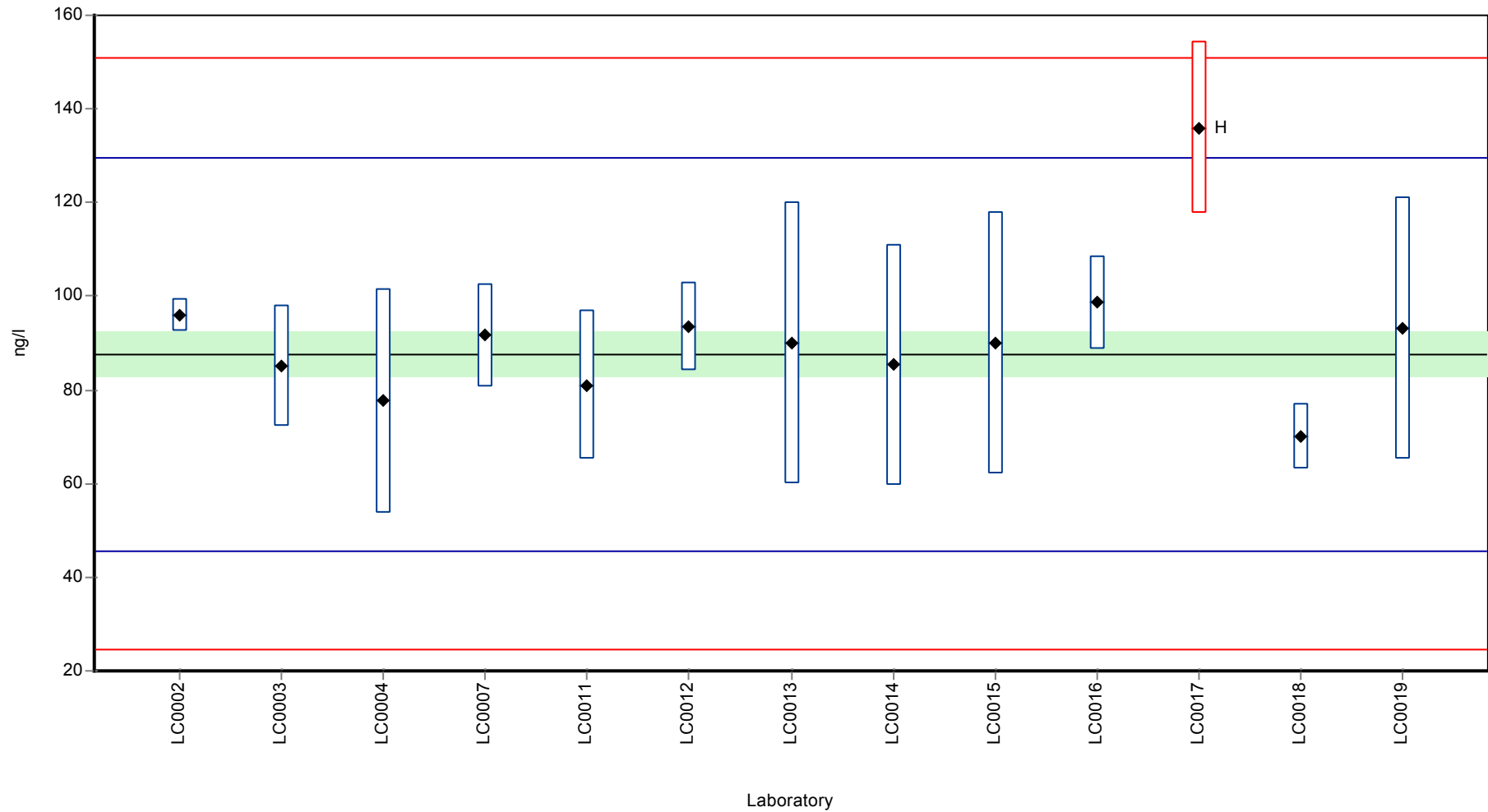
| Labcode | Result | ± U  | Recovery [%] | z-score | Comments |
|---------|--------|------|--------------|---------|----------|
| LC0001  | -      | -    | -            | -       |          |
| LC0002  | 96     | 3.45 | 110          | 0.4     |          |
| LC0003  | 85     | 13   | 97           | -0.13   |          |
| LC0004  | 77.6   | 24.1 | 88.5         | -0.48   |          |
| LC0005  | -      | -    | -            | -       |          |
| LC0006  | -      | -    | -            | -       |          |
| LC0007  | 91.69  | 11   | 105          | 0.19    |          |
| LC0008  | -      | -    | -            | -       |          |
| LC0009  | -      | -    | -            | -       |          |
| LC0010  | -      | -    | -            | -       |          |
| LC0011  | 81     | 16   | 92.4         | -0.32   |          |
| LC0012  | 93.5   | 9.4  | 107          | 0.28    |          |
| LC0013  | 90     | 30   | 103          | 0.11    |          |
| LC0014  | 85.3   | 25.6 | 97.3         | -0.11   |          |
| LC0015  | 90     | 28   | 103          | 0.11    |          |
| LC0016  | 98.63  | 9.9  | 113          | 0.52    |          |
| LC0017  | 136    | 18.4 | 155          | 2.3     | H        |
| LC0018  | 70     | 7    | 79.9         | -0.84   |          |
| LC0019  | 93     | 28   | 106          | 0.26    |          |

#### Characteristics of parameter

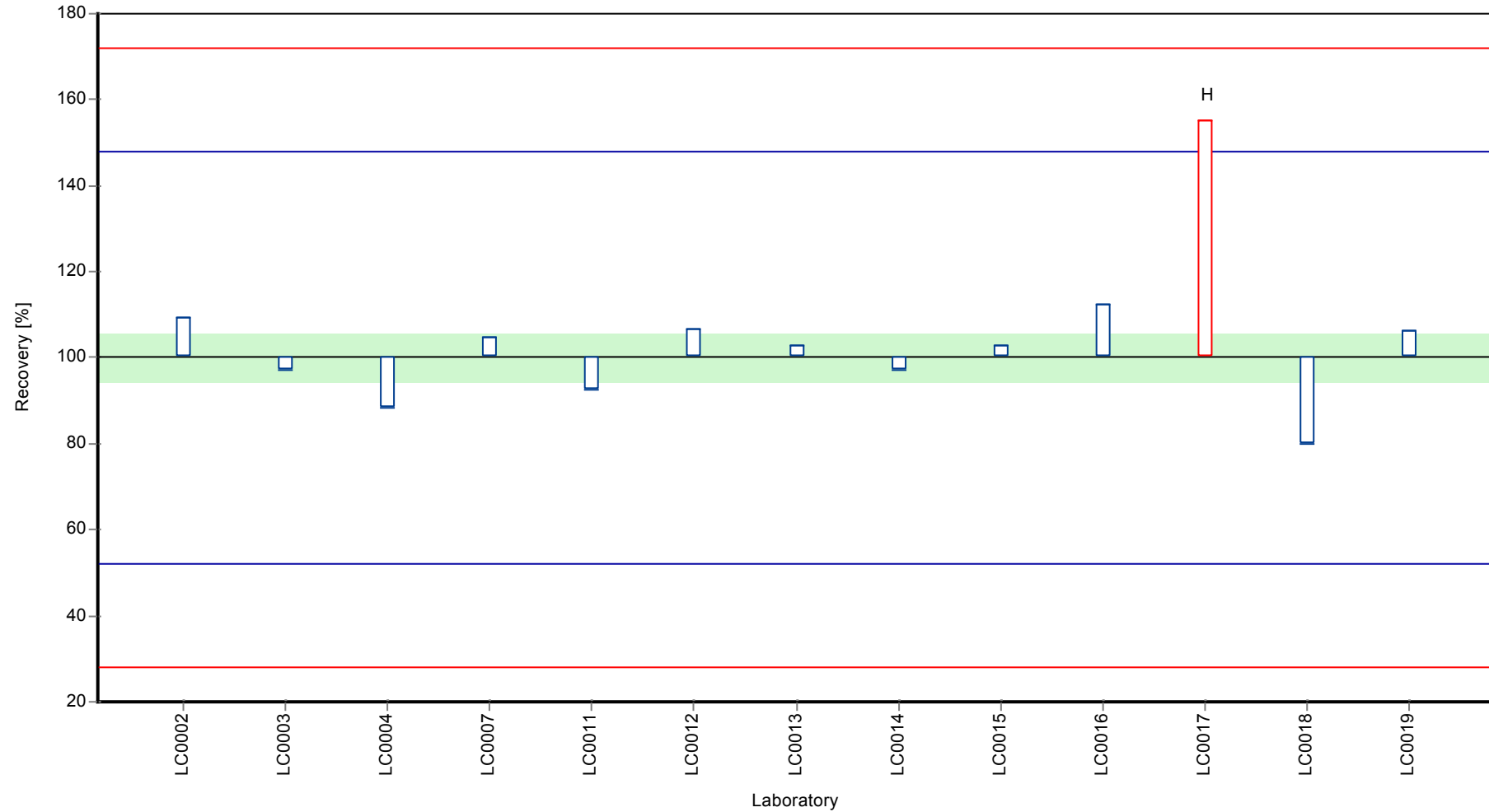
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 91.4 ± 13   | 87.6 ± 7.15      | ng/l |
| Minimum                 | 70          | 70               | ng/l |
| Maximum                 | 136         | 98.6             | ng/l |
| Standard deviation      | 15.6        | 8.26             | ng/l |
| rel. standard deviation | 17          | 9.42             | %    |
| n                       | 13          | 12               | -    |

Graphical presentation of results

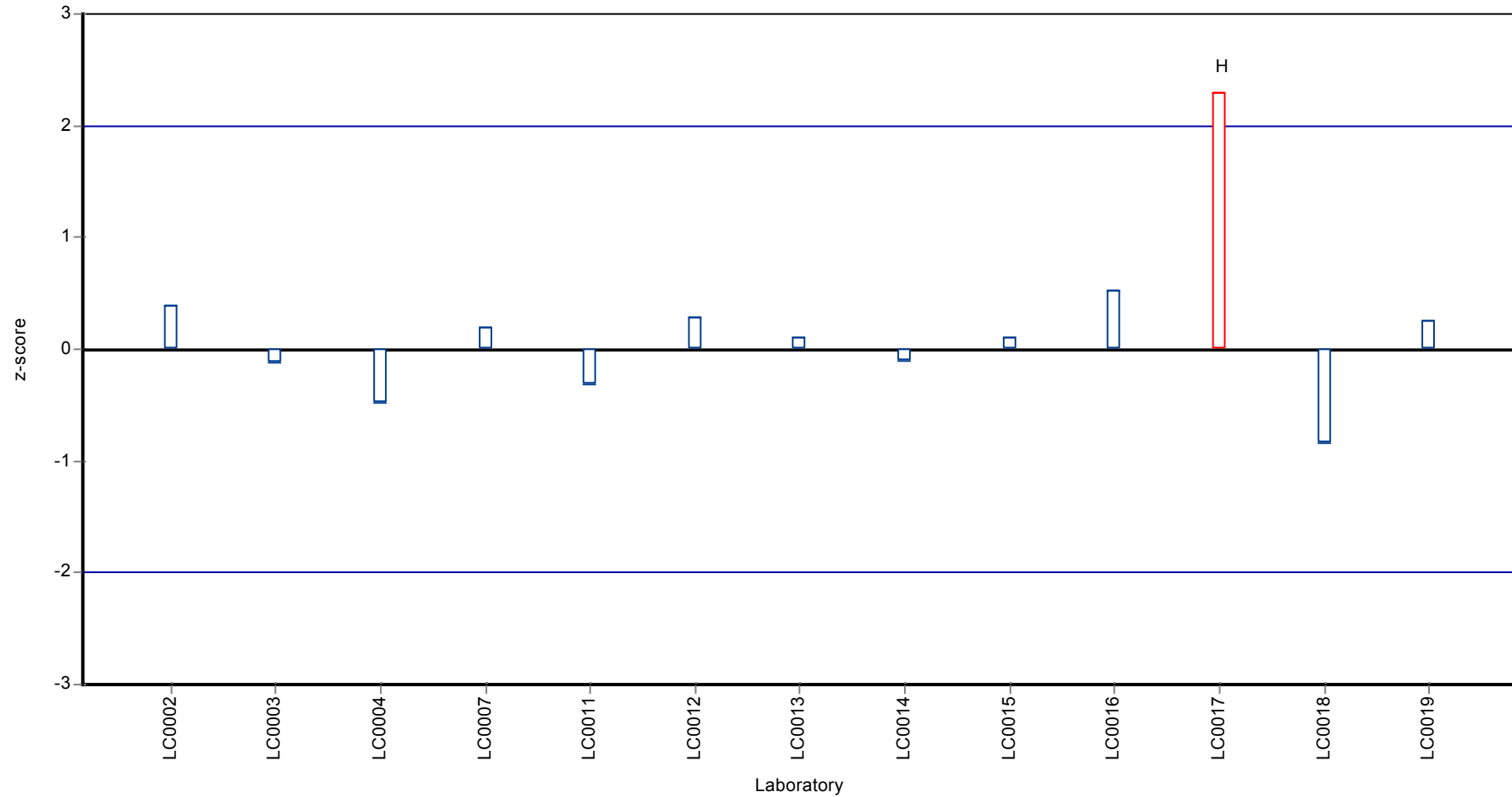
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Naphthalene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 42.6 ± 3.86 |
| Criterion                    | 10.2 (24 %) |
| Minimum - Maximum            | 31.4 - 50   |
| Control test value ± U (k=2) | 48.2 ± 13.5 |

| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 46.4         | 0.07 | 109          | 0.37    |          |
| LC0003  | 43           | 6.7  | 101          | 0.04    |          |
| LC0004  | 45.5         | 14.1 | 107          | 0.28    |          |
| LC0005  | -            | -    | -            | -       |          |
| LC0006  | -            | -    | -            | -       |          |
| LC0007  | 41.95        | 5.03 | 98.5         | -0.06   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | 35           | 7    | 82.2         | -0.74   |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 50           | 10   | 117          | 0.72    |          |
| LC0014  | 31.4         | 9.4  | 73.7         | -1.1    |          |
| LC0015  | 41           | 13   | 96.2         | -0.16   |          |
| LC0016  | 48.9         | 4.9  | 115          | 0.62    |          |
| LC0017  | < 68.2 (LOQ) | -    | -            | -       |          |
| LC0018  | 35.5         | 3.5  | 83.3         | -0.69   |          |
| LC0019  | 50           | 15   | 117          | 0.72    |          |

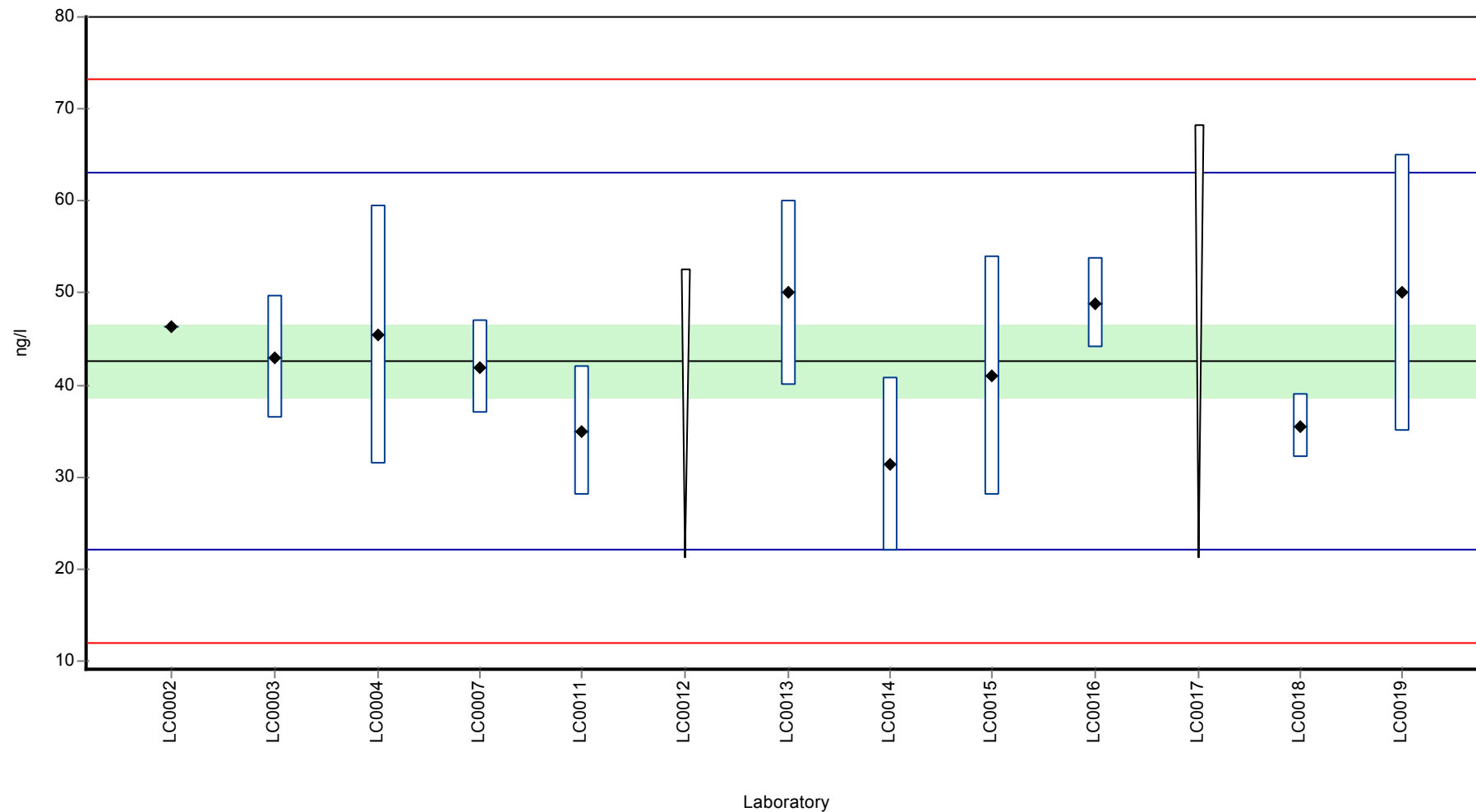
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 42.6 ± 5.78 | 42.6 ± 5.78      | ng/l |
| Minimum                 | 31.4        | 31.4             | ng/l |
| Maximum                 | 50          | 50               | ng/l |
| Standard deviation      | 6.39        | 6.39             | ng/l |
| rel. standard deviation | 15          | 15               | %    |
| n                       | 11          | 11               | -    |

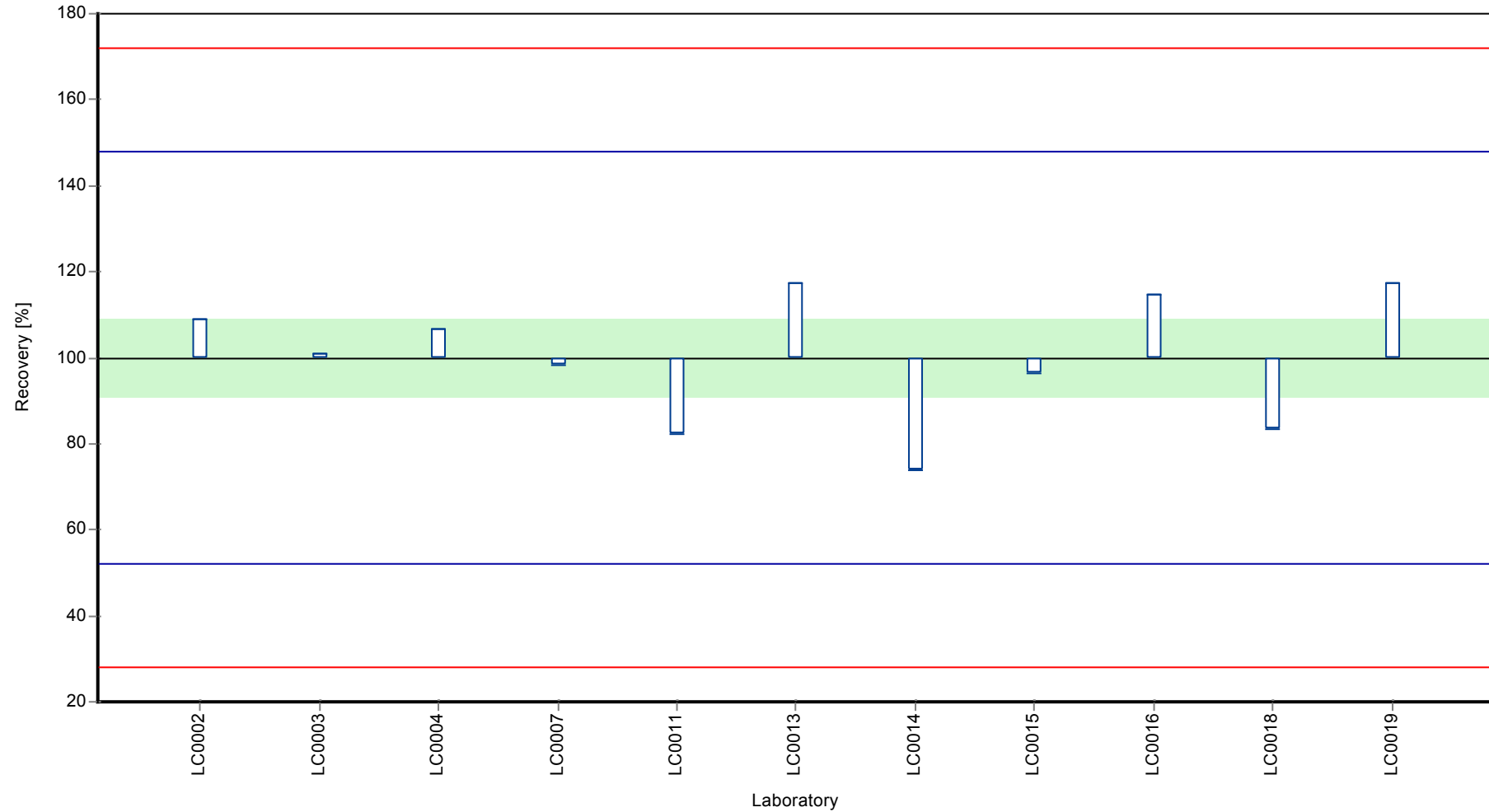


Graphical presentation of results

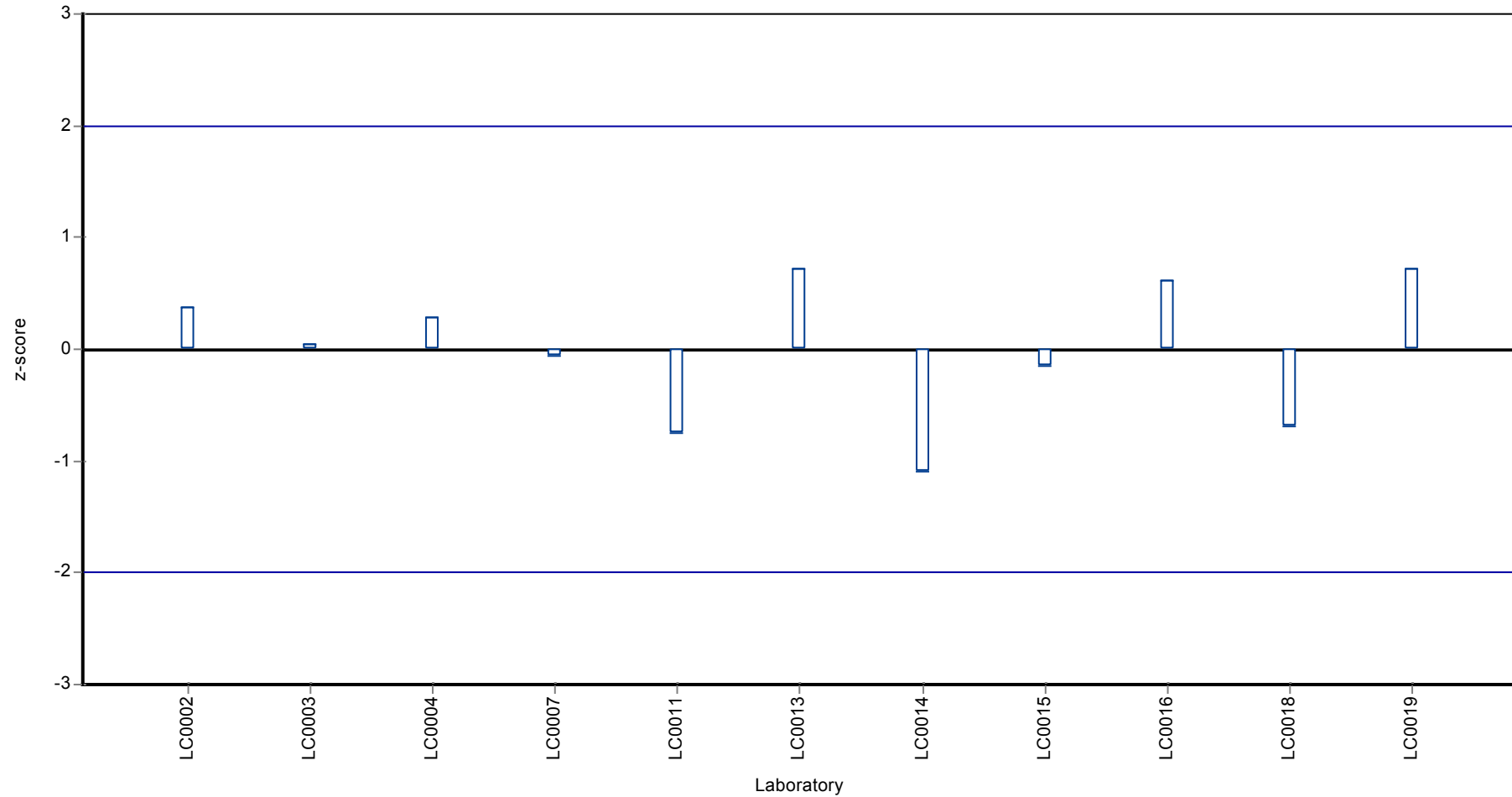
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Phenanthrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 274 ± 13.2  |
| Criterion                    | 41.1 (15 %) |
| Minimum - Maximum            | 229 - 316   |
| Control test value ± U (k=2) | 300 ± 78.1  |

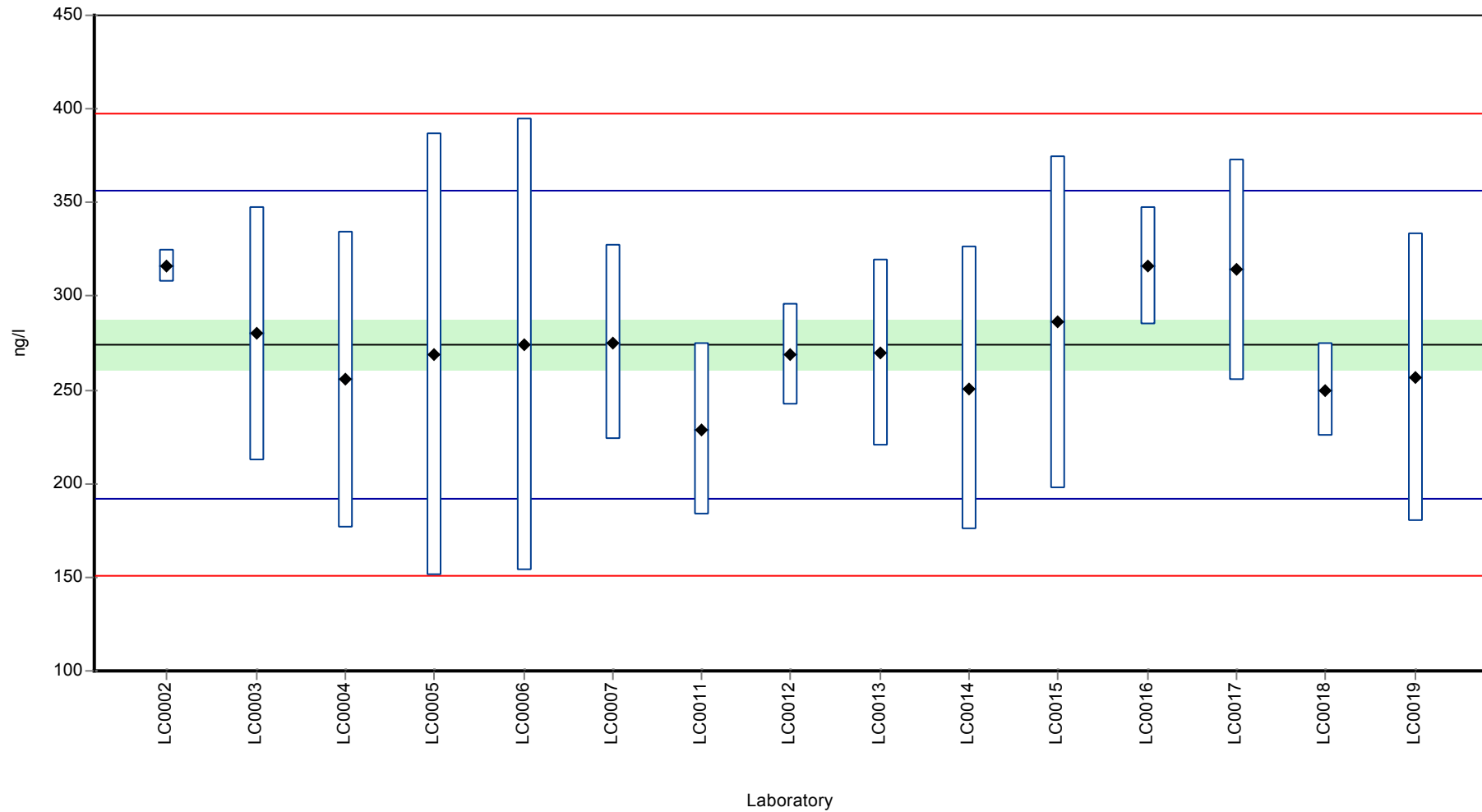
| Labcode | Result | ± U    | Recovery [%] | z-score | Comments |
|---------|--------|--------|--------------|---------|----------|
| LC0001  | -      | -      | -            | -       |          |
| LC0002  | 316    | 8.64   | 115          | 1.02    |          |
| LC0003  | 280    | 68     | 102          | 0.14    |          |
| LC0004  | 255.4  | 79.2   | 93.2         | -0.46   |          |
| LC0005  | 269    | 118    | 98.1         | -0.13   |          |
| LC0006  | 274.5  | 120.78 | 100          | 0.01    |          |
| LC0007  | 275.28 | 52.3   | 100          | 0.03    |          |
| LC0008  | -      | -      | -            | -       |          |
| LC0009  | -      | -      | -            | -       |          |
| LC0010  | -      | -      | -            | -       |          |
| LC0011  | 229    | 46     | 83.5         | -1.1    |          |
| LC0012  | 269    | 26.9   | 98.1         | -0.13   |          |
| LC0013  | 270    | 50     | 98.5         | -0.1    |          |
| LC0014  | 250.9  | 75.3   | 91.5         | -0.56   |          |
| LC0015  | 286    | 89     | 104          | 0.29    |          |
| LC0016  | 315.88 | 31.6   | 115          | 1.02    |          |
| LC0017  | 314    | 59.4   | 115          | 0.97    |          |
| LC0018  | 250    | 25     | 91.2         | -0.59   |          |
| LC0019  | 257    | 77     | 93.8         | -0.42   |          |

#### Characteristics of parameter

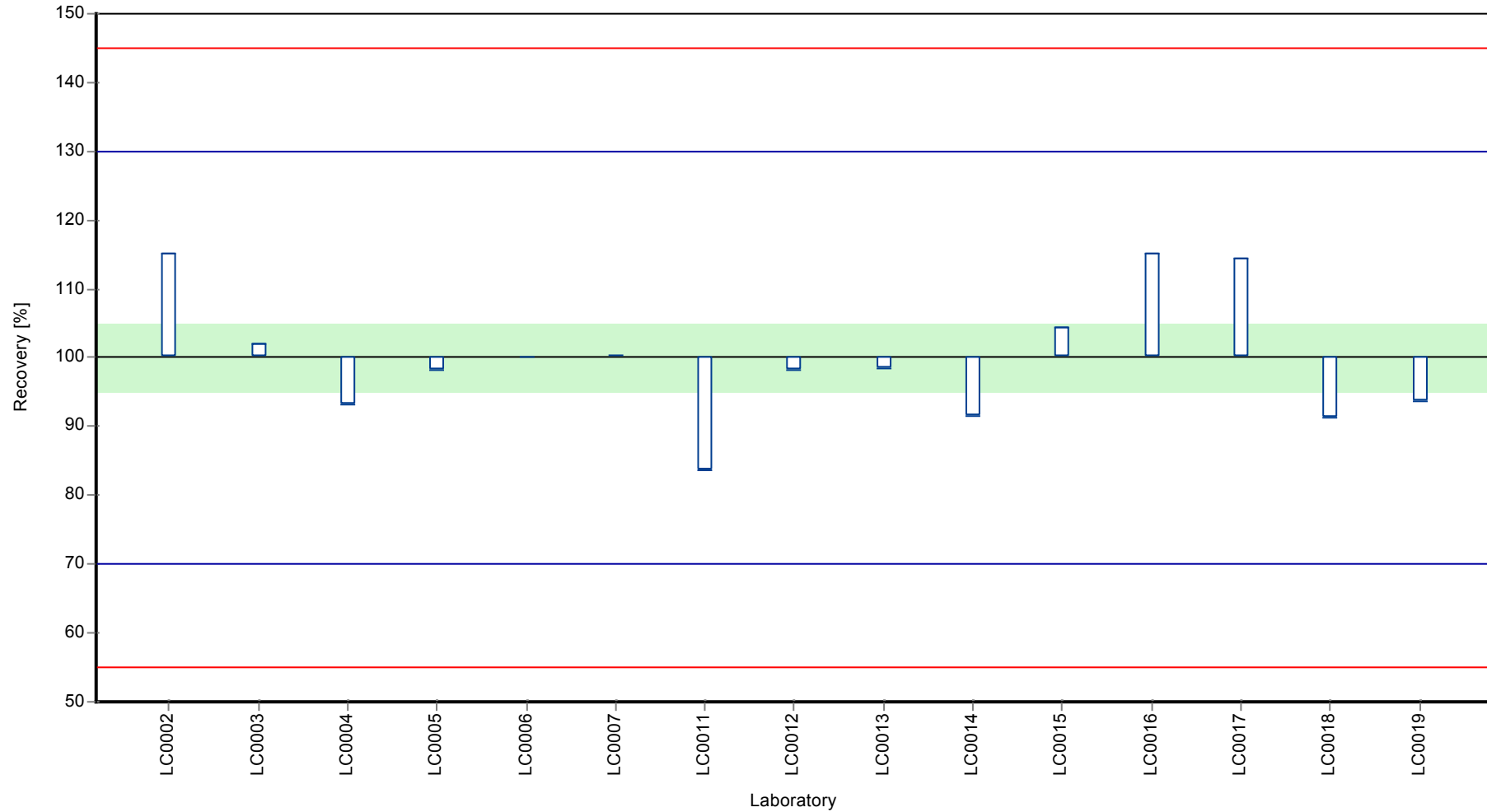
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 274 ± 19.8  | 274 ± 19.8       | ng/l |
| Minimum                 | 229         | 229              | ng/l |
| Maximum                 | 316         | 316              | ng/l |
| Standard deviation      | 25.5        | 25.5             | ng/l |
| rel. standard deviation | 9.32        | 9.32             | %    |
| n                       | 15          | 15               | -    |

Graphical presentation of results

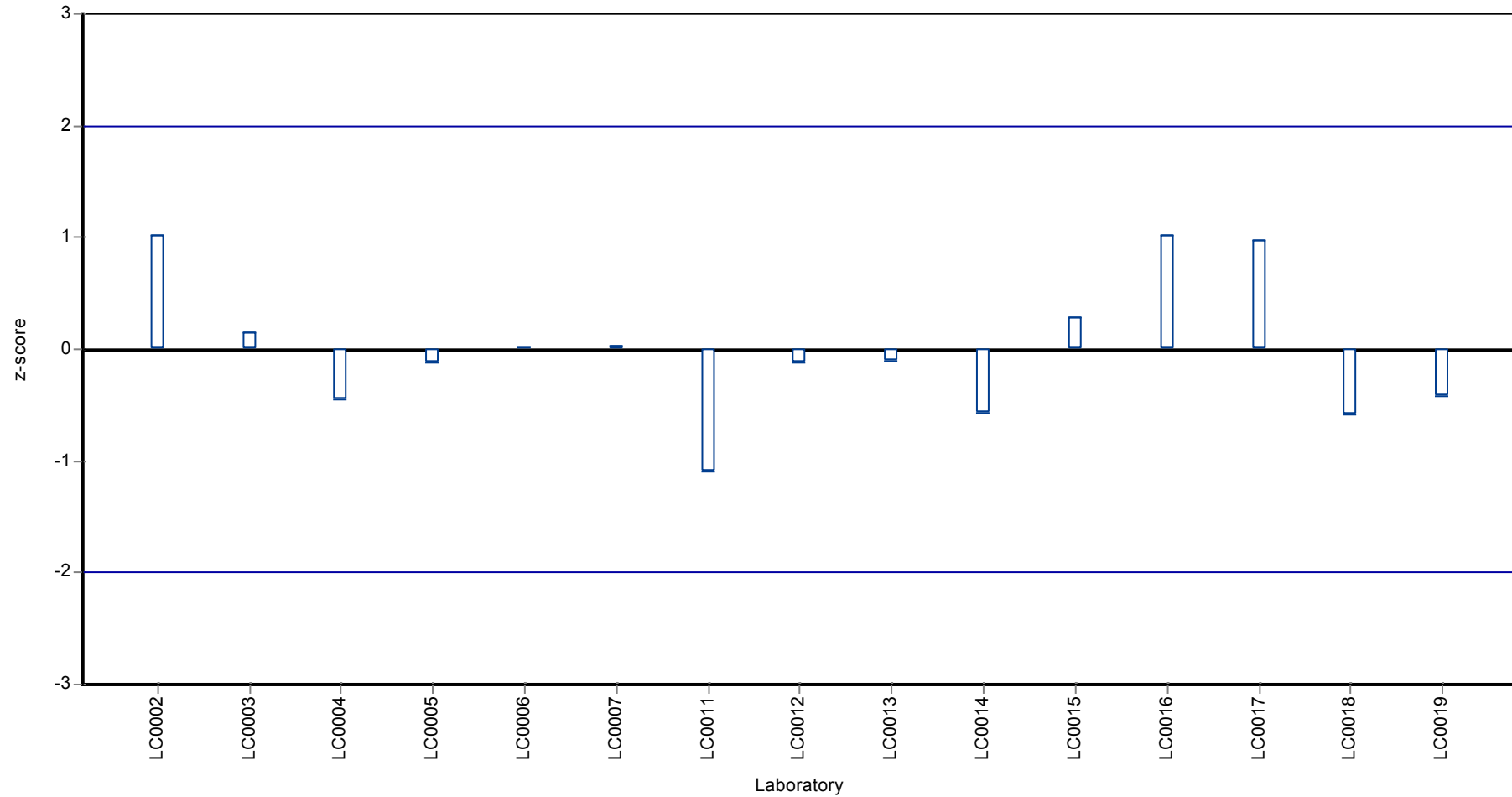
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P20 B

#### Phenanthrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 47.4 ± 4    |
| Criterion                    | 7.48 (16 %) |
| Minimum - Maximum            | 30.8 - 58.5 |
| Control test value ± U (k=2) | 52.8 ± 13.7 |

| Labcode | Result       | ± U   | Recovery [%] | z-score | Comments |
|---------|--------------|-------|--------------|---------|----------|
| LC0001  | -            | -     | -            | -       |          |
| LC0002  | 53.6         | 0.88  | 113          | 0.83    |          |
| LC0003  | 53           | 13    | 112          | 0.75    |          |
| LC0004  | 42.1         | 13.1  | 88.8         | -0.71   |          |
| LC0005  | 51           | 22.4  | 108          | 0.48    |          |
| LC0006  | 41.2         | 18.13 | 86.9         | -0.83   |          |
| LC0007  | 46.47        | 8.83  | 98.1         | -0.12   |          |
| LC0008  | -            | -     | -            | -       |          |
| LC0009  | -            | -     | -            | -       |          |
| LC0010  | -            | -     | -            | -       |          |
| LC0011  | 40           | 8     | 84.4         | -0.99   |          |
| LC0012  | < 52.6 (LOQ) | -     | -            | -       |          |
| LC0013  | 50           | 10    | 106          | 0.35    |          |
| LC0014  | 30.8         | 9.2   | 65           | -2.22   |          |
| LC0015  | 53           | 17    | 112          | 0.75    |          |
| LC0016  | 58.5         | 5.85  | 123          | 1.49    |          |
| LC0017  | 55.3         | 10.4  | 117          | 1.06    |          |
| LC0018  | 45.5         | 4.5   | 96           | -0.25   |          |
| LC0019  | 43           | 13    | 90.7         | -0.59   |          |

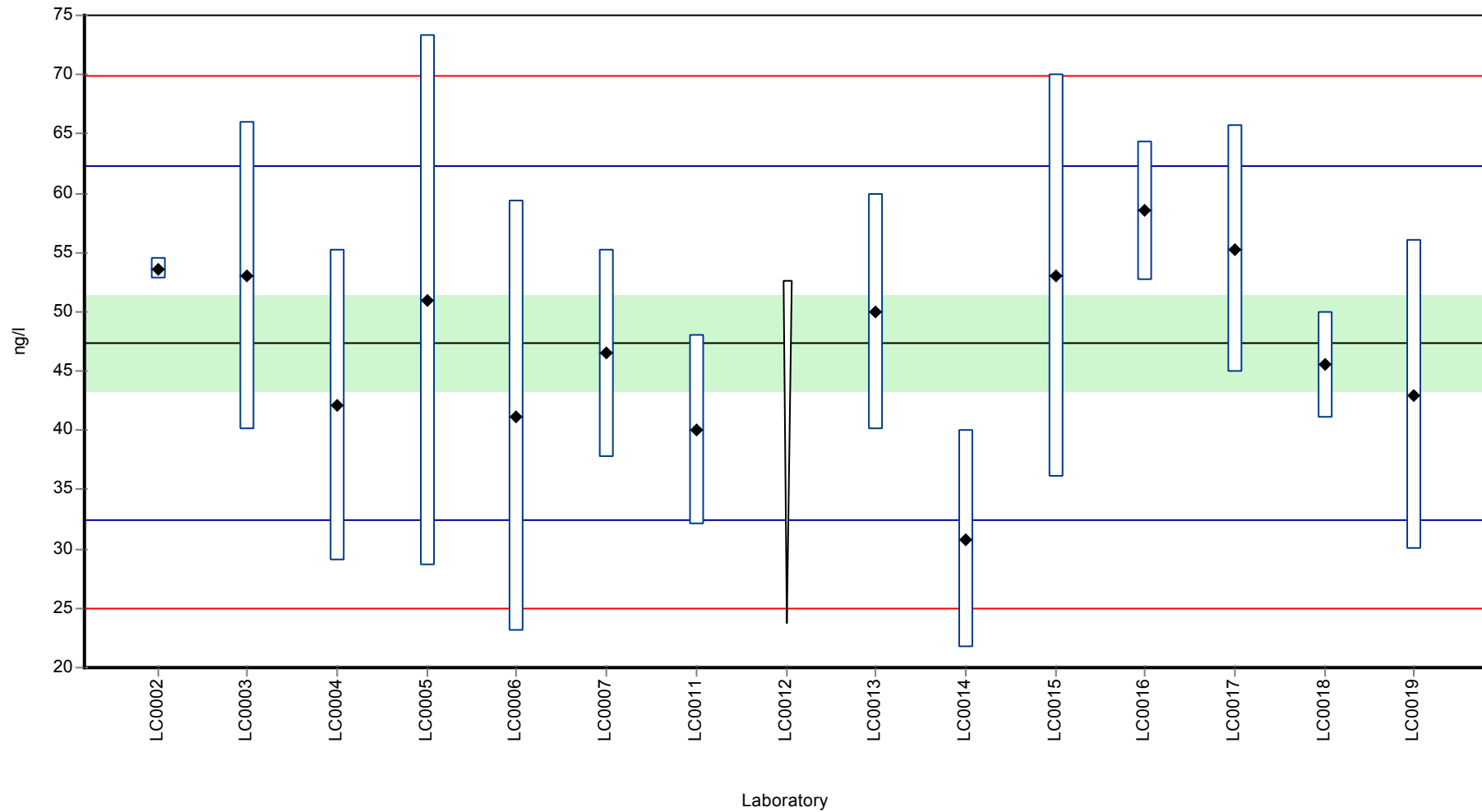
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 47.4 ± 6    | 47.4 ± 6         | ng/l |
| Minimum                 | 30.8        | 30.8             | ng/l |
| Maximum                 | 58.5        | 58.5             | ng/l |
| Standard deviation      | 7.48        | 7.48             | ng/l |
| rel. standard deviation | 15.8        | 15.8             | %    |
| n                       | 14          | 14               | -    |

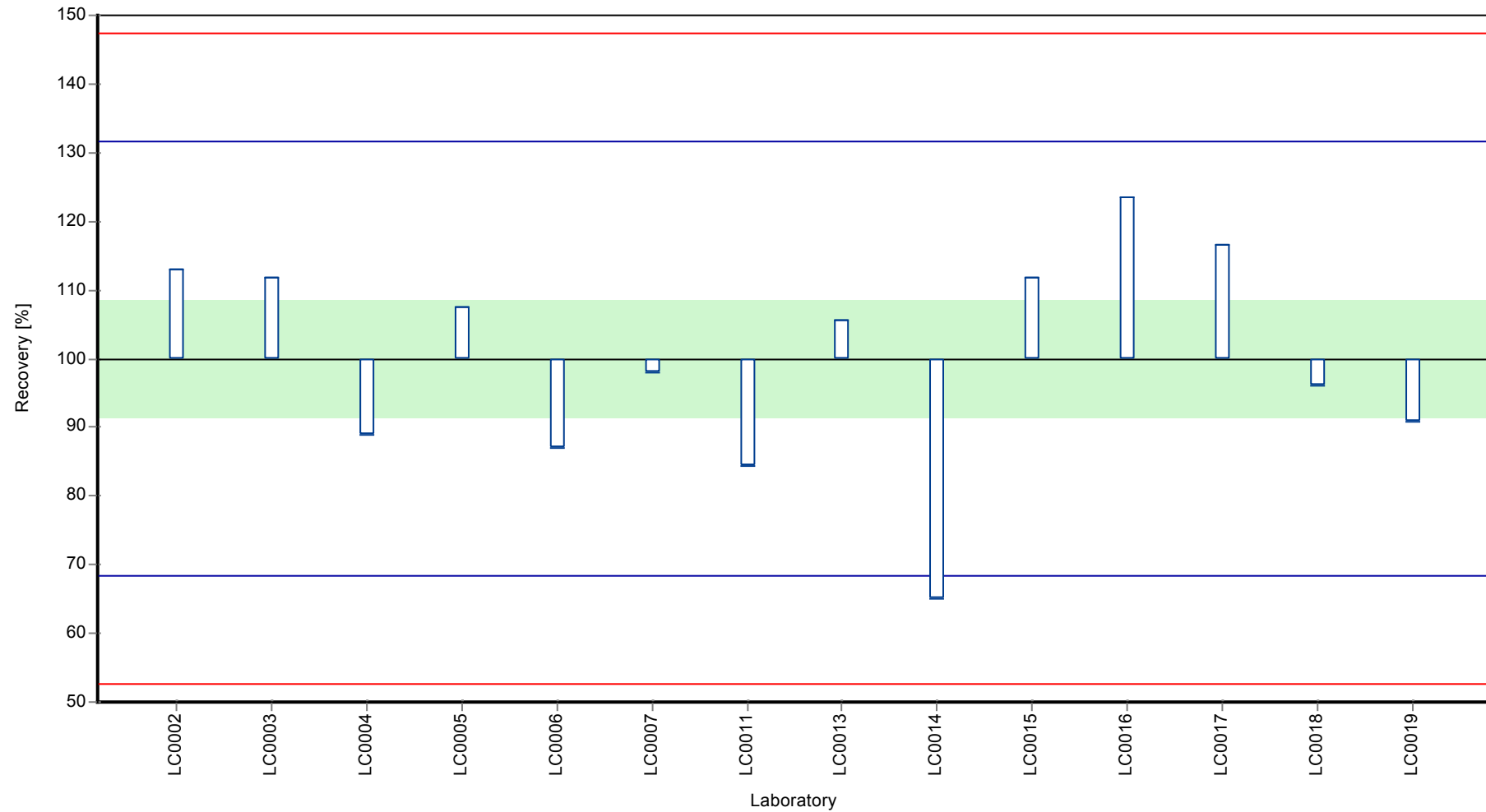


Graphical presentation of results

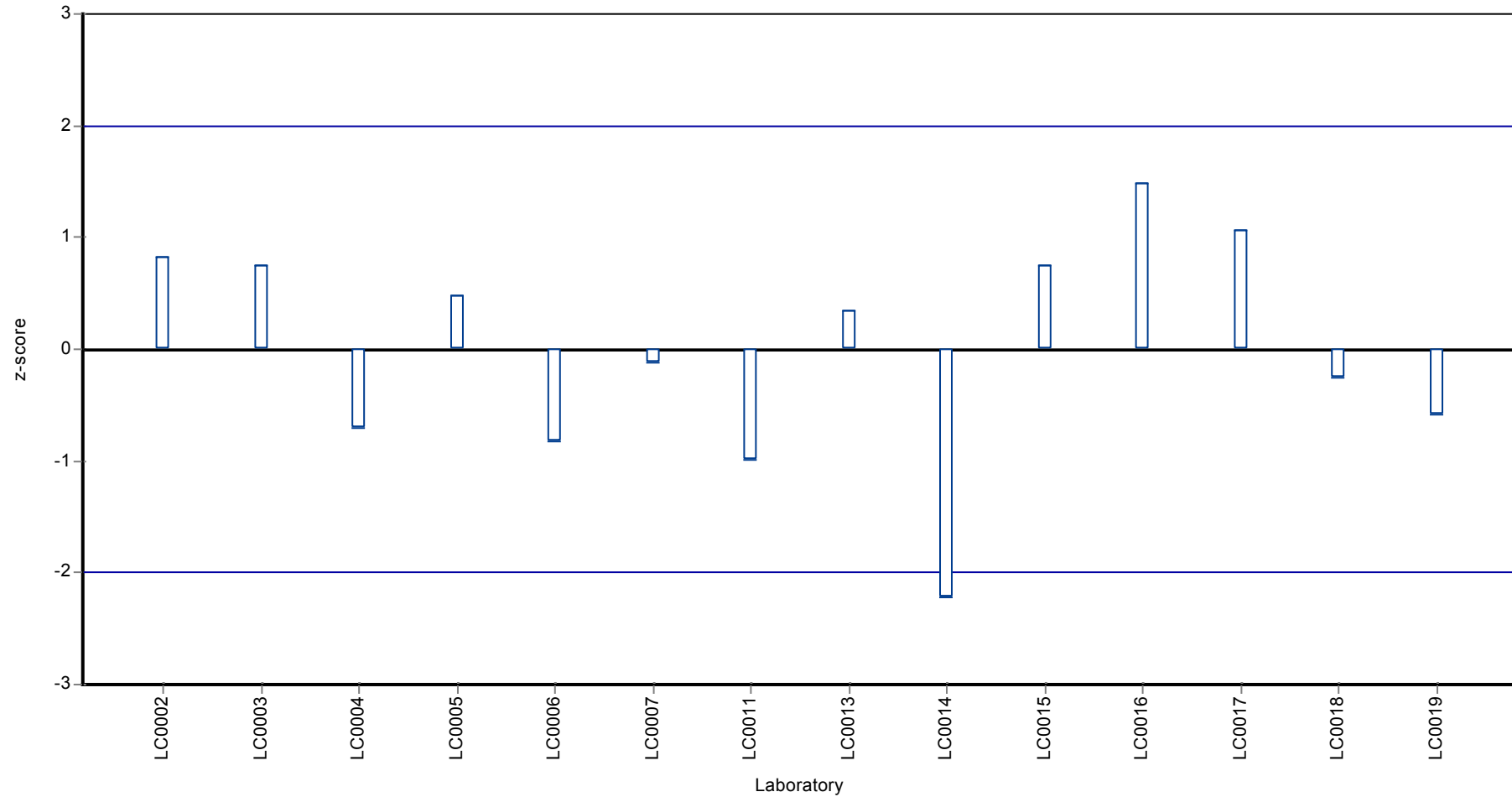
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 A

#### Pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 175 ± 13.6  |
| Criterion                    | 29.8 (17 %) |
| Minimum - Maximum            | 122 - 213   |
| Control test value ± U (k=2) | 208 ± 41.7  |

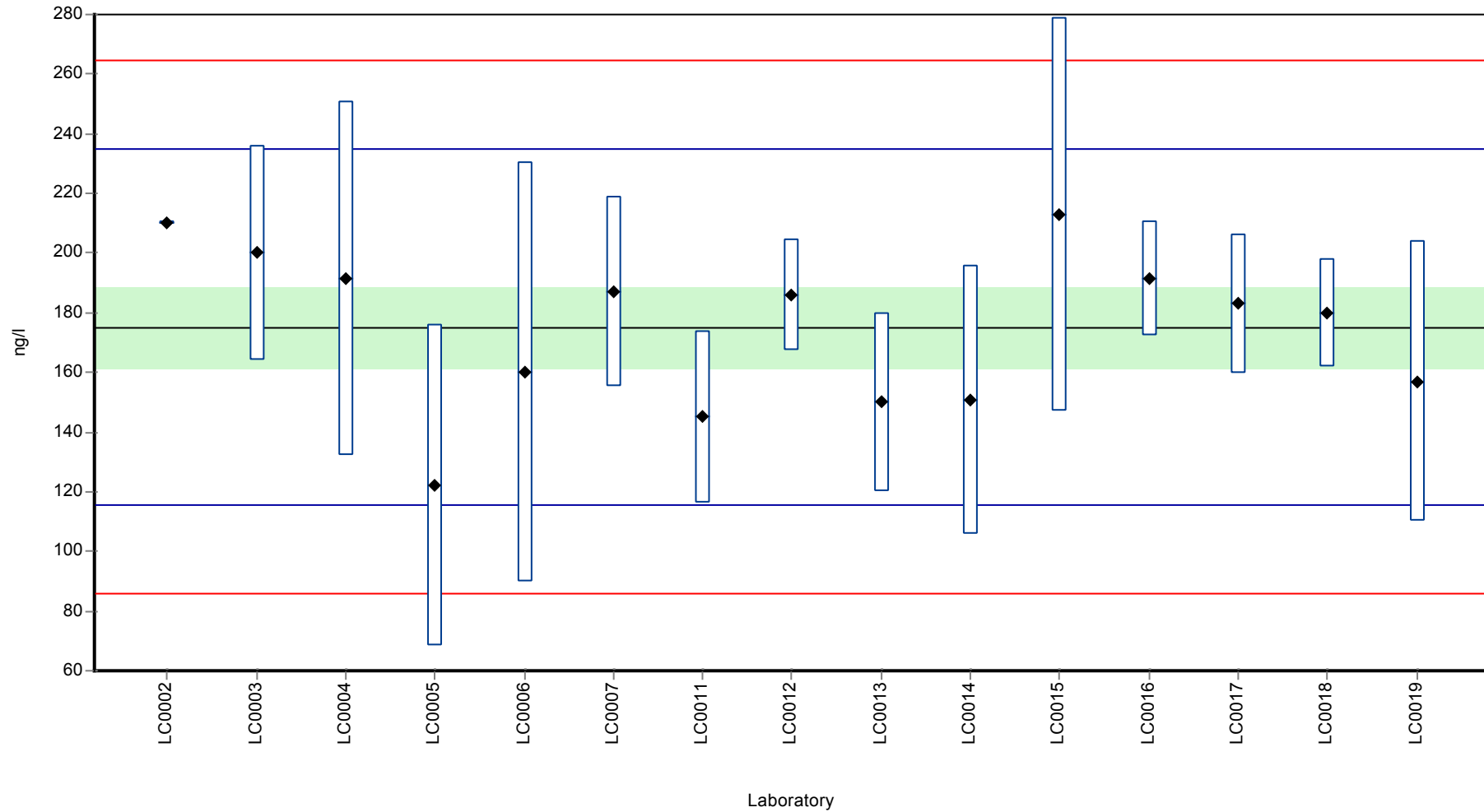
| Labcode | Result | ± U  | Recovery [%] | z-score | Comments |
|---------|--------|------|--------------|---------|----------|
| LC0001  | -      | -    | -            | -       |          |
| LC0002  | 210    | 0.64 | 120          | 1.17    |          |
| LC0003  | 200    | 36   | 114          | 0.84    |          |
| LC0004  | 191.5  | 59.4 | 109          | 0.55    |          |
| LC0005  | 122    | 54   | 69.7         | -1.78   |          |
| LC0006  | 160    | 70.4 | 91.4         | -0.51   |          |
| LC0007  | 187.03 | 31.8 | 107          | 0.4     |          |
| LC0008  | -      | -    | -            | -       |          |
| LC0009  | -      | -    | -            | -       |          |
| LC0010  | -      | -    | -            | -       |          |
| LC0011  | 145    | 29   | 82.8         | -1.01   |          |
| LC0012  | 186    | 18.6 | 106          | 0.37    |          |
| LC0013  | 150    | 30   | 85.7         | -0.84   |          |
| LC0014  | 150.6  | 45.2 | 86           | -0.82   |          |
| LC0015  | 213    | 66   | 122          | 1.27    |          |
| LC0016  | 191.38 | 19.2 | 109          | 0.55    |          |
| LC0017  | 183    | 23.3 | 105          | 0.27    |          |
| LC0018  | 180    | 18   | 103          | 0.17    |          |
| LC0019  | 157    | 47   | 89.7         | -0.61   |          |

#### Characteristics of parameter

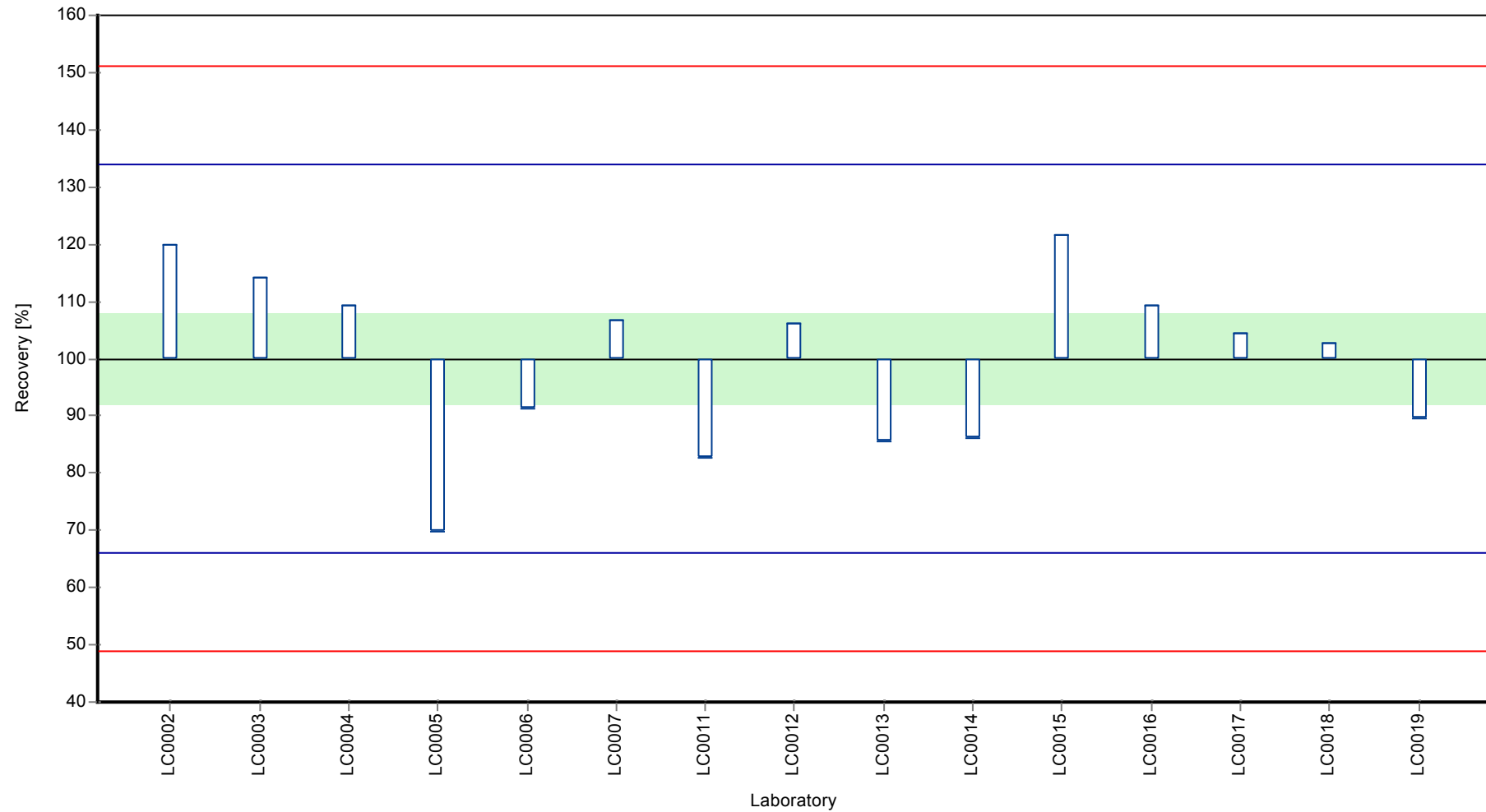
|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 175 ± 20.4  | 175 ± 20.4       | ng/l |
| Minimum                 | 122         | 122              | ng/l |
| Maximum                 | 213         | 213              | ng/l |
| Standard deviation      | 26.3        | 26.3             | ng/l |
| rel. standard deviation | 15          | 15               | %    |
| n                       | 15          | 15               | -    |

Graphical presentation of results

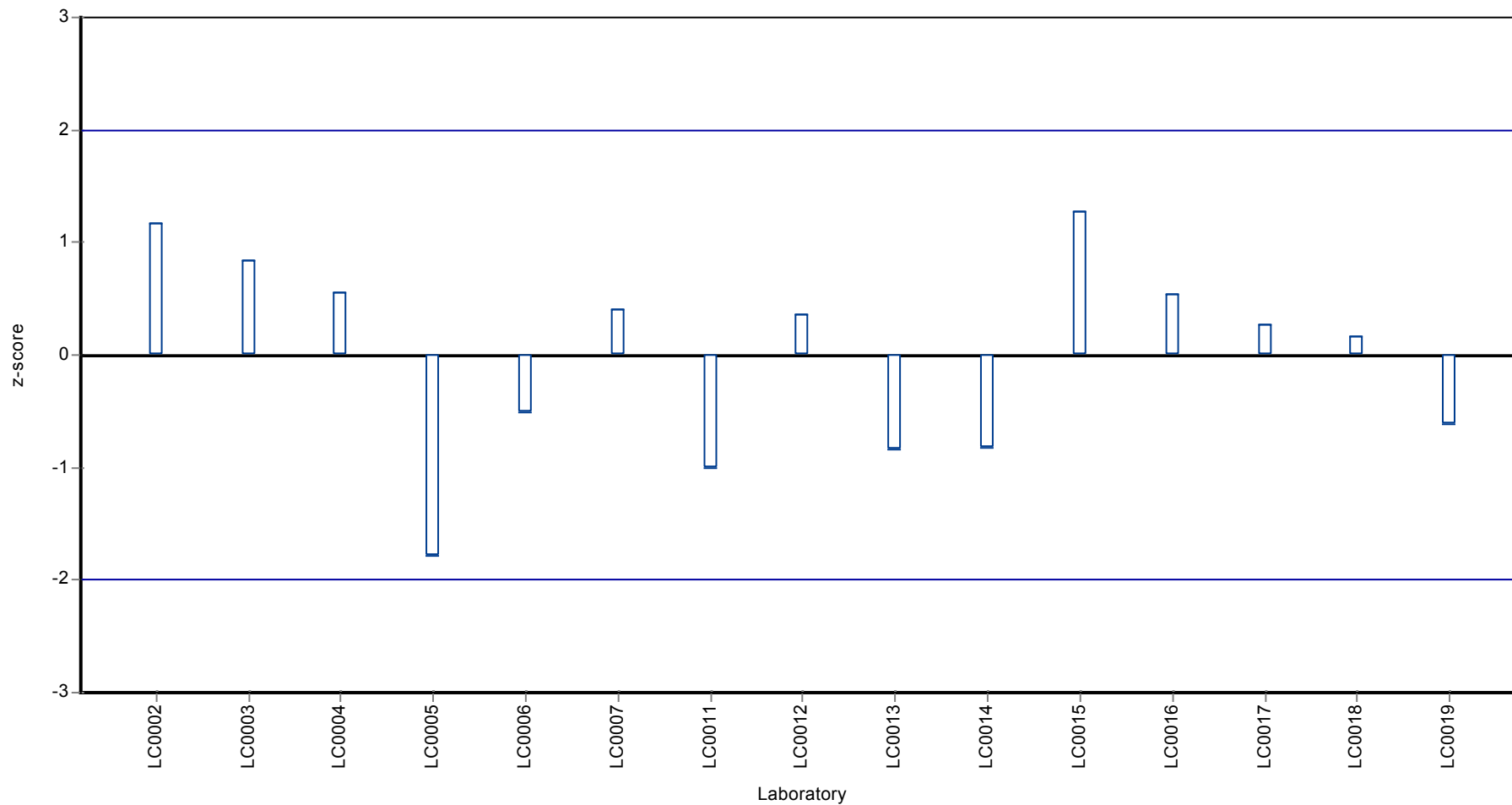
Results



Recovery rate



Z-score



## Parameter oriented report

### P20 B

#### Pyrene

|                              |             |
|------------------------------|-------------|
| Unit                         | ng/l        |
| Assigned value ± U (k=2)     | 20.6 ± 0.83 |
| Criterion                    | 3.51 (17 %) |
| Minimum - Maximum            | 18.4 - 23   |
| Control test value ± U (k=2) | 21.3 ± 4.26 |

| Labcode | Result       | ± U  | Recovery [%] | z-score | Comments |
|---------|--------------|------|--------------|---------|----------|
| LC0001  | -            | -    | -            | -       |          |
| LC0002  | 22.6         | 1.07 | 110          | 0.56    |          |
| LC0003  | 23           | 4.2  | 111          | 0.67    |          |
| LC0004  | 19.8         | 6.1  | 95.9         | -0.24   |          |
| LC0005  | 21           | 9.24 | 102          | 0.1     |          |
| LC0006  | 20.2         | 8.6  | 97.9         | -0.12   |          |
| LC0007  | 18.4         | 3.13 | 89.2         | -0.64   |          |
| LC0008  | -            | -    | -            | -       |          |
| LC0009  | -            | -    | -            | -       |          |
| LC0010  | -            | -    | -            | -       |          |
| LC0011  | < 25 (LOQ)   | -    | -            | -       |          |
| LC0012  | < 52.6 (LOQ) | -    | -            | -       |          |
| LC0013  | 20           | 10   | 96.9         | -0.18   |          |
| LC0014  | -            | -    | -            | -       |          |
| LC0015  | 26           | 8    | 126          | 1.53    | H        |
| LC0016  | 22           | 2.2  | 107          | 0.39    |          |
| LC0017  | 20           | 2.55 | 96.9         | -0.18   |          |
| LC0018  | 20           | 2    | 96.9         | -0.18   |          |
| LC0019  | 20           | 6    | 96.9         | -0.18   |          |

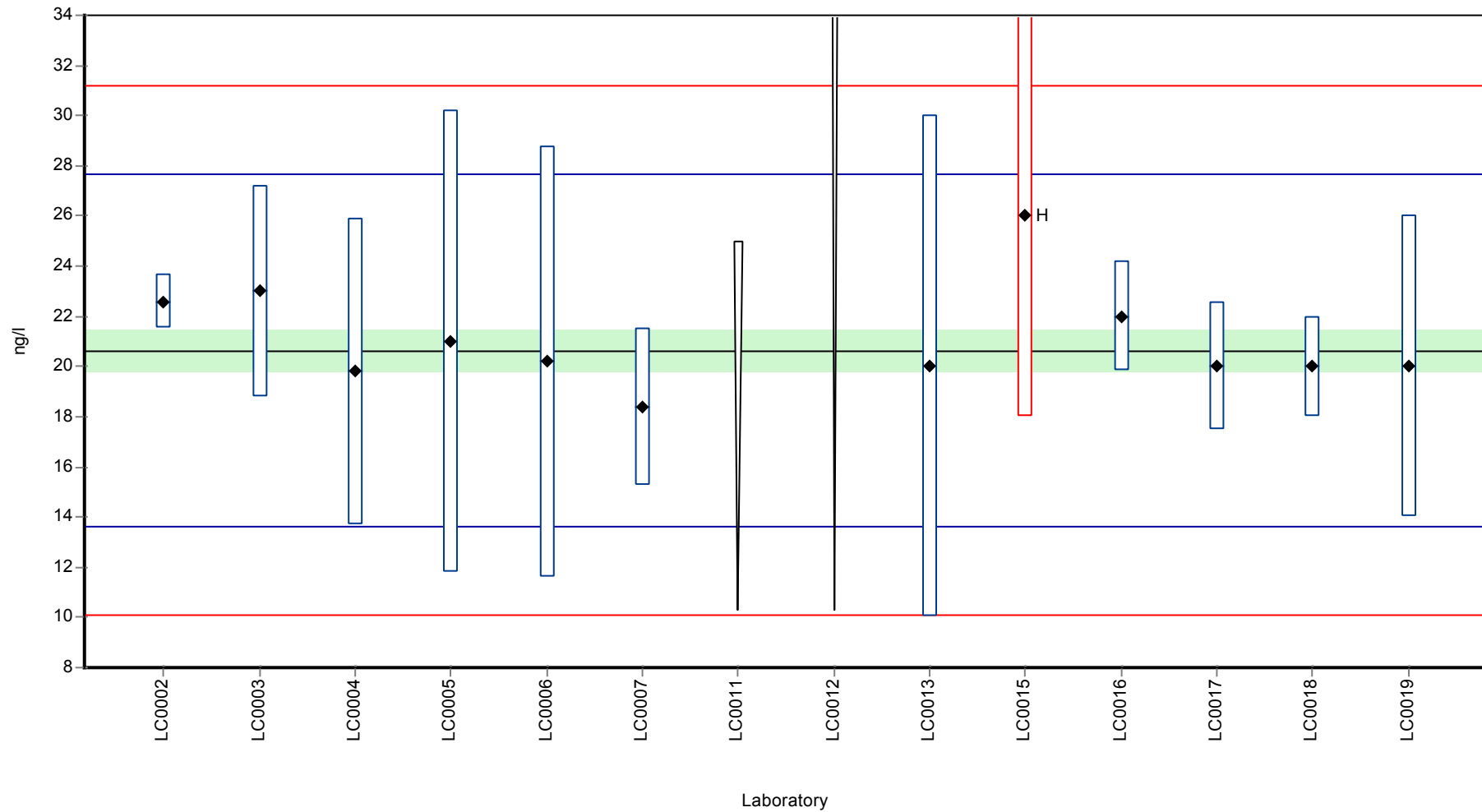
#### Characteristics of parameter

|                         | all results | without outliers | Unit |
|-------------------------|-------------|------------------|------|
| Mean ± CI (99%)         | 21.1 ± 1.76 | 20.6 ± 1.25      | ng/l |
| Minimum                 | 18.4        | 18.4             | ng/l |
| Maximum                 | 26          | 23               | ng/l |
| Standard deviation      | 2.03        | 1.38             | ng/l |
| rel. standard deviation | 9.63        | 6.67             | %    |
| n                       | 12          | 11               | -    |

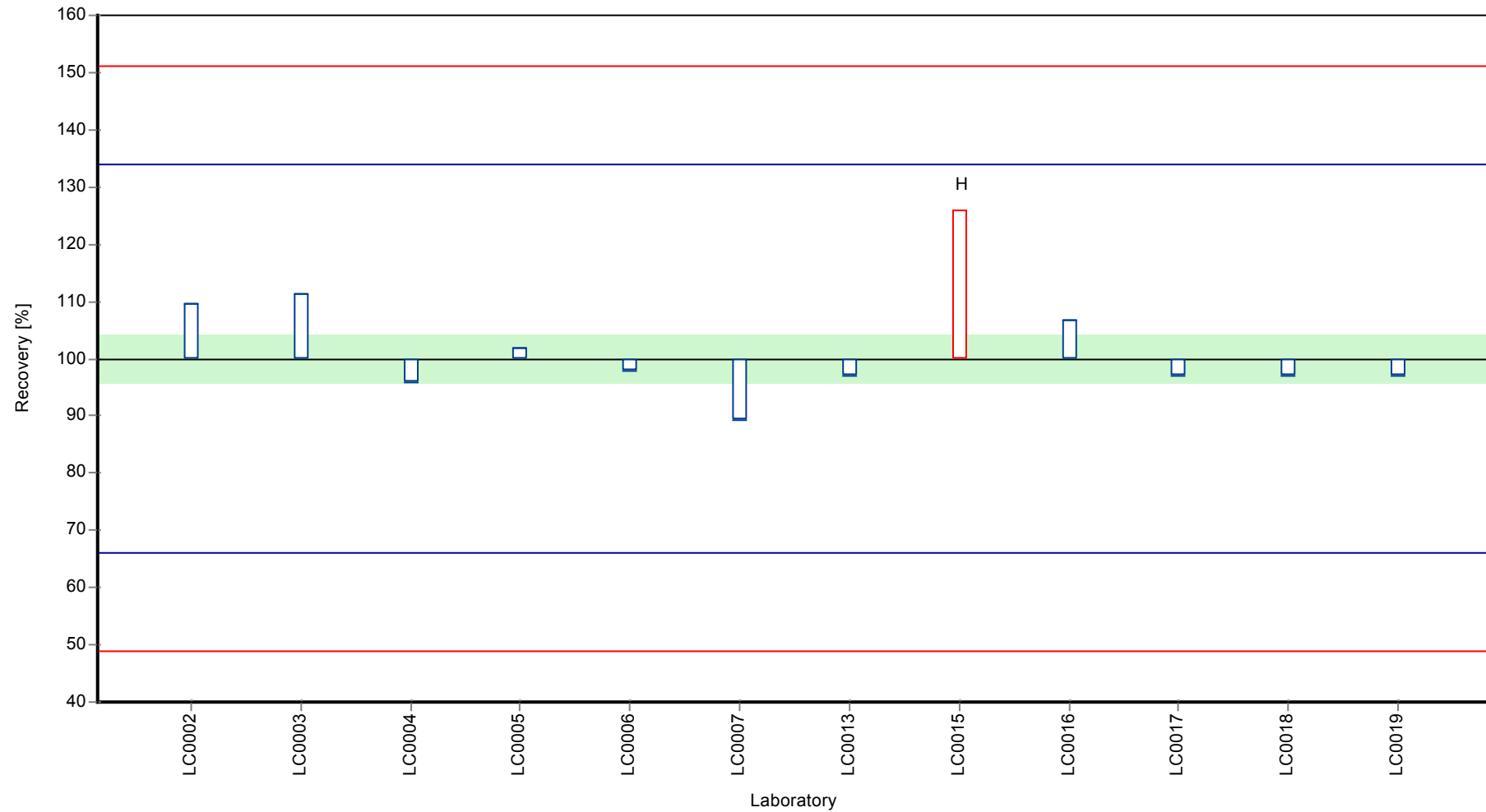


Graphical presentation of results

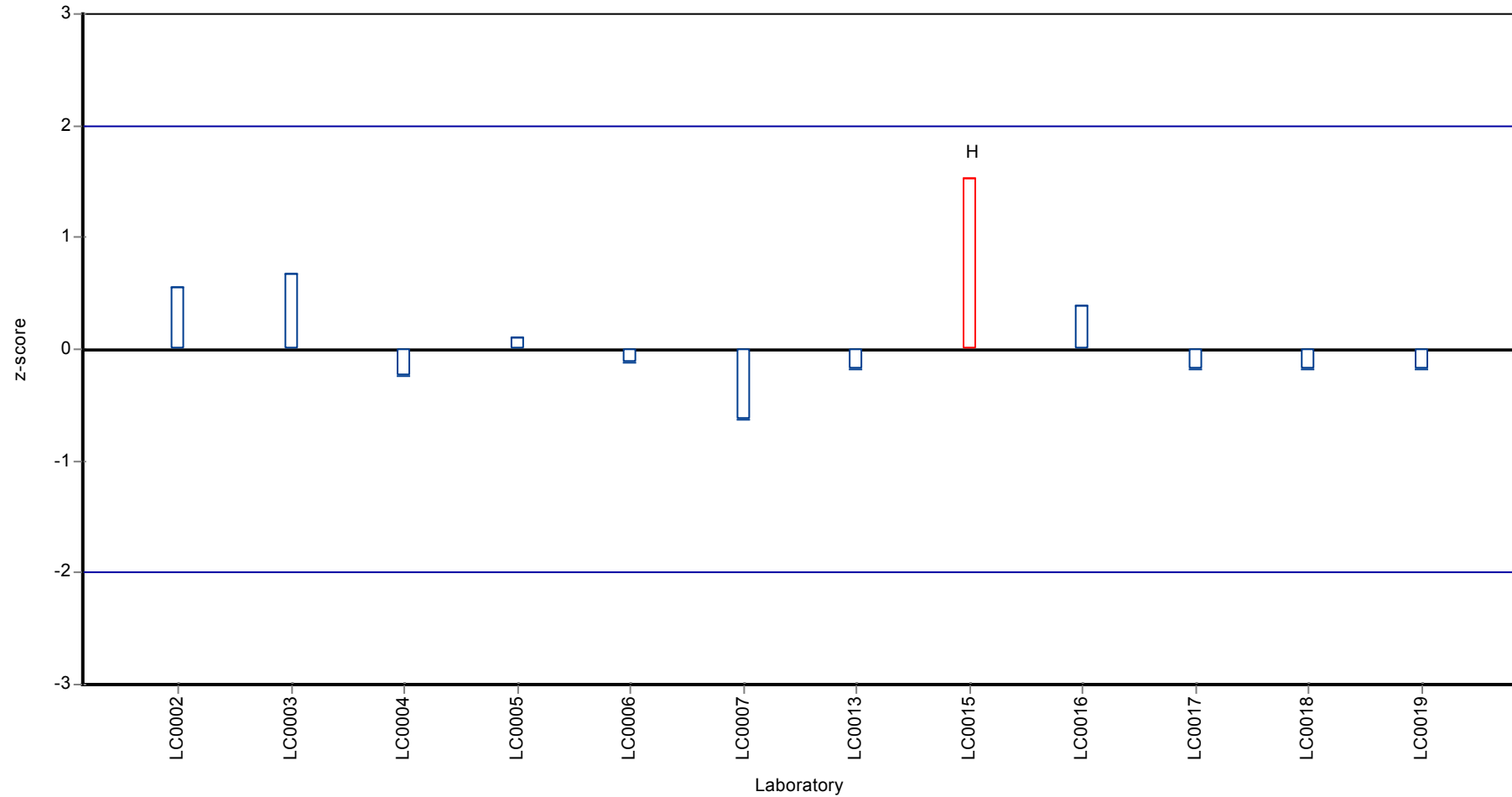
Results



**Recovery rate**



Z-score



## **E8. Labororientierte Auswertung / Laboratory oriented report**

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -      | 27.5      | -            | -       |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -      | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -      | 10.4      | -            | -       |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | - ± -      | 13.3      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -      | 33.3      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -      | 45.4      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -      | 55.1      | -            | -       |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -      | 38.4      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -      | 13.2      | -            | -       |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -      | 23.7      | -            | -       |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -      | 20.6      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -      | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -      | 41.1      | -            | -       |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -      | 29.8      | -            | -       |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -      | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -      | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -      | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | - ± -      | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -      | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -      | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -      | 9         | -            | -       |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -      | 8.09      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -      | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -      | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -      | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -      | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -       |
| Pyrene       | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -       |

Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -      | 27.5      | -            | -        |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -      | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -      | 10.4      | -            | -        |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | - ± -      | 13.3      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -      | 33.3      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -      | 45.4      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -      | 55.1      | -            | -        |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -      | 38.4      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -      | 13.2      | -            | -        |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -      | 23.7      | -            | -        |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -      | 20.6      | -            | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -      | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -      | 41.1      | -            | -        |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -      | 29.8      | -            | -        |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -      | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -      | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -      | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | - ± -      | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -      | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -      | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -      | 9         | -            | -        |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -      | 8.09      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -      | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|------------------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -      | 5.54                   | -        |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -      | 4.36                   | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -                      | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -      | 10.2                   | -        |
| Phenanthrene           | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -        |
| Pyrene                 | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -        |



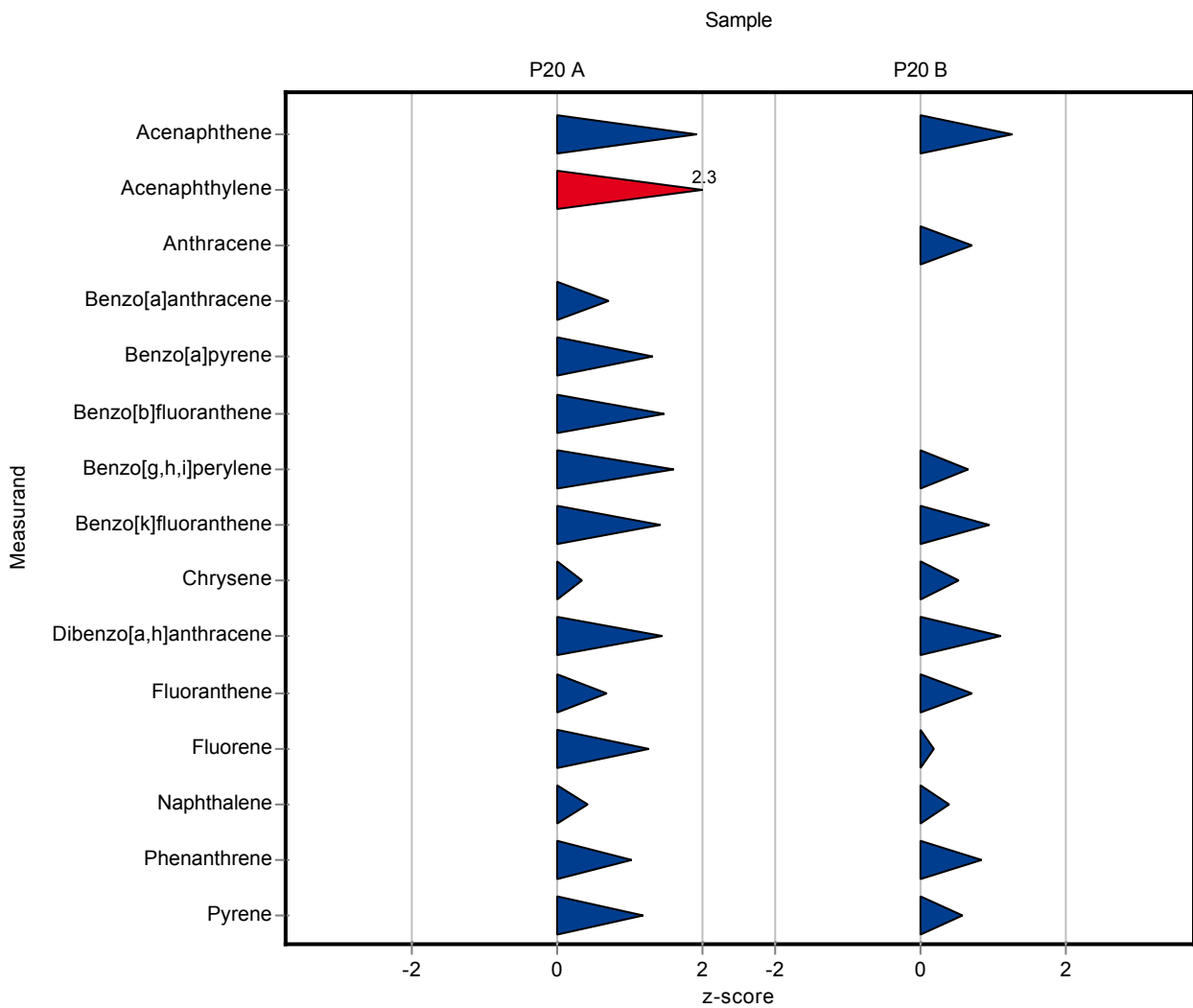
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 177 ± 8.09    | 27.5      | 142          | 1.91    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 373 ± 17.6    | 56.1      | 153          | 2.30    |
| Anthracene             | ng/l | - ± -                    | 77.4 ± 0.04   | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 48.2 ± 1.14   | 10.4      | 118          | 0.70    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 75 ± 1.21     | 13.3      | 130          | 1.31    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 233 ± 6.35    | 33.3      | 126          | 1.45    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 275 ± 4.35    | 45.4      | 136          | 1.59    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 282 ± 4.59    | 55.1      | 138          | 1.41    |
| Chrysene               | ng/l | 202 ± 12.8               | 215 ± 5.9     | 38.4      | 106          | 0.34    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 85.8 ± 2.09   | 13.2      | 128          | 1.42    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 141 ± 1.79    | 23.7      | 113          | 0.68    |
| Fluorene               | ng/l | 158 ± 9.33               | 184 ± 9.24    | 20.6      | 116          | 1.24    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 96 ± 3.45     | 21        | 110          | 0.40    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 316 ± 8.64    | 41.1      | 115          | 1.02    |
| Pyrene                 | ng/l | 175 ± 13.6               | 210 ± 0.64    | 29.8      | 120          | 1.17    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 12.9 ± 0.87   | 1.98      | 124          | 1.25    |
| Acenaphthylene         | ng/l | - ± -                    | 22.4 ± 2.12   | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 38.9 ± 1.05   | 8         | 117          | 0.69    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <10 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 23.7 ± 0.74   | 6.47      | 121          | 0.63    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 41.8 ± 3.02   | 9         | 125          | 0.94    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46.8 ± 0.09   | 8.09      | 110          | 0.52    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 34.1 ± 0.31   | 7.37      | 131          | 1.09    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 1        | 5.54      | 113          | 0.69    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 27 ± 2.98     | 4.36      | 103          | 0.17    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 46.4 ± 0.07   | 10.2      | 109          | 0.37    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|-------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 53.6 ± 0.88 | 7.48                   | 113     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 22.6 ± 1.07 | 3.51                   | 110     |



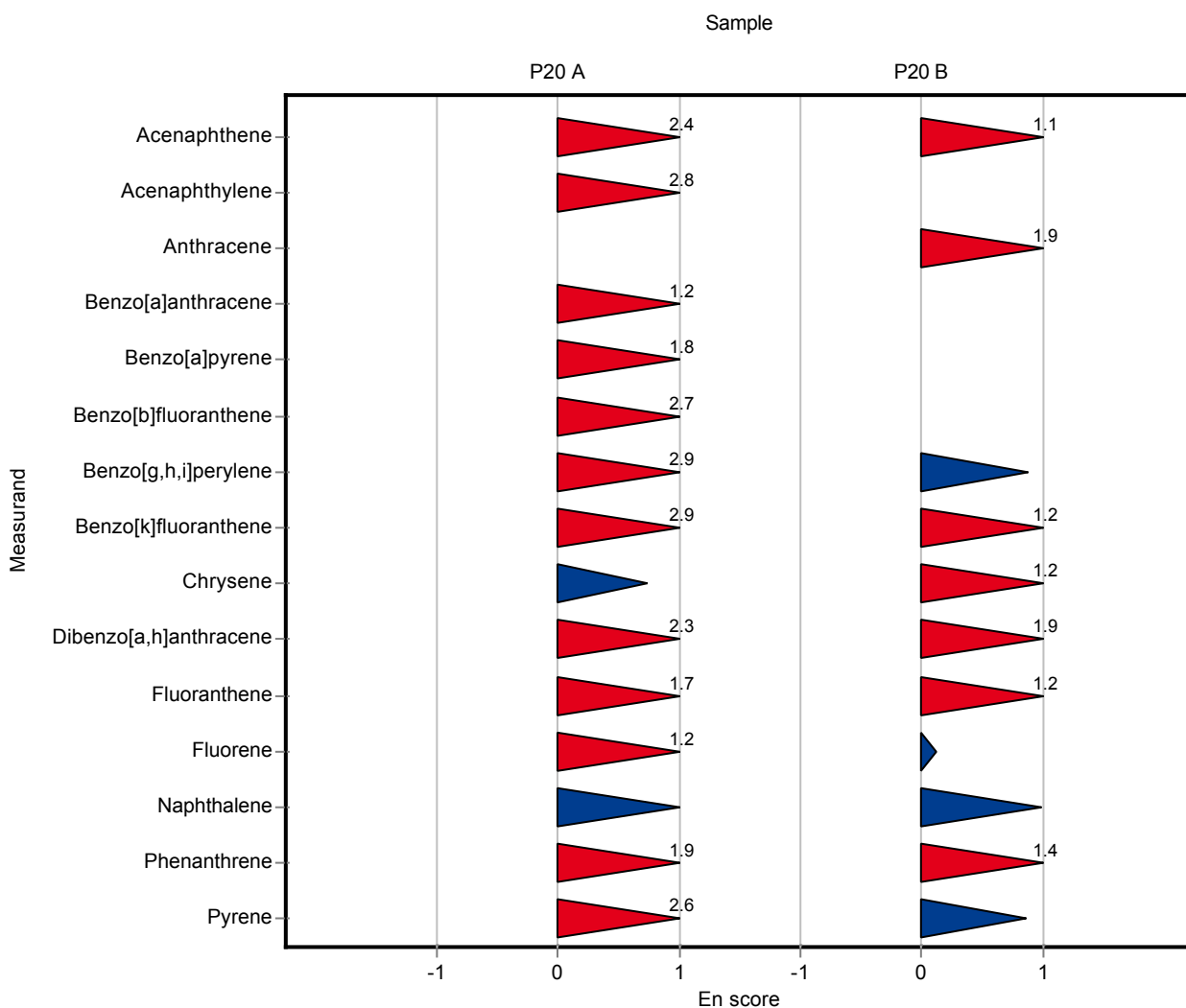
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 177 ± 8.09    | 27.5      | 142          | 2.44     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 373 ± 17.6    | 56.1      | 153          | 2.75     |
| Anthracene             | ng/l | - ± -                    | 77.4 ± 0.04   | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 48.2 ± 1.14   | 10.4      | 118          | 1.21     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 75 ± 1.21     | 13.3      | 130          | 1.76     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 233 ± 6.35    | 33.3      | 126          | 2.75     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 275 ± 4.35    | 45.4      | 136          | 2.88     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 282 ± 4.59    | 55.1      | 138          | 2.89     |
| Chrysene               | ng/l | 202 ± 12.8               | 215 ± 5.9     | 38.4      | 106          | 0.74     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 85.8 ± 2.09   | 13.2      | 128          | 2.29     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 141 ± 1.79    | 23.7      | 113          | 1.73     |
| Fluorene               | ng/l | 158 ± 9.33               | 184 ± 9.24    | 20.6      | 116          | 1.23     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 96 ± 3.45     | 21        | 110          | 1.00     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 316 ± 8.64    | 41.1      | 115          | 1.93     |
| Pyrene                 | ng/l | 175 ± 13.6               | 210 ± 0.64    | 29.8      | 120          | 2.56     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 12.9 ± 0.87   | 1.98      | 124          | 1.12     |
| Acenaphthylene         | ng/l | - ± -                    | 22.4 ± 2.12   | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 38.9 ± 1.05   | 8         | 117          | 1.85     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <10 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 23.7 ± 0.74   | 6.47      | 121          | 0.88     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 41.8 ± 3.02   | 9         | 125          | 1.21     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46.8 ± 0.09   | 8.09      | 110          | 1.18     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 34.1 ± 0.31   | 7.37      | 131          | 1.94     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|---------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 1        | 5.54               | 113          |
| Fluorene               | ng/l | 26.3 ± 2.42              | 27 ± 2.98     | 4.36               | 103          |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 46.4 ± 0.07   | 10.2               | 109          |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 53.6 ± 0.88   | 7.48               | 113          |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 22.6 ± 1.07   | 3.51               | 110          |



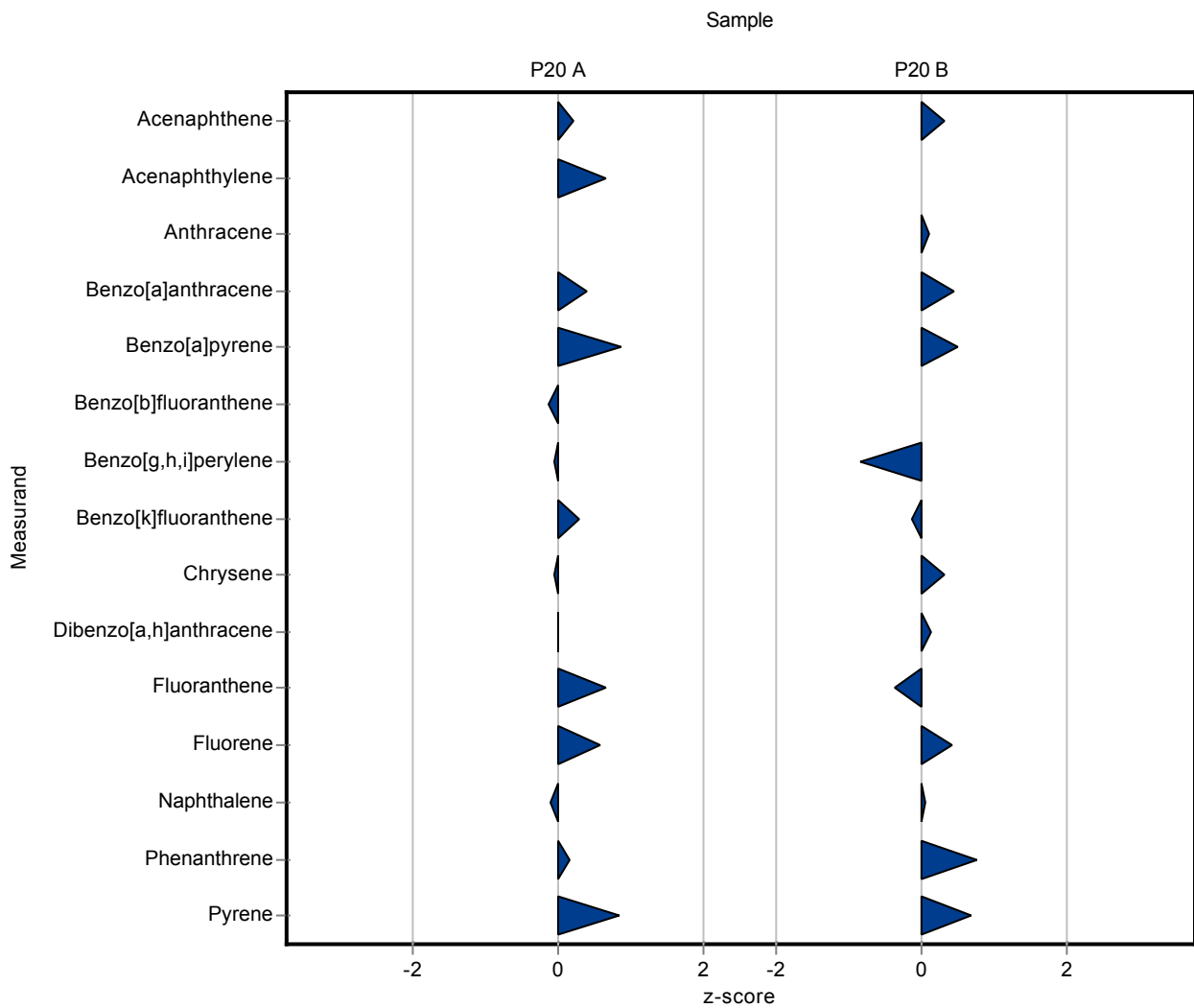
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 130 ± 29      | 27.5      | 105          | 0.20    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 280 ± 48      | 56.1      | 115          | 0.64    |
| Anthracene             | ng/l | - ± -                    | 68 ± 8        | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 45 ± 8        | 10.4      | 110          | 0.39    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 69 ± 10       | 13.3      | 120          | 0.86    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 180 ± 47      | 33.3      | 97.4         | -0.14   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 200 ± 47      | 45.4      | 98.6         | -0.06   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 220 ± 36      | 55.1      | 108          | 0.29    |
| Chrysene               | ng/l | 202 ± 12.8               | 200 ± 32      | 38.4      | 99           | -0.05   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 67 ± 13       | 13.2      | 99.9         | 0.00    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 140 ± 33      | 23.7      | 112          | 0.64    |
| Fluorene               | ng/l | 158 ± 9.33               | 170 ± 39      | 20.6      | 107          | 0.56    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 85 ± 13       | 21        | 97           | -0.13   |
| Phenanthrene           | ng/l | 274 ± 13.2               | 280 ± 68      | 41.1      | 102          | 0.14    |
| Pyrene                 | ng/l | 175 ± 13.6               | 200 ± 36      | 29.8      | 114          | 0.84    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 11 ± 2.5      | 1.98      | 106          | 0.29    |
| Acenaphthylene         | ng/l | - ± -                    | 63 ± 11       | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 34 ± 4        | 8         | 102          | 0.08    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10 ± 1.8      | 1.67      | 108          | 0.44    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11 ± 1.6      | 2.27      | 111          | 0.50    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <10 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 14 ± 3.3      | 6.47      | 71.4         | -0.87   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 32 ± 5.2      | 9         | 96           | -0.15   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 45 ± 7.1      | 8.09      | 106          | 0.30    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 27 ± 5.4      | 7.37      | 104          | 0.13    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 27 ± 6.4      | 5.54      | 92.6         | -0.39   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 28 ± 6.4      | 4.36      | 107          | 0.40    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 43 ± 6.7      | 10.2      | 101          | 0.04    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 53 ± 13    | 7.48                   | 112     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 23 ± 4.2   | 3.51                   | 111     |



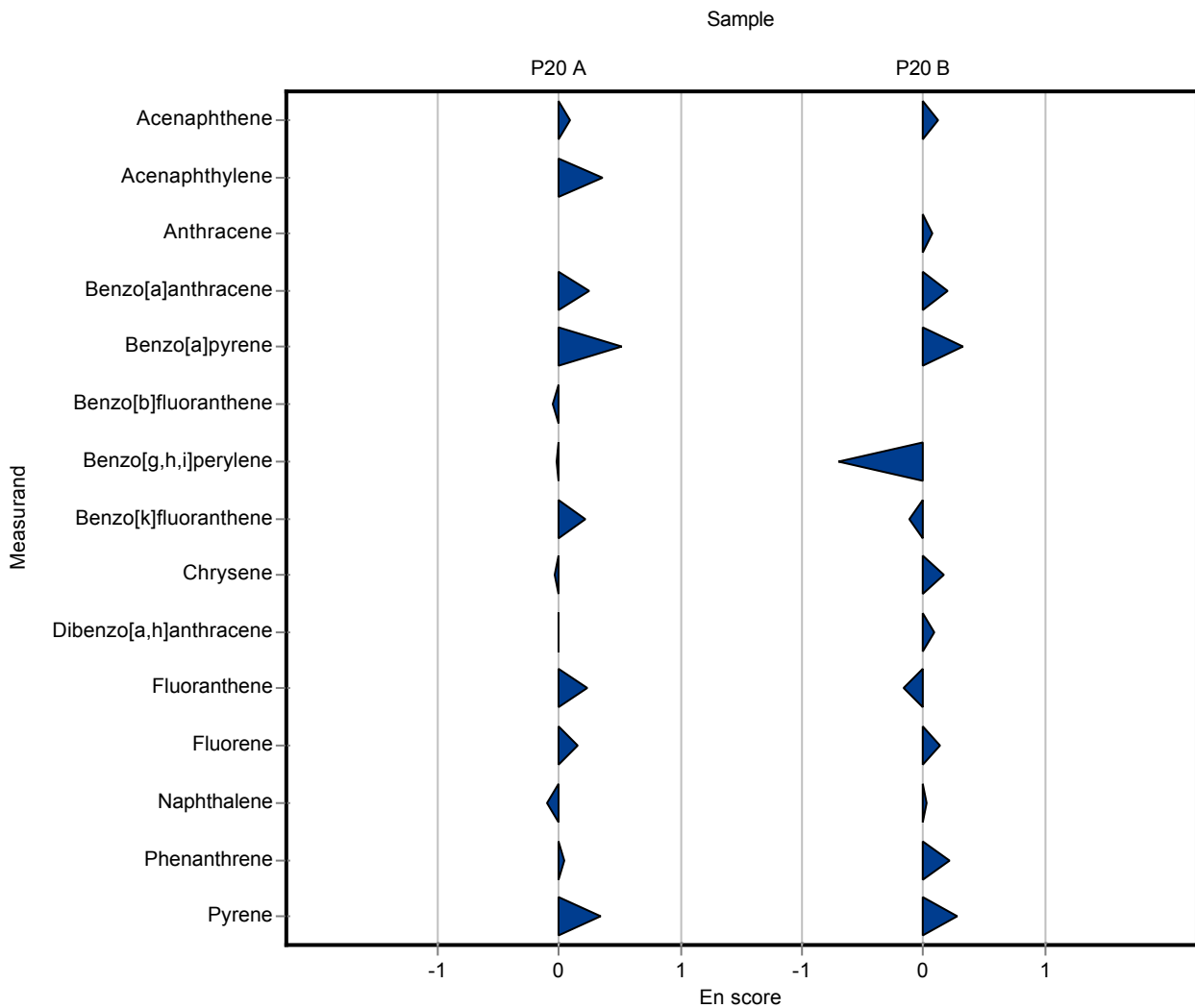
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 130 ± 29      | 27.5      | 105          | 0.09     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 280 ± 48      | 56.1      | 115          | 0.36     |
| Anthracene             | ng/l | - ± -                    | 68 ± 8        | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 45 ± 8        | 10.4      | 110          | 0.24     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 69 ± 10       | 13.3      | 120          | 0.51     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 180 ± 47      | 33.3      | 97.4         | -0.05    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 200 ± 47      | 45.4      | 98.6         | -0.03    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 220 ± 36      | 55.1      | 108          | 0.21     |
| Chrysene               | ng/l | 202 ± 12.8               | 200 ± 32      | 38.4      | 99           | -0.03    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 67 ± 13       | 13.2      | 99.9         | 0.00     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 140 ± 33      | 23.7      | 112          | 0.23     |
| Fluorene               | ng/l | 158 ± 9.33               | 170 ± 39      | 20.6      | 107          | 0.15     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 85 ± 13       | 21        | 97           | -0.10    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 280 ± 68      | 41.1      | 102          | 0.04     |
| Pyrene                 | ng/l | 175 ± 13.6               | 200 ± 36      | 29.8      | 114          | 0.34     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 11 ± 2.5      | 1.98      | 106          | 0.11     |
| Acenaphthylene         | ng/l | - ± -                    | 63 ± 11       | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 34 ± 4        | 8         | 102          | 0.08     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10 ± 1.8      | 1.67      | 108          | 0.20     |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11 ± 1.6      | 2.27      | 111          | 0.32     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <10 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 14 ± 3.3      | 6.47      | 71.4         | -0.71    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 32 ± 5.2      | 9         | 96           | -0.12    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 45 ± 7.1      | 8.09      | 106          | 0.17     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 27 ± 5.4      | 7.37      | 104          | 0.08     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 27 ± 6.4      | 5.54      | 92.6         | -0.17    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 28 ± 6.4      | 4.36      | 107          | 0.13     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 43 ± 6.7      | 10.2      | 101          | 0.03     |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 53 ± 13       | 7.48      | 112          | 0.21     |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 23 ± 4.2      | 3.51      | 111          | 0.28     |





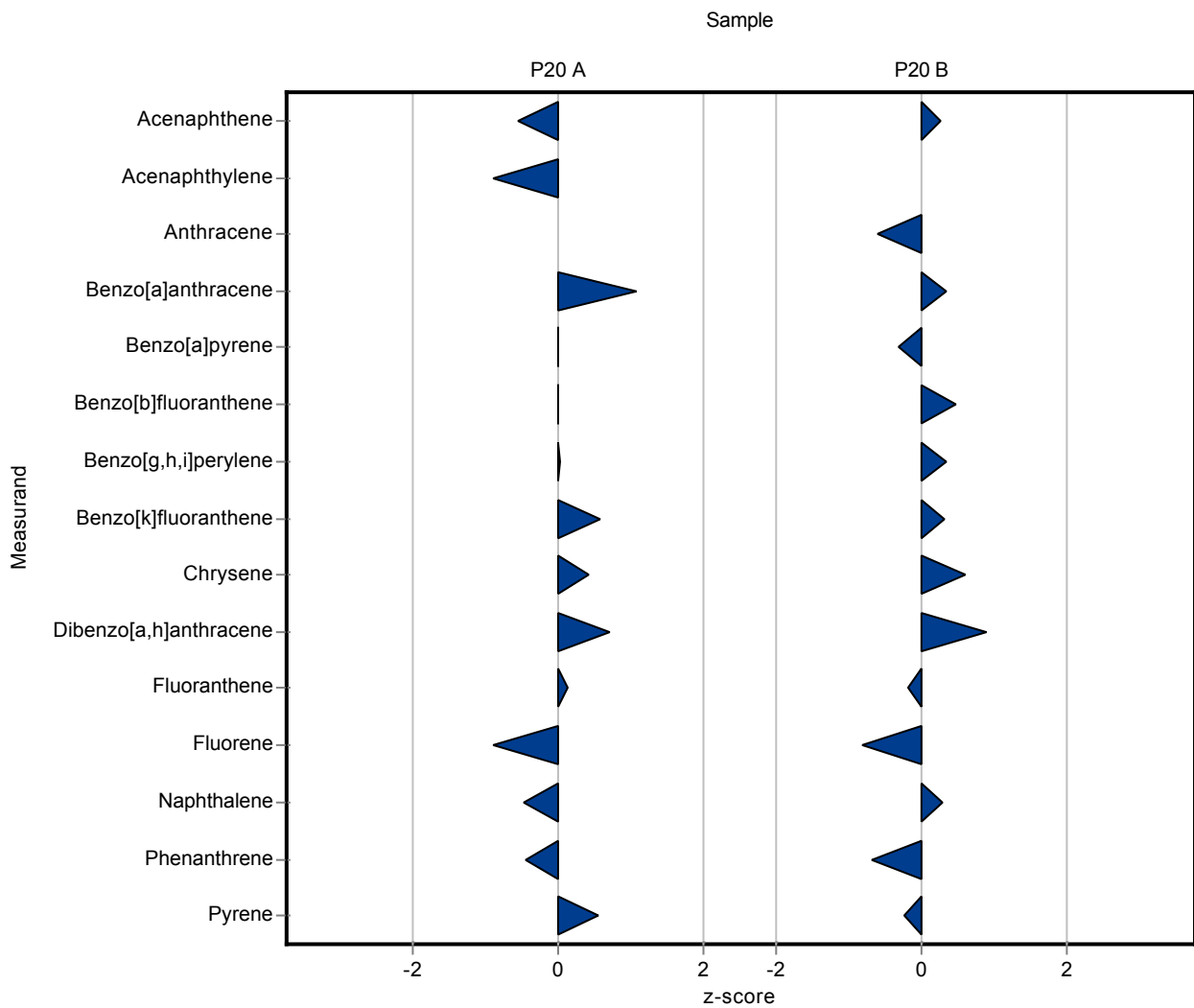
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 109.1 ± 33.8   | 27.5      | 87.7         | -0.56   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 192.4 ± 59.7   | 56.1      | 78.9         | -0.92   |
| Anthracene             | ng/l | - ± -                    | 56.9 ± 17.6    | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 52 ± 16.1      | 10.4      | 127          | 1.07    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 57.3 ± 17.8    | 13.3      | 99.4         | -0.02   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 184 ± 57.1     | 33.3      | 99.6         | -0.02   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 203.2 ± 63     | 45.4      | 100          | 0.01    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 235.3 ± 72.9   | 55.1      | 115          | 0.56    |
| Chrysene               | ng/l | 202 ± 12.8               | 217.9 ± 67.5   | 38.4      | 108          | 0.41    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 76.3 ± 23.6    | 13.2      | 114          | 0.70    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 127.5 ± 39.5   | 23.7      | 102          | 0.11    |
| Fluorene               | ng/l | 158 ± 9.33               | 139.9 ± 43.4   | 20.6      | 88.3         | -0.90   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <1.6 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 77.6 ± 24.1    | 21        | 88.5         | -0.48   |
| Phenanthrene           | ng/l | 274 ± 13.2               | 255.4 ± 79.2   | 41.1      | 93.2         | -0.46   |
| Pyrene                 | ng/l | 175 ± 13.6               | 191.5 ± 59.4   | 29.8      | 109          | 0.55    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 10.9 ± 3.4  | 1.98      | 105          | 0.24    |
| Acenaphthylene         | ng/l | - ± -                    | 21 ± 6.5    | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 28.4 ± 8.8  | 8         | 85.2         | -0.62   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.8 ± 3     | 1.67      | 106          | 0.32    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 9.1 ± 2.8   | 2.27      | 92.2         | -0.34   |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 6.9 ± 2.1   | 1.15      | 108          | 0.45    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 21.7 ± 6.7  | 6.47      | 111          | 0.32    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 36 ± 11.1   | 9         | 108          | 0.30    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 47.3 ± 14.7 | 8.09      | 111          | 0.58    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 32.6 ± 10.1 | 7.37      | 125          | 0.89    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28 ± 8.7    | 5.54      | 96           | -0.21   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 22.7 ± 7    | 4.36      | 86.4         | -0.82   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 4.4 ± 1.4   | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 45.5 ± 14.1 | 10.2      | 107          | 0.28    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery | z-Score [%] |
|--------------|------|--------------------------|-------------|--------------------|-------------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 42.1 ± 13.1 | 7.48               | 88.8        |
| Pyrene       | ng/l | 20.6 ± 0.83              | 19.8 ± 6.1  | 3.51               | 95.9        |



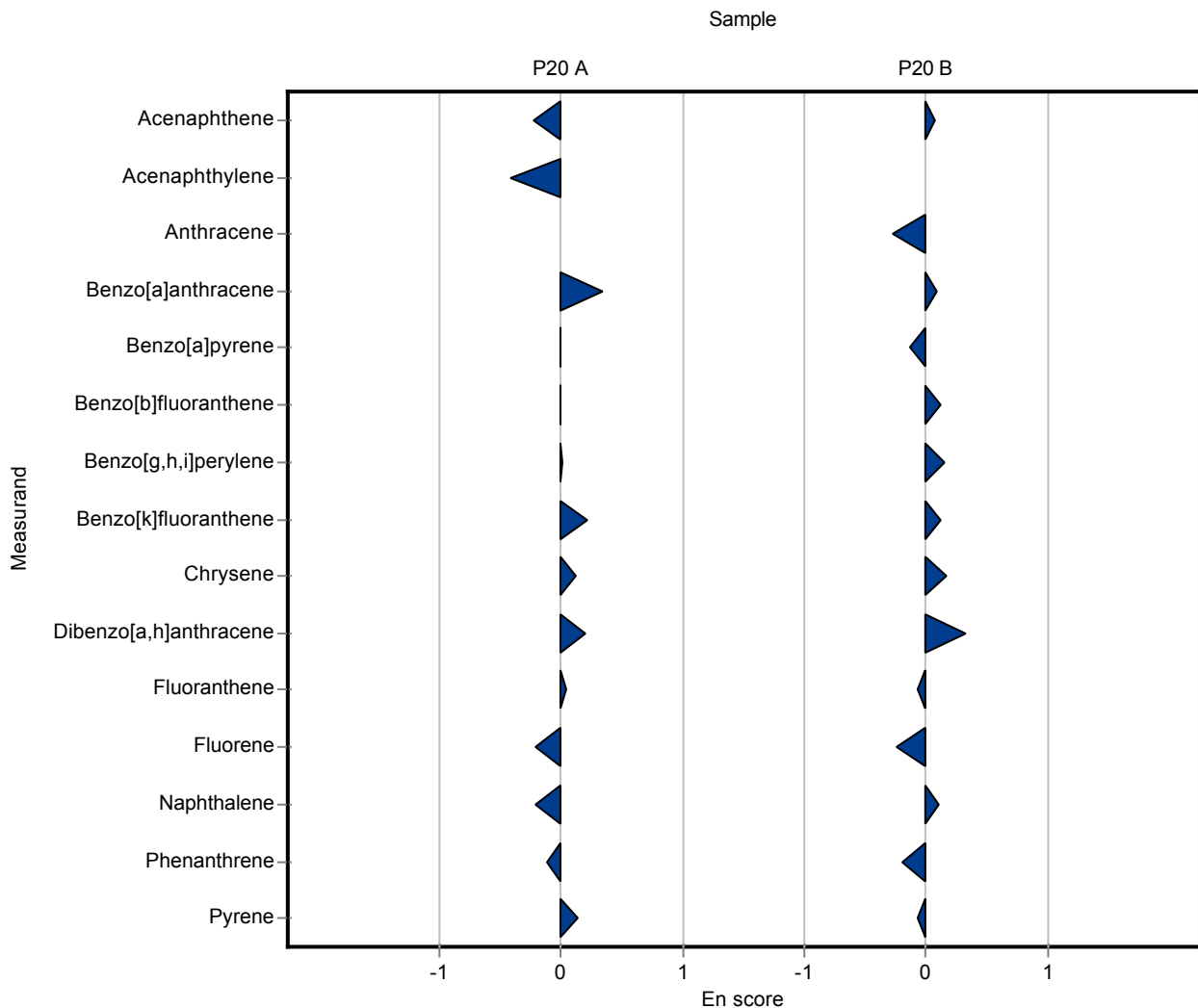
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 109.1 ± 33.8   | 27.5      | 87.7         | -0.22    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 192.4 ± 59.7   | 56.1      | 78.9         | -0.42    |
| Anthracene             | ng/l | - ± -                    | 56.9 ± 17.6    | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 52 ± 16.1      | 10.4      | 127          | 0.34     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 57.3 ± 17.8    | 13.3      | 99.4         | -0.01    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 184 ± 57.1     | 33.3      | 99.6         | -0.01    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 203.2 ± 63     | 45.4      | 100          | 0.00     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 235.3 ± 72.9   | 55.1      | 115          | 0.21     |
| Chrysene               | ng/l | 202 ± 12.8               | 217.9 ± 67.5   | 38.4      | 108          | 0.12     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 76.3 ± 23.6    | 13.2      | 114          | 0.19     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 127.5 ± 39.5   | 23.7      | 102          | 0.03     |
| Fluorene               | ng/l | 158 ± 9.33               | 139.9 ± 43.4   | 20.6      | 88.3         | -0.21    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <1.6 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 77.6 ± 24.1    | 21        | 88.5         | -0.21    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 255.4 ± 79.2   | 41.1      | 93.2         | -0.12    |
| Pyrene                 | ng/l | 175 ± 13.6               | 191.5 ± 59.4   | 29.8      | 109          | 0.14     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 10.9 ± 3.4  | 1.98      | 105          | 0.07     |
| Acenaphthylene         | ng/l | - ± -                    | 21 ± 6.5    | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 28.4 ± 8.8  | 8         | 85.2         | -0.28    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.8 ± 3     | 1.67      | 106          | 0.09     |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 9.1 ± 2.8   | 2.27      | 92.2         | -0.13    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 6.9 ± 2.1   | 1.15      | 108          | 0.12     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 21.7 ± 6.7  | 6.47      | 111          | 0.15     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 36 ± 11.1   | 9         | 108          | 0.12     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 47.3 ± 14.7 | 8.09      | 111          | 0.16     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 32.6 ± 10.1 | 7.37      | 125          | 0.32     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|-------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28 ± 8.7    | 5.54               | 96           |
| Fluorene               | ng/l | 26.3 ± 2.42              | 22.7 ± 7    | 4.36               | 86.4         |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 4.4 ± 1.4   | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 45.5 ± 14.1 | 10.2               | 107          |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 42.1 ± 13.1 | 7.48               | 88.8         |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 19.8 ± 6.1  | 3.51               | 95.9         |



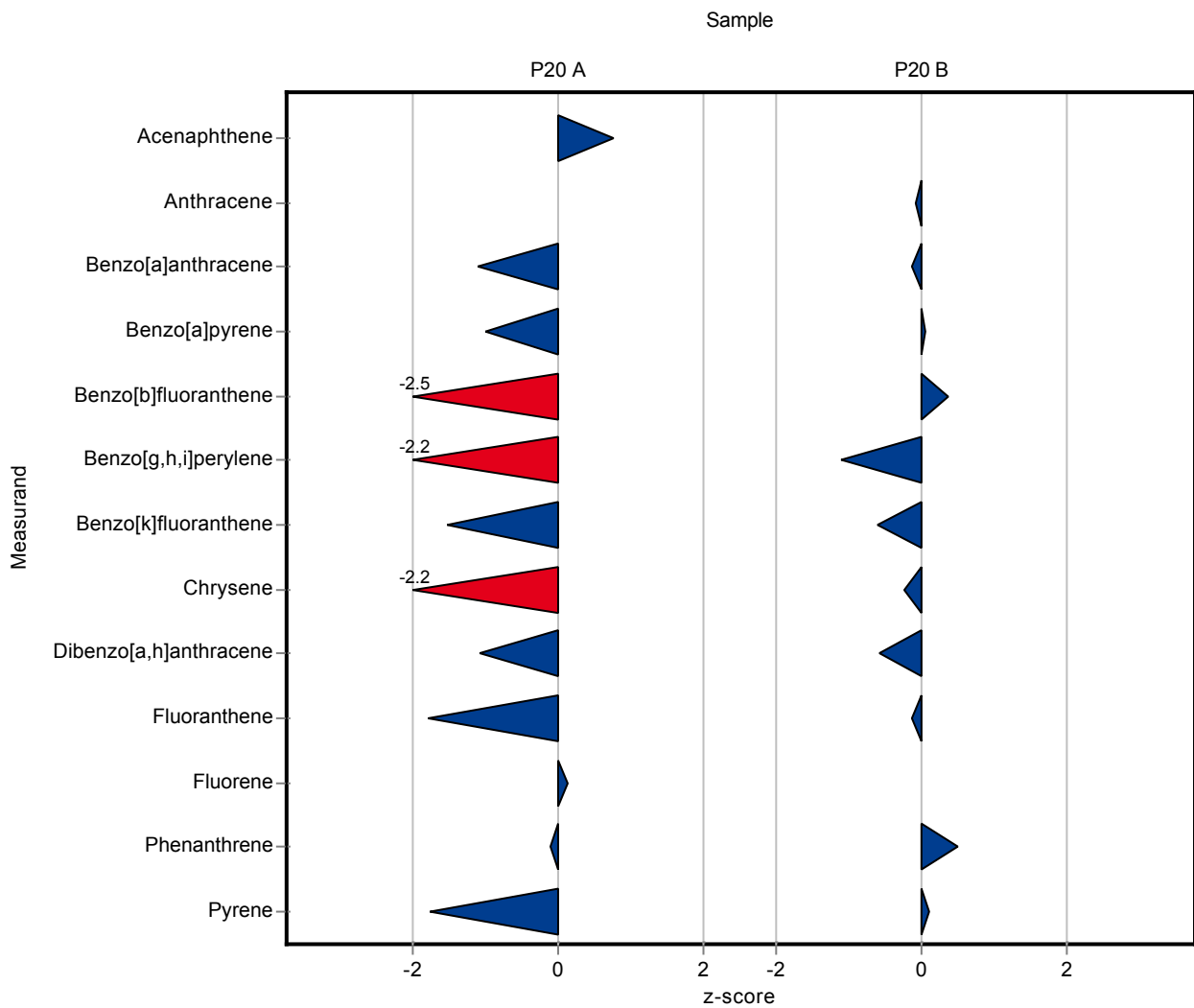
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 145 ± 64    | 27.5      | 117          | 0.75    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -       | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | 73.2 ± 32.2 | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 29.2 ± 12.8 | 10.4      | 71.4         | -1.13   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 44.2 ± 19.4 | 13.3      | 76.7         | -1.01   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 102 ± 45    | 33.3      | 55.2         | -2.49   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 101 ± 44    | 45.4      | 49.8         | -2.24   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 120 ± 53    | 55.1      | 58.8         | -1.53   |
| Chrysene               | ng/l | 202 ± 12.8               | 118 ± 52    | 38.4      | 58.4         | -2.19   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 52.6 ± 23.1 | 13.2      | 78.4         | -1.10   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 82.3 ± 36.2 | 23.7      | 65.9         | -1.79   |
| Fluorene               | ng/l | 158 ± 9.33               | 161 ± 71    | 20.6      | 102          | 0.12    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -       | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -       | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | 269 ± 118   | 41.1      | 98.1         | -0.13   |
| Pyrene                 | ng/l | 175 ± 13.6               | 122 ± 54    | 29.8      | 69.7         | -1.78   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -       | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -       | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 32.6 ± 14.3 | 8         | 97.7         | -0.09   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.02 ± 3.97 | 1.67      | 97.4         | -0.14   |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 9.98 ± 4.39 | 2.27      | 101          | 0.05    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 6.8 ± 2.99  | 1.15      | 107          | 0.36    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 12.3 ± 5.41 | 6.47      | 62.7         | -1.13   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 27.8 ± 12.2 | 9         | 83.4         | -0.61   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40.6 ± 17.9 | 8.09      | 95.4         | -0.24   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 21.8 ± 9.59 | 7.37      | 83.6         | -0.58   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28.4 ± 11.4 | 5.54      | 97.4         | -0.14   |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -       | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -       | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -       | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 51 ± 22.4  | 7.48                   | 108     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 21 ± 9.24  | 3.51                   | 102     |



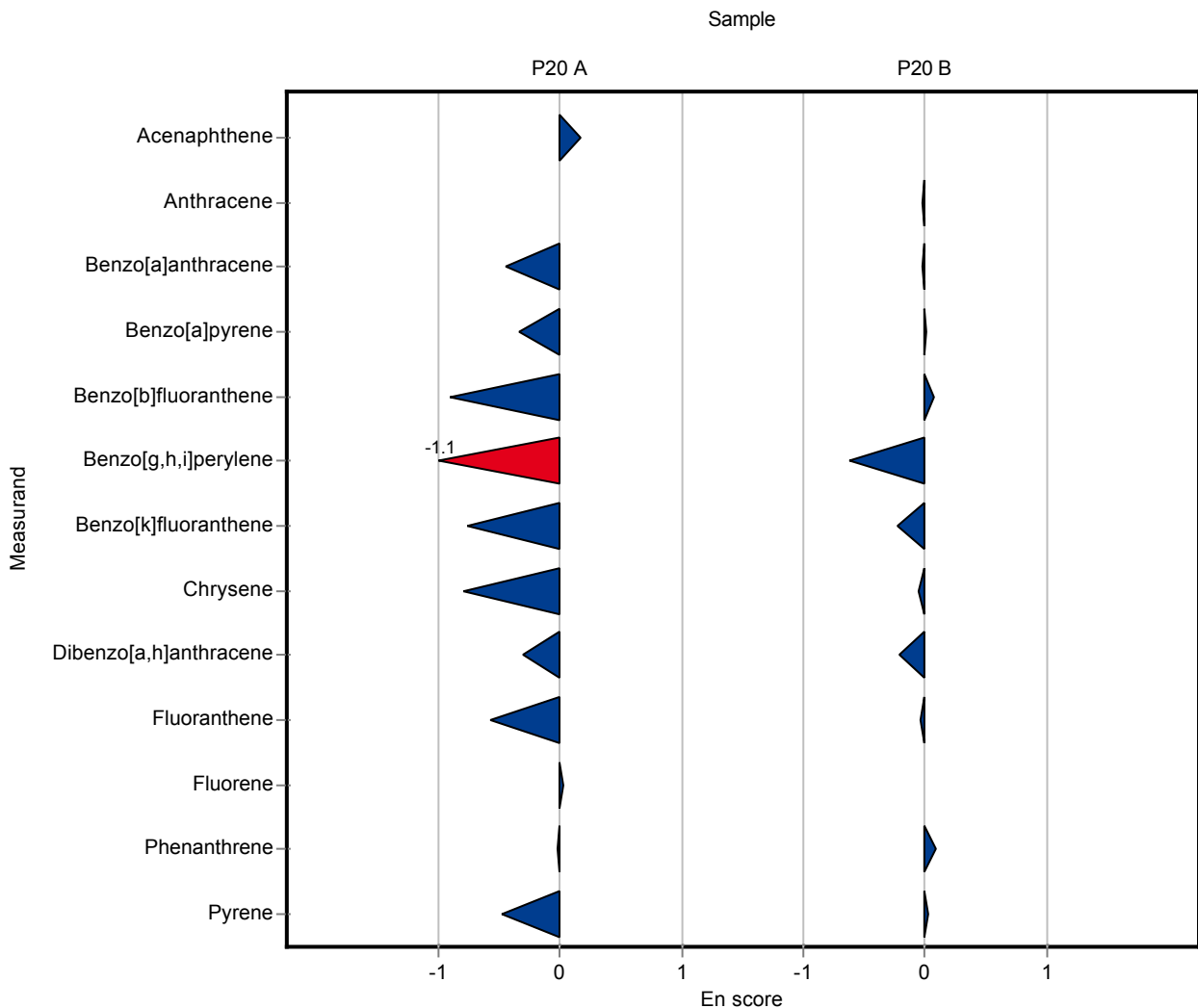
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 145 ± 64    | 27.5      | 117          | 0.16     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -       | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | 73.2 ± 32.2 | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 29.2 ± 12.8 | 10.4      | 71.4         | -0.45    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 44.2 ± 19.4 | 13.3      | 76.7         | -0.34    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 102 ± 45    | 33.3      | 55.2         | -0.91    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 101 ± 44    | 45.4      | 49.8         | -1.12    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 120 ± 53    | 55.1      | 58.8         | -0.77    |
| Chrysene               | ng/l | 202 ± 12.8               | 118 ± 52    | 38.4      | 58.4         | -0.80    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 52.6 ± 23.1 | 13.2      | 78.4         | -0.31    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 82.3 ± 36.2 | 23.7      | 65.9         | -0.58    |
| Fluorene               | ng/l | 158 ± 9.33               | 161 ± 71    | 20.6      | 102          | 0.02     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -       | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -       | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | 269 ± 118   | 41.1      | 98.1         | -0.02    |
| Pyrene                 | ng/l | 175 ± 13.6               | 122 ± 54    | 29.8      | 69.7         | -0.49    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -       | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -       | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 32.6 ± 14.3 | 8         | 97.7         | -0.03    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.02 ± 3.97 | 1.67      | 97.4         | -0.03    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 9.98 ± 4.39 | 2.27      | 101          | 0.01     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 6.8 ± 2.99  | 1.15      | 107          | 0.07     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 12.3 ± 5.41 | 6.47      | 62.7         | -0.63    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 27.8 ± 12.2 | 9         | 83.4         | -0.22    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40.6 ± 17.9 | 8.09      | 95.4         | -0.05    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 21.8 ± 9.59 | 7.37      | 83.6         | -0.22    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|-------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28.4 ± 11.4 | 5.54               | 97.4         |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -       | 4.36               | -            |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -       | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -       | 10.2               | -            |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 51 ± 22.4   | 7.48               | 108          |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 21 ± 9.24   | 3.51               | 102          |





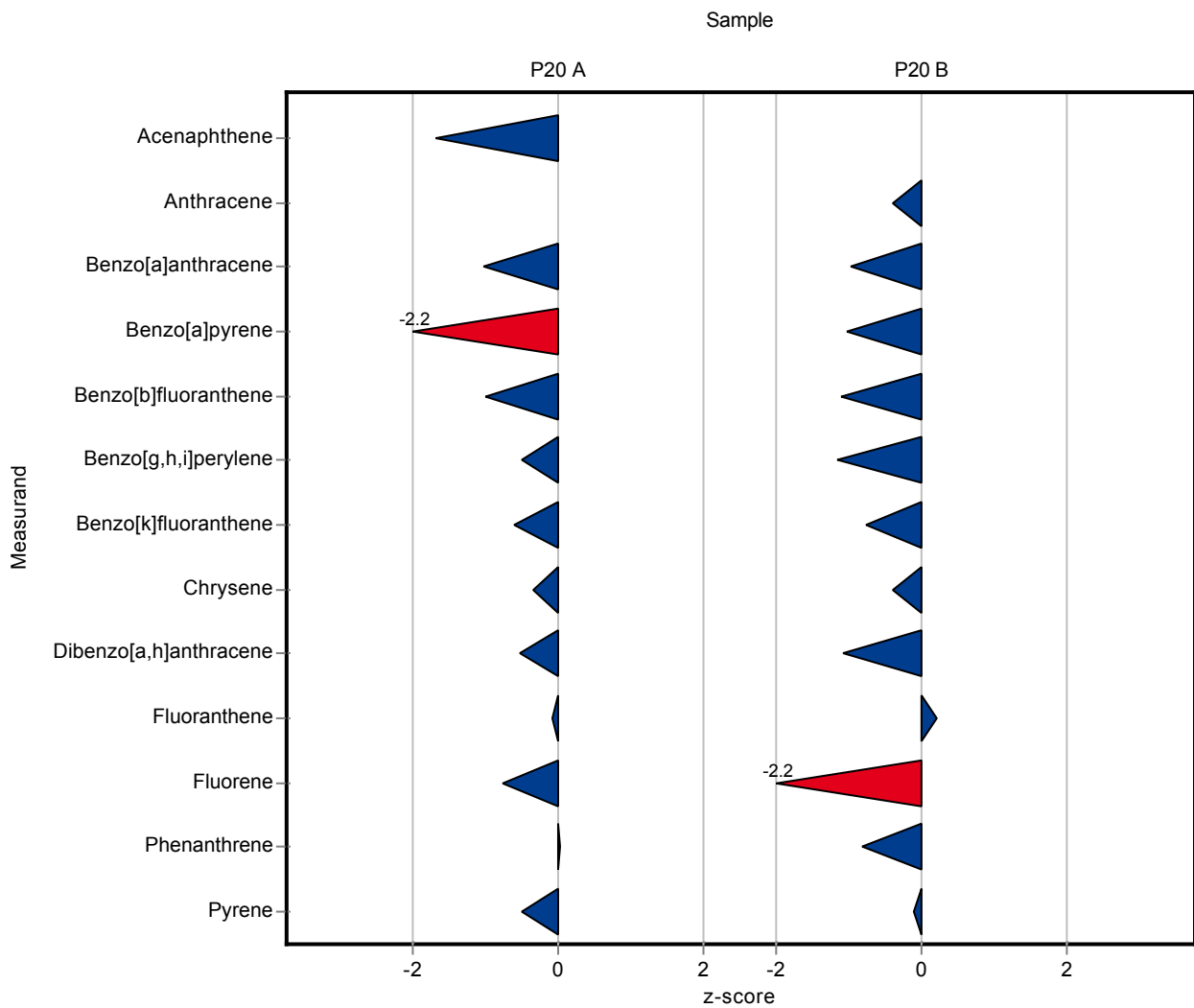
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 78 ± 34.32     | 27.5      | 62.7         | -1.69   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -          | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | 32 ± 14.08     | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 30 ± 13.2      | 10.4      | 73.3         | -1.05   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 28.5 ± 12.54   | 13.3      | 49.5         | -2.20   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 150.8 ± 66.35  | 33.3      | 81.6         | -1.02   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 179 ± 78.76    | 45.4      | 88.2         | -0.53   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 170.5 ± 75.02  | 55.1      | 83.5         | -0.61   |
| Chrysene               | ng/l | 202 ± 12.8               | 188 ± 82.72    | 38.4      | 93           | -0.37   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 59.8 ± 26.31   | 13.2      | 89.2         | -0.55   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 122.8 ± 54.12  | 23.7      | 98.3         | -0.09   |
| Fluorene               | ng/l | 158 ± 9.33               | 142.5 ± 62.7   | 20.6      | 89.9         | -0.78   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -          | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -          | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | 274.5 ± 120.78 | 41.1      | 100          | 0.01    |
| Pyrene                 | ng/l | 175 ± 13.6               | 160 ± 70.4     | 29.8      | 91.4         | -0.51   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -        | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -        | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 13.2    | 8         | 90           | -0.42   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 7.6 ± 3.34   | 1.67      | 82.1         | -1.00   |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 7.5 ± 3.3    | 2.27      | 76           | -1.04   |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 5.1 ± 2.24   | 1.15      | 79.9         | -1.12   |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 12 ± 5.28    | 6.47      | 61.2         | -1.18   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 26.4 ± 11.62 | 9         | 79.2         | -0.77   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 39.2 ± 17.25 | 8.09      | 92.1         | -0.42   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 18.1 ± 7.96  | 7.37      | 69.4         | -1.08   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 30.2 ± 13.2  | 5.54      | 104          | 0.19    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 16.5 ± 7.26  | 4.36      | 62.8         | -2.24   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -        | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -        | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|--------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 41.2 ± 18.13 | 7.48                   | 86.9    | -0.83 |
| Pyrene       | ng/l | 20.6 ± 0.83              | 20.2 ± 8.6   | 3.51                   | 97.9    | -0.12 |



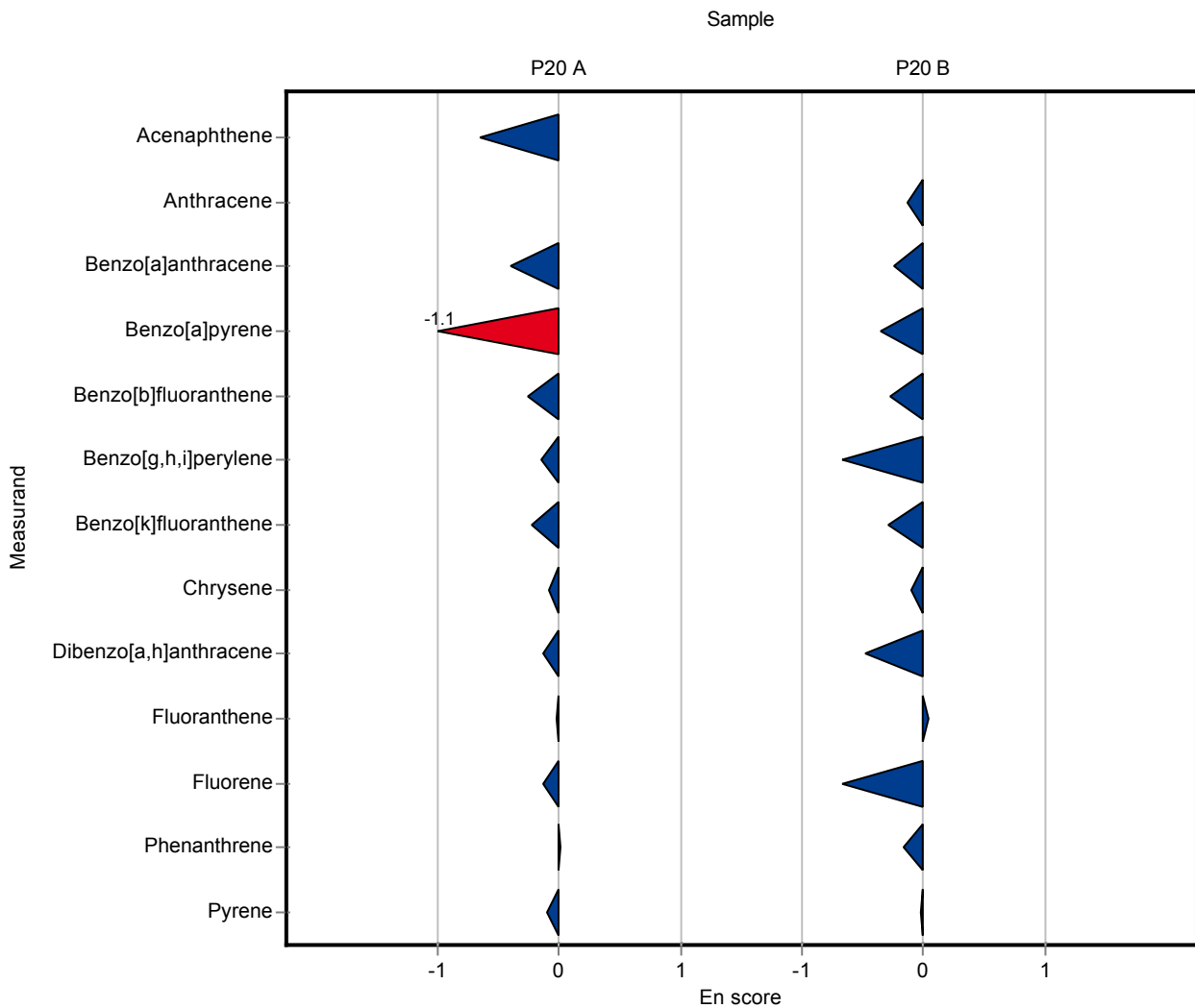
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 78 ± 34.32     | 27.5      | 62.7         | -0.66    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -          | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | 32 ± 14.08     | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 30 ± 13.2      | 10.4      | 73.3         | -0.40    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 28.5 ± 12.54   | 13.3      | 49.5         | -1.09    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 150.8 ± 66.35  | 33.3      | 81.6         | -0.26    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 179 ± 78.76    | 45.4      | 88.2         | -0.15    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 170.5 ± 75.02  | 55.1      | 83.5         | -0.22    |
| Chrysene               | ng/l | 202 ± 12.8               | 188 ± 82.72    | 38.4      | 93           | -0.08    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 59.8 ± 26.31   | 13.2      | 89.2         | -0.14    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 122.8 ± 54.12  | 23.7      | 98.3         | -0.02    |
| Fluorene               | ng/l | 158 ± 9.33               | 142.5 ± 62.7   | 20.6      | 89.9         | -0.13    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -          | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -          | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | 274.5 ± 120.78 | 41.1      | 100          | 0.00     |
| Pyrene                 | ng/l | 175 ± 13.6               | 160 ± 70.4     | 29.8      | 91.4         | -0.11    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -        | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -        | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 13.2    | 8         | 90           | -0.13    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 7.6 ± 3.34   | 1.67      | 82.1         | -0.25    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 7.5 ± 3.3    | 2.27      | 76           | -0.35    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 5.1 ± 2.24   | 1.15      | 79.9         | -0.28    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 12 ± 5.28    | 6.47      | 61.2         | -0.67    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 26.4 ± 11.62 | 9         | 79.2         | -0.29    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 39.2 ± 17.25 | 8.09      | 92.1         | -0.10    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 18.1 ± 7.96  | 7.37      | 69.4         | -0.49    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|--------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 30.2 ± 13.2  | 5.54               | 104          |
| Fluorene               | ng/l | 26.3 ± 2.42              | 16.5 ± 7.26  | 4.36               | 62.8         |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -        | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -        | 10.2               | -            |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 41.2 ± 18.13 | 7.48               | 86.9         |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 20.2 ± 8.6   | 3.51               | 97.9         |



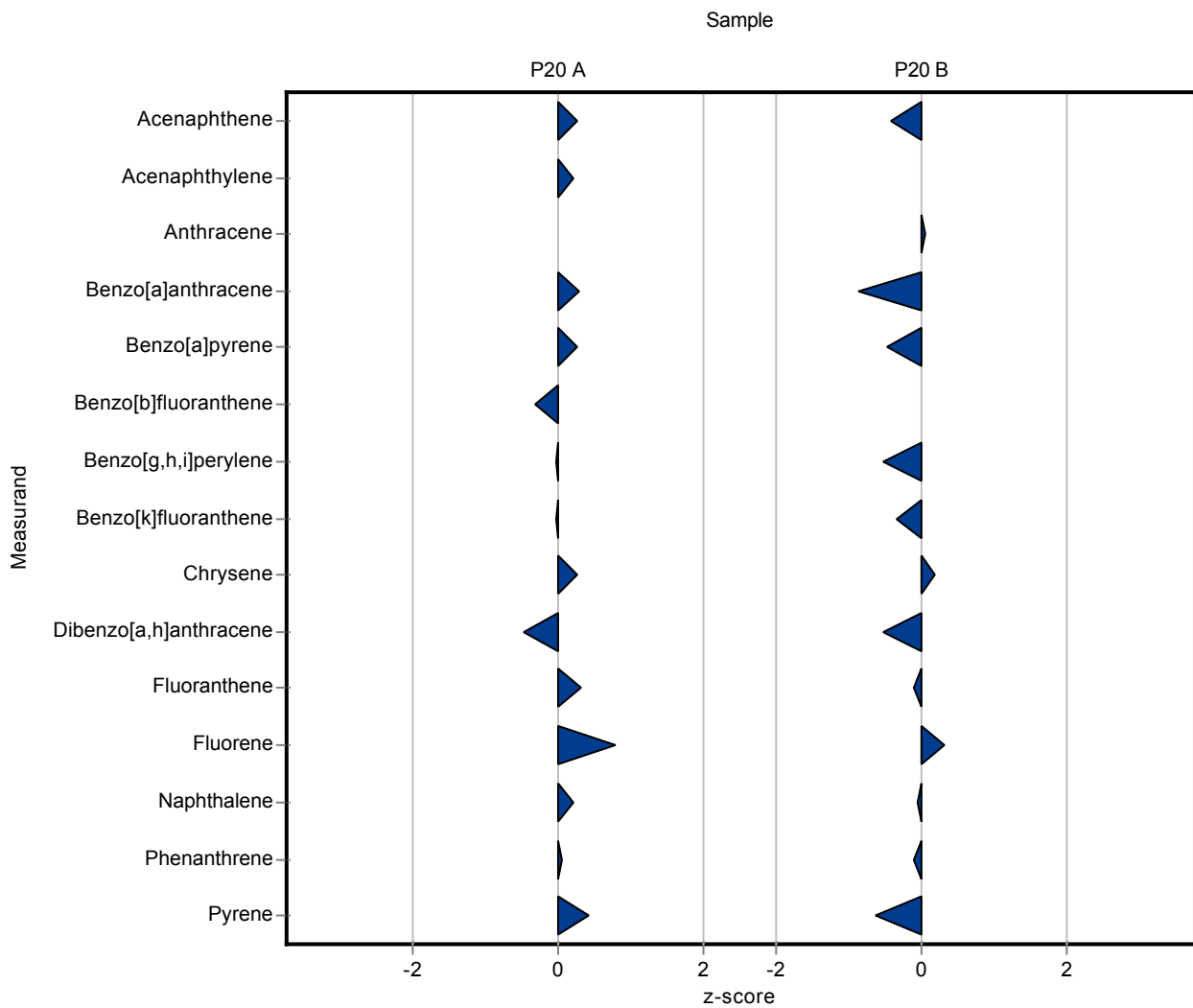
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 131.18 ± 17.05 | 27.5      | 105          | 0.25    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 255.53 ± 38.33 | 56.1      | 105          | 0.21    |
| Anthracene             | ng/l | - ± -                    | 69.98 ± 12.6   | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 43.83 ± 4.82   | 10.4      | 107          | 0.28    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 61.04 ± 13.43  | 13.3      | 106          | 0.26    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 173.78 ± 24.33 | 33.3      | 94.1         | -0.33   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 201.65 ± 32.26 | 45.4      | 99.4         | -0.03   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 202.53 ± 30.38 | 55.1      | 99.2         | -0.03   |
| Chrysene               | ng/l | 202 ± 12.8               | 211.42 ± 25.37 | 38.4      | 105          | 0.24    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 60.7 ± 10.93   | 13.2      | 90.5         | -0.48   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 131.87 ± 27.69 | 23.7      | 106          | 0.29    |
| Fluorene               | ng/l | 158 ± 9.33               | 174.55 ± 22.69 | 20.6      | 110          | 0.78    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 8.02 ± 1.36    | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 91.69 ± 11     | 21        | 105          | 0.19    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 275.28 ± 52.3  | 41.1      | 100          | 0.03    |
| Pyrene                 | ng/l | 175 ± 13.6               | 187.03 ± 31.8  | 29.8      | 107          | 0.40    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 9.54 ± 1.24  | 1.98      | 91.6         | -0.44   |
| Acenaphthylene         | ng/l | - ± -                    | 13.82 ± 2.07 | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 33.72 ± 6.06 | 8         | 101          | 0.05    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 7.77 ± 0.85  | 1.67      | 83.9         | -0.89   |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 8.76 ± 1.93  | 2.27      | 88.7         | -0.49   |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <5 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 16.17 ± 2.58 | 6.47      | 82.5         | -0.53   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 30.1 ± 4.52  | 9         | 90.3         | -0.36   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 44 ± 5.28    | 8.09      | 103          | 0.18    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 22.12 ± 3.98 | 7.37      | 84.8         | -0.54   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28.46 ± 5.98 | 5.54      | 97.6         | -0.13   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 27.54 ± 3.58 | 4.36      | 105          | 0.29    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 41.95 ± 5.03 | 10.2      | 98.5         | -0.06   |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|--------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 46.47 ± 8.83 | 7.48                   | 98.1    | -0.12 |
| Pyrene       | ng/l | 20.6 ± 0.83              | 18.4 ± 3.13  | 3.51                   | 89.2    | -0.64 |



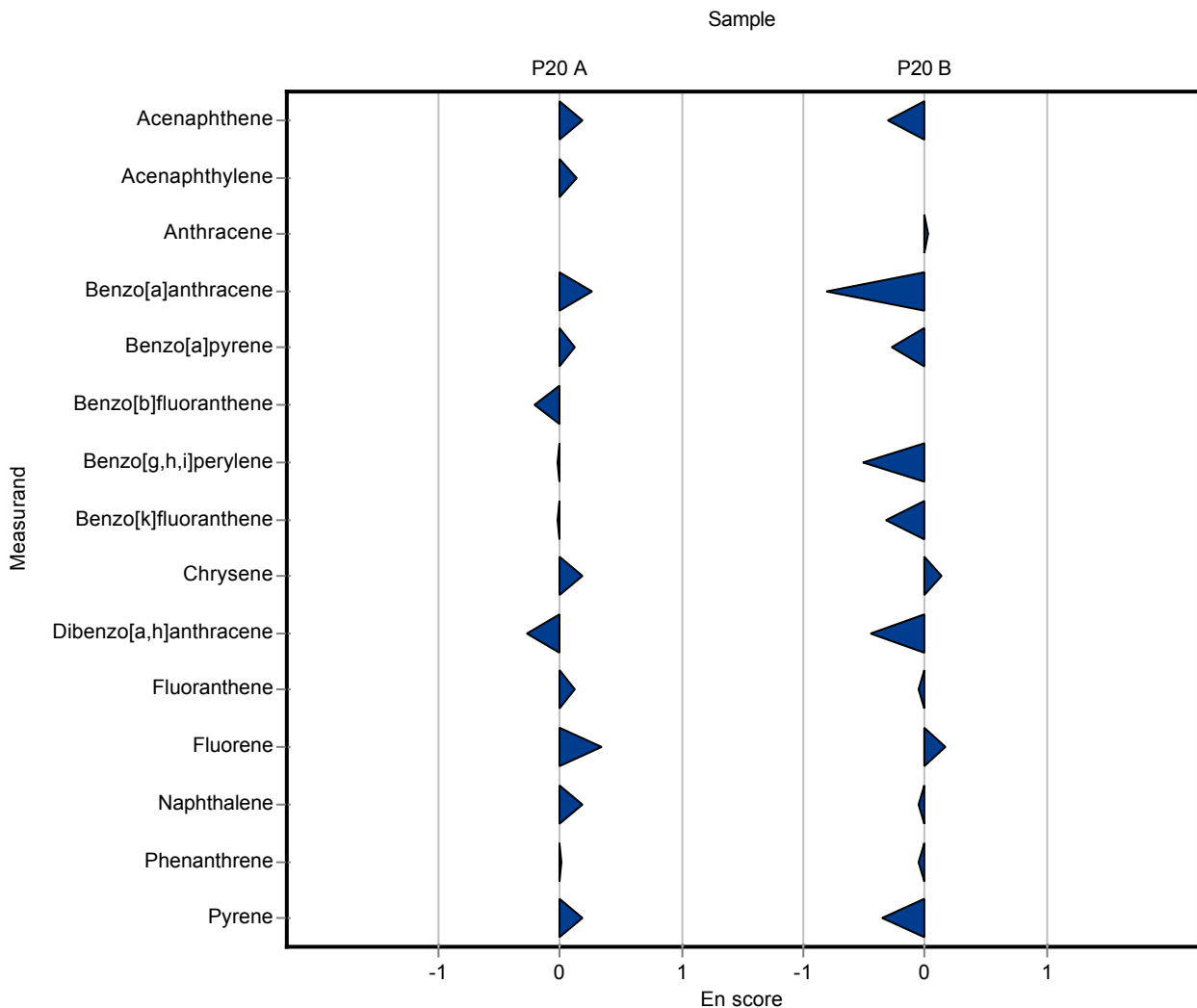
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 131.18 ± 17.05 | 27.5      | 105          | 0.18     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 255.53 ± 38.33 | 56.1      | 105          | 0.14     |
| Anthracene             | ng/l | - ± -                    | 69.98 ± 12.6   | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 43.83 ± 4.82   | 10.4      | 107          | 0.26     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 61.04 ± 13.43  | 13.3      | 106          | 0.12     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 173.78 ± 24.33 | 33.3      | 94.1         | -0.22    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 201.65 ± 32.26 | 45.4      | 99.4         | -0.02    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 202.53 ± 30.38 | 55.1      | 99.2         | -0.02    |
| Chrysene               | ng/l | 202 ± 12.8               | 211.42 ± 25.37 | 38.4      | 105          | 0.18     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 60.7 ± 10.93   | 13.2      | 90.5         | -0.28    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 131.87 ± 27.69 | 23.7      | 106          | 0.13     |
| Fluorene               | ng/l | 158 ± 9.33               | 174.55 ± 22.69 | 20.6      | 110          | 0.35     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 8.02 ± 1.36    | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 91.69 ± 11     | 21        | 105          | 0.18     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 275.28 ± 52.3  | 41.1      | 100          | 0.01     |
| Pyrene                 | ng/l | 175 ± 13.6               | 187.03 ± 31.8  | 29.8      | 107          | 0.18     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 9.54 ± 1.24  | 1.98      | 91.6         | -0.31    |
| Acenaphthylene         | ng/l | - ± -                    | 13.82 ± 2.07 | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 33.72 ± 6.06 | 8         | 101          | 0.03     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 7.77 ± 0.85  | 1.67      | 83.9         | -0.82    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 8.76 ± 1.93  | 2.27      | 88.7         | -0.27    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <5 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 16.17 ± 2.58 | 6.47      | 82.5         | -0.51    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 30.1 ± 4.52  | 9         | 90.3         | -0.33    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 44 ± 5.28    | 8.09      | 103          | 0.13     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 22.12 ± 3.98 | 7.37      | 84.8         | -0.44    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|--------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 28.46 ± 5.98 | 5.54               | 97.6         |
| Fluorene               | ng/l | 26.3 ± 2.42              | 27.54 ± 3.58 | 4.36               | 105          |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 41.95 ± 5.03 | 10.2               | 98.5         |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 46.47 ± 8.83 | 7.48               | 98.1         |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 18.4 ± 3.13  | 3.51               | 89.2         |





Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -      | 27.5      | -            | -       |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -      | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -      | 10.4      | -            | -       |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | - ± -      | 13.3      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -      | 33.3      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -      | 45.4      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -      | 55.1      | -            | -       |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -      | 38.4      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -      | 13.2      | -            | -       |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -      | 23.7      | -            | -       |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -      | 20.6      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -      | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -      | 41.1      | -            | -       |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -      | 29.8      | -            | -       |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -      | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -      | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -      | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | - ± -      | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -      | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -      | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -      | 9         | -            | -       |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -      | 8.09      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -      | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -      | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -      | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -      | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|-----------|--------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | - ± -      | 7.48      | -            | -       |
| Pyrene       | ng/l | 20.6 ± 0.83              | - ± -      | 3.51      | -            | -       |

Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -      | 27.5      | -            | -        |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -      | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -      | 10.4      | -            | -        |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | - ± -      | 13.3      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -      | 33.3      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -      | 45.4      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -      | 55.1      | -            | -        |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -      | 38.4      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -      | 13.2      | -            | -        |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -      | 23.7      | -            | -        |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -      | 20.6      | -            | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -      | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -      | 41.1      | -            | -        |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -      | 29.8      | -            | -        |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -      | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -      | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -      | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -      | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | - ± -      | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -      | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -      | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -      | 9         | -            | -        |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -      | 8.09      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -      | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|------------------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -      | 5.54                   | -        |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -      | 4.36                   | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -                      | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -      | 10.2                   | -        |
| Phenanthrene           | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -        |
| Pyrene                 | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -        |

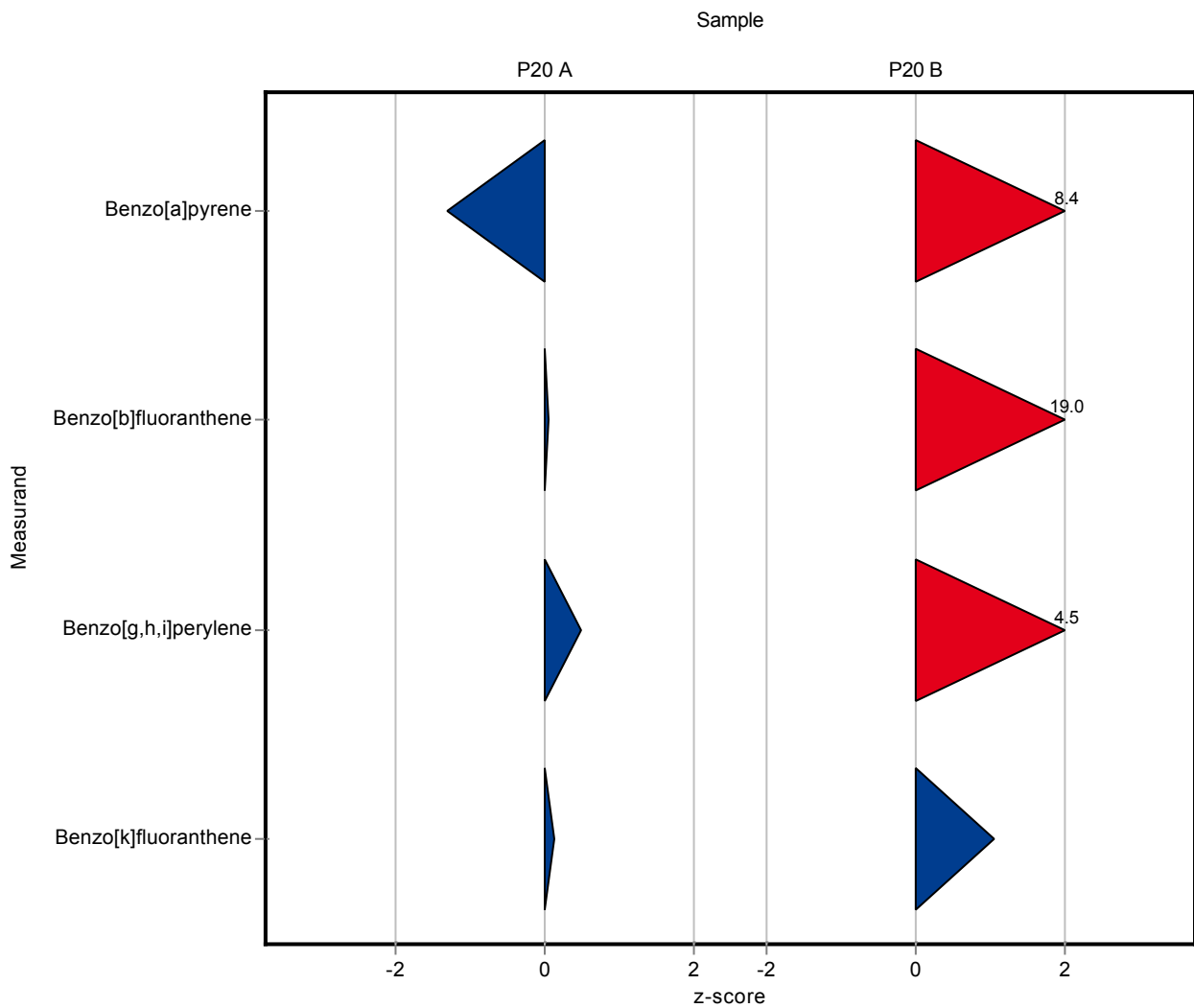
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -         | 27.5      | -            | -       |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -         | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | - ± -         | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -         | 10.4      | -            | -       |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 40.3 ± 12.1   | 13.3      | 69.9         | -1.31   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 187 ± 56      | 33.3      | 101          | 0.07    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 225 ± 68      | 45.4      | 111          | 0.49    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 211 ± 63      | 55.1      | 103          | 0.12    |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -         | 38.4      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -         | 13.2      | -            | -       |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -         | 23.7      | -            | -       |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -         | 20.6      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -         | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -         | 41.1      | -            | -       |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -         | 29.8      | -            | -       |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -         | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -         | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -         | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -         | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 29 ± 8.7      | 2.27      | 294          | 8.43    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 28.2 ± 8.5    | 1.15      | 442          | 19.00   |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 48.4 ± 14.5   | 6.47      | 247          | 4.45    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 42.8 ± 12.8   | 9         | 128          | 1.05    |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -         | 8.09      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -         | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -         | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -         | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -         | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -       |
| Pyrene       | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -       |



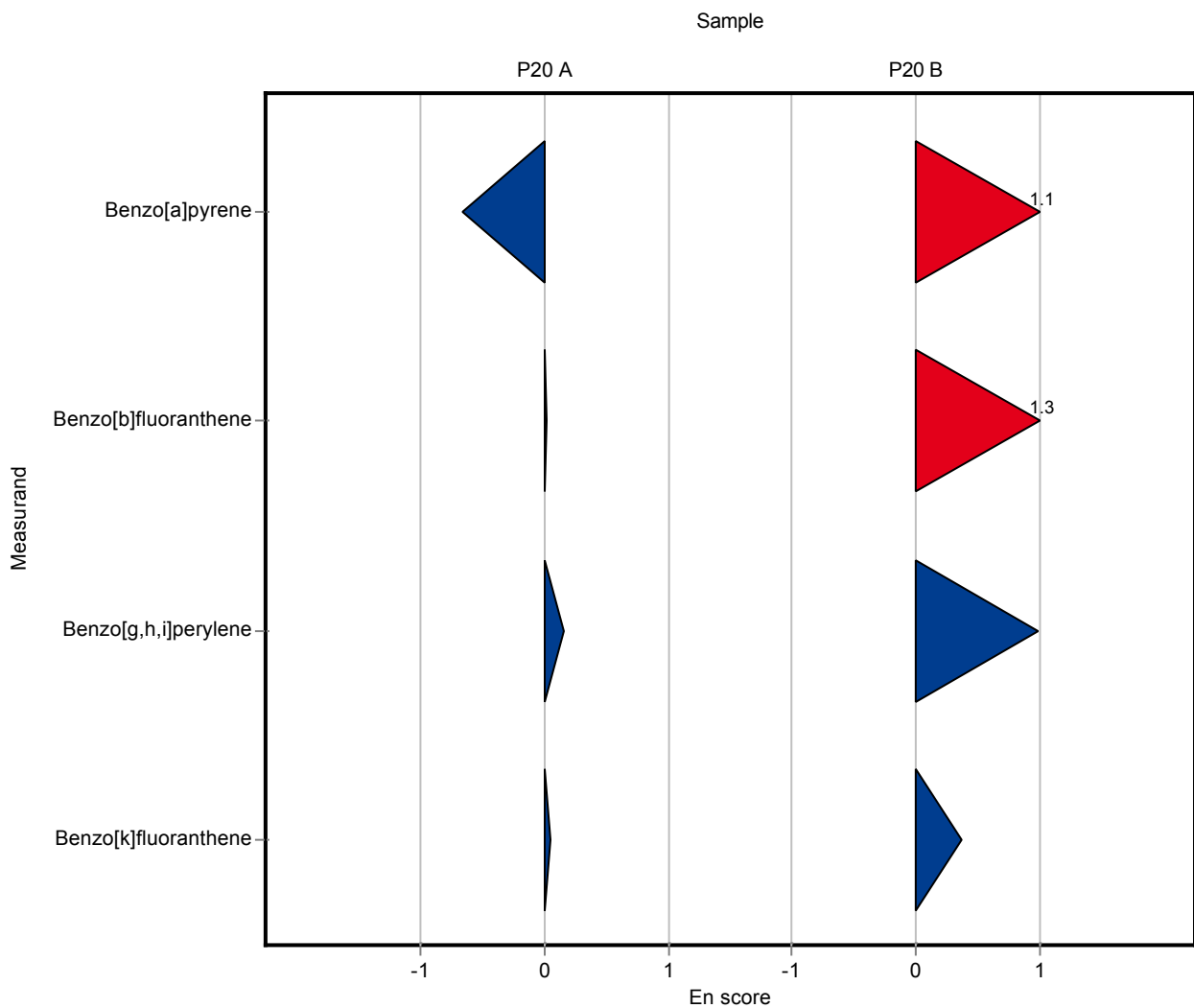
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -         | 27.5      | -            | -        |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -         | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | - ± -         | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -         | 10.4      | -            | -        |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 40.3 ± 12.1   | 13.3      | 69.9         | -0.67    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 187 ± 56      | 33.3      | 101          | 0.02     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 225 ± 68      | 45.4      | 111          | 0.16     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 211 ± 63      | 55.1      | 103          | 0.05     |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -         | 38.4      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -         | 13.2      | -            | -        |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -         | 23.7      | -            | -        |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -         | 20.6      | -            | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -         | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -         | 41.1      | -            | -        |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -         | 29.8      | -            | -        |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -       | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -       | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -       | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -       | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 29 ± 8.7    | 2.27      | 294          | 1.10     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 28.2 ± 8.5  | 1.15      | 442          | 1.28     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 48.4 ± 14.5 | 6.47      | 247          | 0.98     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 42.8 ± 12.8 | 9         | 128          | 0.37     |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -       | 8.09      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -       | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|------------------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -         | 5.54                   | -        |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -         | 4.36                   | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -                      | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -         | 10.2                   | -        |
| Phenanthrene           | ng/l | 47.4 ± 4                 | - ± -         | 7.48                   | -        |
| Pyrene                 | ng/l | 20.6 ± 0.83              | - ± -         | 3.51                   | -        |





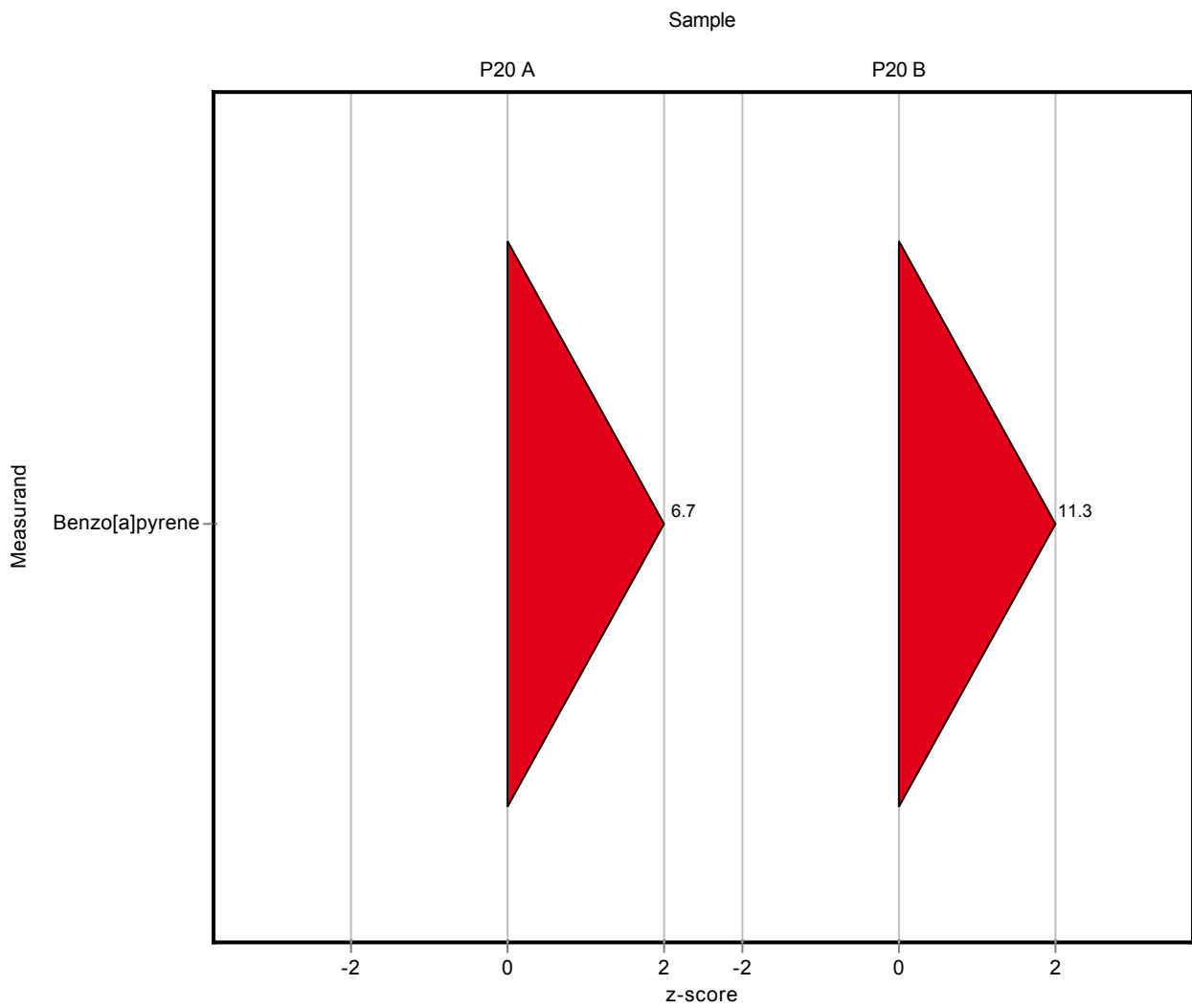
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -         | 27.5      | -            | -       |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -         | 56.1      | -            | -       |
| Anthracene             | ng/l | - ± -                    | - ± -         | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -         | 10.4      | -            | -       |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 146.7 ± 44.02 | 13.3      | 255          | 6.72    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -         | 33.3      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -         | 45.4      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -         | 55.1      | -            | -       |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -         | 38.4      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -         | 13.2      | -            | -       |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -         | 23.7      | -            | -       |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -         | 20.6      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -         | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -         | 21        | -            | -       |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -         | 41.1      | -            | -       |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -         | 29.8      | -            | -       |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -        | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | - ± -        | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -        | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -        | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 35.6 ± 10.68 | 2.27      | 361          | 11.30   |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -        | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -        | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -        | 9         | -            | -       |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -        | 8.09      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -        | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -        | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -        | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -        | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -        | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -       |
| Pyrene       | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -       |



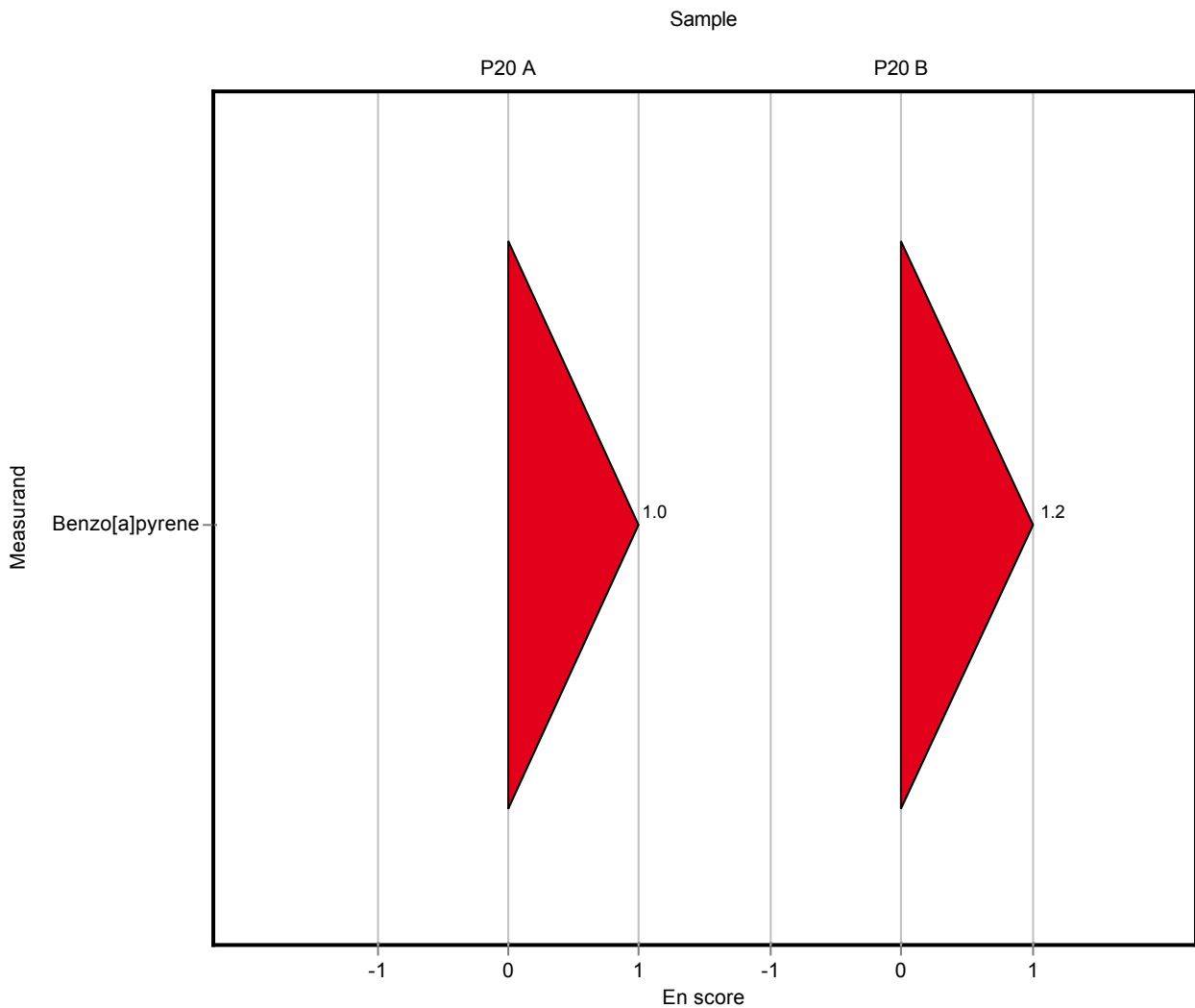
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | - ± -         | 27.5      | -            | -        |
| Acenaphthylene         | ng/l | 244 ± 30.9               | - ± -         | 56.1      | -            | -        |
| Anthracene             | ng/l | - ± -                    | - ± -         | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | - ± -         | 10.4      | -            | -        |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 146.7 ± 44.02 | 13.3      | 255          | 1.01     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | - ± -         | 33.3      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | - ± -         | 45.4      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | - ± -         | 55.1      | -            | -        |
| Chrysene               | ng/l | 202 ± 12.8               | - ± -         | 38.4      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | - ± -         | 13.2      | -            | -        |
| Fluoranthene           | ng/l | 125 ± 8.6                | - ± -         | 23.7      | -            | -        |
| Fluorene               | ng/l | 158 ± 9.33               | - ± -         | 20.6      | -            | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -         | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | - ± -         | 21        | -            | -        |
| Phenanthrene           | ng/l | 274 ± 13.2               | - ± -         | 41.1      | -            | -        |
| Pyrene                 | ng/l | 175 ± 13.6               | - ± -         | 29.8      | -            | -        |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | - ± -        | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | - ± -        | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | - ± -        | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | - ± -        | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 35.6 ± 10.68 | 2.27      | 361          | 1.20     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | - ± -        | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | - ± -        | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | - ± -        | 9         | -            | -        |
| Chrysene               | ng/l | 42.6 ± 3.58              | - ± -        | 8.09      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | - ± -        | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|------------------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -      | 5.54                   | -        |
| Fluorene               | ng/l | 26.3 ± 2.42              | - ± -      | 4.36                   | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | - ± -      | -                      | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | - ± -      | 10.2                   | -        |
| Phenanthrene           | ng/l | 47.4 ± 4                 | - ± -      | 7.48                   | -        |
| Pyrene                 | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -        |



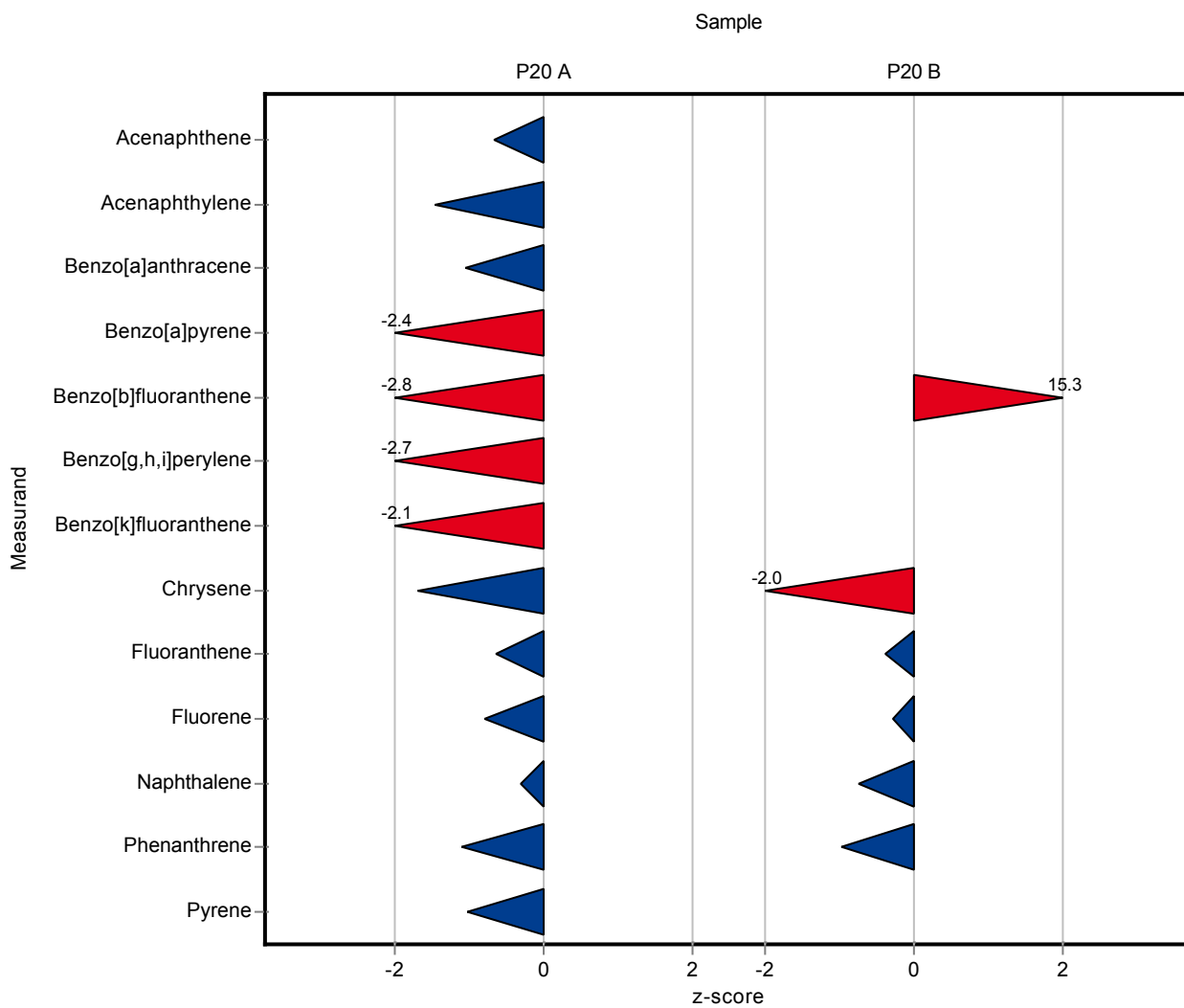
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 106 ± 21      | 27.5      | 85.2         | -0.67   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 162 ± 32      | 56.1      | 66.4         | -1.46   |
| Anthracene             | ng/l | - ± -                    | 47 ± 9        | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 30 ± 6        | 10.4      | 73.3         | -1.05   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 26 ± 5        | 13.3      | 45.1         | -2.39   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 91 ± 18       | 33.3      | 49.3         | -2.82   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 82 ± 16       | 45.4      | 40.4         | -2.66   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 91 ± 18       | 55.1      | 44.6         | -2.05   |
| Chrysene               | ng/l | 202 ± 12.8               | 137 ± 27      | 38.4      | 67.8         | -1.70   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | <25 (LOQ) ± - | 13.2      | -            | -       |
| Fluoranthene           | ng/l | 125 ± 8.6                | 110 ± 22      | 23.7      | 88.1         | -0.63   |
| Fluorene               | ng/l | 158 ± 9.33               | 142 ± 28      | 20.6      | 89.6         | -0.80   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <25 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 81 ± 16       | 21        | 92.4         | -0.32   |
| Phenanthrene           | ng/l | 274 ± 13.2               | 229 ± 46      | 41.1      | 83.5         | -1.10   |
| Pyrene                 | ng/l | 175 ± 13.6               | 145 ± 29      | 29.8      | 82.8         | -1.01   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <25 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | <25 (LOQ) ± - | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | <25 (LOQ) ± - | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <25 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <10 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 24 ± 5        | 1.15      | 376          | 15.30   |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <25 (LOQ) ± - | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | <25 (LOQ) ± - | 9         | -            | -       |
| Chrysene               | ng/l | 42.6 ± 3.58              | 26 ± 5        | 8.09      | 61.1         | -2.05   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | <25 (LOQ) ± - | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 27 ± 5        | 5.54      | 92.6         | -0.39   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 25 ± 5        | 4.36      | 95.1         | -0.29   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <25 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 35 ± 7        | 10.2      | 82.2         | -0.74   |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion Recovery | z-Score |
|--------------|------|--------------------------|---------------|--------------------|---------|
|              |      |                          |               | [%]                |         |
| Phenanthrene | ng/l | 47.4 ± 4                 | 40 ± 8        | 7.48               | 84.4    |
| Pyrene       | ng/l | 20.6 ± 0.83              | <25 (LOQ) ± - | 3.51               | -       |



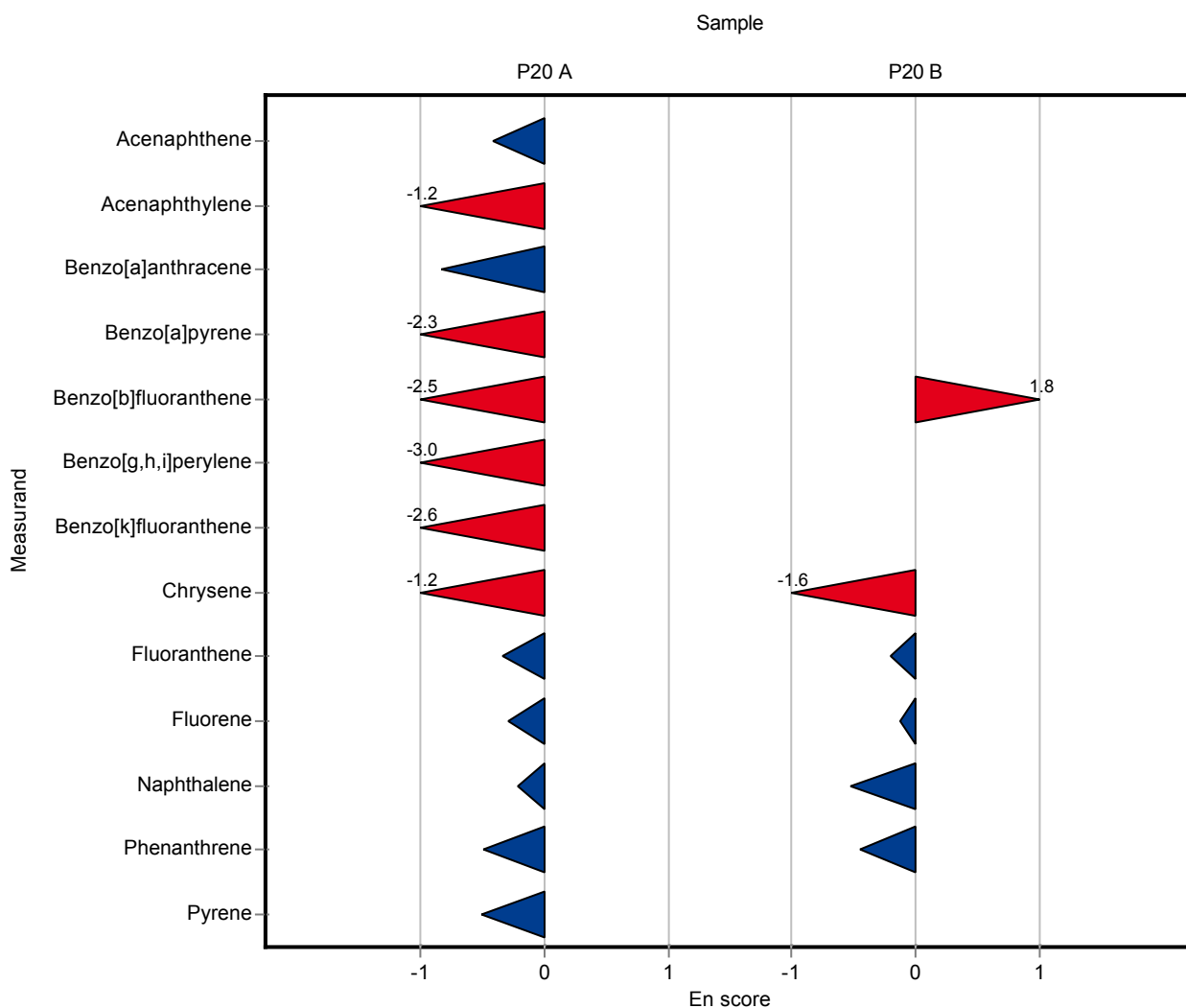
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 106 ± 21      | 27.5      | 85.2         | -0.41    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 162 ± 32      | 56.1      | 66.4         | -1.15    |
| Anthracene             | ng/l | - ± -                    | 47 ± 9        | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 30 ± 6        | 10.4      | 73.3         | -0.82    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 26 ± 5        | 13.3      | 45.1         | -2.29    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 91 ± 18       | 33.3      | 49.3         | -2.47    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 82 ± 16       | 45.4      | 40.4         | -3.05    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 91 ± 18       | 55.1      | 44.6         | -2.57    |
| Chrysene               | ng/l | 202 ± 12.8               | 137 ± 27      | 38.4      | 67.8         | -1.17    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | <25 (LOQ) ± - | 13.2      | -            | -        |
| Fluoranthene           | ng/l | 125 ± 8.6                | 110 ± 22      | 23.7      | 88.1         | -0.33    |
| Fluorene               | ng/l | 158 ± 9.33               | 142 ± 28      | 20.6      | 89.6         | -0.29    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <25 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 81 ± 16       | 21        | 92.4         | -0.20    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 229 ± 46      | 41.1      | 83.5         | -0.49    |
| Pyrene                 | ng/l | 175 ± 13.6               | 145 ± 29      | 29.8      | 82.8         | -0.51    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <25 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | <25 (LOQ) ± - | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | <25 (LOQ) ± - | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <25 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <10 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 24 ± 5        | 1.15      | 376          | 1.76     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <25 (LOQ) ± - | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | <25 (LOQ) ± - | 9         | -            | -        |
| Chrysene               | ng/l | 42.6 ± 3.58              | 26 ± 5        | 8.09      | 61.1         | -1.56    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | <25 (LOQ) ± - | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|---------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 27 ± 5        | 5.54               | 92.6         |
| Fluorene               | ng/l | 26.3 ± 2.42              | 25 ± 5        | 4.36               | 95.1         |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <25 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 35 ± 7        | 10.2               | 82.2         |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 40 ± 8        | 7.48               | 84.4         |
| Pyrene                 | ng/l | 20.6 ± 0.83              | <25 (LOQ) ± - | 3.51               | -            |





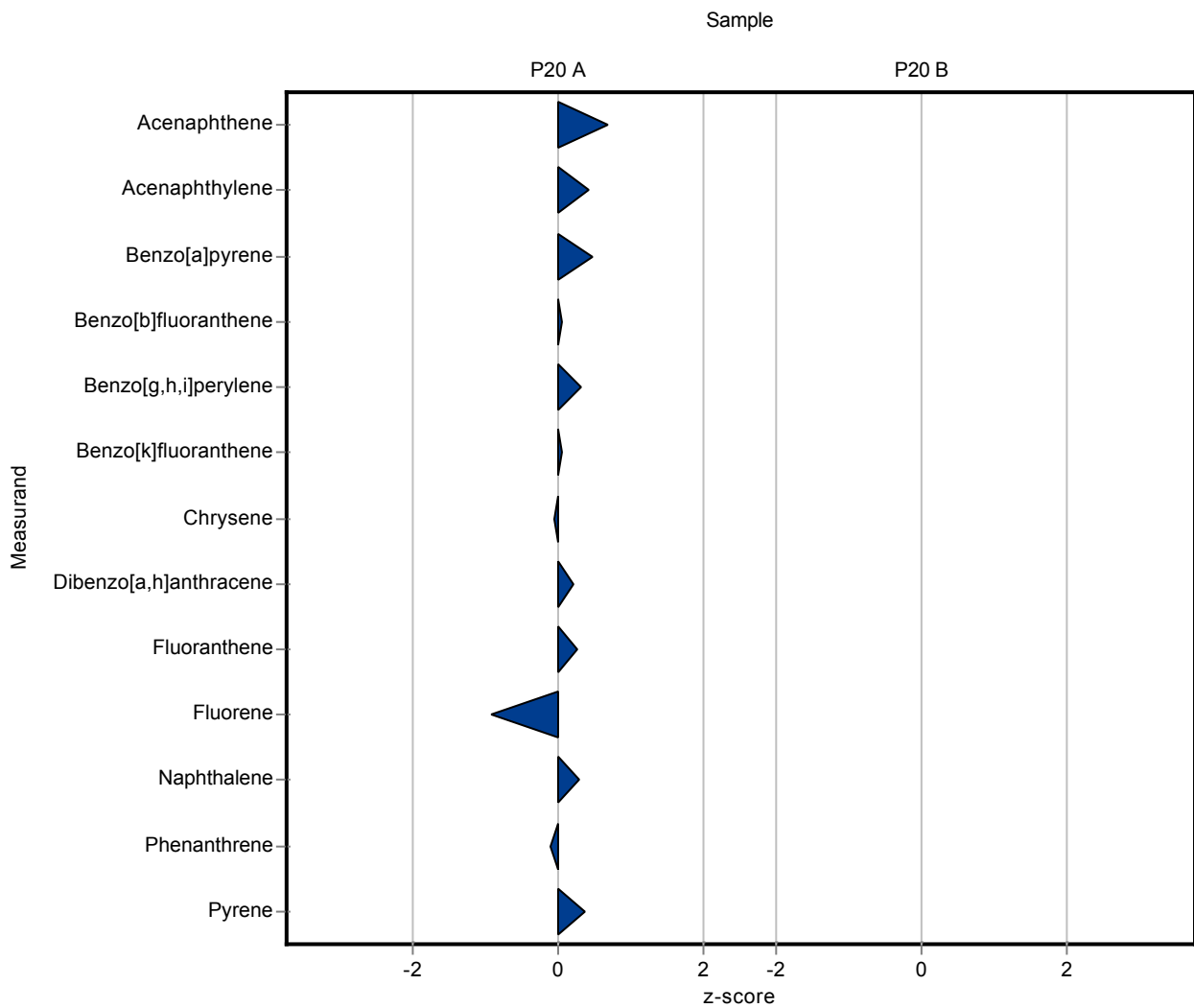
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 143 ± 14.3      | 27.5      | 115          | 0.68    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 267 ± 26.7      | 56.1      | 109          | 0.41    |
| Anthracene             | ng/l | - ± -                    | 62 ± 6.2        | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | <52.6 (LOQ) ± - | 10.4      | -            | -       |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 63.8 ± 6.4      | 13.3      | 111          | 0.47    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 186 ± 18.6      | 33.3      | 101          | 0.04    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 217 ± 21.7      | 45.4      | 107          | 0.31    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 207 ± 20.7      | 55.1      | 101          | 0.05    |
| Chrysene               | ng/l | 202 ± 12.8               | 200 ± 20        | 38.4      | 99           | -0.05   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 69.7 ± 6.8      | 13.2      | 104          | 0.20    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 131 ± 13.1      | 23.7      | 105          | 0.26    |
| Fluorene               | ng/l | 158 ± 9.33               | 139 ± 13.9      | 20.6      | 87.7         | -0.94   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <52.6 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 93.5 ± 9.4      | 21        | 107          | 0.28    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 269 ± 26.9      | 41.1      | 98.1         | -0.13   |
| Pyrene                 | ng/l | 175 ± 13.6               | 186 ± 18.6      | 29.8      | 106          | 0.37    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <52.6 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | <52.6 (LOQ) ± - | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | <52.6 (LOQ) ± - | 8         | -            | -       |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <52.6 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <52.6 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <52.6 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <52.6 (LOQ) ± - | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | <52.6 (LOQ) ± - | 9         | -            | -       |
| Chrysene               | ng/l | 42.6 ± 3.58              | <52.6 (LOQ) ± - | 8.09      | -            | -       |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | <52.6 (LOQ) ± - | 7.37      | -            | -       |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | <52.6 (LOQ) ± - | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | <52.6 (LOQ) ± - | 4.36      | -            | -       |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <52.6 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | <52.6 (LOQ) ± - | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|-----------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | <52.6 (LOQ) ± - | 7.48                   | -       |
| Pyrene       | ng/l | 20.6 ± 0.83              | <52.6 (LOQ) ± - | 3.51                   | -       |



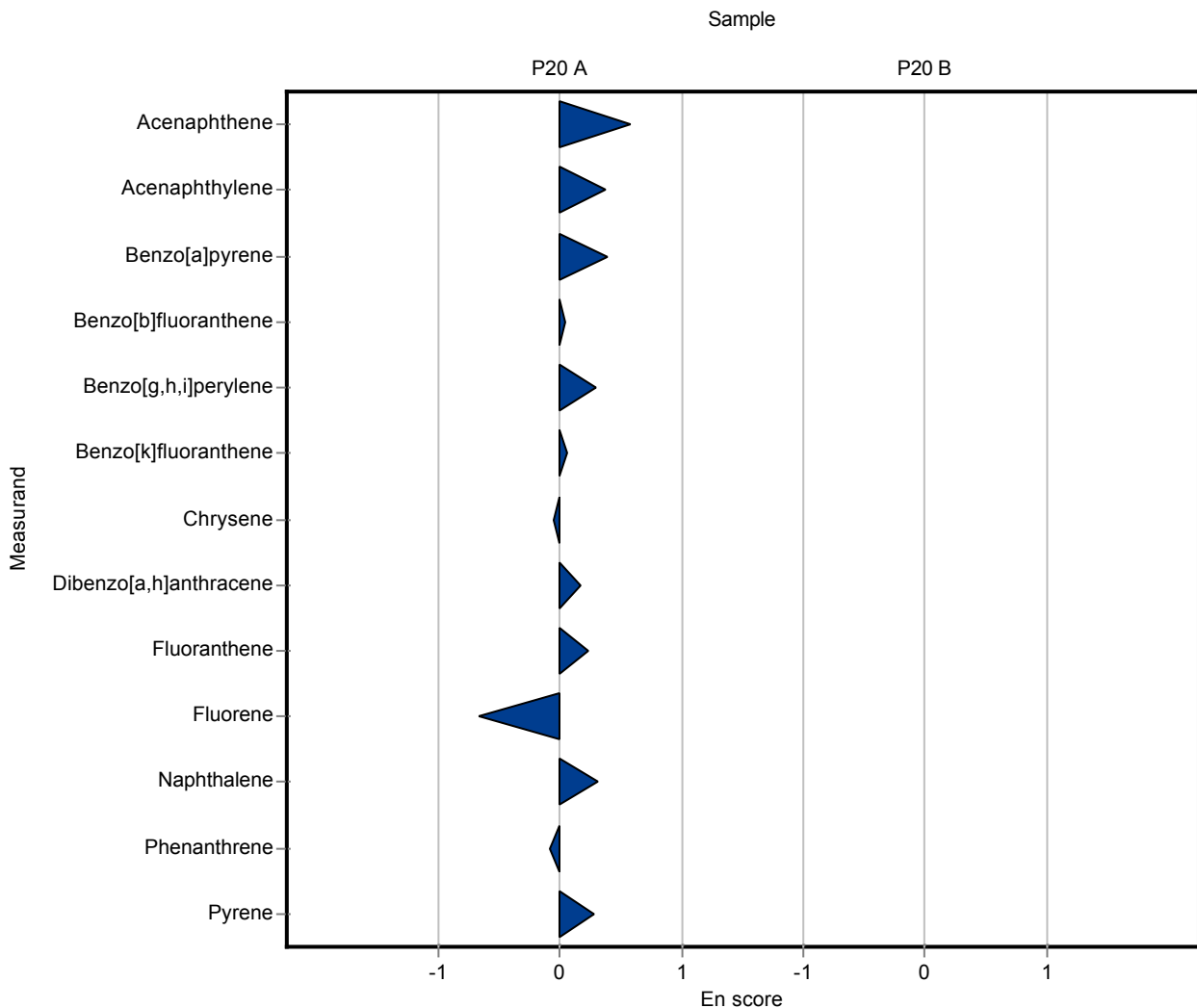
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 143 ± 14.3      | 27.5      | 115          | 0.58     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 267 ± 26.7      | 56.1      | 109          | 0.37     |
| Anthracene             | ng/l | - ± -                    | 62 ± 6.2        | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | <52.6 (LOQ) ± - | 10.4      | -            | -        |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 63.8 ± 6.4      | 13.3      | 111          | 0.39     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 186 ± 18.6      | 33.3      | 101          | 0.03     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 217 ± 21.7      | 45.4      | 107          | 0.29     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 207 ± 20.7      | 55.1      | 101          | 0.06     |
| Chrysene               | ng/l | 202 ± 12.8               | 200 ± 20        | 38.4      | 99           | -0.05    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 69.7 ± 6.8      | 13.2      | 104          | 0.17     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 131 ± 13.1      | 23.7      | 105          | 0.22     |
| Fluorene               | ng/l | 158 ± 9.33               | 139 ± 13.9      | 20.6      | 87.7         | -0.66    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <52.6 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 93.5 ± 9.4      | 21        | 107          | 0.30     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 269 ± 26.9      | 41.1      | 98.1         | -0.09    |
| Pyrene                 | ng/l | 175 ± 13.6               | 186 ± 18.6      | 29.8      | 106          | 0.28     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <52.6 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | <52.6 (LOQ) ± - | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | <52.6 (LOQ) ± - | 8         | -            | -        |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <52.6 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <52.6 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <52.6 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <52.6 (LOQ) ± - | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | <52.6 (LOQ) ± - | 9         | -            | -        |
| Chrysene               | ng/l | 42.6 ± 3.58              | <52.6 (LOQ) ± - | 8.09      | -            | -        |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | <52.6 (LOQ) ± - | 7.37      | -            | -        |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion Recovery [%] | En-Score |
|------------------------|------|--------------------------|-----------------|------------------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | <52.6 (LOQ) ± - | 5.54                   | -        |
| Fluorene               | ng/l | 26.3 ± 2.42              | <52.6 (LOQ) ± - | 4.36                   | -        |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <52.6 (LOQ) ± - | -                      | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | <52.6 (LOQ) ± - | 10.2                   | -        |
| Phenanthrene           | ng/l | 47.4 ± 4                 | <52.6 (LOQ) ± - | 7.48                   | -        |
| Pyrene                 | ng/l | 20.6 ± 0.83              | <52.6 (LOQ) ± - | 3.51                   | -        |



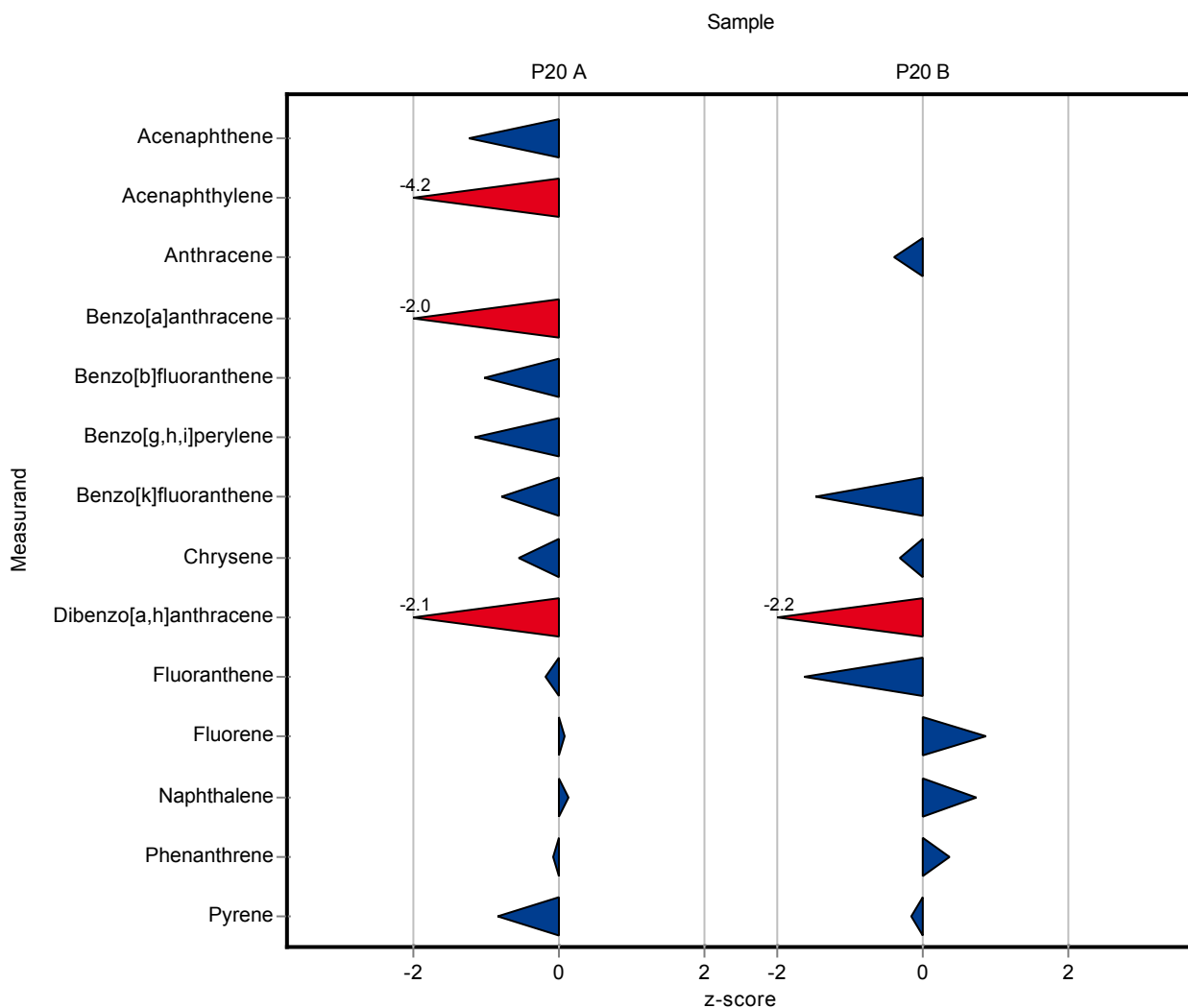
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 90 ± 20       | 27.5      | 72.4         | -1.25   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 10 ± 10       | 56.1      | 4.1          | -4.17   |
| Anthracene             | ng/l | - ± -                    | 30 ± 10       | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 20 ± 10       | 10.4      | 48.9         | -2.01   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | <10 (LOQ) ± - | 13.3      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 150 ± 30      | 33.3      | 81.2         | -1.04   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 150 ± 30      | 45.4      | 73.9         | -1.16   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 160 ± 30      | 55.1      | 78.4         | -0.80   |
| Chrysene               | ng/l | 202 ± 12.8               | 180 ± 30      | 38.4      | 89.1         | -0.57   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 40 ± 10       | 13.2      | 59.6         | -2.06   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 120 ± 20      | 23.7      | 96.1         | -0.20   |
| Fluorene               | ng/l | 158 ± 9.33               | 160 ± 30      | 20.6      | 101          | 0.07    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 90 ± 30       | 21        | 103          | 0.11    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 270 ± 50      | 41.1      | 98.5         | -0.10   |
| Pyrene                 | ng/l | 175 ± 13.6               | 150 ± 30      | 29.8      | 85.7         | -0.84   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <10 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | 10 ± 10       | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 10       | 8         | 90           | -0.42   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <10 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <10 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <10 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <10 (LOQ) ± - | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 20 ± 10       | 9         | 60           | -1.48   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40 ± 10       | 8.09      | 94           | -0.32   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 10 ± 10       | 7.37      | 38.3         | -2.18   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 20 ± 10       | 5.54      | 68.6         | -1.65   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30 ± 10       | 4.36      | 114          | 0.85    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 50 ± 10       | 10.2      | 117          | 0.72    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 50 ± 10    | 7.48                   | 106     | 0.35  |
| Pyrene       | ng/l | 20.6 ± 0.83              | 20 ± 10    | 3.51                   | 96.9    | -0.18 |



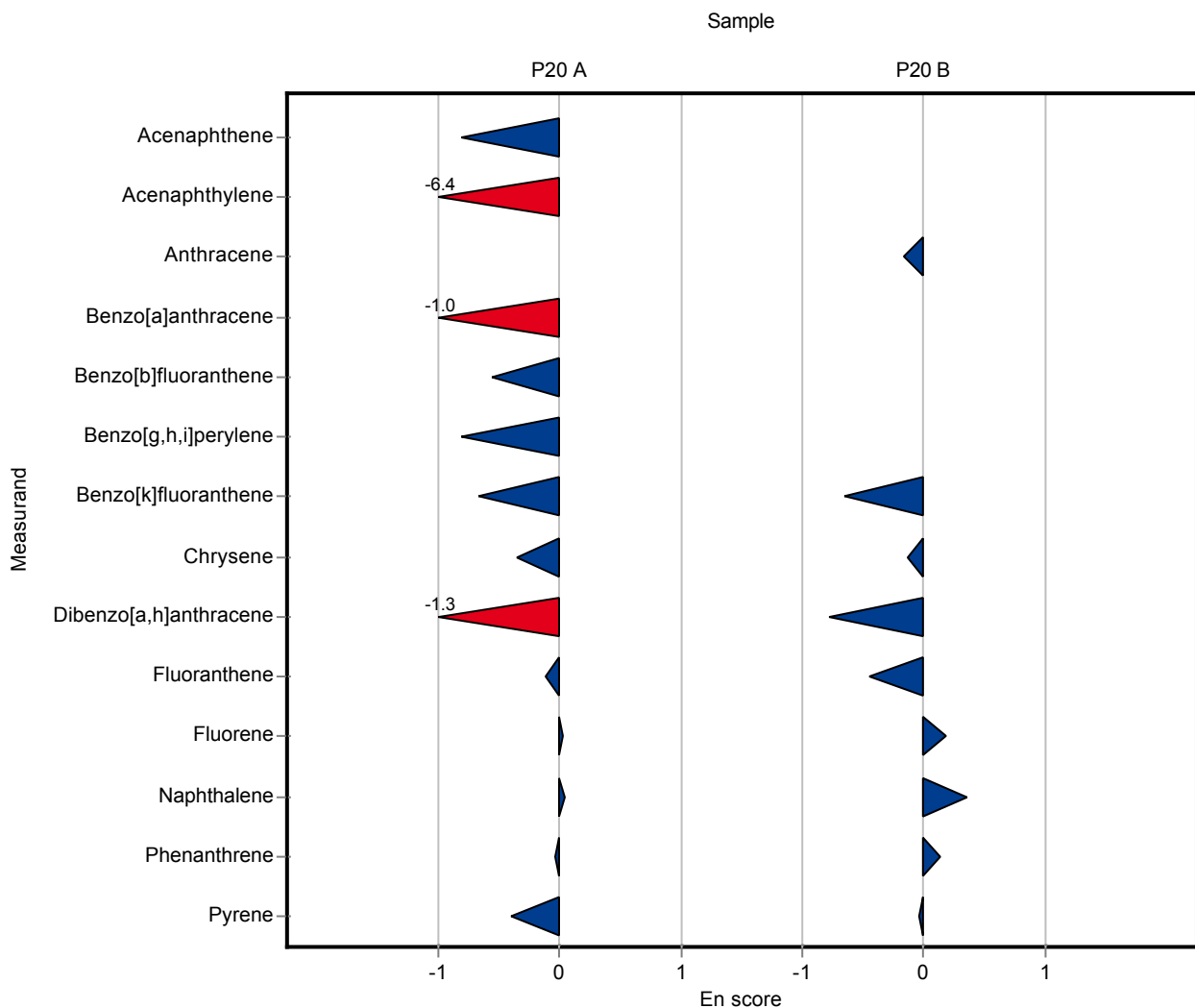
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 90 ± 20       | 27.5      | 72.4         | -0.81    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 10 ± 10       | 56.1      | 4.1          | -6.35    |
| Anthracene             | ng/l | - ± -                    | 30 ± 10       | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 20 ± 10       | 10.4      | 48.9         | -1.01    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | <10 (LOQ) ± - | 13.3      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 150 ± 30      | 33.3      | 81.2         | -0.57    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 150 ± 30      | 45.4      | 73.9         | -0.82    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 160 ± 30      | 55.1      | 78.4         | -0.68    |
| Chrysene               | ng/l | 202 ± 12.8               | 180 ± 30      | 38.4      | 89.1         | -0.36    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 40 ± 10       | 13.2      | 59.6         | -1.28    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 120 ± 20      | 23.7      | 96.1         | -0.12    |
| Fluorene               | ng/l | 158 ± 9.33               | 160 ± 30      | 20.6      | 101          | 0.03     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 90 ± 30       | 21        | 103          | 0.04     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 270 ± 50      | 41.1      | 98.5         | -0.04    |
| Pyrene                 | ng/l | 175 ± 13.6               | 150 ± 30      | 29.8      | 85.7         | -0.41    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <10 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | 10 ± 10       | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 10       | 8         | 90           | -0.17    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <10 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <10 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <10 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <10 (LOQ) ± - | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 20 ± 10       | 9         | 60           | -0.66    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40 ± 10       | 8.09      | 94           | -0.13    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 10 ± 10       | 7.37      | 38.3         | -0.79    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 20 ± 10       | 5.54      | 68.6         | -0.45    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30 ± 10       | 4.36      | 114          | 0.18     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <10 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 50 ± 10       | 10.2      | 117          | 0.36     |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 50 ± 10       | 7.48      | 106          | 0.13     |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 20 ± 10       | 3.51      | 96.9         | -0.03    |





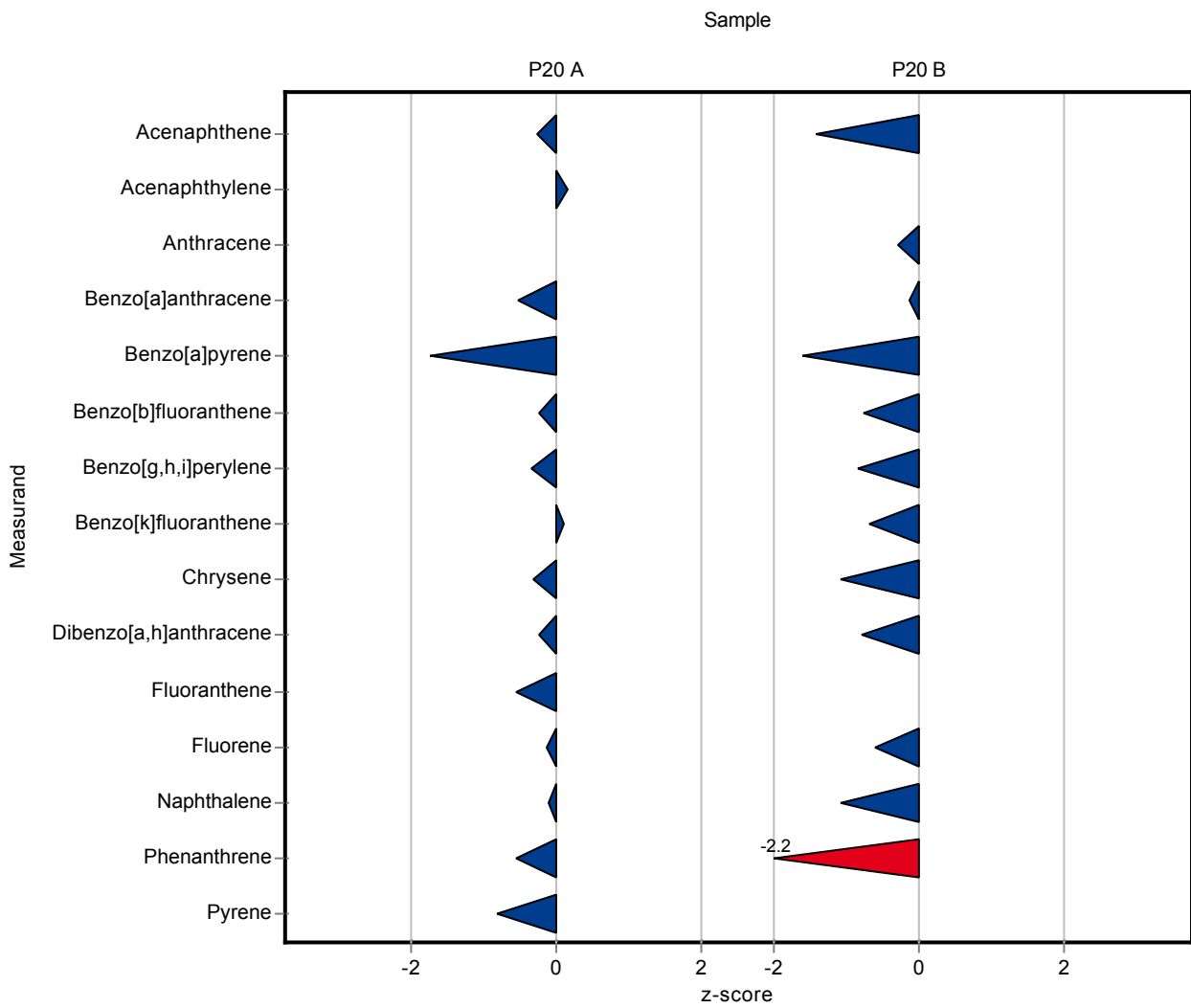
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 116.5 ± 35   | 27.5      | 93.7         | -0.29   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 251.4 ± 75.4 | 56.1      | 103          | 0.13    |
| Anthracene             | ng/l | - ± -                    | 37.3 ± 11.2  | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 35.4 ± 10.6  | 10.4      | 86.5         | -0.53   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 34.4 ± 10.3  | 13.3      | 59.7         | -1.75   |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 176.8 ± 53.1 | 33.3      | 95.7         | -0.24   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 186.8 ± 56   | 45.4      | 92.1         | -0.35   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 208.8 ± 62.6 | 55.1      | 102          | 0.08    |
| Chrysene               | ng/l | 202 ± 12.8               | 189.6 ± 56.9 | 38.4      | 93.8         | -0.33   |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 63.8 ± 25.5  | 13.2      | 95.1         | -0.25   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 111.4 ± 33.4 | 23.7      | 89.2         | -0.57   |
| Fluorene               | ng/l | 158 ± 9.33               | 155.7 ± 46.7 | 20.6      | 98.3         | -0.13   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 34.3 ± 15.4  | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 85.3 ± 25.6  | 21        | 97.3         | -0.11   |
| Phenanthrene           | ng/l | 274 ± 13.2               | 250.9 ± 75.3 | 41.1      | 91.5         | -0.56   |
| Pyrene                 | ng/l | 175 ± 13.6               | 150.6 ± 45.2 | 29.8      | 86           | -0.82   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 7.6 ± 2.3   | 1.98      | 72.9         | -1.42   |
| Acenaphthylene         | ng/l | - ± -                    | - ± -       | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30.9 ± 9.3  | 8         | 92.6         | -0.31   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9 ± 2.7     | 1.67      | 97.2         | -0.16   |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 6.2 ± 1.9   | 2.27      | 62.8         | -1.62   |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 5.5 ± 1.7   | 1.15      | 86.2         | -0.77   |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 14.1 ± 4.2  | 6.47      | 71.9         | -0.85   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 27.1 ± 8.1  | 9         | 81.3         | -0.69   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 33.8 ± 10.1 | 8.09      | 79.4         | -1.08   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 20.1 ± 8    | 7.37      | 77.1         | -0.81   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -       | 5.54      | -            | -       |
| Fluorene               | ng/l | 26.3 ± 2.42              | 23.6 ± 7.1  | 4.36      | 89.8         | -0.61   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 33.6 ± 15.1 | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 31.4 ± 9.4  | 10.2      | 73.7         | -1.10   |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 30.8 ± 9.2 | 7.48                   | 65      | -2.22 |
| Pyrene       | ng/l | 20.6 ± 0.83              | - ± -      | 3.51                   | -       | -     |



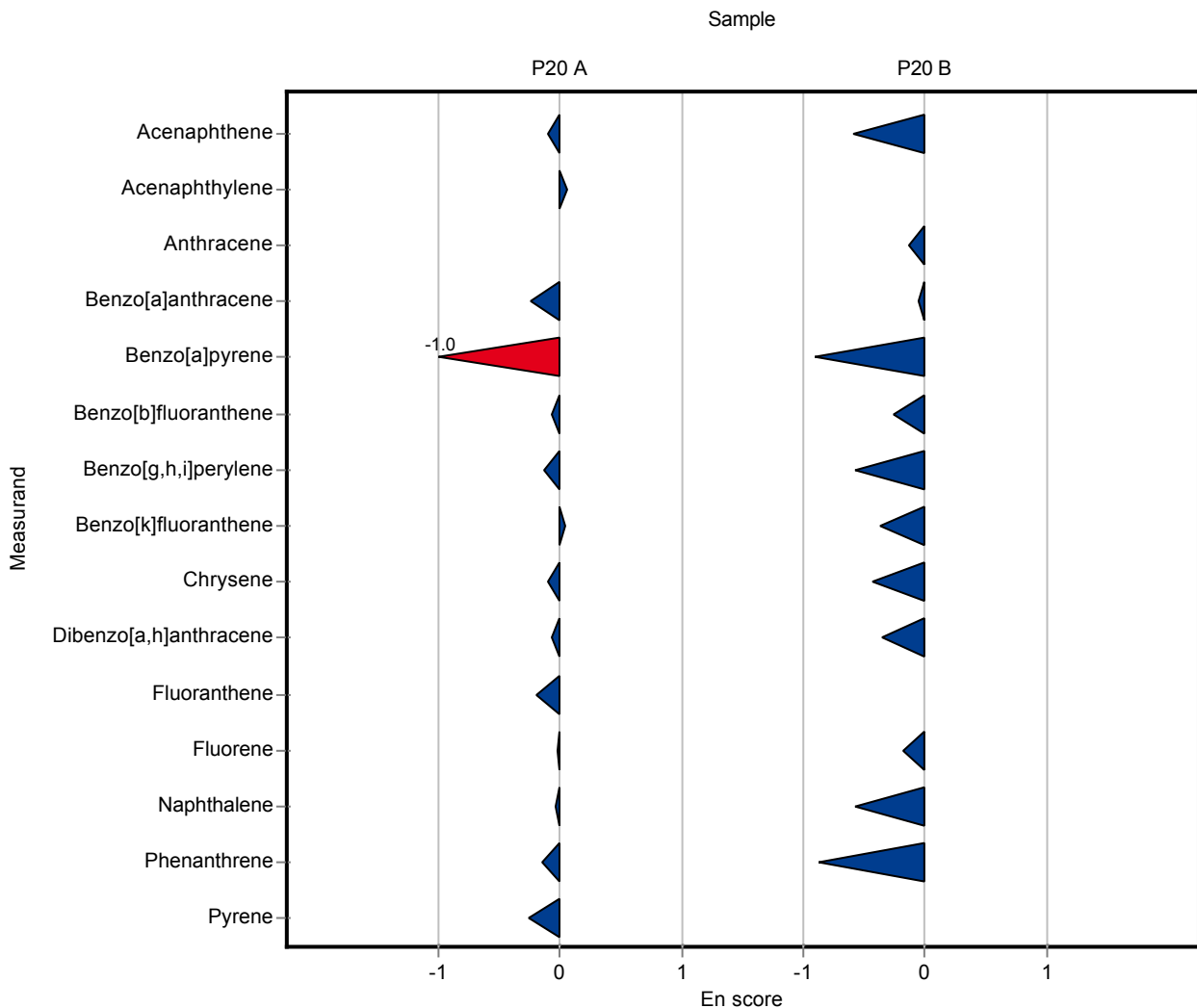
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 116.5 ± 35   | 27.5      | 93.7         | -0.11    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 251.4 ± 75.4 | 56.1      | 103          | 0.05     |
| Anthracene             | ng/l | - ± -                    | 37.3 ± 11.2  | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 35.4 ± 10.6  | 10.4      | 86.5         | -0.25    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 34.4 ± 10.3  | 13.3      | 59.7         | -1.02    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 176.8 ± 53.1 | 33.3      | 95.7         | -0.07    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 186.8 ± 56   | 45.4      | 92.1         | -0.14    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 208.8 ± 62.6 | 55.1      | 102          | 0.04     |
| Chrysene               | ng/l | 202 ± 12.8               | 189.6 ± 56.9 | 38.4      | 93.8         | -0.11    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 63.8 ± 25.5  | 13.2      | 95.1         | -0.06    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 111.4 ± 33.4 | 23.7      | 89.2         | -0.20    |
| Fluorene               | ng/l | 158 ± 9.33               | 155.7 ± 46.7 | 20.6      | 98.3         | -0.03    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 34.3 ± 15.4  | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 85.3 ± 25.6  | 21        | 97.3         | -0.05    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 250.9 ± 75.3 | 41.1      | 91.5         | -0.15    |
| Pyrene                 | ng/l | 175 ± 13.6               | 150.6 ± 45.2 | 29.8      | 86           | -0.27    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 7.6 ± 2.3   | 1.98      | 72.9         | -0.59    |
| Acenaphthylene         | ng/l | - ± -                    | - ± -       | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30.9 ± 9.3  | 8         | 92.6         | -0.13    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9 ± 2.7     | 1.67      | 97.2         | -0.05    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 6.2 ± 1.9   | 2.27      | 62.8         | -0.90    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 5.5 ± 1.7   | 1.15      | 86.2         | -0.26    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 14.1 ± 4.2  | 6.47      | 71.9         | -0.58    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 27.1 ± 8.1  | 9         | 81.3         | -0.38    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 33.8 ± 10.1 | 8.09      | 79.4         | -0.43    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 20.1 ± 8    | 7.37      | 77.1         | -0.36    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|-------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | - ± -       | 5.54               | -            |
| Fluorene               | ng/l | 26.3 ± 2.42              | 23.6 ± 7.1  | 4.36               | 89.8         |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | 33.6 ± 15.1 | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 31.4 ± 9.4  | 10.2               | 73.7         |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 30.8 ± 9.2  | 7.48               | 65           |
| Pyrene                 | ng/l | 20.6 ± 0.83              | - ± -       | 3.51               | -            |



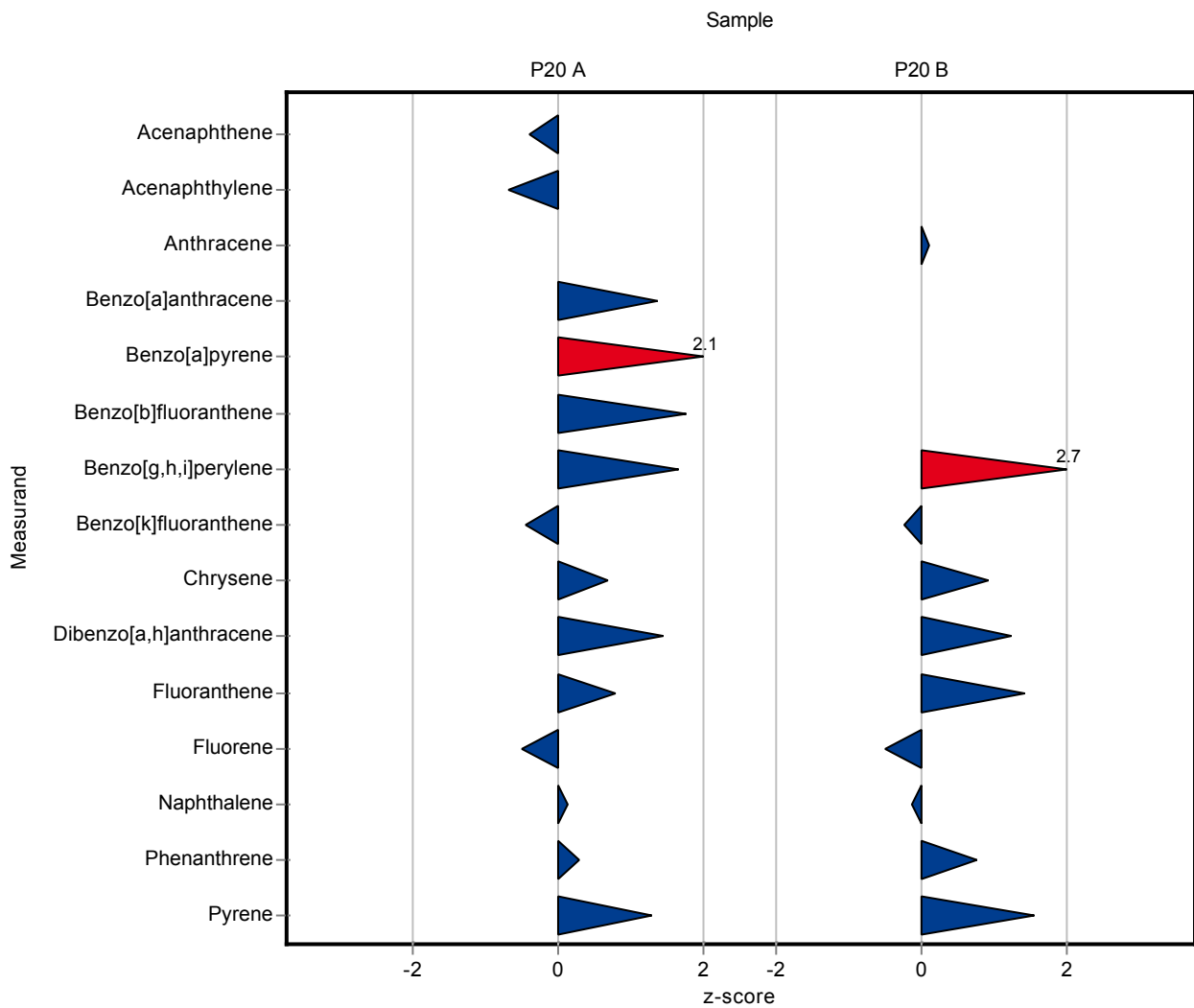
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 113 ± 35      | 27.5      | 90.8         | -0.41   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 205 ± 64      | 56.1      | 84           | -0.69   |
| Anthracene             | ng/l | - ± -                    | 57 ± 18       | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 55 ± 17       | 10.4      | 134          | 1.36    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 85 ± 26       | 13.3      | 147          | 2.07    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 243 ± 75      | 33.3      | 132          | 1.75    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 278 ± 86      | 45.4      | 137          | 1.65    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 179 ± 56      | 55.1      | 87.7         | -0.46   |
| Chrysene               | ng/l | 202 ± 12.8               | 228 ± 71      | 38.4      | 113          | 0.68    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 86 ± 27       | 13.2      | 128          | 1.44    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 143 ± 44      | 23.7      | 115          | 0.76    |
| Fluorene               | ng/l | 158 ± 9.33               | 148 ± 46      | 20.6      | 93.4         | -0.51   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 90 ± 28       | 21        | 103          | 0.11    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 286 ± 89      | 41.1      | 104          | 0.29    |
| Pyrene                 | ng/l | 175 ± 13.6               | 213 ± 66      | 29.8      | 122          | 1.27    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <20 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 34 ± 11       | 8         | 102          | 0.08    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <20 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 37 ± 11       | 6.47      | 189          | 2.69    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 31 ± 10       | 9         | 93           | -0.26   |
| Chrysene               | ng/l | 42.6 ± 3.58              | 50 ± 16       | 8.09      | 117          | 0.92    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 35 ± 11       | 7.37      | 134          | 1.21    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 37 ± 12       | 5.54      | 127          | 1.42    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 24 ± 7        | 4.36      | 91.3         | -0.52   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 41 ± 13       | 10.2      | 96.2         | -0.16   |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 53 ± 17    | 7.48                   | 112     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 26 ± 8     | 3.51                   | 126     |



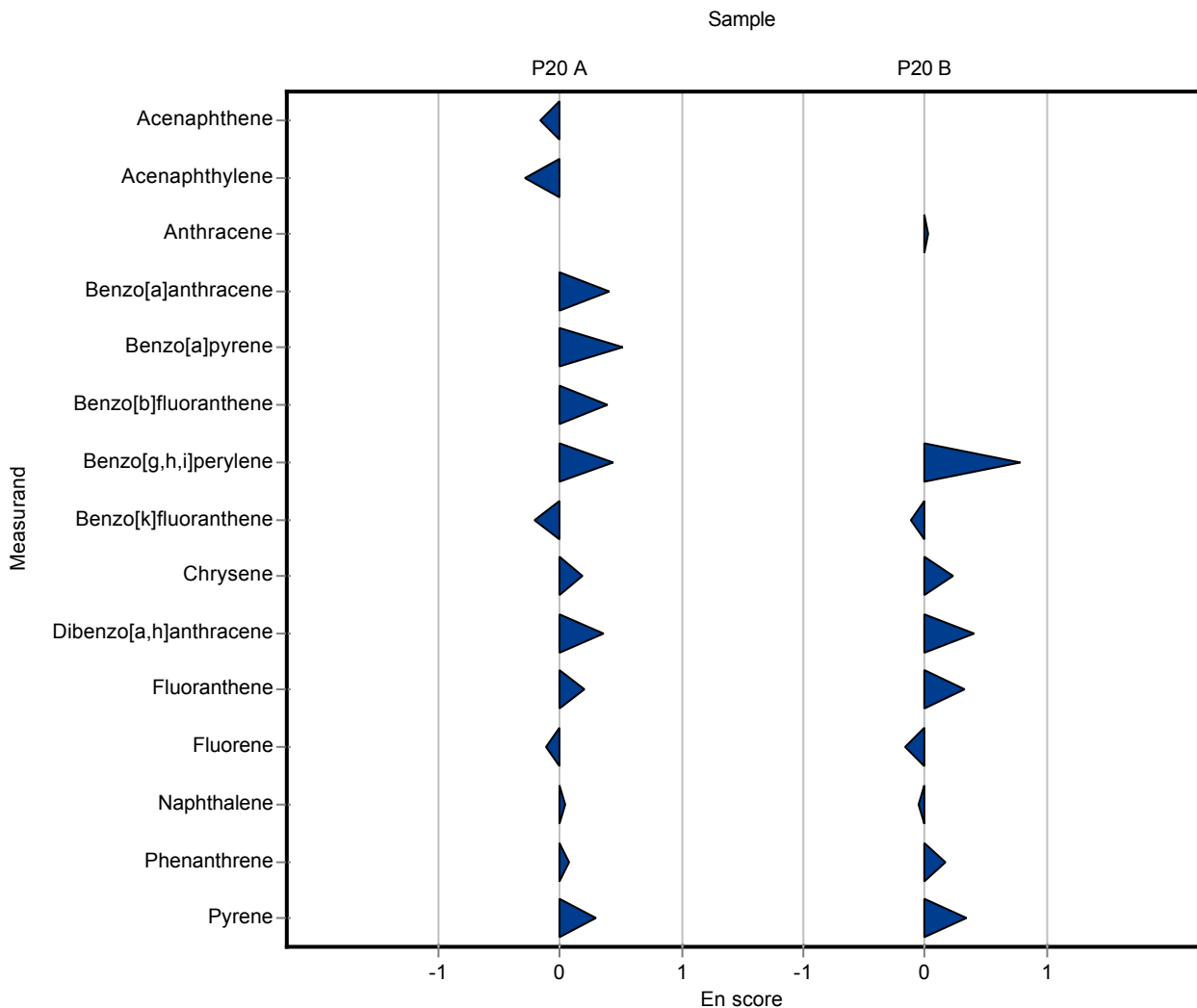
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 113 ± 35      | 27.5      | 90.8         | -0.16    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 205 ± 64      | 56.1      | 84           | -0.30    |
| Anthracene             | ng/l | - ± -                    | 57 ± 18       | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 55 ± 17       | 10.4      | 134          | 0.41     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 85 ± 26       | 13.3      | 147          | 0.52     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 243 ± 75      | 33.3      | 132          | 0.39     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 278 ± 86      | 45.4      | 137          | 0.43     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 179 ± 56      | 55.1      | 87.7         | -0.22    |
| Chrysene               | ng/l | 202 ± 12.8               | 228 ± 71      | 38.4      | 113          | 0.18     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 86 ± 27       | 13.2      | 128          | 0.35     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 143 ± 44      | 23.7      | 115          | 0.20     |
| Fluorene               | ng/l | 158 ± 9.33               | 148 ± 46      | 20.6      | 93.4         | -0.11    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 90 ± 28       | 21        | 103          | 0.04     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 286 ± 89      | 41.1      | 104          | 0.07     |
| Pyrene                 | ng/l | 175 ± 13.6               | 213 ± 66      | 29.8      | 122          | 0.29     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <20 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 34 ± 11       | 8         | 102          | 0.03     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <20 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 37 ± 11       | 6.47      | 189          | 0.78     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 31 ± 10       | 9         | 93           | -0.11    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 50 ± 16       | 8.09      | 117          | 0.23     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 35 ± 11       | 7.37      | 134          | 0.40     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 37 ± 12       | 5.54      | 127          | 0.33     |
| Fluorene               | ng/l | 26.3 ± 2.42              | 24 ± 7        | 4.36      | 91.3         | -0.16    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 41 ± 13       | 10.2      | 96.2         | -0.06    |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 53 ± 17       | 7.48      | 112          | 0.16     |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 26 ± 8        | 3.51      | 126          | 0.34     |





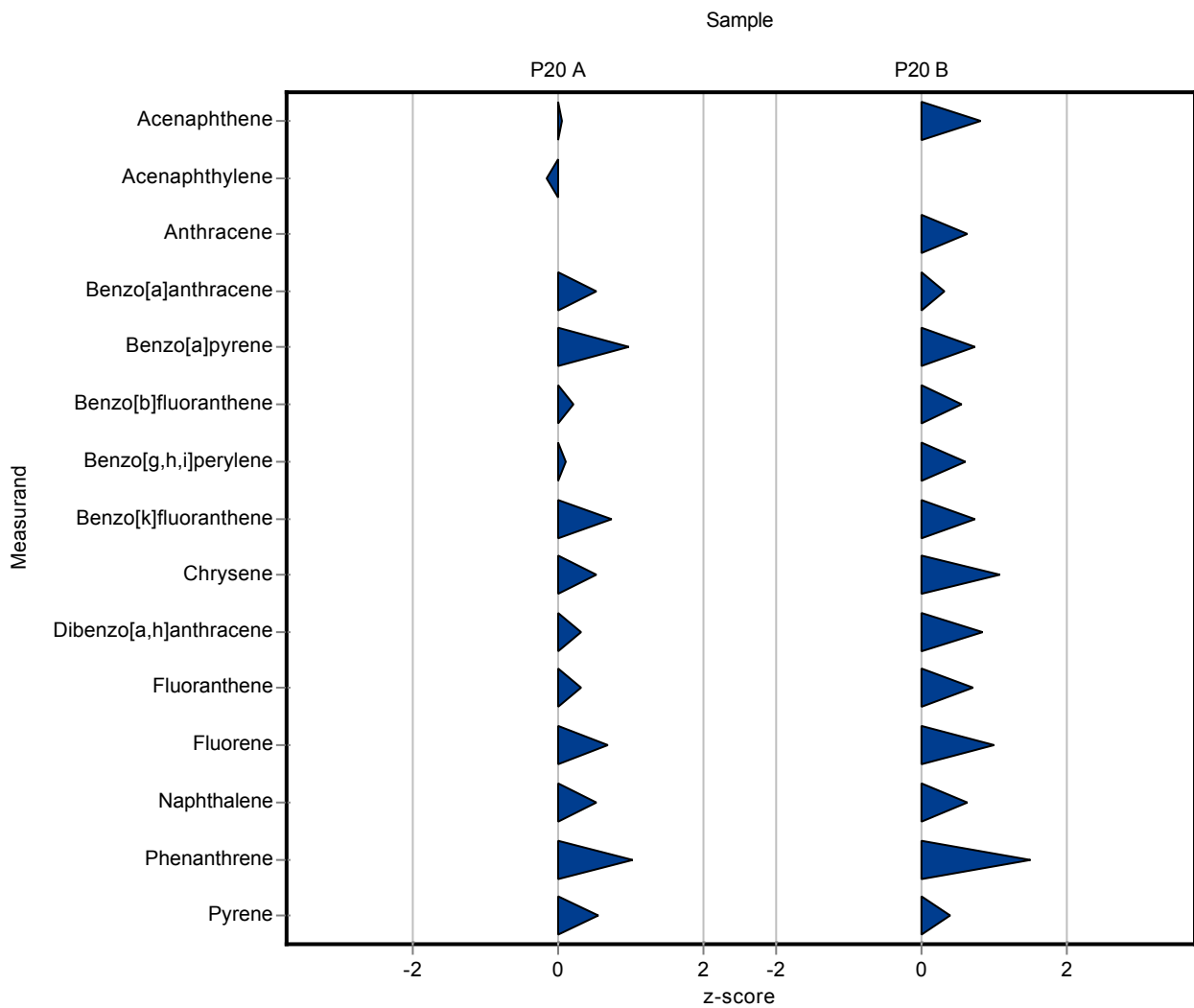
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 125.13 ± 12.51 | 27.5      | 101          | 0.03    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 234.5 ± 23.45  | 56.1      | 96.1         | -0.17   |
| Anthracene             | ng/l | - ± -                    | 72 ± 7.2       | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 46.13 ± 4.65   | 10.4      | 113          | 0.50    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 70.38 ± 7.1    | 13.3      | 122          | 0.96    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 191.25 ± 19.15 | 33.3      | 104          | 0.20    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 207.38 ± 20.75 | 45.4      | 102          | 0.10    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 243.5 ± 24.4   | 55.1      | 119          | 0.71    |
| Chrysene               | ng/l | 202 ± 12.8               | 222.25 ± 22.25 | 38.4      | 110          | 0.53    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 70.88 ± 7.1    | 13.2      | 106          | 0.29    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 132.25 ± 13.25 | 23.7      | 106          | 0.31    |
| Fluorene               | ng/l | 158 ± 9.33               | 172.25 ± 17.25 | 20.6      | 109          | 0.67    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± -   | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 98.63 ± 9.9    | 21        | 113          | 0.52    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 315.88 ± 31.6  | 41.1      | 115          | 1.02    |
| Pyrene                 | ng/l | 175 ± 13.6               | 191.38 ± 19.2  | 29.8      | 109          | 0.55    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 12 ± 1.2     | 1.98      | 115          | 0.80    |
| Acenaphthylene         | ng/l | - ± -                    | 14.5 ± 1.5   | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 38.25 ± 3.85 | 8         | 115          | 0.61    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.76 ± 0.98  | 1.67      | 105          | 0.30    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11.5 ± 1.15  | 2.27      | 117          | 0.72    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 7 ± 0.7      | 1.15      | 110          | 0.54    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 23.5 ± 2.35  | 6.47      | 120          | 0.60    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 39.75 ± 4    | 9         | 119          | 0.71    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 51.25 ± 5.15 | 8.09      | 120          | 1.07    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 32.13 ± 3.25 | 7.37      | 123          | 0.82    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 3.3     | 5.54      | 113          | 0.69    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30.63 ± 3.1  | 4.36      | 117          | 1.00    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 48.9 ± 4.9   | 10.2      | 115          | 0.62    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery | z-Score |
|--------------|------|--------------------------|-------------|--------------------|---------|
|              |      |                          |             | [%]                |         |
| Phenanthrene | ng/l | 47.4 ± 4                 | 58.5 ± 5.85 | 7.48               | 123     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 22 ± 2.2    | 3.51               | 107     |



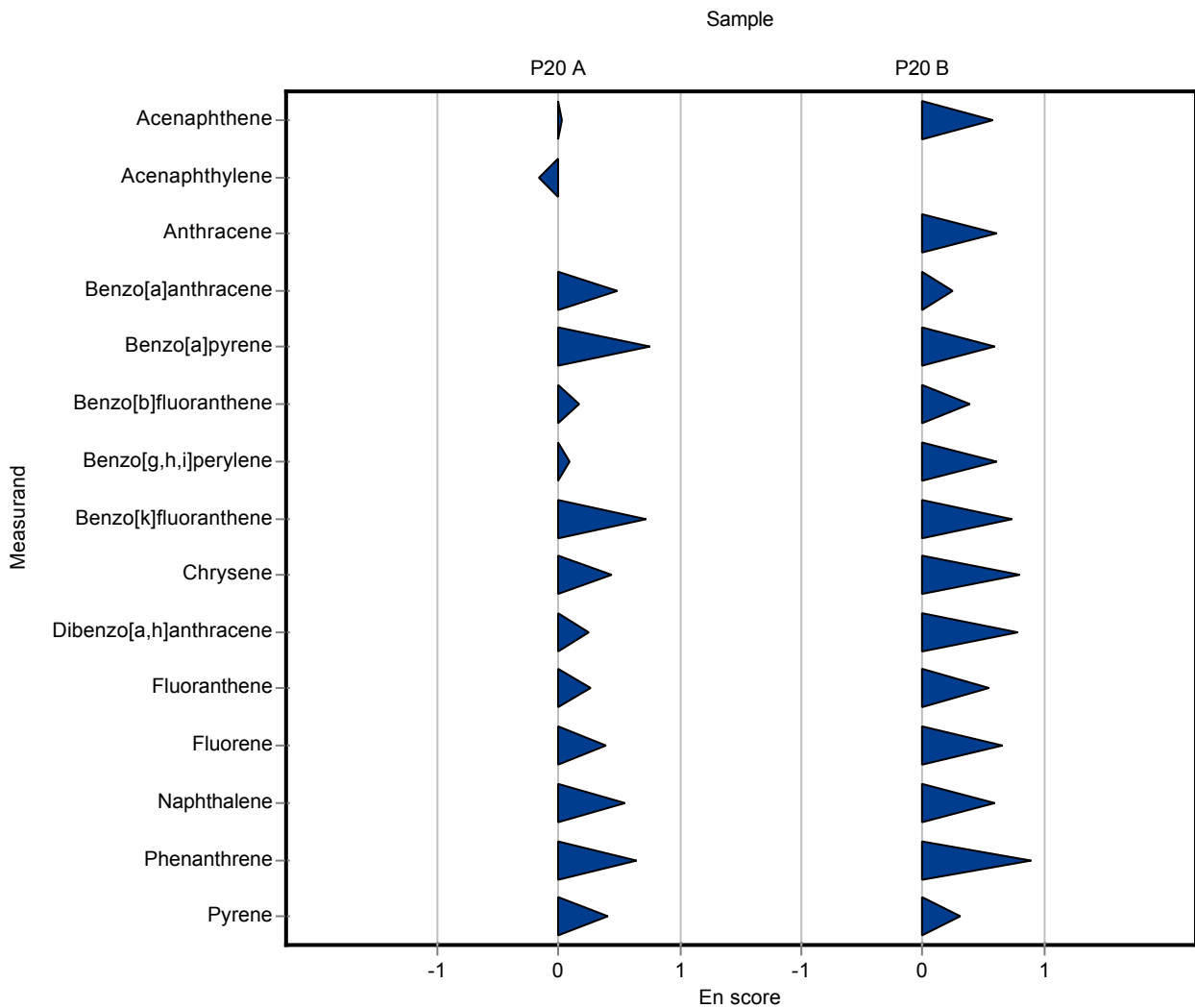
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U     | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 125.13 ± 12.51 | 27.5      | 101          | 0.03     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 234.5 ± 23.45  | 56.1      | 96.1         | -0.17    |
| Anthracene             | ng/l | - ± -                    | 72 ± 7.2       | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 46.13 ± 4.65   | 10.4      | 113          | 0.48     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 70.38 ± 7.1    | 13.3      | 122          | 0.74     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 191.25 ± 19.15 | 33.3      | 104          | 0.16     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 207.38 ± 20.75 | 45.4      | 102          | 0.09     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 243.5 ± 24.4   | 55.1      | 119          | 0.72     |
| Chrysene               | ng/l | 202 ± 12.8               | 222.25 ± 22.25 | 38.4      | 110          | 0.43     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 70.88 ± 7.1    | 13.2      | 106          | 0.24     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 132.25 ± 13.25 | 23.7      | 106          | 0.27     |
| Fluorene               | ng/l | 158 ± 9.33               | 172.25 ± 17.25 | 20.6      | 109          | 0.39     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± -   | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 98.63 ± 9.9    | 21        | 113          | 0.54     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 315.88 ± 31.6  | 41.1      | 115          | 0.65     |
| Pyrene                 | ng/l | 175 ± 13.6               | 191.38 ± 19.2  | 29.8      | 109          | 0.40     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 12 ± 1.2     | 1.98      | 115          | 0.57     |
| Acenaphthylene         | ng/l | - ± -                    | 14.5 ± 1.5   | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 38.25 ± 3.85 | 8         | 115          | 0.61     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 9.76 ± 0.98  | 1.67      | 105          | 0.24     |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11.5 ± 1.15  | 2.27      | 117          | 0.60     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 7 ± 0.7      | 1.15      | 110          | 0.39     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 23.5 ± 2.35  | 6.47      | 120          | 0.60     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 39.75 ± 4    | 9         | 119          | 0.73     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 51.25 ± 5.15 | 8.09      | 120          | 0.80     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 32.13 ± 3.25 | 7.37      | 123          | 0.79     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|--------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 3.3     | 5.54               | 113          |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30.63 ± 3.1  | 4.36               | 117          |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 48.9 ± 4.9   | 10.2               | 115          |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 58.5 ± 5.85  | 7.48               | 123          |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 22 ± 2.2     | 3.51               | 107          |



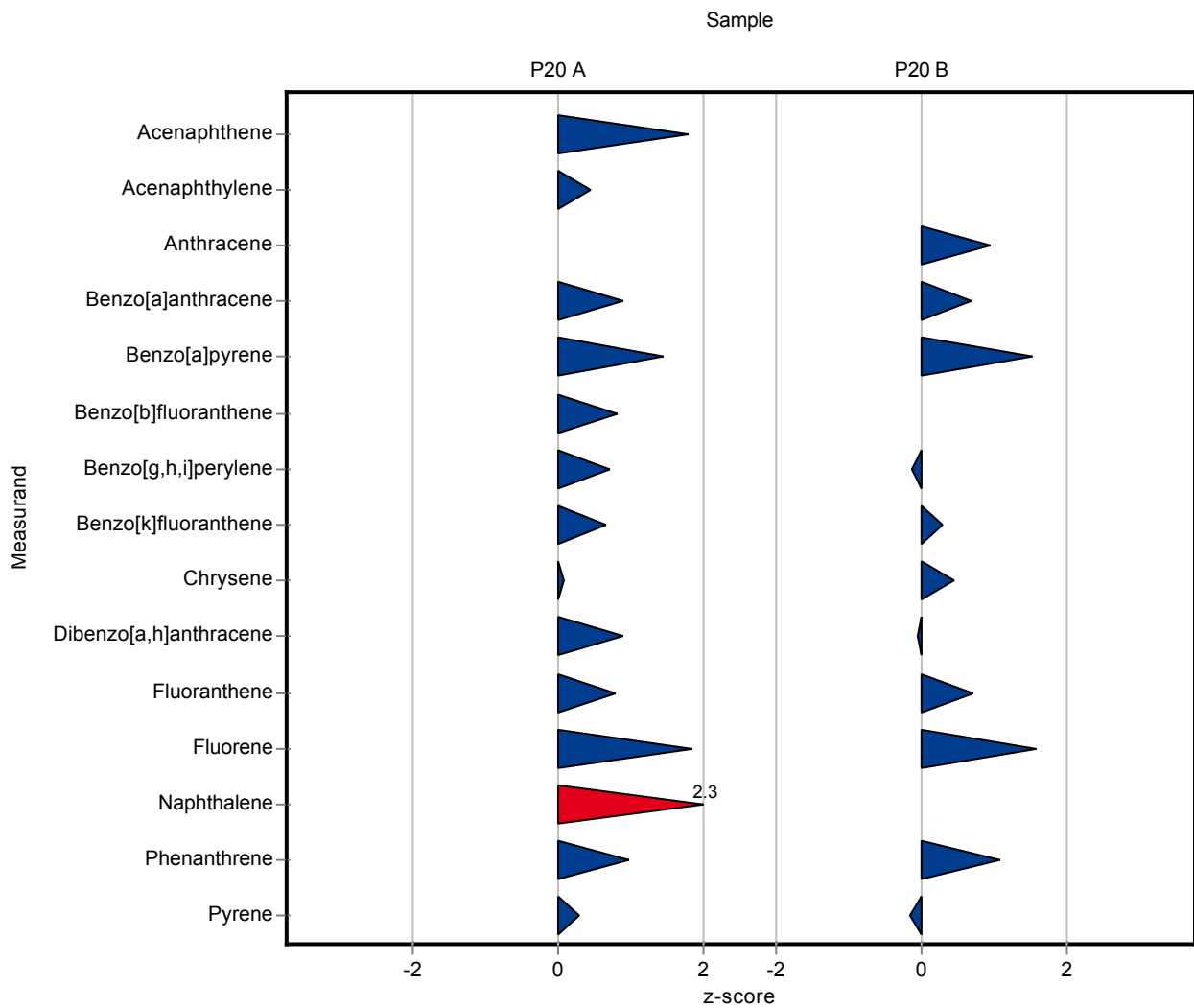
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 173 ± 25        | 27.5      | 139          | 1.77    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 269 ± 33.4      | 56.1      | 110          | 0.45    |
| Anthracene             | ng/l | - ± -                    | 72.2 ± 8.22     | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 50 ± 4.75       | 10.4      | 122          | 0.88    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 76.5 ± 7.96     | 13.3      | 133          | 1.42    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 211 ± 21.3      | 33.3      | 114          | 0.79    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 234 ± 25        | 45.4      | 115          | 0.69    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 239 ± 22.9      | 55.1      | 117          | 0.63    |
| Chrysene               | ng/l | 202 ± 12.8               | 205 ± 18.7      | 38.4      | 101          | 0.08    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 78.8 ± 10.3     | 13.2      | 118          | 0.89    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 143 ± 13.6      | 23.7      | 115          | 0.76    |
| Fluorene               | ng/l | 158 ± 9.33               | 196 ± 28.9      | 20.6      | 124          | 1.82    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <7.22 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 136 ± 18.4      | 21        | 155          | 2.30    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 314 ± 59.4      | 41.1      | 115          | 0.97    |
| Pyrene                 | ng/l | 175 ± 13.6               | 183 ± 23.3      | 29.8      | 105          | 0.27    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <66.9 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | <161 (LOQ) ± -  | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 40.8 ± 4.64     | 8         | 122          | 0.93    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10.4 ± 0.992    | 1.67      | 112          | 0.68    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 13.3 ± 1.38     | 2.27      | 135          | 1.51    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <16.8 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 18.7 ± 2        | 6.47      | 95.4         | -0.14   |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 35.7 ± 3.42     | 9         | 107          | 0.27    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46 ± 4.19       | 8.09      | 108          | 0.42    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 25.6 ± 3.35     | 7.37      | 98.2         | -0.07   |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 3.14       | 5.54      | 113          | 0.69    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 33.1 ± 4.9      | 4.36      | 126          | 1.56    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <7.22 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | <68.2 (LOQ) ± - | 10.2      | -            | -       |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U  | Criterion Recovery [%] | z-Score |
|--------------|------|--------------------------|-------------|------------------------|---------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 55.3 ± 10.4 | 7.48                   | 117     |
| Pyrene       | ng/l | 20.6 ± 0.83              | 20 ± 2.55   | 3.51                   | 96.9    |



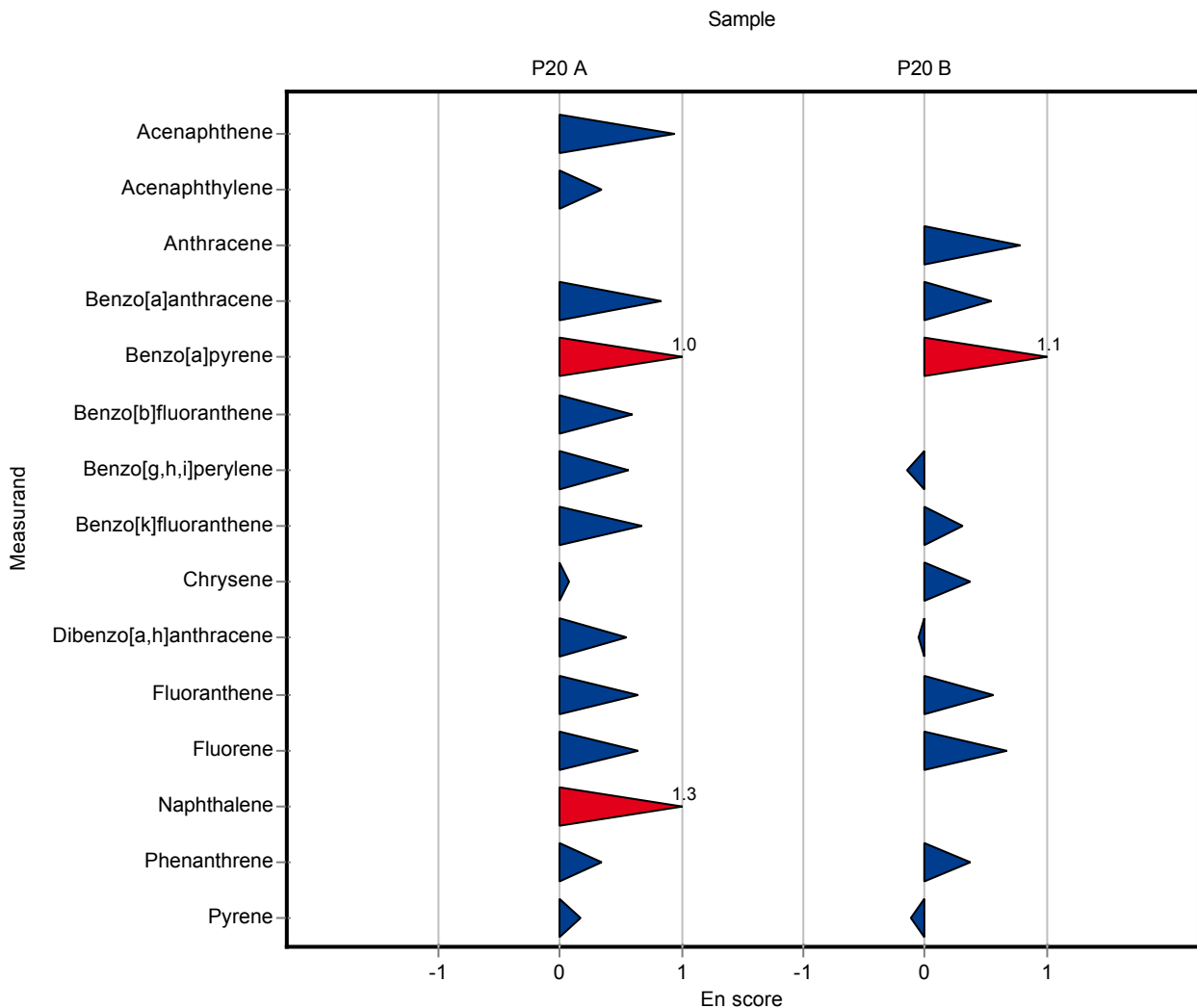
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 173 ± 25        | 27.5      | 139          | 0.94     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 269 ± 33.4      | 56.1      | 110          | 0.34     |
| Anthracene             | ng/l | - ± -                    | 72.2 ± 8.22     | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 50 ± 4.75       | 10.4      | 122          | 0.83     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 76.5 ± 7.96     | 13.3      | 133          | 1.02     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 211 ± 21.3      | 33.3      | 114          | 0.59     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 234 ± 25        | 45.4      | 115          | 0.56     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 239 ± 22.9      | 55.1      | 117          | 0.67     |
| Chrysene               | ng/l | 202 ± 12.8               | 205 ± 18.7      | 38.4      | 101          | 0.07     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 78.8 ± 10.3     | 13.2      | 118          | 0.54     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 143 ± 13.6      | 23.7      | 115          | 0.64     |
| Fluorene               | ng/l | 158 ± 9.33               | 196 ± 28.9      | 20.6      | 124          | 0.64     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <7.22 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 136 ± 18.4      | 21        | 155          | 1.30     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 314 ± 59.4      | 41.1      | 115          | 0.33     |
| Pyrene                 | ng/l | 175 ± 13.6               | 183 ± 23.3      | 29.8      | 105          | 0.16     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|-----------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <66.9 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | <161 (LOQ) ± -  | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 40.8 ± 4.64     | 8         | 122          | 0.78     |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10.4 ± 0.992    | 1.67      | 112          | 0.54     |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 13.3 ± 1.38     | 2.27      | 135          | 1.10     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <16.8 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 18.7 ± 2        | 6.47      | 95.4         | -0.15    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 35.7 ± 3.42     | 9         | 107          | 0.31     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46 ± 4.19       | 8.09      | 108          | 0.38     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 25.6 ± 3.35     | 7.37      | 98.2         | -0.06    |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U      | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|-----------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 33 ± 3.14       | 5.54               | 113          |
| Fluorene               | ng/l | 26.3 ± 2.42              | 33.1 ± 4.9      | 4.36               | 126          |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <7.22 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | <68.2 (LOQ) ± - | 10.2               | -            |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 55.3 ± 10.4     | 7.48               | 117          |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 20 ± 2.55       | 3.51               | 96.9         |





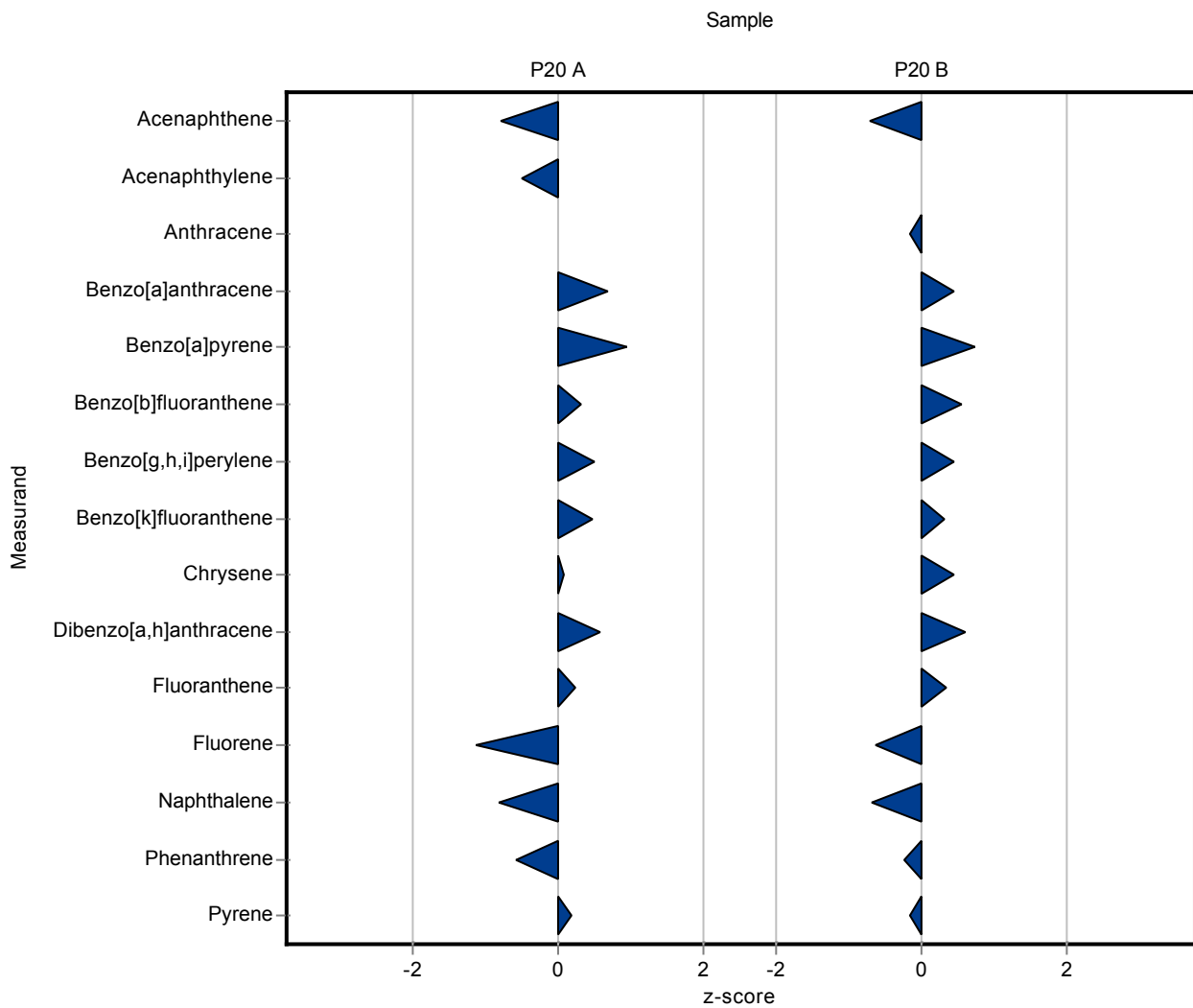
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 102 ± 10     | 27.5      | 82           | -0.81   |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 215 ± 21     | 56.1      | 88.1         | -0.52   |
| Anthracene             | ng/l | - ± -                    | 59 ± 6       | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 48 ± 5       | 10.4      | 117          | 0.68    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 70 ± 7       | 13.3      | 121          | 0.93    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 195 ± 20     | 33.3      | 106          | 0.31    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 225 ± 22     | 45.4      | 111          | 0.49    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 230 ± 23     | 55.1      | 113          | 0.47    |
| Chrysene               | ng/l | 202 ± 12.8               | 205 ± 20     | 38.4      | 101          | 0.08    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 74.5 ± 7     | 13.2      | 111          | 0.56    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 130 ± 13     | 23.7      | 104          | 0.22    |
| Fluorene               | ng/l | 158 ± 9.33               | 135 ± 13     | 20.6      | 85.2         | -1.14   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 70 ± 7       | 21        | 79.9         | -0.84   |
| Phenanthrene           | ng/l | 274 ± 13.2               | 250 ± 25     | 41.1      | 91.2         | -0.59   |
| Pyrene                 | ng/l | 175 ± 13.6               | 180 ± 18     | 29.8      | 103          | 0.17    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 9 ± 0.9      | 1.98      | 86.4         | -0.72   |
| Acenaphthylene         | ng/l | - ± -                    | 71 ± 7       | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 32 ± 3       | 8         | 95.9         | -0.17   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10 ± 1       | 1.67      | 108          | 0.44    |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11.5 ± 1     | 2.27      | 117          | 0.72    |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 7 ± 0.7      | 1.15      | 110          | 0.54    |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 22.5 ± 2     | 6.47      | 115          | 0.45    |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 36 ± 3.5     | 9         | 108          | 0.30    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46 ± 4.6     | 8.09      | 108          | 0.42    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 30.5 ± 3     | 7.37      | 117          | 0.60    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 31 ± 3       | 5.54      | 106          | 0.33    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 23.5 ± 2.4   | 4.36      | 89.4         | -0.64   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 35.5 ± 3.5   | 10.2      | 83.3         | -0.69   |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 45.5 ± 4.5 | 7.48                   | 96      | -0.25 |
| Pyrene       | ng/l | 20.6 ± 0.83              | 20 ± 2     | 3.51                   | 96.9    | -0.18 |



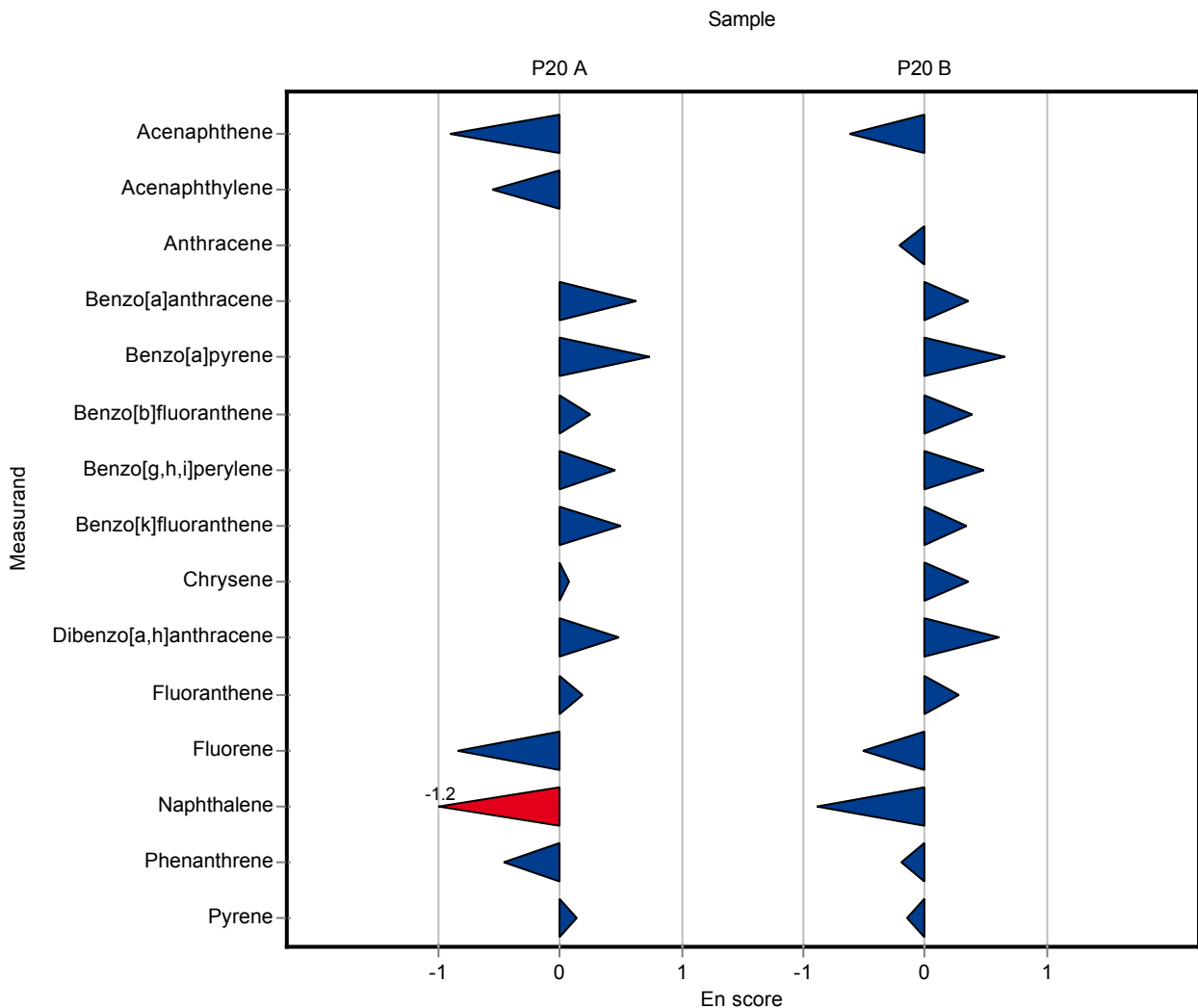
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|--------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 102 ± 10     | 27.5      | 82           | -0.91    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 215 ± 21     | 56.1      | 88.1         | -0.56    |
| Anthracene             | ng/l | - ± -                    | 59 ± 6       | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 48 ± 5       | 10.4      | 117          | 0.62     |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 70 ± 7       | 13.3      | 121          | 0.73     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 195 ± 20     | 33.3      | 106          | 0.24     |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 225 ± 22     | 45.4      | 111          | 0.44     |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 230 ± 23     | 55.1      | 113          | 0.49     |
| Chrysene               | ng/l | 202 ± 12.8               | 205 ± 20     | 38.4      | 101          | 0.07     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 74.5 ± 7     | 13.2      | 111          | 0.47     |
| Fluoranthene           | ng/l | 125 ± 8.6                | 130 ± 13     | 23.7      | 104          | 0.19     |
| Fluorene               | ng/l | 158 ± 9.33               | 135 ± 13     | 20.6      | 85.2         | -0.85    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 70 ± 7       | 21        | 79.9         | -1.19    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 250 ± 25     | 41.1      | 91.2         | -0.47    |
| Pyrene                 | ng/l | 175 ± 13.6               | 180 ± 18     | 29.8      | 103          | 0.13     |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | 9 ± 0.9    | 1.98      | 86.4         | -0.63    |
| Acenaphthylene         | ng/l | - ± -                    | 71 ± 7     | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 32 ± 3     | 8         | 95.9         | -0.21    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | 10 ± 1     | 1.67      | 108          | 0.35     |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | 11.5 ± 1   | 2.27      | 117          | 0.66     |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | 7 ± 0.7    | 1.15      | 110          | 0.39     |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | 22.5 ± 2   | 6.47      | 115          | 0.49     |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 36 ± 3.5   | 9         | 108          | 0.34     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 46 ± 4.6   | 8.09      | 108          | 0.35     |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 30.5 ± 3   | 7.37      | 117          | 0.61     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U   | Criterion Recovery | En-Score [%] |
|------------------------|------|--------------------------|--------------|--------------------|--------------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 31 ± 3       | 5.54               | 106          |
| Fluorene               | ng/l | 26.3 ± 2.42              | 23.5 ± 2.4   | 4.36               | 89.4         |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <5 (LOQ) ± - | -                  | -            |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 35.5 ± 3.5   | 10.2               | 83.3         |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 45.5 ± 4.5   | 7.48               | 96           |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 20 ± 2       | 3.51               | 96.9         |



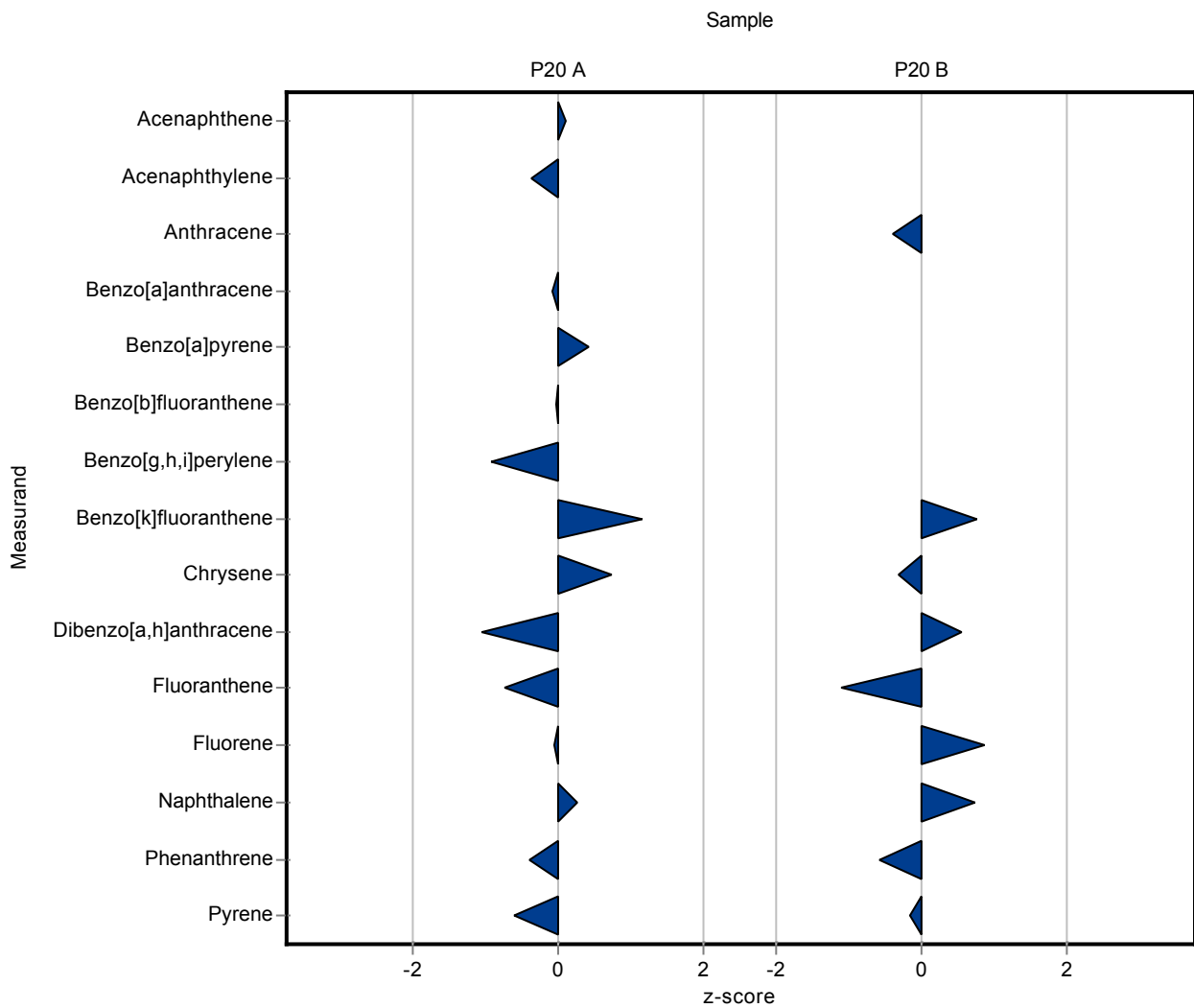
Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 127 ± 38      | 27.5      | 102          | 0.09    |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 223 ± 67      | 56.1      | 91.4         | -0.37   |
| Anthracene             | ng/l | - ± -                    | 60 ± 18       | -         | -            | -       |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 40 ± 12       | 10.4      | 97.8         | -0.09   |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 63 ± 19       | 13.3      | 109          | 0.41    |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 183 ± 55      | 33.3      | 99.1         | -0.05   |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 160 ± 48      | 45.4      | 78.9         | -0.94   |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 267 ± 80      | 55.1      | 131          | 1.14    |
| Chrysene               | ng/l | 202 ± 12.8               | 230 ± 69      | 38.4      | 114          | 0.73    |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 53 ± 16       | 13.2      | 79           | -1.07   |
| Fluoranthene           | ng/l | 125 ± 8.6                | 107 ± 32      | 23.7      | 85.7         | -0.75   |
| Fluorene               | ng/l | 158 ± 9.33               | 157 ± 47      | 20.6      | 99.1         | -0.07   |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 93 ± 28       | 21        | 106          | 0.26    |
| Phenanthrene           | ng/l | 274 ± 13.2               | 257 ± 77      | 41.1      | 93.8         | -0.42   |
| Pyrene                 | ng/l | 175 ± 13.6               | 157 ± 47      | 29.8      | 89.7         | -0.61   |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | z-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|---------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <20 (LOQ) ± - | 1.98      | -            | -       |
| Acenaphthylene         | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 9        | 8         | 90           | -0.42   |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <20 (LOQ) ± - | 1.67      | -            | -       |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -       |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -       |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <20 (LOQ) ± - | 6.47      | -            | -       |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 40 ± 12       | 9         | 120          | 0.74    |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40 ± 12       | 8.09      | 94           | -0.32   |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 30 ± 9        | 7.37      | 115          | 0.53    |
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 23 ± 7        | 5.54      | 78.9         | -1.11   |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30 ± 9        | 4.36      | 114          | 0.85    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -       |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 50 ± 15       | 10.2      | 117          | 0.72    |

| Parameter    | Unit | Assigned value ± U (k=2) | Result ± U | Criterion Recovery [%] | z-Score |       |
|--------------|------|--------------------------|------------|------------------------|---------|-------|
| Phenanthrene | ng/l | 47.4 ± 4                 | 43 ± 13    | 7.48                   | 90.7    | -0.59 |
| Pyrene       | ng/l | 20.6 ± 0.83              | 20 ± 6     | 3.51                   | 96.9    | -0.18 |



Sample: P20A

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 124 ± 14.2               | 127 ± 38      | 27.5      | 102          | 0.03     |
| Acenaphthylene         | ng/l | 244 ± 30.9               | 223 ± 67      | 56.1      | 91.4         | -0.15    |
| Anthracene             | ng/l | - ± -                    | 60 ± 18       | -         | -            | -        |
| Benzo[a]anthracene     | ng/l | 40.9 ± 5.55              | 40 ± 12       | 10.4      | 97.8         | -0.04    |
| Benzo[a]pyrene         | ng/l | 57.6 ± 9.56              | 63 ± 19       | 13.3      | 109          | 0.14     |
| Benzo[b]fluoranthene   | ng/l | 185 ± 12.1               | 183 ± 55      | 33.3      | 99.1         | -0.02    |
| Benzo[g,h,i]perylene   | ng/l | 203 ± 23.4               | 160 ± 48      | 45.4      | 78.9         | -0.43    |
| Benzo[k]fluoranthene   | ng/l | 204 ± 25.3               | 267 ± 80      | 55.1      | 131          | 0.39     |
| Chrysene               | ng/l | 202 ± 12.8               | 230 ± 69      | 38.4      | 114          | 0.20     |
| Dibenzo[a,h]anthracene | ng/l | 67.1 ± 7.04              | 53 ± 16       | 13.2      | 79           | -0.43    |
| Fluoranthene           | ng/l | 125 ± 8.6                | 107 ± 32      | 23.7      | 85.7         | -0.28    |
| Fluorene               | ng/l | 158 ± 9.33               | 157 ± 47      | 20.6      | 99.1         | -0.02    |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 87.6 ± 4.77              | 93 ± 28       | 21        | 106          | 0.10     |
| Phenanthrene           | ng/l | 274 ± 13.2               | 257 ± 77      | 41.1      | 93.8         | -0.11    |
| Pyrene                 | ng/l | 175 ± 13.6               | 157 ± 47      | 29.8      | 89.7         | -0.19    |

Sample: P20B

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Acenaphthene           | ng/l | 10.4 ± 1.38              | <20 (LOQ) ± - | 1.98      | -            | -        |
| Acenaphthylene         | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Anthracene             | ng/l | 33.4 ± 2.14              | 30 ± 9        | 8         | 90           | -0.18    |
| Benzo[a]anthracene     | ng/l | 9.26 ± 0.668             | <20 (LOQ) ± - | 1.67      | -            | -        |
| Benzo[a]pyrene         | ng/l | 9.87 ± 1.48              | <20 (LOQ) ± - | 2.27      | -            | -        |
| Benzo[b]fluoranthene   | ng/l | 6.38 ± 0.696             | <20 (LOQ) ± - | 1.15      | -            | -        |
| Benzo[g,h,i]perylene   | ng/l | 19.6 ± 4.4               | <20 (LOQ) ± - | 6.47      | -            | -        |
| Benzo[k]fluoranthene   | ng/l | 33.3 ± 3.57              | 40 ± 12       | 9         | 120          | 0.28     |
| Chrysene               | ng/l | 42.6 ± 3.58              | 40 ± 12       | 8.09      | 94           | -0.11    |
| Dibenzo[a,h]anthracene | ng/l | 26.1 ± 4.09              | 30 ± 9        | 7.37      | 115          | 0.21     |

| Parameter              | Unit | Assigned value ± U (k=2) | Result ± U    | Criterion | Recovery [%] | En-Score |
|------------------------|------|--------------------------|---------------|-----------|--------------|----------|
| Fluoranthene           | ng/l | 29.2 ± 2.5               | 23 ± 7        | 5.54      | 78.9         | -0.43    |
| Fluorene               | ng/l | 26.3 ± 2.42              | 30 ± 9        | 4.36      | 114          | 0.20     |
| Indeno[1,2,3-cd]pyrene | ng/l | - ± -                    | <20 (LOQ) ± - | -         | -            | -        |
| Naphthalene            | ng/l | 42.6 ± 3.86              | 50 ± 15       | 10.2      | 117          | 0.24     |
| Phenanthrene           | ng/l | 47.4 ± 4                 | 43 ± 13       | 7.48      | 90.7         | -0.17    |
| Pyrene                 | ng/l | 20.6 ± 0.83              | 20 ± 6        | 3.51      | 96.9         | -0.05    |

