

**Proficiency Testing Scheme für die  
Wasseranalytik - Realproben  
P21 Polyzyklische Aromatische  
Kohlenwasserstoffe (PAK)**

**Proficiency Testing Scheme for Water  
Analysis - natural water samples  
P21 Polycyclic aromatic hydrocarbons (PAH)**

**BERICHT / REPORT**

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## **D1. Beschreibung des Ringversuchs**

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

- Anzahl der Anmeldungen: 31
- Anzahl der übermittelten Datensätze: 31
- Probenversand: 10.11.2020
- Einsendeschluss der Daten: 08.12.2020

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 Trinkwasser erfolgte am 09.11.2020 und die Probenahme von Grundwasser erfolgte am 05.11.2020. Das Probenmaterial umfasste:

- 1 Probe Trinkwasser (P21 A)
- 1 Probe Grundwasser (P21 B)

Alle Proben wurden bis zur weiteren Verarbeitung gekühlt gelagert (4 +/-3°C).

Das Abfüllen der Proben erfolgte nach Filtration (40 µm) unter ständigem Rühren (Rührkessel). Anschließend wurden die Proben in den Flaschen mit einzelnen Substanzen dotiert und durch Schütteln homogenisiert. Die Stabilisierung erfolgte durch Kühlung.

Die homogenen Prüfgegenstände wurden am 10.11.2020 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je ca. 2000 ml, abgefüllt in je 2 x 1000 ml Braunglasflaschen

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

Aus Stabilitätsgründen wurde empfohlen bis spätestens 12.11.2020 mit den Analysen zu beginnen.

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

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

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

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

Die Bestimmung aller Parameter erfolgte in der Prüfstelle am Umweltbundesamt (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik, akkreditiert nach EN ISO/IEC 17025 für die o.a. Parameter) zeitnah zum Probenversand.

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

Die Ergebnisse der Kontrollanalytik sind in der parameterorientierten Auswertung (E.7.) in Form von Mittelwerten  $\pm$  Messunsicherheit als Kontrollwert (control test value)  $\pm$  U gelistet (jeweils angegeben als erweiterte Messunsicherheit, k=2).

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

Die Bewertung der Stabilität der Prüfgegenstände (Realproben) erfolgte auf Basis der Datenstatistik aus den vergangenen Runden für Realproben im Zeitraum 2013 bis 2019.

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 08.12.2020 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 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 % oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmer auf den Mittelwert des Kontrolllabores bzw. einer zu geringen Anzahl an ausreißerbereinigten Ergebnissen über die Gruppe der akkreditierten Labore, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der 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:

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

Dabei ist:

$x_i$	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert 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 im Zeitraum 2013 bis 2019 (RSDpooled) bzw. aus den ausreißerbereinigten Teilnehmerergebnissen (sR) des aktuellen Ringversuchs (falls noch weniger als 6 vorangegangene Runden für A und B-Proben vorlagen). In begründeten Fällen (z.B. Ergebnisse Realproben nahe an Mindestbestimmungsgrenze oder regulatorischer Vorgaben ) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

### D2.2. Leistungskriterium E<sub>n</sub>-Score

Für die realen Wasserproben erfolgen seit 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 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), $k=2$
$U(\bar{X})$	erweiterte Messunsicherheit des zugewiesenen Wertes, $k=2$

### D2.3. Leistungsbewertung z-Score und E<sub>n</sub>-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<sub>n</sub>-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<sub>n</sub>-Score erfolgt die Berücksichtigung der erweiterten Messunsicherheiten der Teilnehmer und des zugewiesenen Wertes.  $|E_n\text{-Score}| > 1.0$  können darauf hinweisen, dass die Unsicherheitsschätzungen überprüft oder ein Messproblem korrigiert werden muss.

## D3. Darstellung und Interpretation der Messergebnisse

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

In der labororientierten Auswertung werden pro Labor in anonymisierter Form die Ergebnisse der einzelnen Labore als Messergebnis  $\pm U$  sowie die Wiederfindungen

und die ermittelten z-Scores bezugnehmend auf das Kriterium dargestellt. Weiters werden die  $E_n$ -Scores unter Berücksichtigung der erweiterten Unsicherheiten in unabhängigen Tabellen ausgegeben. Die labororientierten Auswertungen enthalten jeweils die Bewertungsgrundlagen wie zugewiesener Wert samt erweiterter Messunsicherheit sowie das Kriterium.

Eine Erläuterung zu den Tabellen und Grafiken kann Punkt D.5. 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.

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

Als Ergebnis einer Langzeitauswertung über aktuell 7 Eignungsprüfungsrunden (2013 - 2019) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Dibenzo(a,h)anthracen Probe P21 B: Die relative Vergleichsstandardabweichung lag hier über 50 %. Für die Bewertung wurde das RSDpooled als Kriterium gewählt.

Parameter Benzo(a)pyren Probe P21 A und Parameter Naphthalin, Phenanthren, Anthracen, Fluoranthren und Pyren Probe P21 B: Die auf Basis der Teilnehmerergebnisse berechneten Sollwerte lagen außerhalb der Messunsicherheit des Kontrollwertes und es ist über das Kontrolllabor keine Rückführbarkeit möglich. Der zugewiesene Wert wurde daher über die ausreißerbereinigten Mittelwerte aus der Gruppe der akkreditierten Teilnehmer berechnet.

Parameter Phenanthren, Anthracen und Fluoranthren Probe P21 B: Hier wurden die relativen Vergleichsstandardabweichungen über die Gruppe der akkreditierten Teilnehmer nach Ausreißerbereinigung als Kriterium 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).
	Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmer.
± U	kombinierte Messunsicherheit ohne Erweiterungsfaktor (k=1) 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). 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 Bestimmungsgrenze dessen Betrag die Bedingungen eines Ausreißers nach dem Hampeltest erfüllt.
FP	Falsch positiv – Falls aufgrund des geringen Analytgehalts kein zugewiesener Wert ermittelt werden kann (n < 6), wird der Median der Beträge der übermittelten Nachweis- bzw. Bestimmungsgrenzen ermittelt. Als falsch positiv wird ein Messergebnis bewertet, welches diesen Median um mehr als 100 % übersteigt.
Standardabweichung	Vergleichsstandardabweichung berechnet aus den Teilnehmerergebnissen des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)

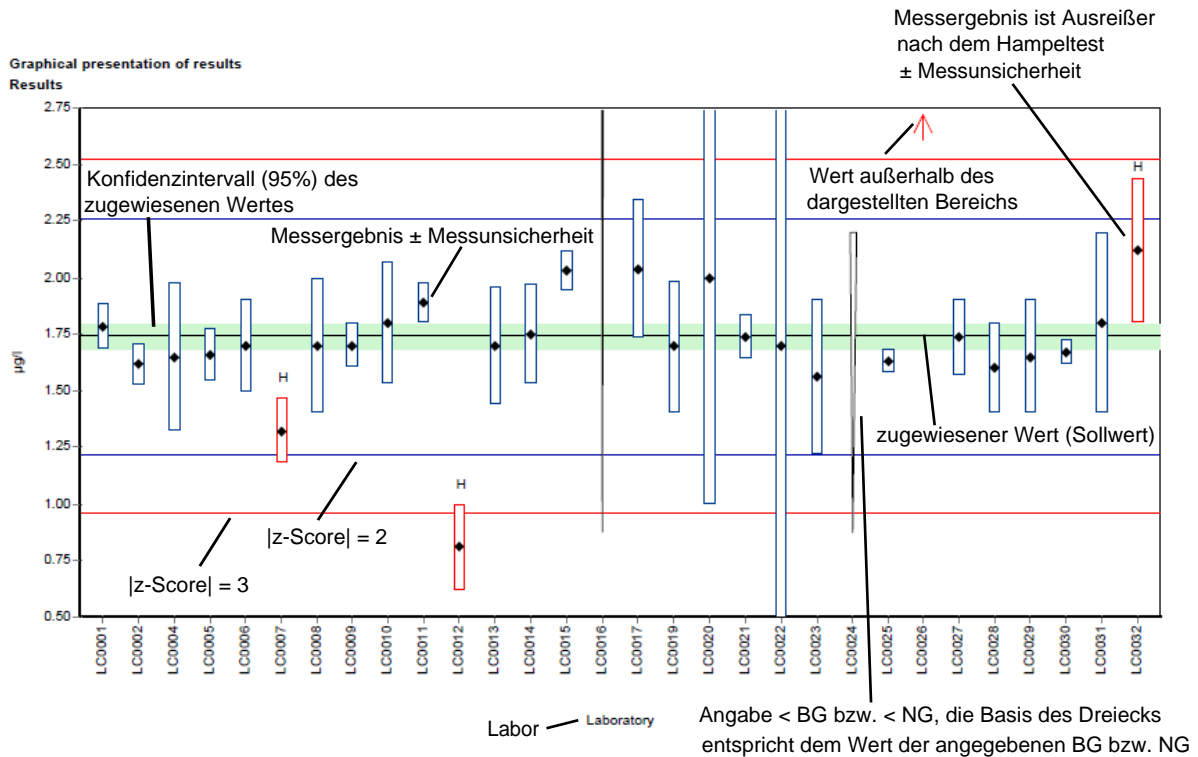
rel. Standardabweichung relative Vergleichsstandardabweichung in %, berechnet aus den Teilnehmerergebnissen des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)

n Anzahl der Messergebnisse

## D5.2. Graphische Darstellung der Ergebnisse

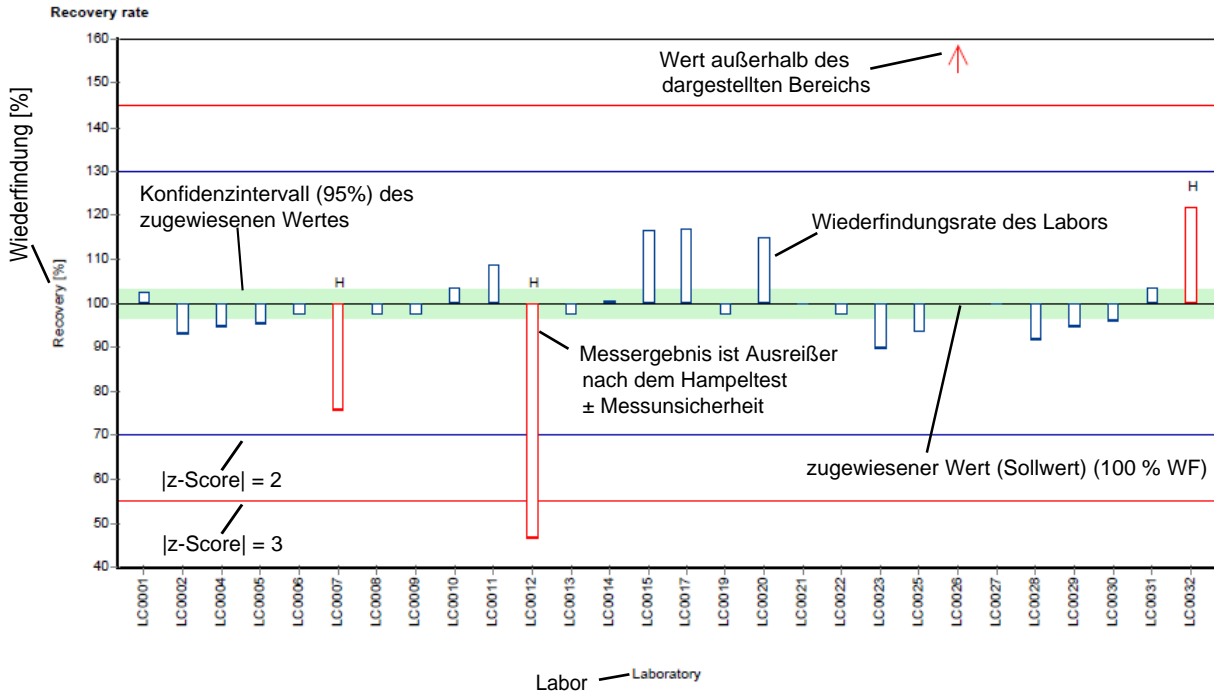
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

### Beispieldiagramm: Messwerte



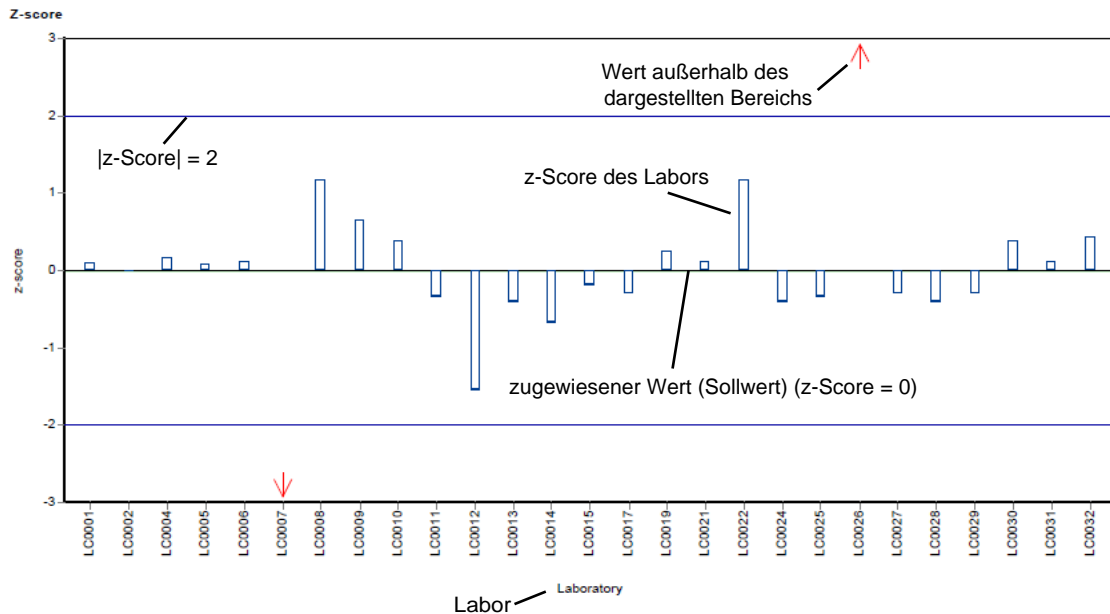
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

### Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



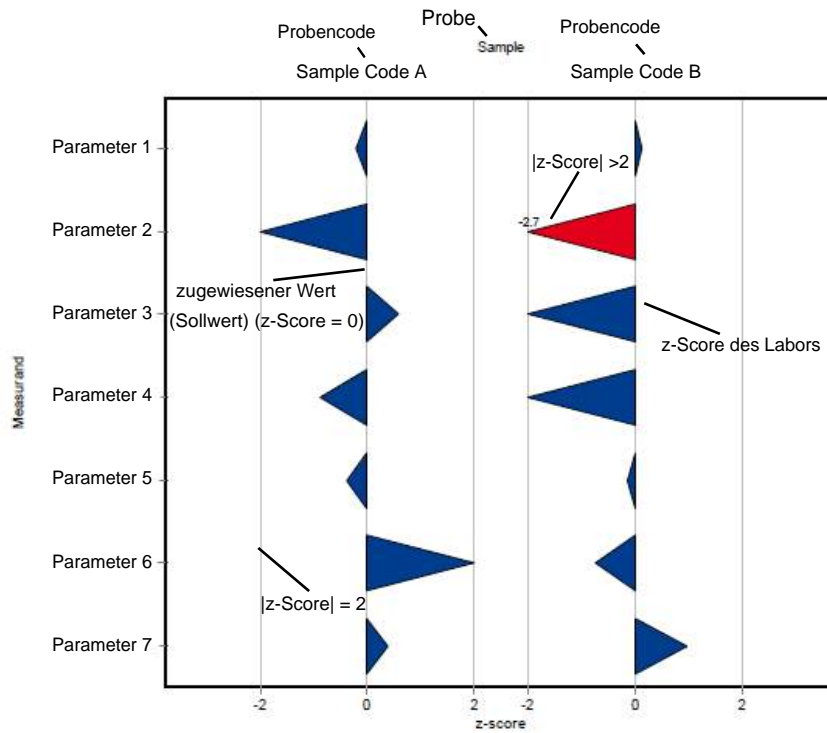
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

### Beispieldiagramm: z-Score

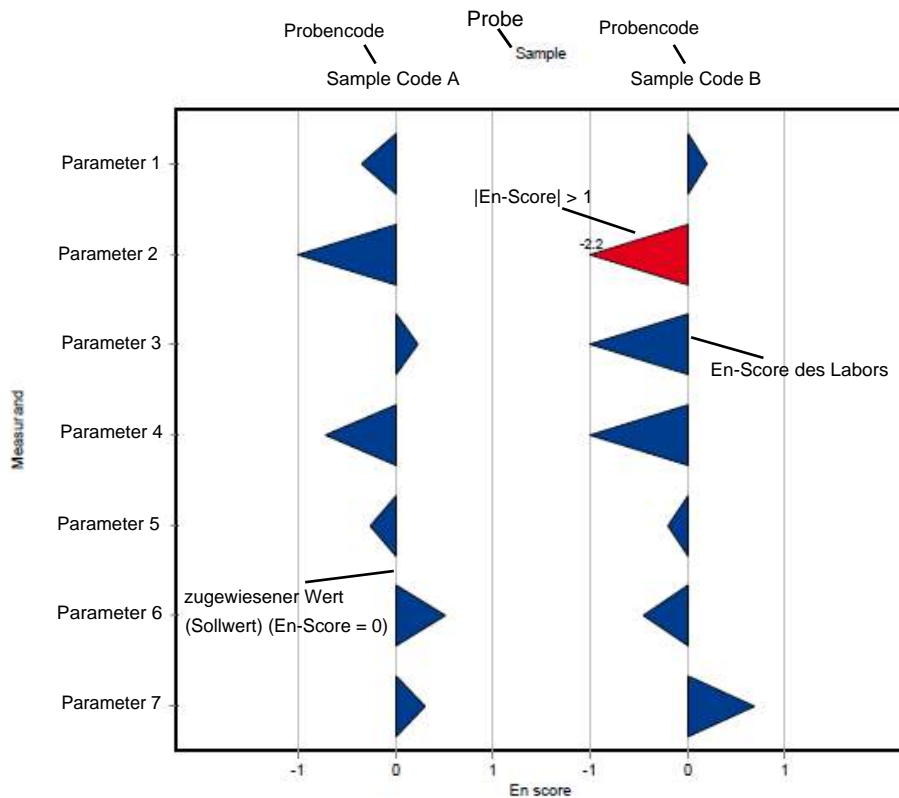


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

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



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





## D6. Zusammenfassung

### D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener Wert	±	U (k=2)	Kriterium	Kriterium [%]
Acenaphthen	P21 A	ng/l	15.6	±	2.03	2.96	19
	P21 B	ng/l	163	±	22.8	30.9	19
Acenaphthylen	P21 A	ng/l	16.8	±	1.73	3.52	21
	P21 B	ng/l	81.6	±	12.2	30.2	37
Anthracen	P21 A	ng/l	13.1	±	1.28	2.89	22
	P21 B	ng/l	137	±	23.8	57.6	42
Benzo[a]anthracen	P21 A	ng/l	14.4	±	1.7	3.02	21
	P21 B	ng/l	161	±	18	33.8	21
Benzo[a]pyren	P21 A	ng/l	11.1	±	1.88	2.66	24
	P21 B	ng/l	152	±	15	36.5	24
Benzo[b]fluoranthen	P21 A	ng/l	21	±	1.85	3.58	17
	P21 B	ng/l	67.6	±	5.97	11.5	17
Benzo[g,h,i]perylen	P21 A	ng/l	13.4	±	1.52	4.3	32
	P21 B	ng/l	56.2	±	5.53	18	32
Benzo[k]fluoranthen	P21 A	ng/l	12.2	±	1.35	3.16	26
	P21 B	ng/l	116	±	8.71	30.2	26
Chrysen	P21 A	ng/l	20.1	±	2.16	5.22	26
	P21 B	ng/l	56.3	±	5.69	14.7	26
Dibenzo[a,h]anthracen	P21 A	ng/l	11.8	±	2.47	3.55	30
	P21 B	ng/l	85.7	±	16.5	25.7	30
Fluoranthen	P21 A	ng/l	12.5	±	0.92	2.26	18
	P21 B	ng/l	72.1	±	9.92	23.1	32
Fluoren	P21 A	ng/l	13	±	0.921	1.82	14
	P21 B	ng/l	186	±	24.1	26	14
Indeno[1,2,3-cd]pyren	P21 A	ng/l	9.46	±	1.24	2.65	28
	P21 B	ng/l	112	±	13.2	35.9	32
Naphthalin	P21 A	ng/l	28.5	±	2.52	5.99	21
	P21 B	ng/l	168	±	28.1	35.2	21
Phenanthren	P21 A	ng/l	14.7	±	1.3	2.2	15
	P21 B	ng/l	76.4	±	14.3	32.1	42
Pyren	P21 A	ng/l	10.9	±	1.15	1.75	16
	P21 B	ng/l	79.4	±	8.28	12.7	16

## D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Acenaphthen	P21 A	18	1	ng/l	15.6	± 3.05	10.5	28.7	4.32	28
	P21 B	25	0	ng/l	163	± 34.2	33.5	323	57	35
Acenaphthylen	P21 A	17	1	ng/l	16.8	± 2.6	10.8	23.4	3.57	21
	P21 B	24	0	ng/l	81.6	± 18.3	1.06	152	30	37
Anthracen	P21 A	20	1	ng/l	13.1	± 1.91	8	19.4	2.85	22
	P21 B	28	0	ng/l	139	± 30.7	6.23	278	54.1	39
Benzo[a]anthracen	P21 A	21	2	ng/l	14.4	± 2.54	4.7	24.7	3.88	27
	P21 B	26	2	ng/l	161	± 26.9	58.8	235	45.8	28
Benzo[a]pyren	P21 A	25	0	ng/l	11.1	± 2.71	0.128	20.1	4.52	41
	P21 B	29	2	ng/l	152	± 22.5	59.6	231	40.4	27
Benzo[b]fluoranthen	P21 A	25	2	ng/l	21	± 2.78	8.4	30.7	4.63	22
	P21 B	28	3	ng/l	67.6	± 8.95	31.3	97.6	15.8	23
Benzo[g,h,i]perylen	P21 A	23	1	ng/l	13.4	± 2.27	5.7	21.2	3.63	27
	P21 B	26	3	ng/l	56.2	± 8.3	25.2	79.5	14.1	25
Benzo[k]fluoranthen	P21 A	22	1	ng/l	12.2	± 2.03	5.1	18.5	3.17	26
	P21 B	27	4	ng/l	116	± 13.1	65	161	22.6	19
Chrysen	P21 A	23	1	ng/l	20.1	± 3.24	7.1	30	5.18	26
	P21 B	27	2	ng/l	56.3	± 8.53	22	83.8	14.8	26
Dibenzo[a,h]anthracen	P21 A	20	1	ng/l	11.8	± 3.71	0.122	24.9	5.52	47
	P21 B	28	0	ng/l	85.7	± 24.8	4.59	183	43.7	51
Fluoranthen	P21 A	20	4	ng/l	12.5	± 1.38	8.01	16.3	2.06	16
	P21 B	27	1	ng/l	74.1	± 13.1	5.76	105	22.6	31
Fluoren	P21 A	15	3	ng/l	13	± 1.38	10.5	16	1.78	14
	P21 B	25	0	ng/l	186	± 36.1	15	262	60.1	32
Indeno[1,2,3-cd]pyren	P21 A	19	2	ng/l	9.46	± 1.85	4.8	16.5	2.69	28
	P21 B	29	2	ng/l	112	± 19.8	25.1	169	35.6	32

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Naphthalin	P21 A	20	2	ng/l	28.5	± 3.77	17.5	41	5.63	20
	P21 B	25	0	ng/l	173	± 36.7	13.3	243	61.1	35
Phenanthren	P21 A	17	3	ng/l	14.7	± 1.94	10.5	19	2.67	18
	P21 B	26	0	ng/l	78.7	± 17.4	7.84	116	29.6	38
Pyren	P21 A	20	2	ng/l	10.9	± 1.72	6.3	15.6	2.57	24
	P21 B	25	2	ng/l	80.3	± 11.4	38.1	107	18.9	24

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

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

- Number of registrations: 31
- Number of submitted data records: 31
- Dispatch of samples: 10<sup>th</sup> November 2020
- Closing date for submission of data: 8<sup>th</sup> December 2020

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

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

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

The sampling of ground water and surface water was carried out on 09<sup>th</sup> November 2020 (drinking water) and on 05<sup>th</sup> November, 2020 (ground water).

The following samples were made available

- 1 sample drinking water (P21 A)
- 1 sample ground water (P21 B)

Both samples were stored at 4 +/- 3°C until further processing.

After filtration (40 µm), the samples were filled into bottles under continuous stirring (stirring vessel). Afterwards the samples were partly spiked in the bottles with specific substances and homogenized by shaking. The samples were stabilized by cooling.

The homogeneous proficiency test items were dispatched on 10<sup>th</sup> November 2020.

Each participant received:

- 2 samples each 2000 ml, filled in 2 x 1000 ml brown glass bottles.

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

For reasons of stability, it was recommended to start the analysis by the 12<sup>th</sup> November 2020 at the latest.

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

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

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

All parameters were analysed in the testing laboratory at the Environment Agency Austria (Prüfstelle für Umwelt-, GVO- & Treibstoffanalytik, accredited by EN ISO/IEC 17025 for the parameters listed) close to the time of sample dispatch.

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

In the parameter-oriented evaluation (E.7.), the results of the control testing are given in the form of arithmetic means of the detected concentrations  $\pm$  expanded measurement uncertainty as control test value  $\pm$  U (expanded uncertainty, k=2).

#### **E1.5. Trend test for stability evaluation**

The evaluation of stability of the proficiency test items was performed using the data statistics of the results of previous proficiency testing rounds for real water samples of the period from 2013 to 2019.

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

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

According to data obtained from previous rounds for real water samples from 2013 to 2019 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 8<sup>th</sup> December 2020. Any values received at a later date were not considered.

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

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

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

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

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

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

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

## E2. Criteria of performance evaluation

### E2.1. Performance criterion z-Score

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

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

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

In this context,

$x_i$	is the measurement value (result) of the participating laboratory;
$\bar{X}$	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
Criteria	is the reproducibility standard deviation calculated from previous rounds for proficiency testing for real water samples from 2013 to 2019 (as RSD pooled) or from the participants' results after removal of outliers (sR) in the current round (if less than 6 previous rounds for the parameters of real water samples A and B are available). Where justified (e.g. results for real water samples are close to minimum quantification limit or in case of regulatory requirements) the criteria is defined by expert judgement and the procedure is clearly described in section E4 of the report.

### E2.2. Performance criterion E<sub>n</sub>-Score

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

E<sub>n</sub>-Scores were calculated on the basis of the following formula:

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

In this context,

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

### E2.3. Performance evaluation z-Score and E<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 result 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 might point out to correct a measurement problem.



### **E3. Representation and interpretation of measurement results**

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

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

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

An annotation of the tables and graphics is given in section E.5.

### **E4. Explanatory notes**

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

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

As a result of a long-term evaluation of 7 proficiency testing rounds (2013 - 2019) in real samples, evaluation criteria (RSDpool) were calculated.

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

Parameter Dibenzo(a,h)anthracene sample P21 B: The relative reproducibility standard deviation in the current proficiency testing was more than 50 %. For data assessment the RSDpooled value was chosen as criterion.

Parameter Benzo(a)pyrene sample P21 A and parameters Naphthalene, Phenanthrene, Anthracene, Fluoranthene and Pyrene sample P21 B: The assigned values calculated based on the participant results were outside the measurement uncertainty of the control value and thus traceability could not be proven by this

procedure. Therefore, new assigned values were defined by the group of accredited participating laboratories after outlier-assessment.

Parameters Phenanthrene, Anthracene and Fluoranthene sample P21 B: The relative reproducibility standard deviation value of the group of accredited participating laboratories after outlier-assessment was chosen as criterion for data assessment.

## E5. Annotations on tables and charts

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

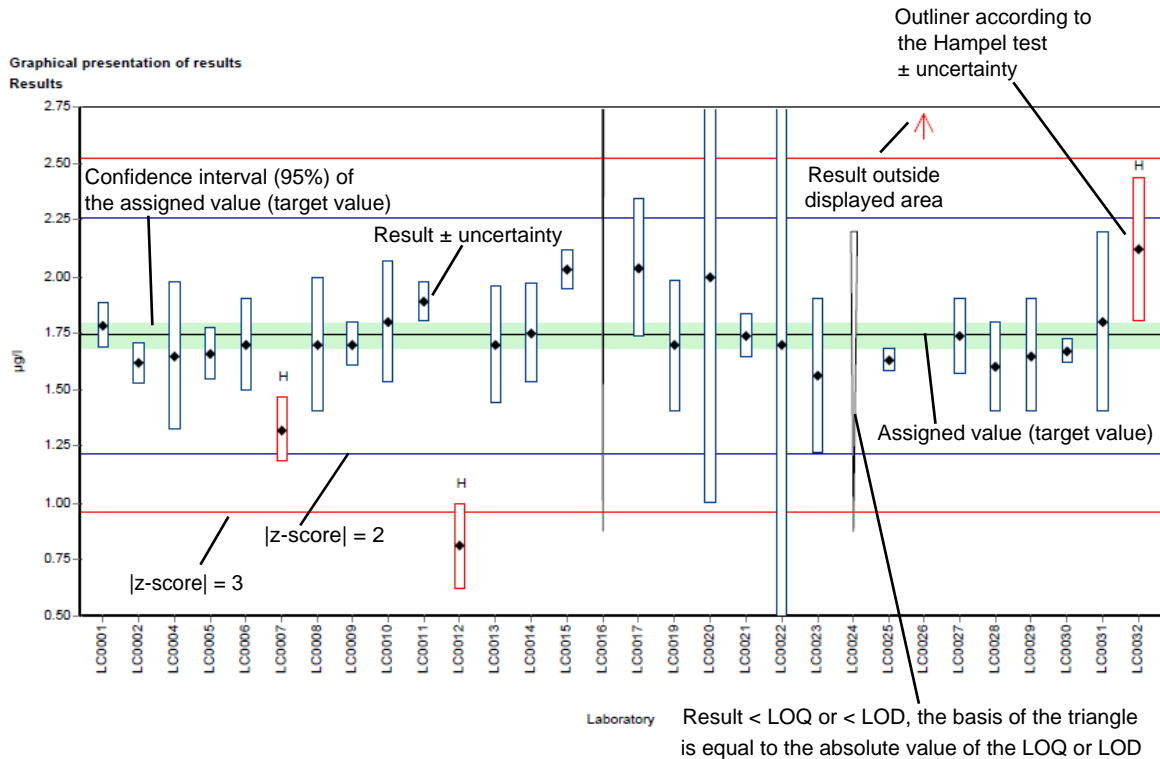
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified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

LOD	Limit of detection
Recovery	Recovery rate in % based on assigned value (target value) (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on the assigned value (target value) given as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
E <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). 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

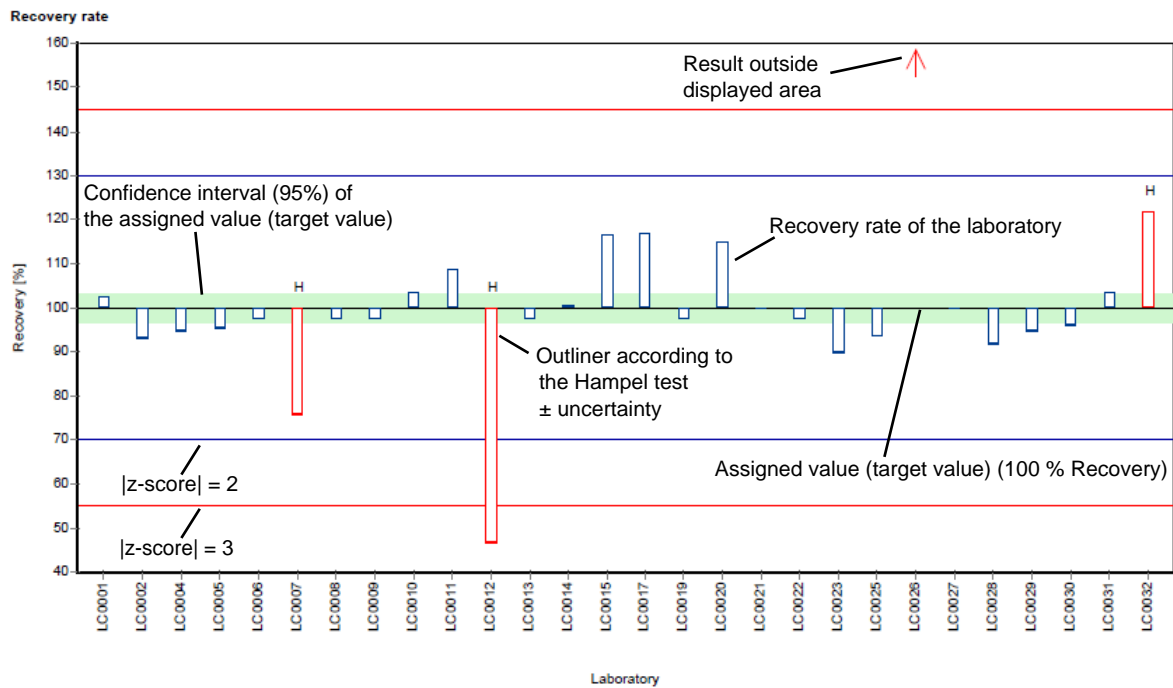
The graphic representation in the report is explained below by means of commented example diagrams:

### Example chart: Results



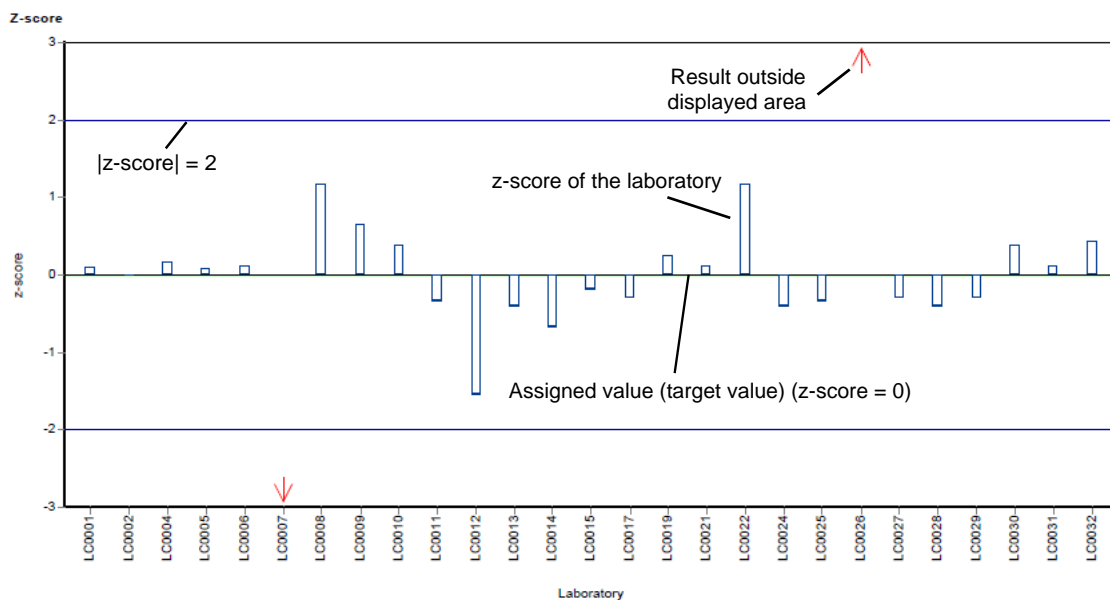
Different analysis methods are represented with different colors.

### Example chart: Recovery



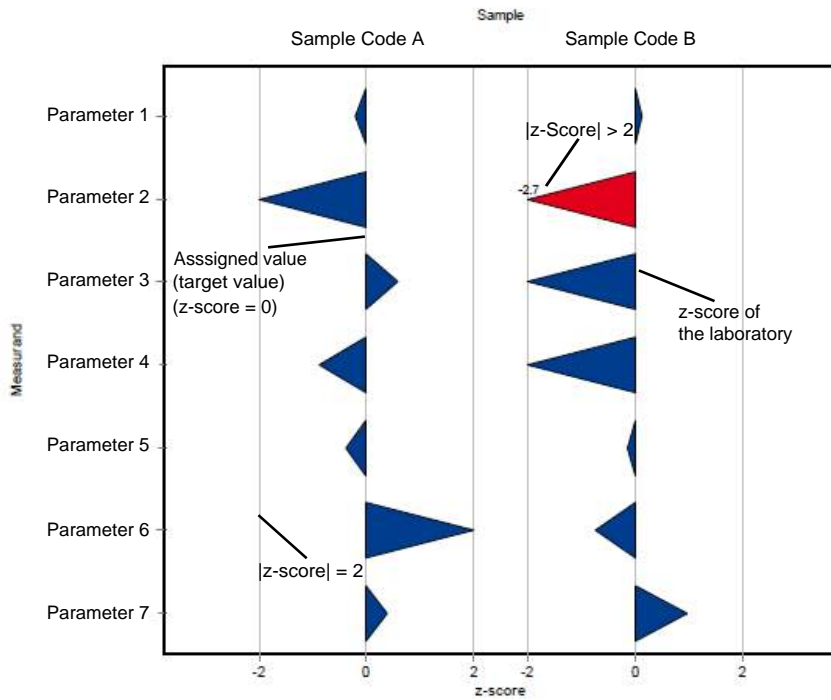
Different analysis methods are represented with different colors.

### Example chart: z-score

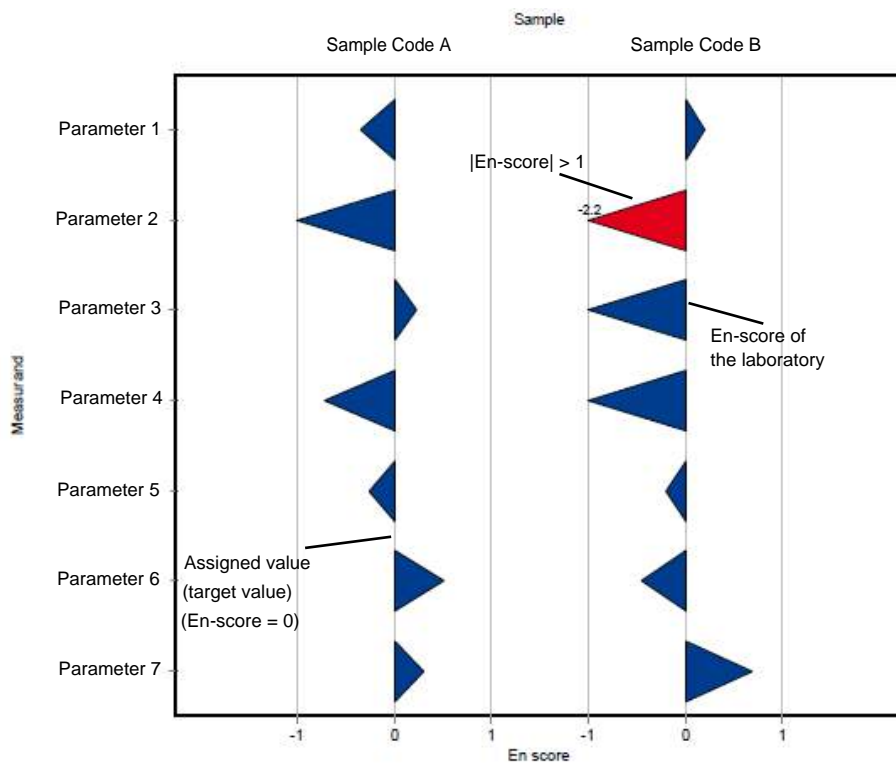


Different analysis methods are represented with different colors.

**Example chart: z-score (laboratory oriented report)**



**Example chart: En-score (laboratory oriented report)**



## E6. Summary

### E6.1. Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Acenaphthene	P21 A	ng/l	15.6 ±	2.03	2.96	19
	P21 B	ng/l	163 ±	22.8	30.9	19
Acenaphthylene	P21 A	ng/l	16.8 ±	1.73	3.52	21
	P21 B	ng/l	81.6 ±	12.2	30.2	37
Anthracene	P21 A	ng/l	13.1 ±	1.28	2.89	22
	P21 B	ng/l	137 ±	23.8	57.6	42
Benzo[a]anthracene	P21 A	ng/l	14.4 ±	1.7	3.02	21
	P21 B	ng/l	161 ±	18	33.8	21
Benzo[a]pyrene	P21 A	ng/l	11.1 ±	1.88	2.66	24
	P21 B	ng/l	152 ±	15	36.5	24
Benzo[b]fluoranthene	P21 A	ng/l	21 ±	1.85	3.58	17
	P21 B	ng/l	67.6 ±	5.97	11.5	17
Benzo[g,h,i]perylene	P21 A	ng/l	13.4 ±	1.52	4.3	32
	P21 B	ng/l	56.2 ±	5.53	18	32
Benzo[k]fluoranthene	P21 A	ng/l	12.2 ±	1.35	3.16	26
	P21 B	ng/l	116 ±	8.71	30.2	26
Chrysene	P21 A	ng/l	20.1 ±	2.16	5.22	26
	P21 B	ng/l	56.3 ±	5.69	14.7	26
Dibenzo[a,h]anthracene	P21 A	ng/l	11.8 ±	2.47	3.55	30
	P21 B	ng/l	85.7 ±	16.5	25.7	30
Fluoranthene	P21 A	ng/l	12.5 ±	0.92	2.26	18
	P21 B	ng/l	72.1 ±	9.92	23.1	32
Fluorene	P21 A	ng/l	13 ±	0.921	1.82	14
	P21 B	ng/l	186 ±	24.1	26	14
Indeno[1,2,3-cd]pyrene	P21 A	ng/l	9.46 ±	1.24	2.65	28
	P21 B	ng/l	112 ±	13.2	35.9	32
Naphthalene	P21 A	ng/l	28.5 ±	2.52	5.99	21
	P21 B	ng/l	168 ±	28.1	35.2	21
Phenanthrene	P21 A	ng/l	14.7 ±	1.3	2.2	15
	P21 B	ng/l	76.4 ±	14.3	32.1	42
Pyrene	P21 A	ng/l	10.9 ±	1.15	1.75	16
	P21 B	ng/l	79.4 ±	8.28	12.7	16

## 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	P21 A	18	1	ng/l	15.6	± 3.05	10.5	28.7	4.32	28
	P21 B	25	0	ng/l	163	± 34.2	33.5	323	57	35
Acenaphthylene	P21 A	17	1	ng/l	16.8	± 2.6	10.8	23.4	3.57	21
	P21 B	24	0	ng/l	81.6	± 18.3	1.06	152	30	37
Anthracene	P21 A	20	1	ng/l	13.1	± 1.91	8	19.4	2.85	22
	P21 B	28	0	ng/l	139	± 30.7	6.23	278	54.1	39
Benzo[a]anthracene	P21 A	21	2	ng/l	14.4	± 2.54	4.7	24.7	3.88	27
	P21 B	26	2	ng/l	161	± 26.9	58.8	235	45.8	28
Benzo[a]pyrene	P21 A	25	0	ng/l	11.1	± 2.71	0.128	20.1	4.52	41
	P21 B	29	2	ng/l	152	± 22.5	59.6	231	40.4	27
Benzo[b]fluoranthene	P21 A	25	2	ng/l	21	± 2.78	8.4	30.7	4.63	22
	P21 B	28	3	ng/l	67.6	± 8.95	31.3	97.6	15.8	23
Benzo[g,h,i]perylene	P21 A	23	1	ng/l	13.4	± 2.27	5.7	21.2	3.63	27
	P21 B	26	3	ng/l	56.2	± 8.3	25.2	79.5	14.1	25
Benzo[k]fluoranthene	P21 A	22	1	ng/l	12.2	± 2.03	5.1	18.5	3.17	26
	P21 B	27	4	ng/l	116	± 13.1	65	161	22.6	19
Chrysene	P21 A	23	1	ng/l	20.1	± 3.24	7.1	30	5.18	26
	P21 B	27	2	ng/l	56.3	± 8.53	22	83.8	14.8	26
Dibenzo[a,h]anthracene	P21 A	20	1	ng/l	11.8	± 3.71	0.122	24.9	5.52	47
	P21 B	28	0	ng/l	85.7	± 24.8	4.59	183	43.7	51
Fluoranthene	P21 A	20	4	ng/l	12.5	± 1.38	8.01	16.3	2.06	16
	P21 B	27	1	ng/l	74.1	± 13.1	5.76	105	22.6	31
Fluorene	P21 A	15	3	ng/l	13	± 1.38	10.5	16	1.78	14
	P21 B	25	0	ng/l	186	± 36.1	15	262	60.1	32
Indeno[1,2,3-cd]pyrene	P21 A	19	2	ng/l	9.46	± 1.85	4.8	16.5	2.69	28
	P21 B	29	2	ng/l	112	± 19.8	25.1	169	35.6	32
Naphthalene	P21 A	20	2	ng/l	28.5	± 3.77	17.5	41	5.63	20



Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Naphthalene	P21 B	25	0	ng/l	173	± 36.7	13.3	243	61.1	35
Phenanthrene	P21 A	17	3	ng/l	14.7	± 1.94	10.5	19	2.67	18
	P21 B	26	0	ng/l	78.7	± 17.4	7.84	116	29.6	38
Pyrene	P21 A	20	2	ng/l	10.9	± 1.72	6.3	15.6	2.57	24
	P21 B	25	2	ng/l	80.3	± 11.4	38.1	107	18.9	24

## E7. Parameterorientierte Auswertung / Parameter oriented report

Acenaphthene .....	35
Acenaphthylene.....	45
Anthracene .....	55
Benzo[a]anthracene .....	65
Benzo[a]pyrene .....	75
Benzo[b]fluoranthene .....	85
Benzo[g,h,i]perylene.....	95
Benzo[k]fluoranthene .....	105
Chrysene .....	115
Dibenzo[a,h]anthracene .....	125
Fluoranthene .....	135
Fluorene .....	145
Indeno[1,2,3-cd]pyrene .....	155
Naphthalene .....	165
Phenanthrene.....	175
Pyrene .....	185

## Parameter oriented report

### P21 A

#### Acenaphthene

Unit	ng/l
Assigned value ± U (k=2)	15.6 ± 2.03
Criterion	2.96 (19 %)
Minimum - Maximum	10.5 - 28.7
Control test value ± U (k=2)	18.8 ± 5.28

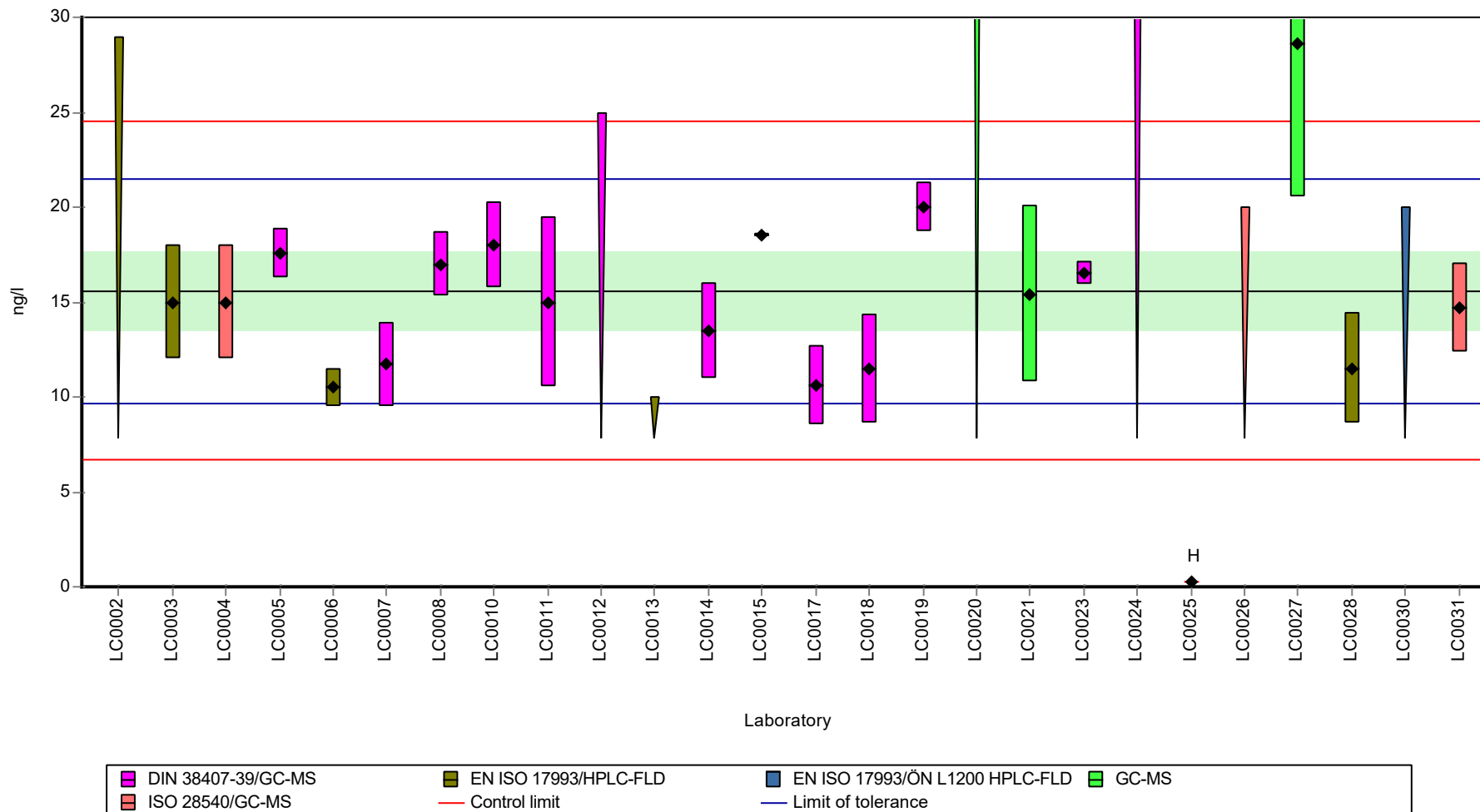
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 29 (LOQ)	-	-	-	
LC0003	15	3	96.2	-0.2	
LC0004	15	3	96.2	-0.2	
LC0005	17.6	1.3	113	0.68	
LC0006	10.5	1	67.3	-1.72	
LC0007	11.7	2.19	75	-1.31	
LC0008	17	1.7	109	0.47	
LC0009	-	-	-	-	
LC0010	18	2.25	115	0.81	
LC0011	15	4.5	96.2	-0.2	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	13.5	2.5	86.6	-0.71	
LC0015	18.5	0.071	119	0.98	
LC0016	-	-	-	-	
LC0017	10.6	2.1	68	-1.69	
LC0018	11.5	2.877	73.7	-1.38	
LC0019	20	1.3	128	1.49	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	15.43	4.63	99	-0.06	
LC0022	-	-	-	-	
LC0023	16.5	0.61	106	0.31	
LC0024	< 39 (LOQ)	-	-	-	
LC0025	0.27	0.01	1.7	-5.17	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	28.65	8.11	184	4.41	
LC0028	11.5	2.9	73.7	-1.38	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	14.7	2.32	94.3	-0.3	

**Characteristics of parameter**

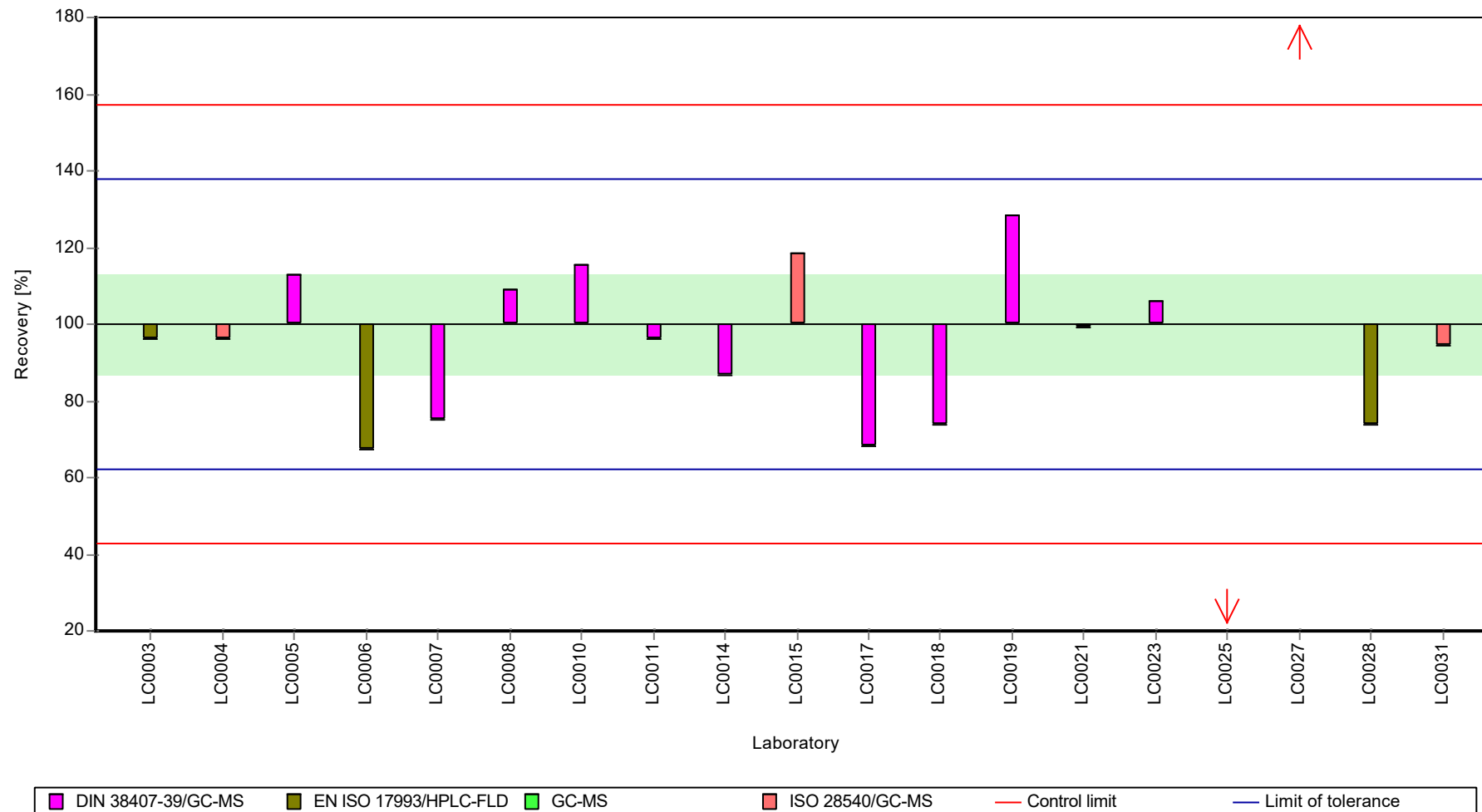
	all results	without outliers	Unit
Mean ± CI (99%)	14.8 ± 3.77	15.6 ± 3.05	ng/l
Minimum	0.27	10.5	ng/l
Maximum	28.7	28.7	ng/l
Standard deviation	5.47	4.32	ng/l
rel. standard deviation	37	27.7	%
n	19	18	-

Graphical presentation of results

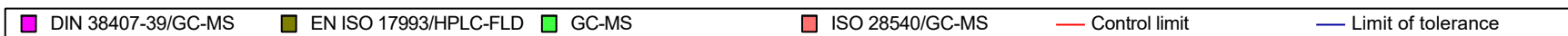
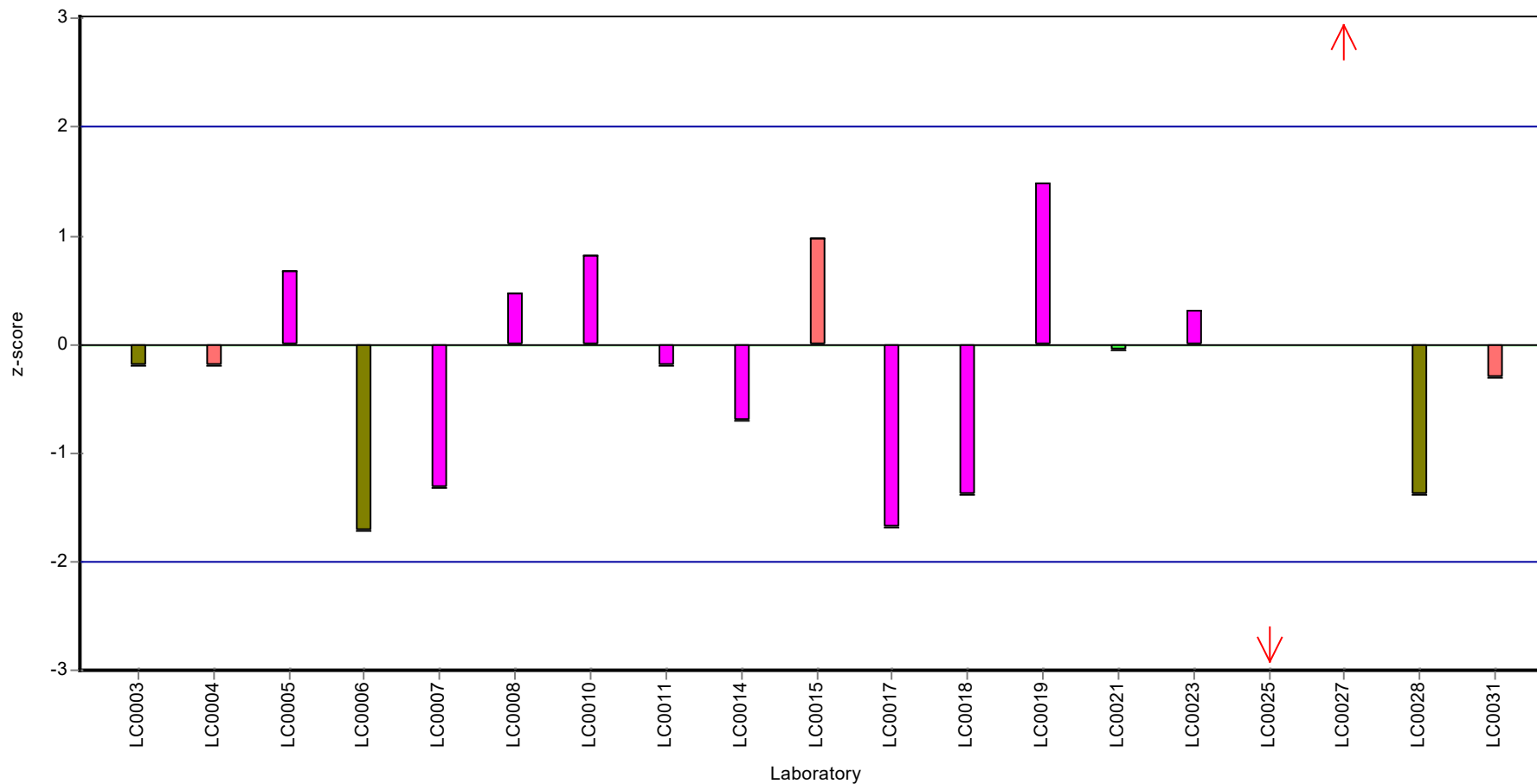
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 B

#### Acenaphthene

Unit	ng/l
Assigned value ± U (k=2)	163 ± 22.8
Criterion	30.9 (19 %)
Minimum - Maximum	33.5 - 323
Control test value ± U (k=2)	220 ± 61.7

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	149.3	37.9	91.8	-0.43	
LC0003	115	23	70.7	-1.54	
LC0004	205	40	126	1.37	
LC0005	200	8.5	123	1.21	
LC0006	125	12.5	76.9	-1.22	
LC0007	92.3	17.3	56.7	-2.28	
LC0008	210	21	129	1.53	
LC0009	-	-	-	-	
LC0010	209.54	26.19	129	1.52	
LC0011	202	61	124	1.27	
LC0012	195	39	120	1.05	
LC0013	160	3.39	98.4	-0.09	
LC0014	124	25	76.2	-1.25	
LC0015	186	7.778	114	0.76	
LC0016	-	-	-	-	
LC0017	101.3	20.3	62.3	-1.99	
LC0018	132	32.877	81.2	-0.99	
LC0019	121	7.5	74.4	-1.35	
LC0020	205.3	10	126	1.38	
LC0021	213.4	64.02	131	1.64	
LC0022	-	-	-	-	
LC0023	190.1	4.48	117	0.89	
LC0024	140	24	86.1	-0.73	
LC0025	33.5	0.01	20.6	-4.18	
LC0026	118.1	11.8	72.6	-1.44	
LC0027	144.25	40.82	88.7	-0.59	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	323	32	199	5.19	
LC0031	171	27.01	105	0.27	



Parameter oriented report Polycyclic Aromatic  
Hydrocarbons P21

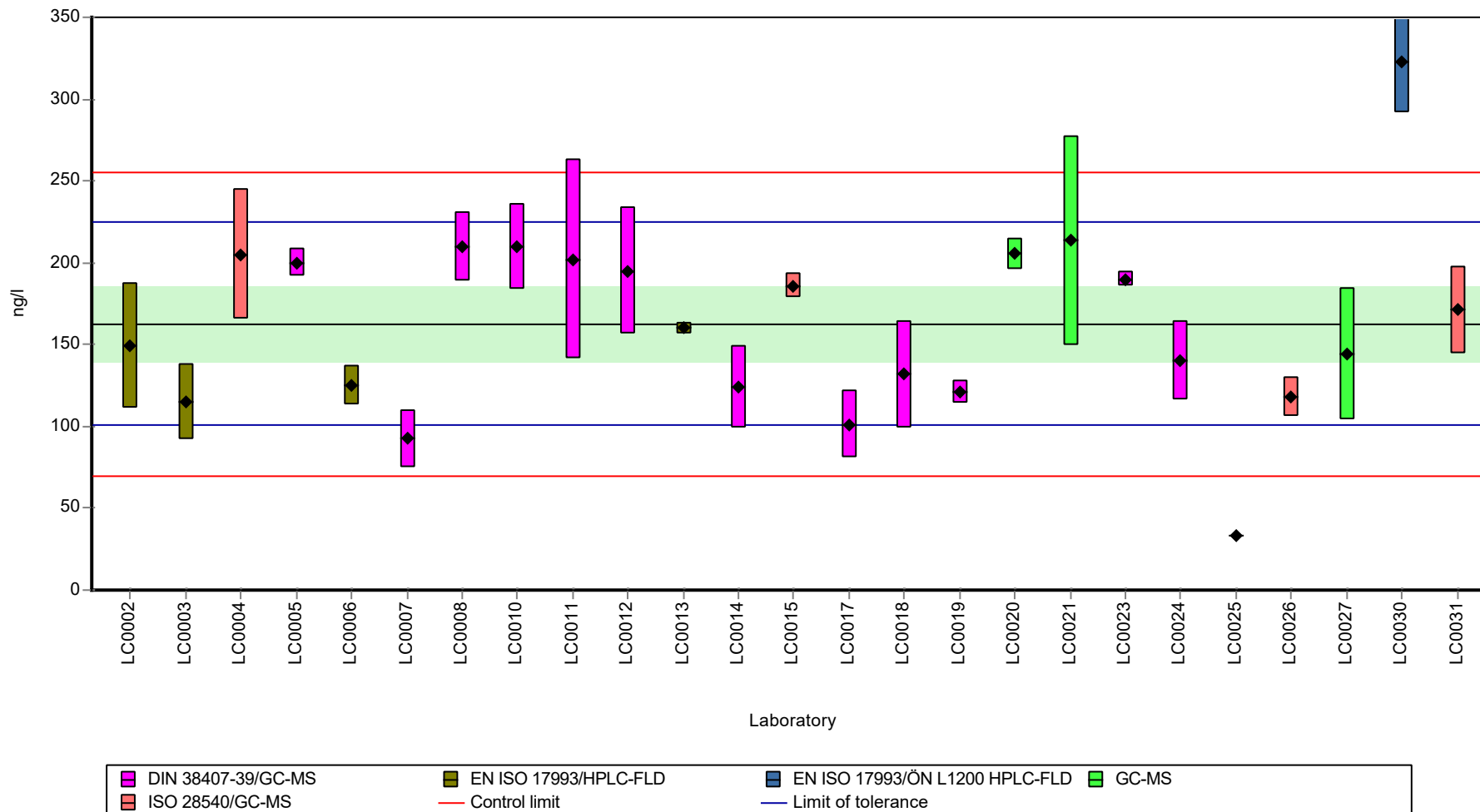
Sample: P21B, Parameter: Acenaphthene

**Characteristics of parameter**

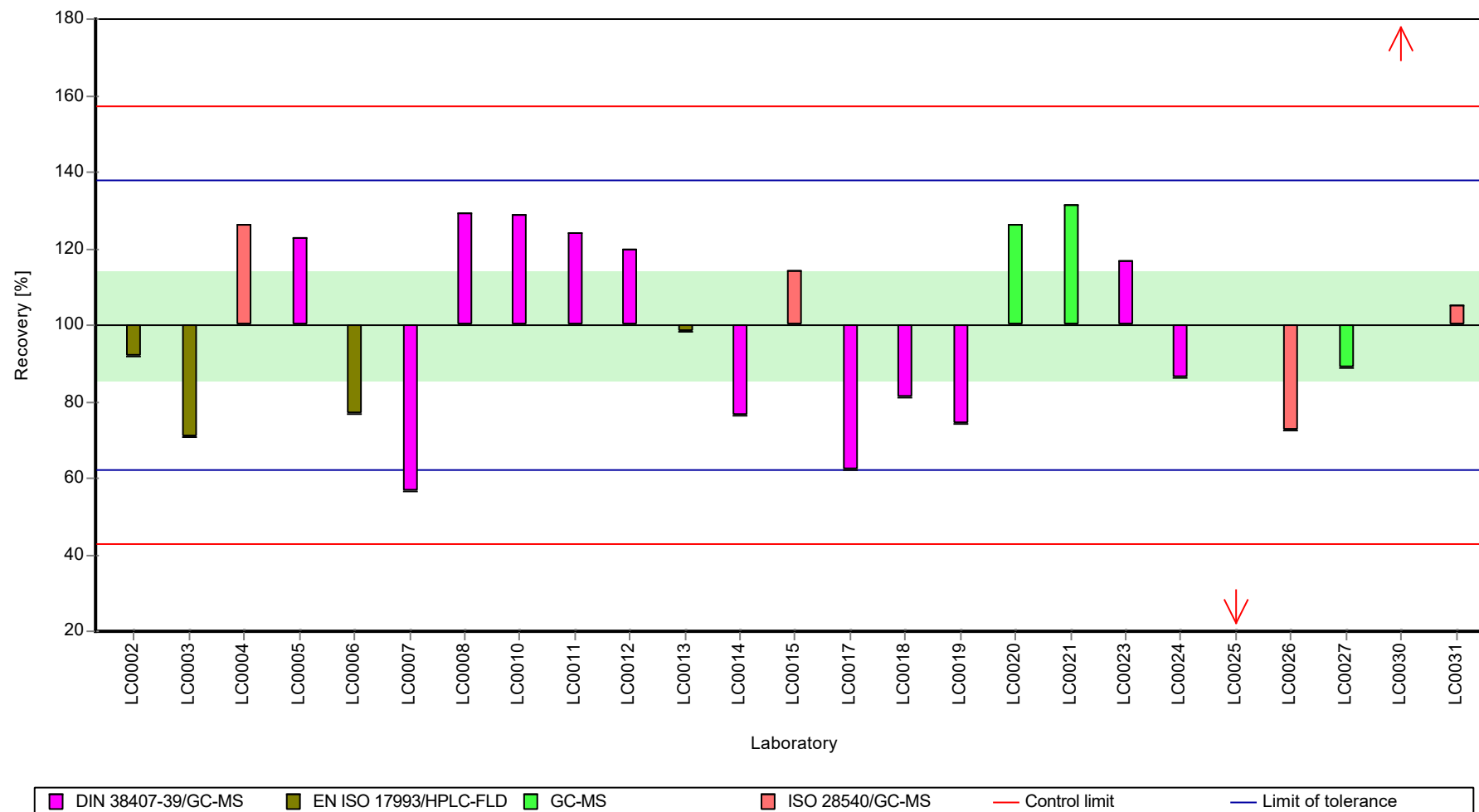
	all results	without outliers	Unit
Mean ± CI (99%)	163 ± 34.2	163 ± 34.2	ng/l
Minimum	33.5	33.5	ng/l
Maximum	323	323	ng/l
Standard deviation	57	57	ng/l
rel. standard deviation	35	35	%
n	25	25	-

Graphical presentation of results

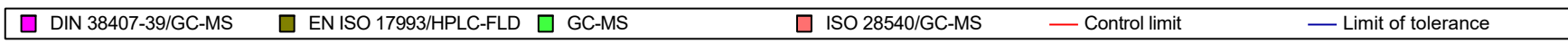
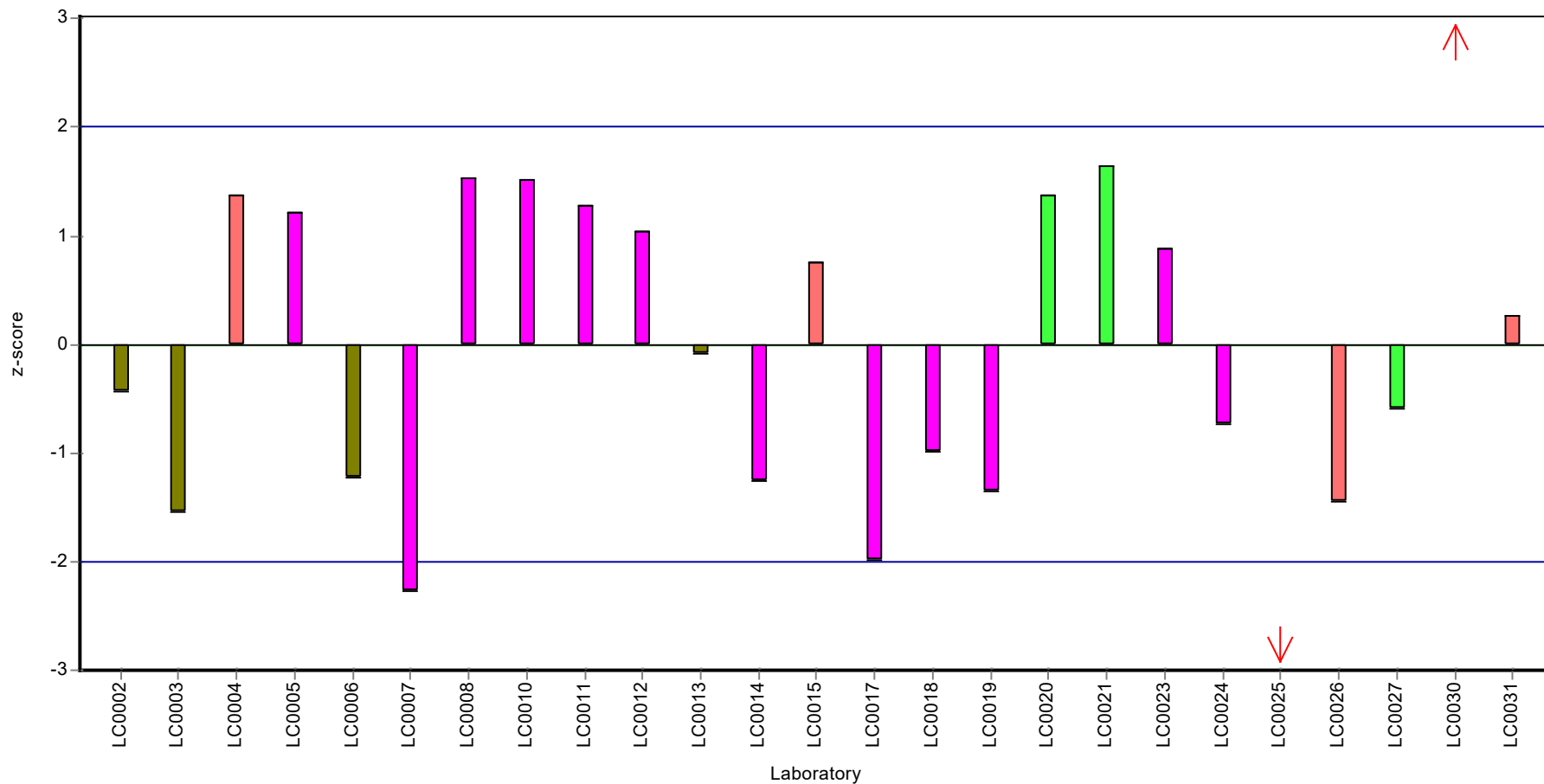
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 A

#### Acenaphthylene

Unit	ng/l
Assigned value ± U (k=2)	16.8 ± 1.73
Criterion	3.52 (21 %)
Minimum - Maximum	10.8 - 23.4
Control test value ± U (k=2)	19.8 ± 5.54

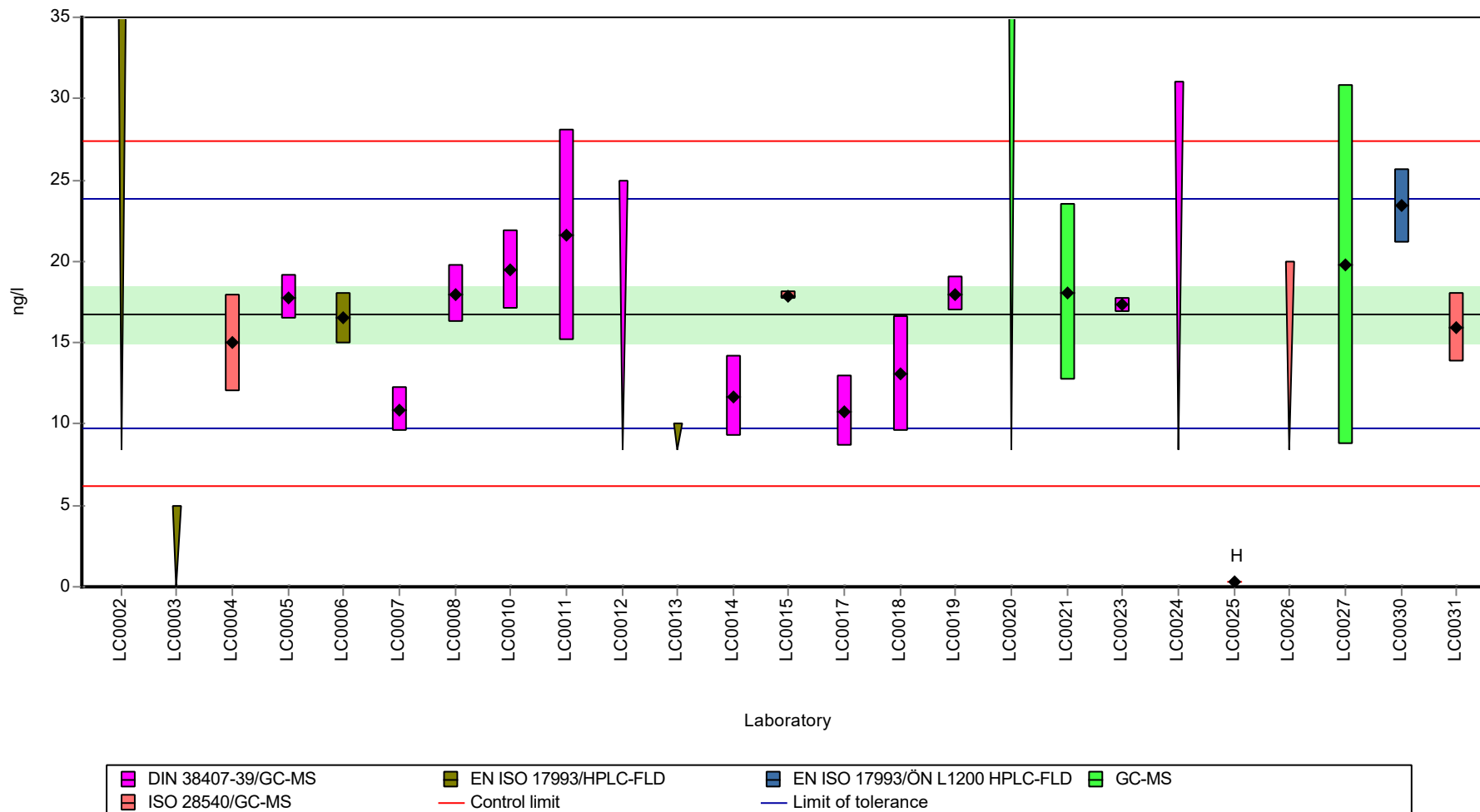
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 40 (LOQ)	-	-	-	
LC0003	< 5 (LOQ)	-	-	-	FN
LC0004	15	3	89.4	-0.5	
LC0005	17.8	1.4	106	0.29	
LC0006	16.5	1.6	98.3	-0.08	
LC0007	10.9	1.37	65	-1.67	
LC0008	18	1.8	107	0.35	
LC0009	-	-	-	-	
LC0010	19.48	2.435	116	0.77	
LC0011	21.6	6.5	129	1.37	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	11.7	2.5	69.7	-1.44	
LC0015	17.9	0.283	107	0.32	
LC0016	-	-	-	-	
LC0017	10.8	2.2	64.4	-1.7	
LC0018	13.1	3.532	78.1	-1.04	
LC0019	18	1.1	107	0.35	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	18.07	5.42	108	0.37	
LC0022	-	-	-	-	
LC0023	17.3	0.5	103	0.15	
LC0024	< 31 (LOQ)	-	-	-	
LC0025	0.298	0.01	1.8	-4.68	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	19.76	11.05	118	0.85	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	23.4	2.3	139	1.88	
LC0031	15.9	2.11	94.8	-0.25	

**Characteristics of parameter**

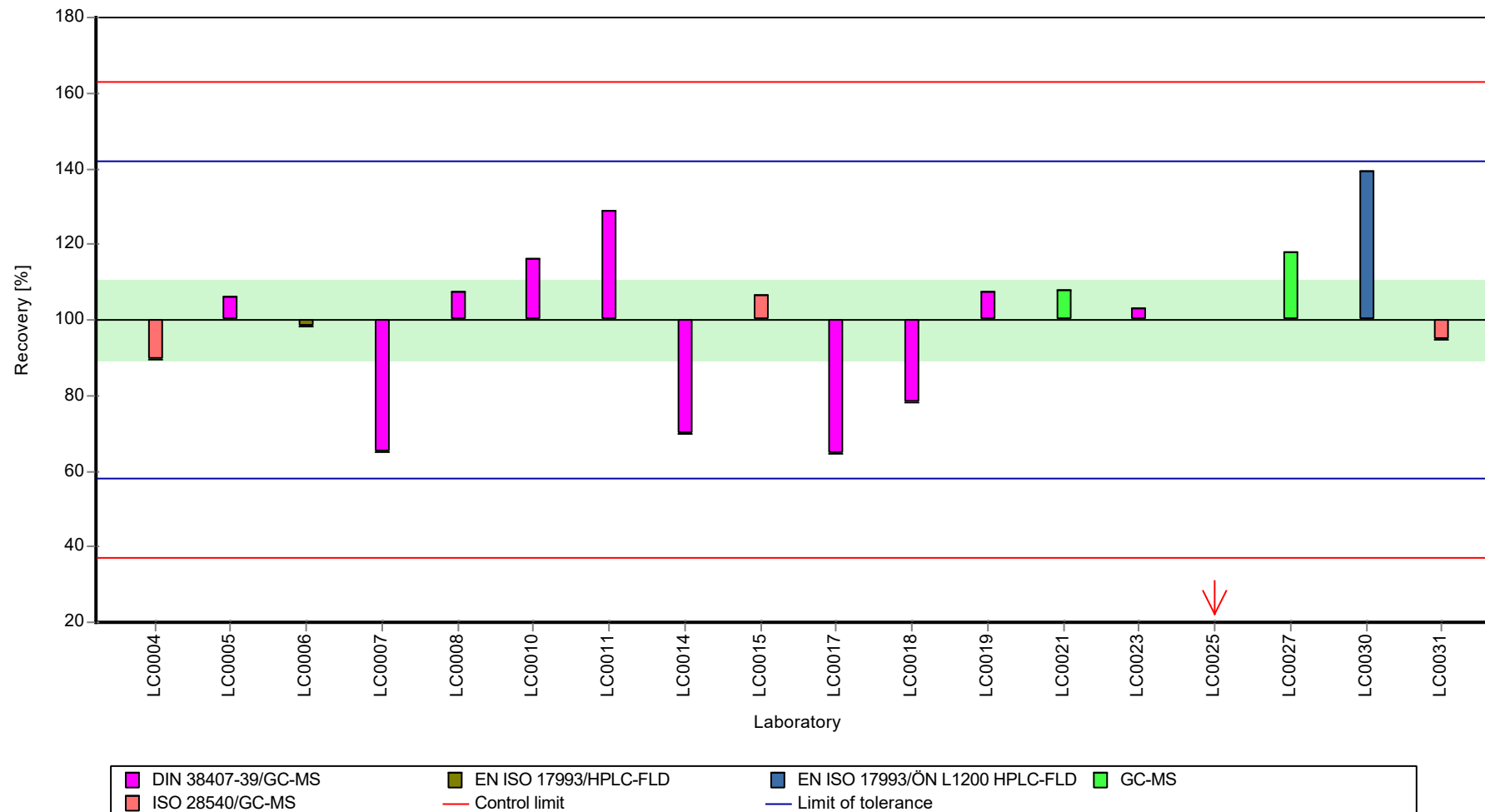
	all results	without outliers	Unit
Mean ± CI (99%)	15.9 ± 3.68	16.8 ± 2.6	ng/l
Minimum	0.298	10.8	ng/l
Maximum	23.4	23.4	ng/l
Standard deviation	5.21	3.57	ng/l
rel. standard deviation	32.8	21.3	%
n	18	17	-

Graphical presentation of results

Results

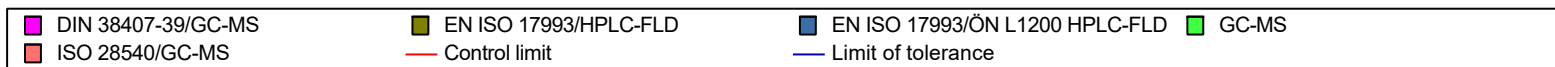
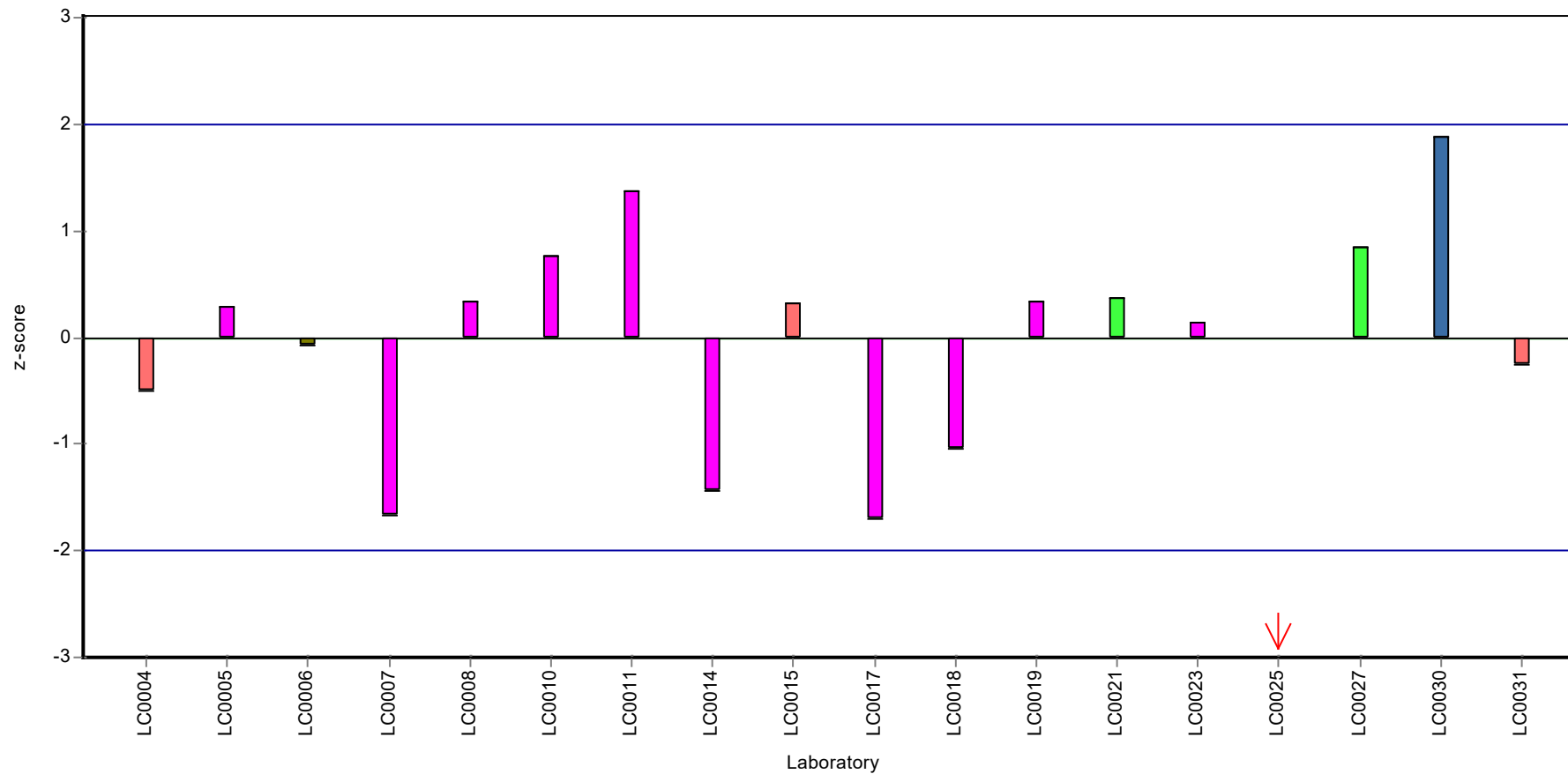


Recovery rate





**Z-score**



## Parameter oriented report

### P21 B

#### Acenaphthylene

Unit	ng/l
Assigned value ± U (k=2)	81.6 ± 12.2
Criterion	30.2 (37 %)
Minimum - Maximum	1.06 - 152
Control test value ± U (k=2)	109 ± 30.5

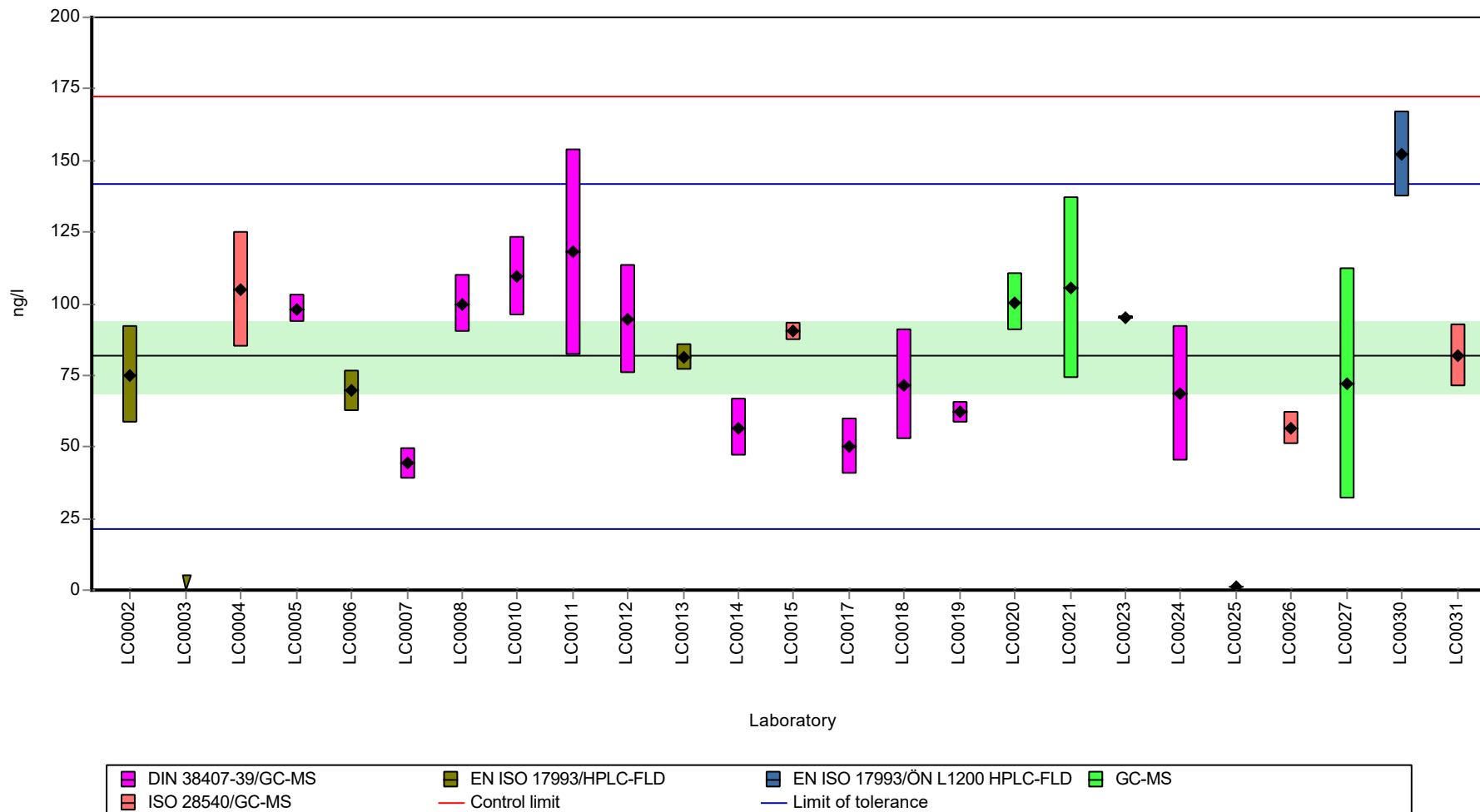
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	75.2	17.2	92.1	-0.21	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	105	20	129	0.77	
LC0005	98.1	4.8	120	0.55	
LC0006	69.5	7	85.2	-0.4	
LC0007	44.1	5.53	54	-1.24	
LC0008	100	10	123	0.61	
LC0009	-	-	-	-	
LC0010	109.48	13.69	134	0.92	
LC0011	118	36	145	1.2	
LC0012	94.4	18.9	116	0.42	
LC0013	81.3	4.81	99.6	-0.01	
LC0014	56.6	10	69.3	-0.83	
LC0015	90.3	3.323	111	0.29	
LC0016	-	-	-	-	
LC0017	50.1	10	61.4	-1.04	
LC0018	71.5	19.311	87.6	-0.34	
LC0019	62	3.9	76	-0.65	
LC0020	100.5	10	123	0.63	
LC0021	105.39	31.62	129	0.79	
LC0022	-	-	-	-	
LC0023	95.2	0.66	117	0.45	
LC0024	68.6	23.5	84	-0.43	
LC0025	1.06	0.01	1.3	-2.67	
LC0026	56.5	5.7	69.2	-0.83	
LC0027	72.03	40.26	88.3	-0.32	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	152	15	186	2.33	
LC0031	82	10.9	100	0.01	

**Characteristics of parameter**

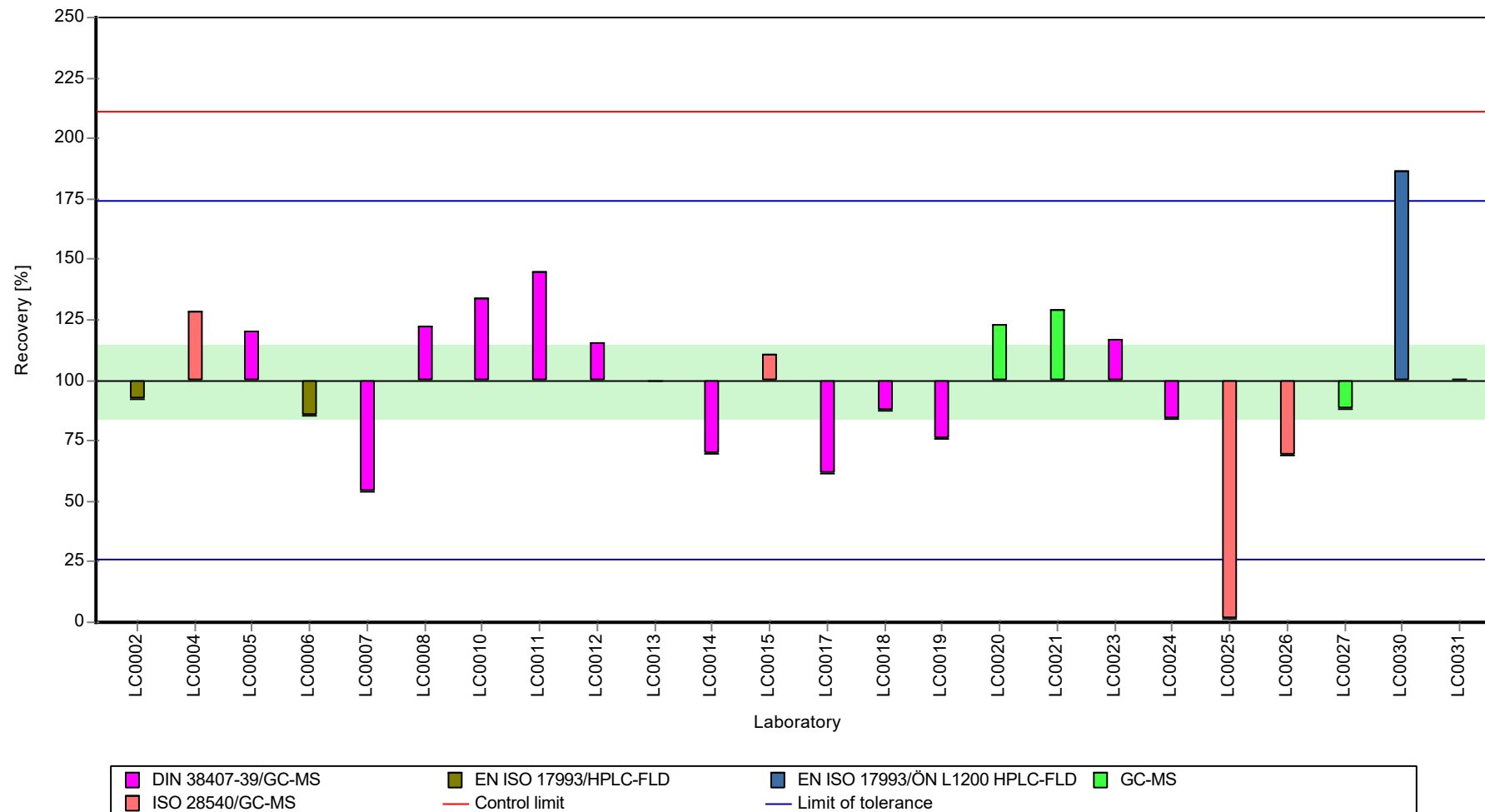
	all results	without outliers	Unit
Mean ± CI (99%)	81.6 ± 18.3	81.6 ± 18.3	ng/l
Minimum	1.06	1.06	ng/l
Maximum	152	152	ng/l
Standard deviation	30	30	ng/l
rel. standard deviation	36.7	36.7	%
n	24	24	-

Graphical presentation of results

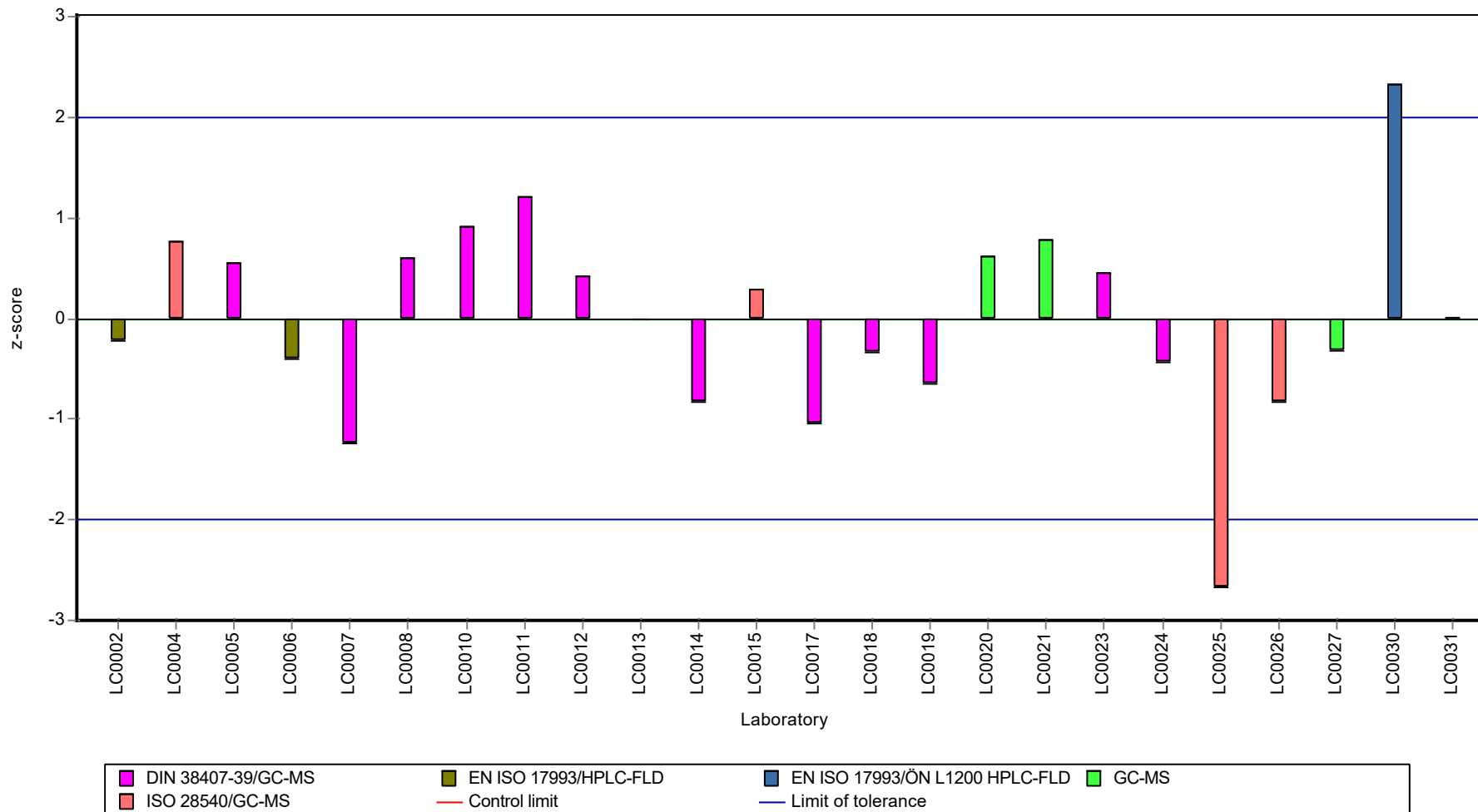
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 A

#### Anthracene

Unit	ng/l
Assigned value ± U (k=2)	13.1 ± 1.28
Criterion	2.89 (22 %)
Minimum - Maximum	8 - 19.4
Control test value ± U (k=2)	17.5 ± 4.56

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9.78	4.3	74.6	-1.16	
LC0002	< 20 (LOQ)	-	-	-	
LC0003	11	2.2	83.9	-0.73	
LC0004	12	3	91.5	-0.39	
LC0005	12.4	2.4	94.5	-0.25	
LC0006	11.5	1.1	87.7	-0.56	
LC0007	19.4	3.36	148	2.18	
LC0008	14	1.4	107	0.31	
LC0009	8	3.5	61	-1.77	
LC0010	14.41	2.161	110	0.45	
LC0011	16.2	4.9	124	1.07	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	10.7	2.5	81.6	-0.84	
LC0015	15.8	0.354	120	0.93	
LC0016	-	-	-	-	
LC0017	13.1	2.6	99.9	-0.01	
LC0018	8.68	1.91	66.2	-1.54	
LC0019	14	1.6	107	0.31	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	15.68	4.7	120	0.89	
LC0022	< 50 (LOQ)	-	-	-	
LC0023	10.7	0.77	81.6	-0.84	
LC0024	< 54 (LOQ)	-	-	-	
LC0025	0.281	0.01	2.1	-4.45	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	15.38	3.41	117	0.78	
LC0028	14.4	3.6	110	0.45	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	15.2	1.85	116	0.72	

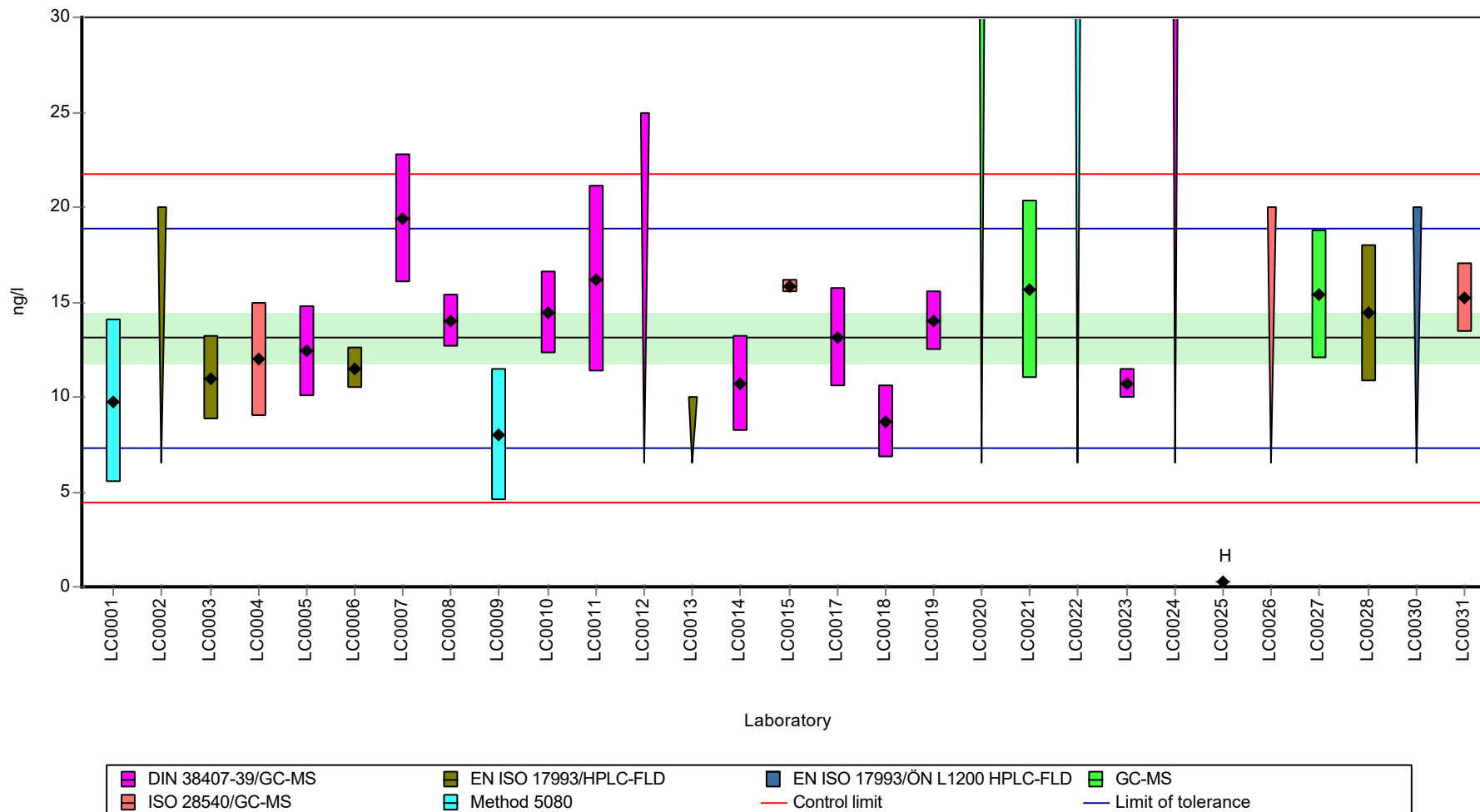
**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	12.5 ± 2.58	13.1 ± 1.91	ng/l
Minimum	0.281	8	ng/l
Maximum	19.4	19.4	ng/l
Standard deviation	3.95	2.85	ng/l
rel. standard deviation	31.6	21.7	%
n	21	20	-

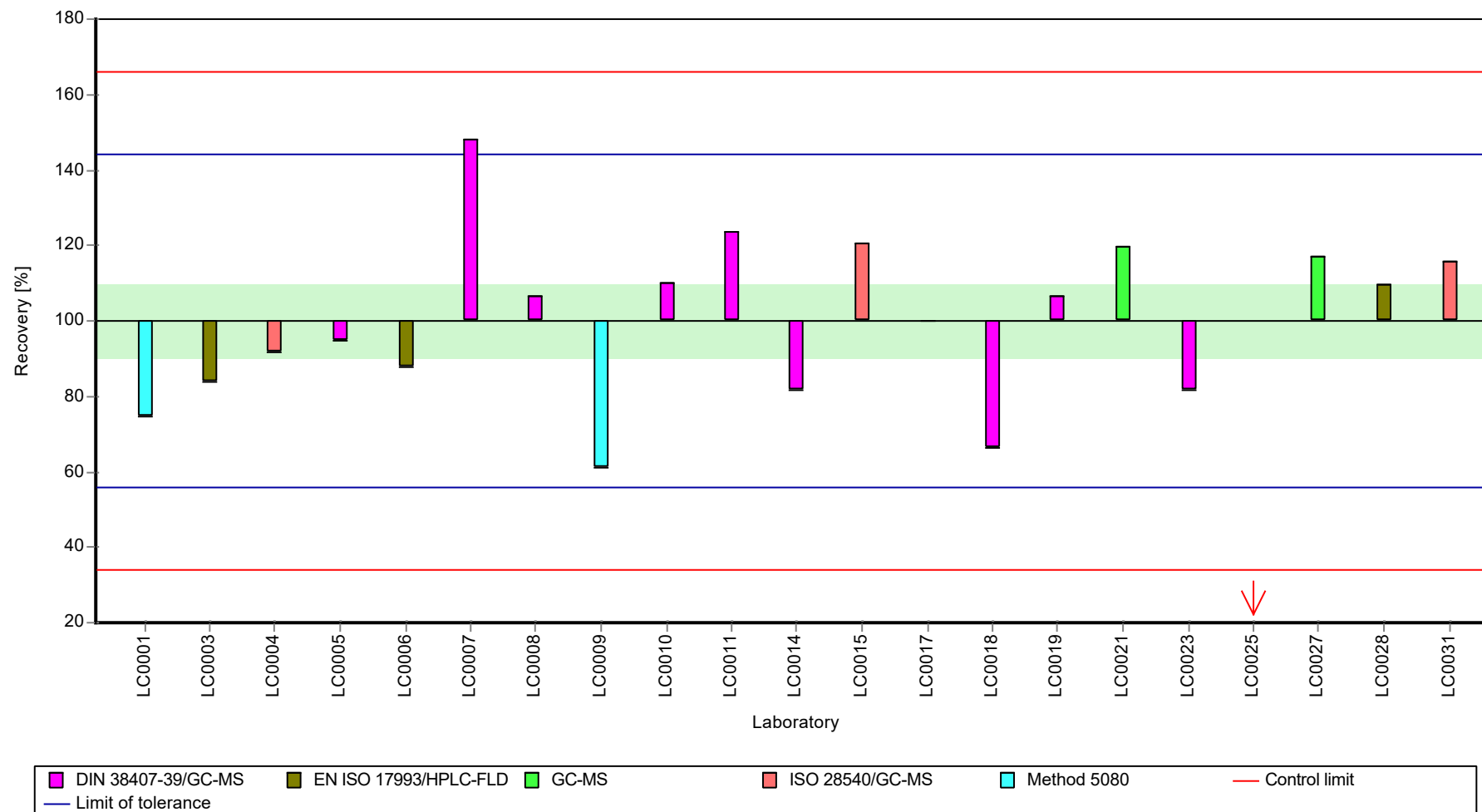


Graphical presentation of results

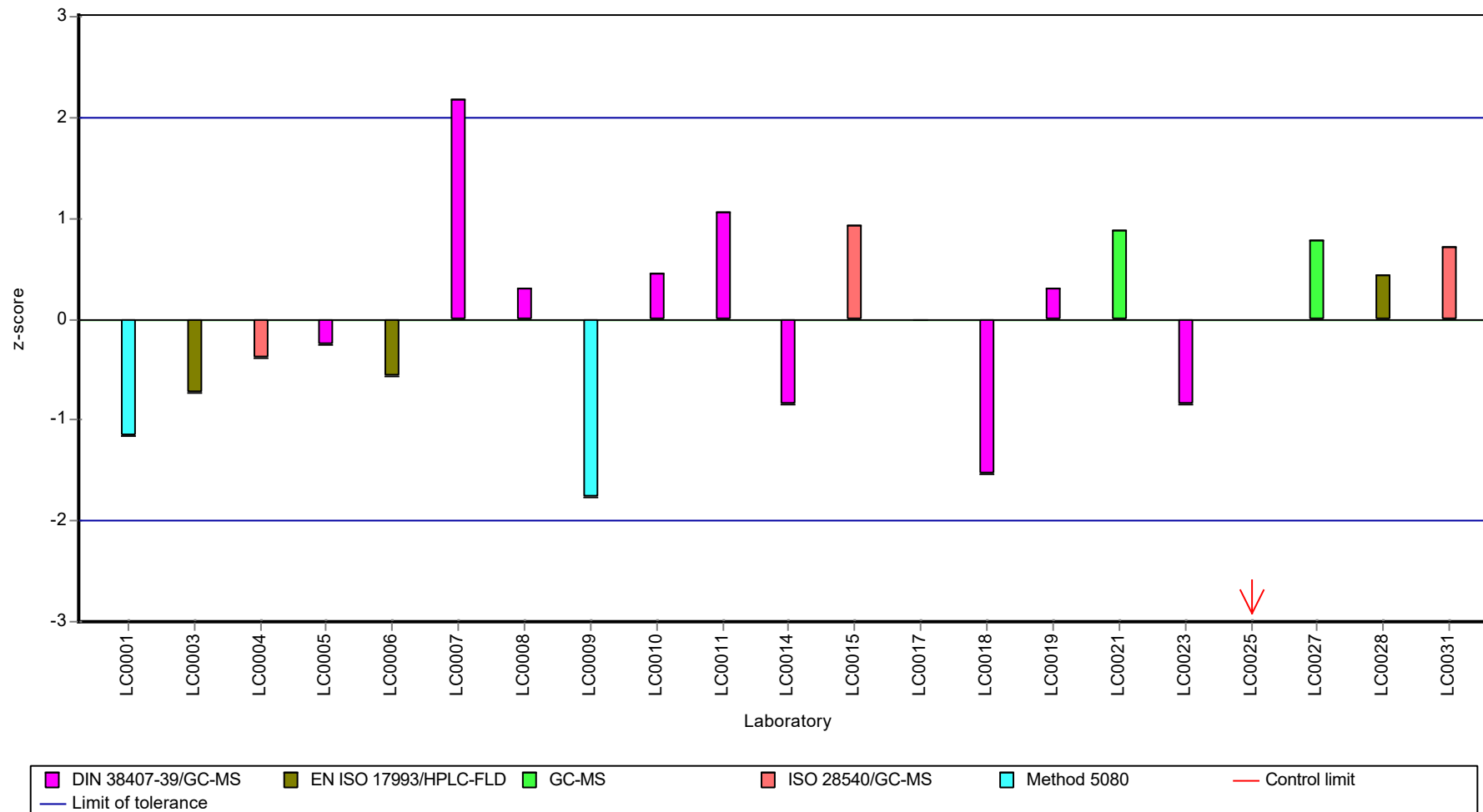
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P21 B

#### Anthracene

Unit	ng/l
Assigned value ± U (k=2)	137 ± 23.8
Criterion	57.6 (42 %)
Minimum - Maximum	6.23 - 278
Control test value ± U (k=2)	194 ± 50.4

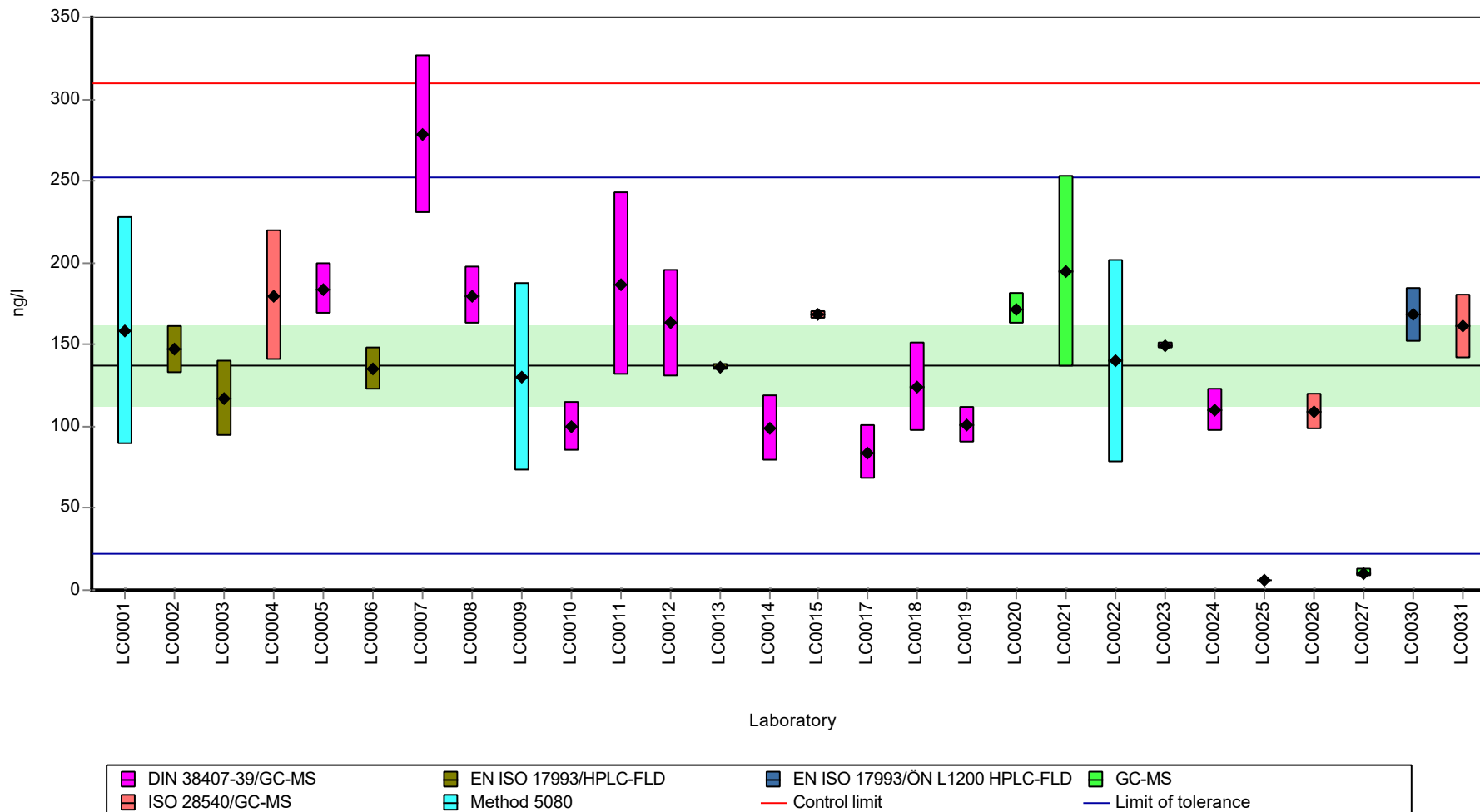
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	158.64	69.8	116	0.37	
LC0002	147	14.6	107	0.17	
LC0003	117	23.4	85.3	-0.35	
LC0004	180	40	131	0.74	
LC0005	184	16	134	0.81	
LC0006	135	13	98.4	-0.04	
LC0007	278.4	48.3	203	2.45	
LC0008	180	18	131	0.74	
LC0009	130	57.2	94.7	-0.13	
LC0010	99.62	14.94	72.6	-0.65	
LC0011	187	56	136	0.86	
LC0012	163	33	119	0.45	
LC0013	136	2.21	99.1	-0.02	
LC0014	98.9	20	72.1	-0.67	
LC0015	168	2.828	122	0.53	
LC0016	-	-	-	-	
LC0017	84.1	16.8	61.3	-0.92	
LC0018	124	27.251	90.4	-0.23	
LC0019	101	11	73.6	-0.63	
LC0020	171.9	10	125	0.6	
LC0021	194.68	58.41	142	1	
LC0022	140	62	102	0.05	
LC0023	149.4	2.3	109	0.21	
LC0024	110	13.5	80.2	-0.47	
LC0025	6.23	0.01	4.5	-2.27	
LC0026	109	10.9	79.4	-0.49	
LC0027	10.35	2.3	7.5	-2.2	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	168	17	122	0.53	
LC0031	161	19.64	117	0.41	

**Characteristics of parameter**

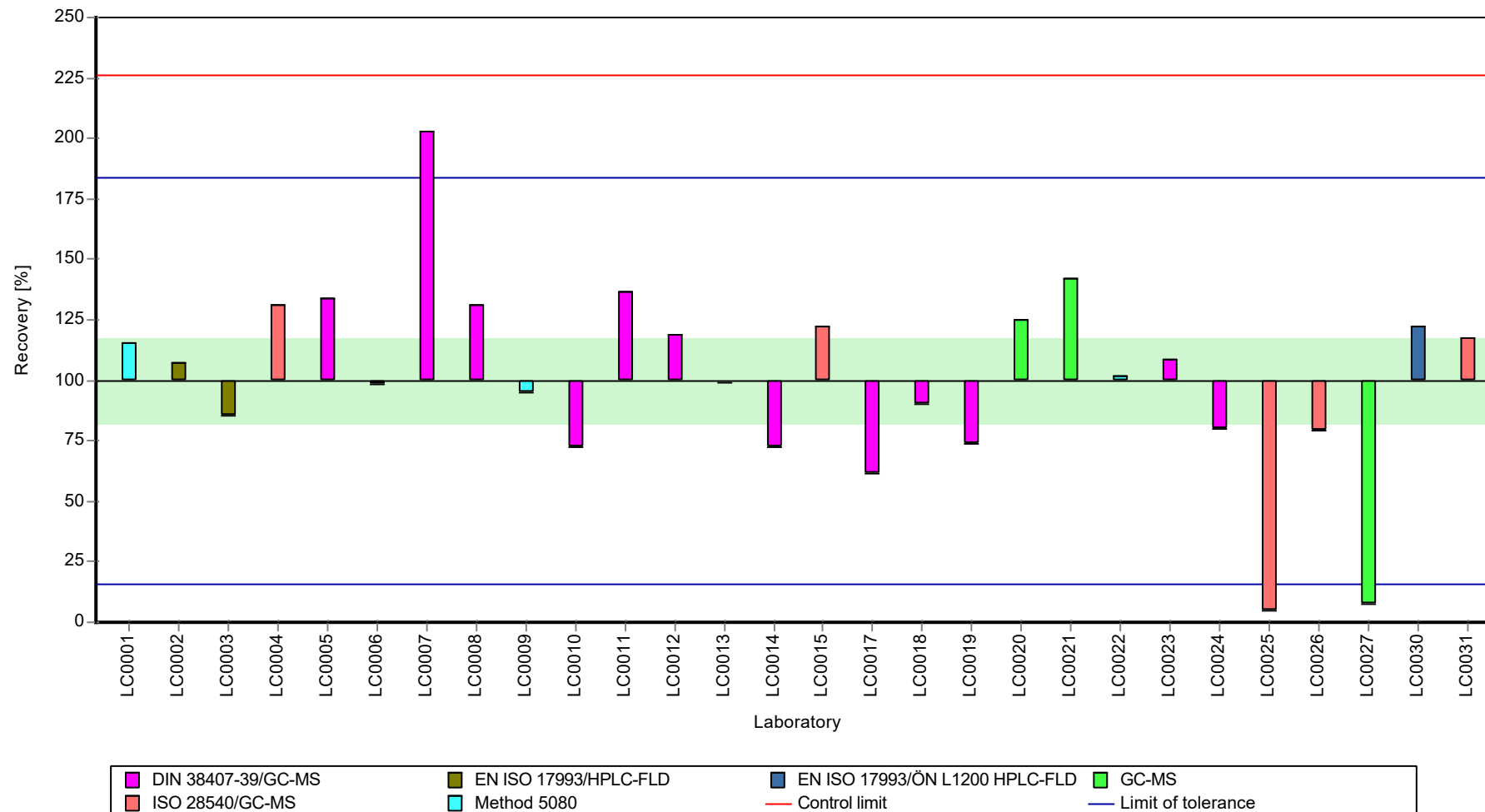
	all results	without outliers	Unit
Mean ± CI (99%)	139 ± 30.7	139 ± 30.7	ng/l
Minimum	6.23	6.23	ng/l
Maximum	278	278	ng/l
Standard deviation	54.1	54.1	ng/l
rel. standard deviation	38.9	38.9	%
n	28	28	-

Graphical presentation of results

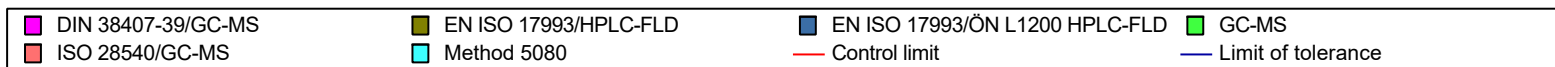
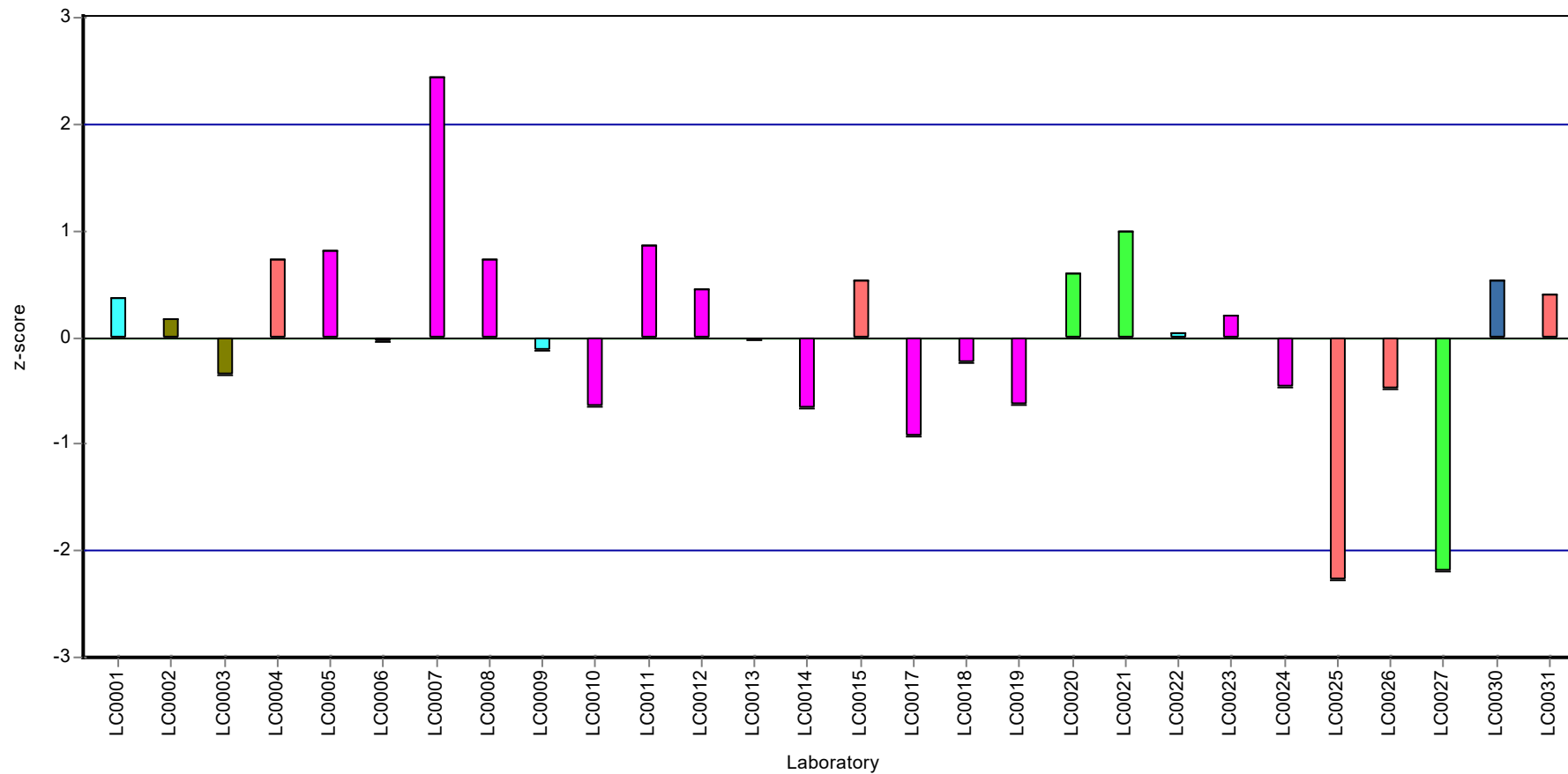
Results



Recovery rate



Z-score





## Parameter oriented report

### P21 A

#### Benzo[a]anthracene

Unit	ng/l
Assigned value ± U (k=2)	14.4 ± 1.7
Criterion	3.02 (21 %)
Minimum - Maximum	4.7 - 24.7
Control test value ± U (k=2)	18.5 ± 4.44

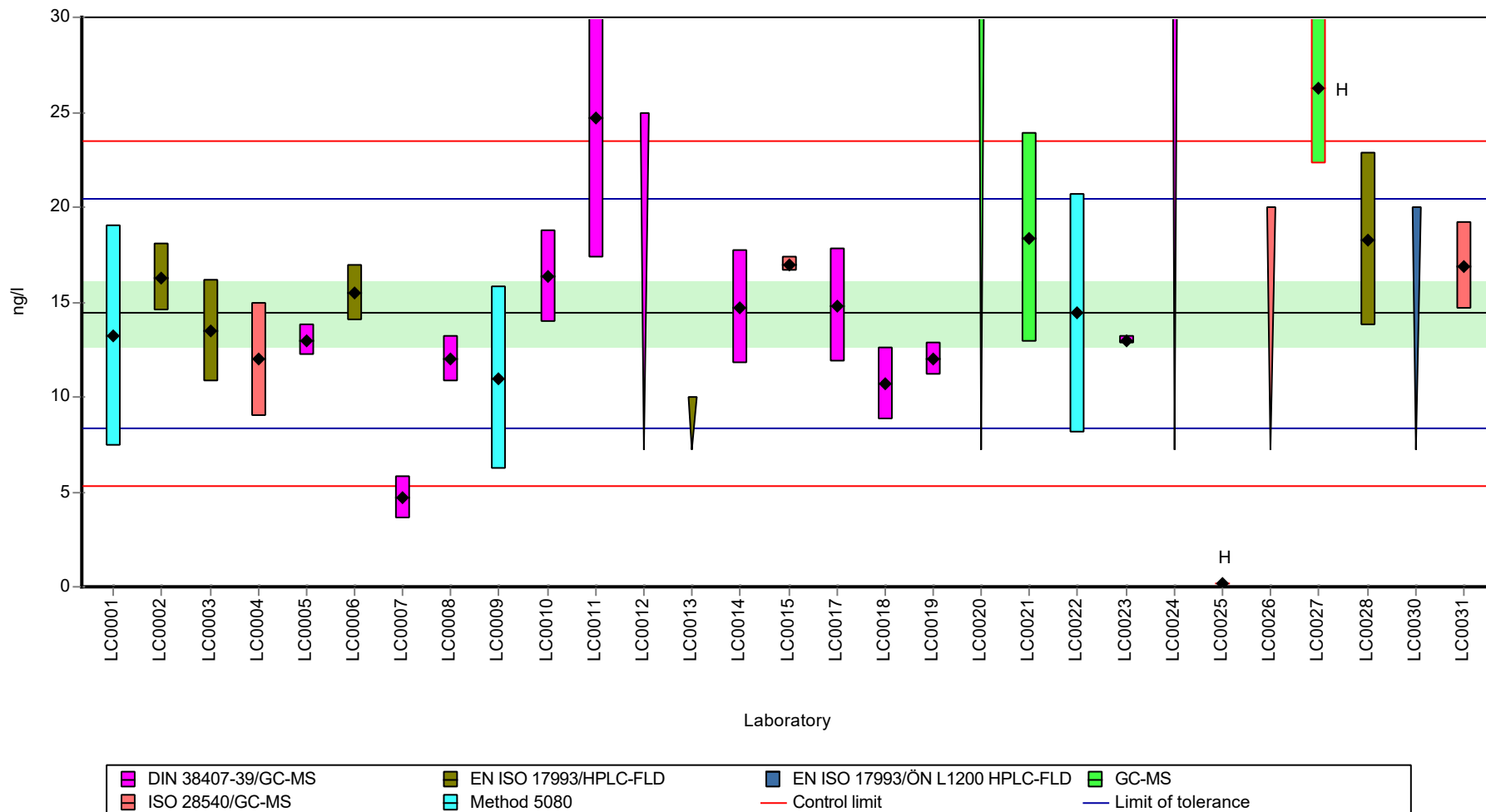
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.2	5.81	91.7	-0.4	
LC0002	16.3	1.8	113	0.63	
LC0003	13.5	2.7	93.7	-0.3	
LC0004	12	3	83.3	-0.79	
LC0005	13	0.8	90.3	-0.46	
LC0006	15.5	1.5	108	0.36	
LC0007	4.7	1.1	32.6	-3.21	
LC0008	12	1.2	83.3	-0.79	
LC0009	11	4.8	76.4	-1.12	
LC0010	16.37	2.456	114	0.65	
LC0011	24.7	7.4	172	3.41	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	14.7	3	102	0.1	
LC0015	17	0.354	118	0.86	
LC0016	-	-	-	-	
LC0017	14.8	3	103	0.13	
LC0018	10.7	1.933	74.3	-1.22	
LC0019	12	0.89	83.3	-0.79	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	18.37	5.51	128	1.31	
LC0022	14.4	6.3	100	0	
LC0023	13	0.24	90.3	-0.46	
LC0024	< 56 (LOQ)	-	-	-	
LC0025	0.164	0.01	1.1	-4.71	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	26.25	4.02	182	3.92	H
LC0028	18.3	4.6	127	1.29	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	16.9	2.32	117	0.83	

**Characteristics of parameter**

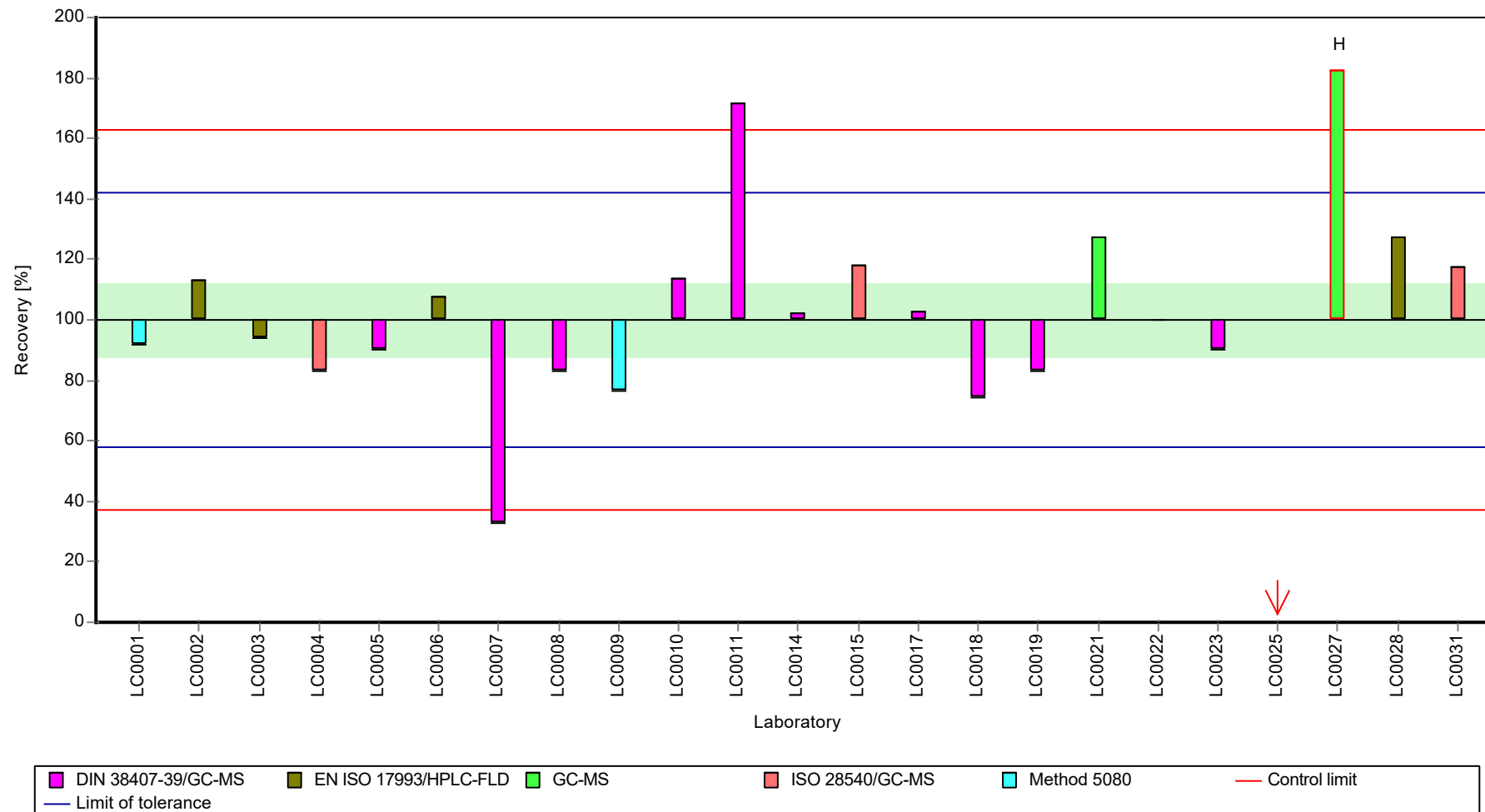
	all results	without outliers	Unit
Mean ± CI (99%)	14.3 ± 3.39	14.4 ± 2.54	ng/l
Minimum	0.164	4.7	ng/l
Maximum	26.3	24.7	ng/l
Standard deviation	5.41	3.88	ng/l
rel. standard deviation	37.9	27	%
n	23	21	-

Graphical presentation of results

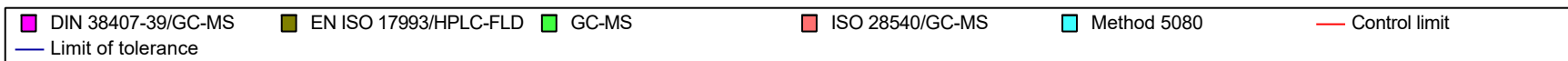
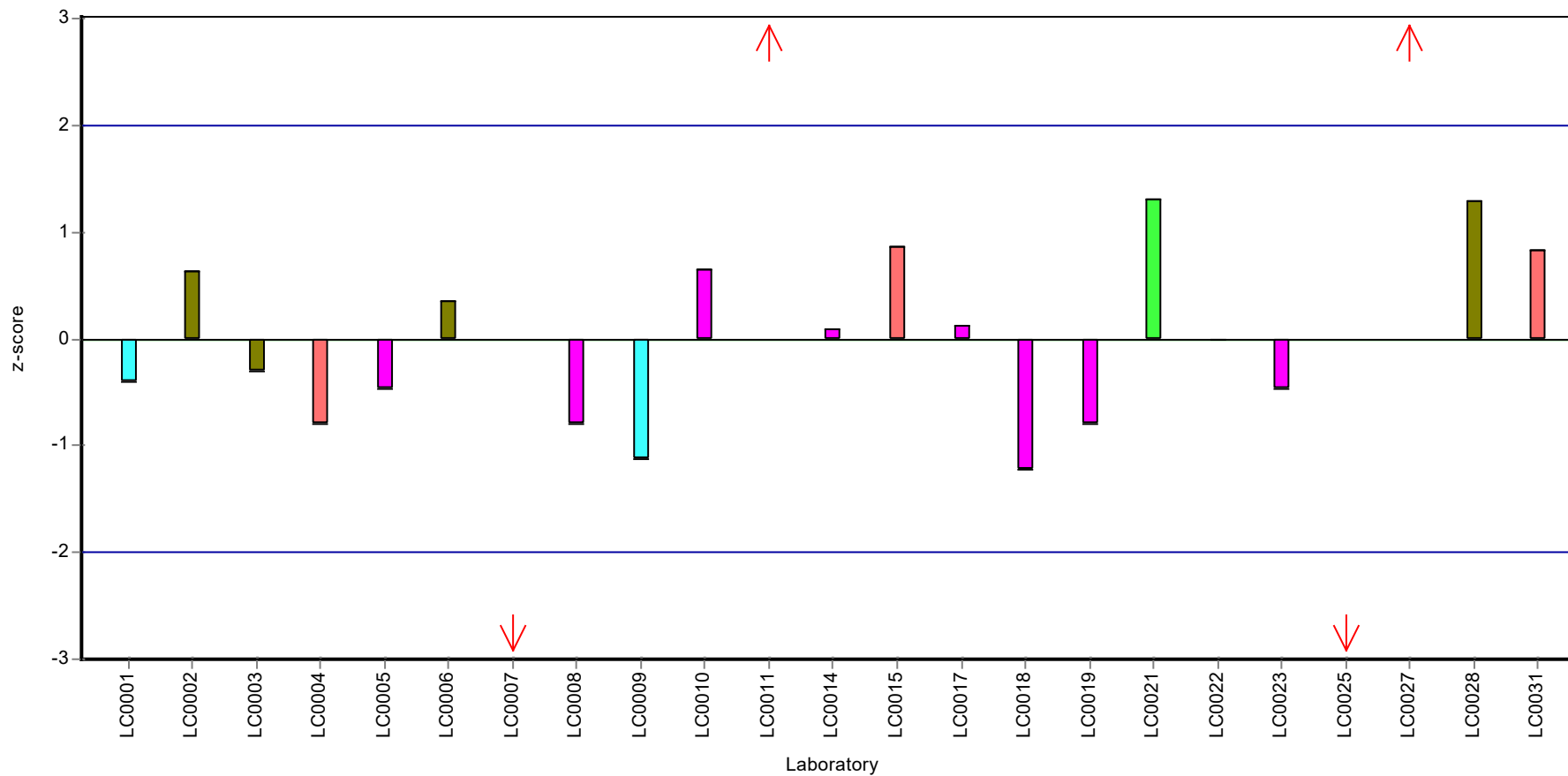
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

#### Benzo[a]anthracene

Unit	ng/l
Assigned value ± U (k=2)	161 ± 18
Criterion	33.8 (21 %)
Minimum - Maximum	58.8 - 235
Control test value ± U (k=2)	201 ± 48.3

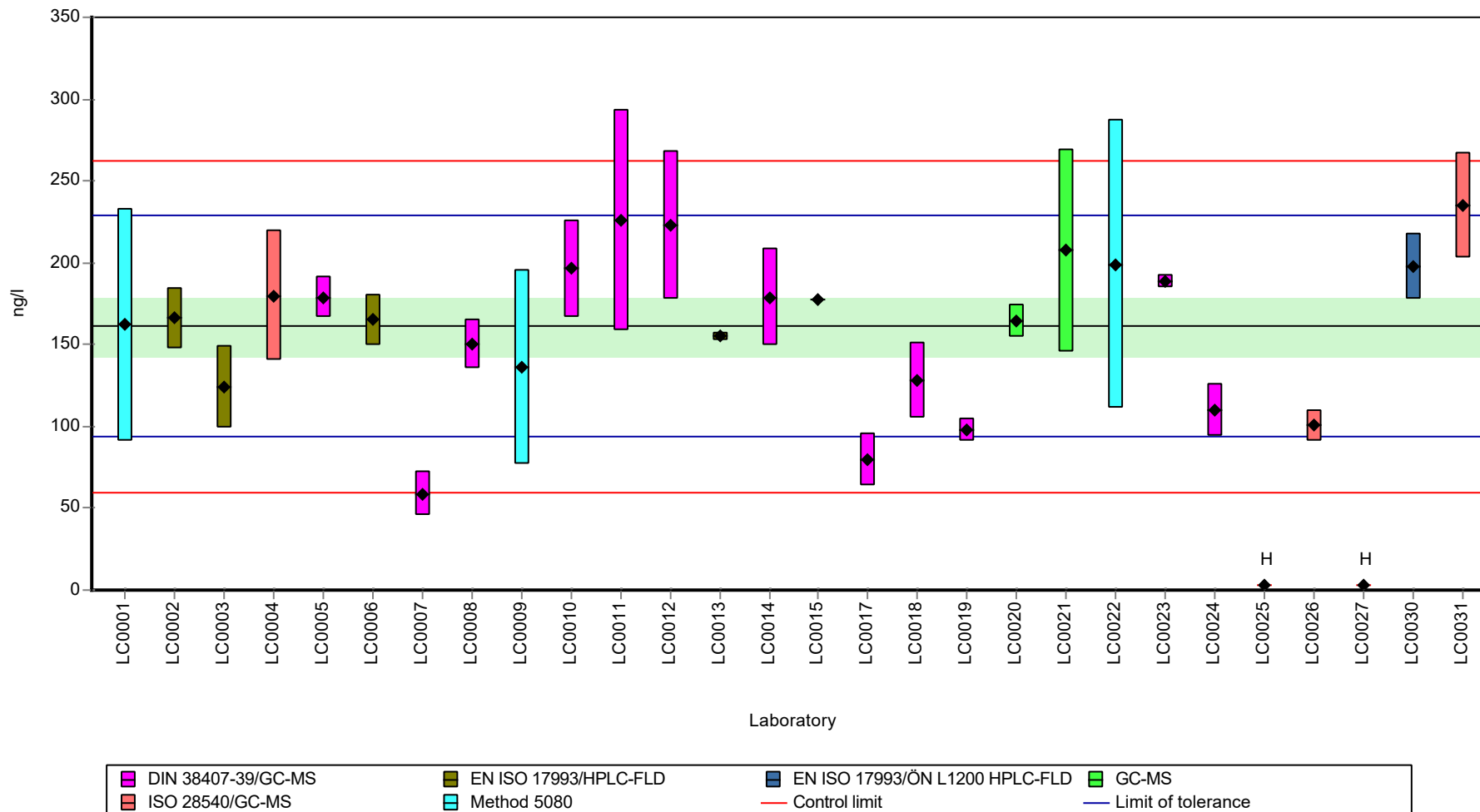
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	161.98	71.3	101	0.03	
LC0002	166.2	18.6	103	0.15	
LC0003	124	24.8	77	-1.1	
LC0004	180	40	112	0.56	
LC0005	179	13	111	0.53	
LC0006	165	16	102	0.12	
LC0007	58.8	13.8	36.5	-3.02	
LC0008	150	15	93.1	-0.33	
LC0009	136	59.8	84.4	-0.74	
LC0010	196.26	29.44	122	1.04	
LC0011	226	68	140	1.92	
LC0012	223	45	138	1.83	
LC0013	155	2.55	96.2	-0.18	
LC0014	179	30	111	0.53	
LC0015	178	0.707	111	0.5	
LC0016	-	-	-	-	
LC0017	79.9	16	49.6	-2.4	
LC0018	128	22.951	79.5	-0.98	
LC0019	98	7.3	60.9	-1.86	
LC0020	164.8	10	102	0.11	
LC0021	207.52	62.26	129	1.37	
LC0022	199	88	124	1.12	
LC0023	188.4	4.09	117	0.81	
LC0024	110	16.5	68.3	-1.51	
LC0025	3.46	0.01	2.1	-4.66	H
LC0026	100.4	10	62.3	-1.79	
LC0027	2.7	0.41	1.7	-4.68	H
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	198	20	123	1.09	
LC0031	235	32.2	146	2.19	

**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	150 ± 34.3	161 ± 26.9	ng/l
Minimum	2.7	58.8	ng/l
Maximum	235	235	ng/l
Standard deviation	60.5	45.8	ng/l
rel. standard deviation	40.4	28.4	%
n	28	26	-

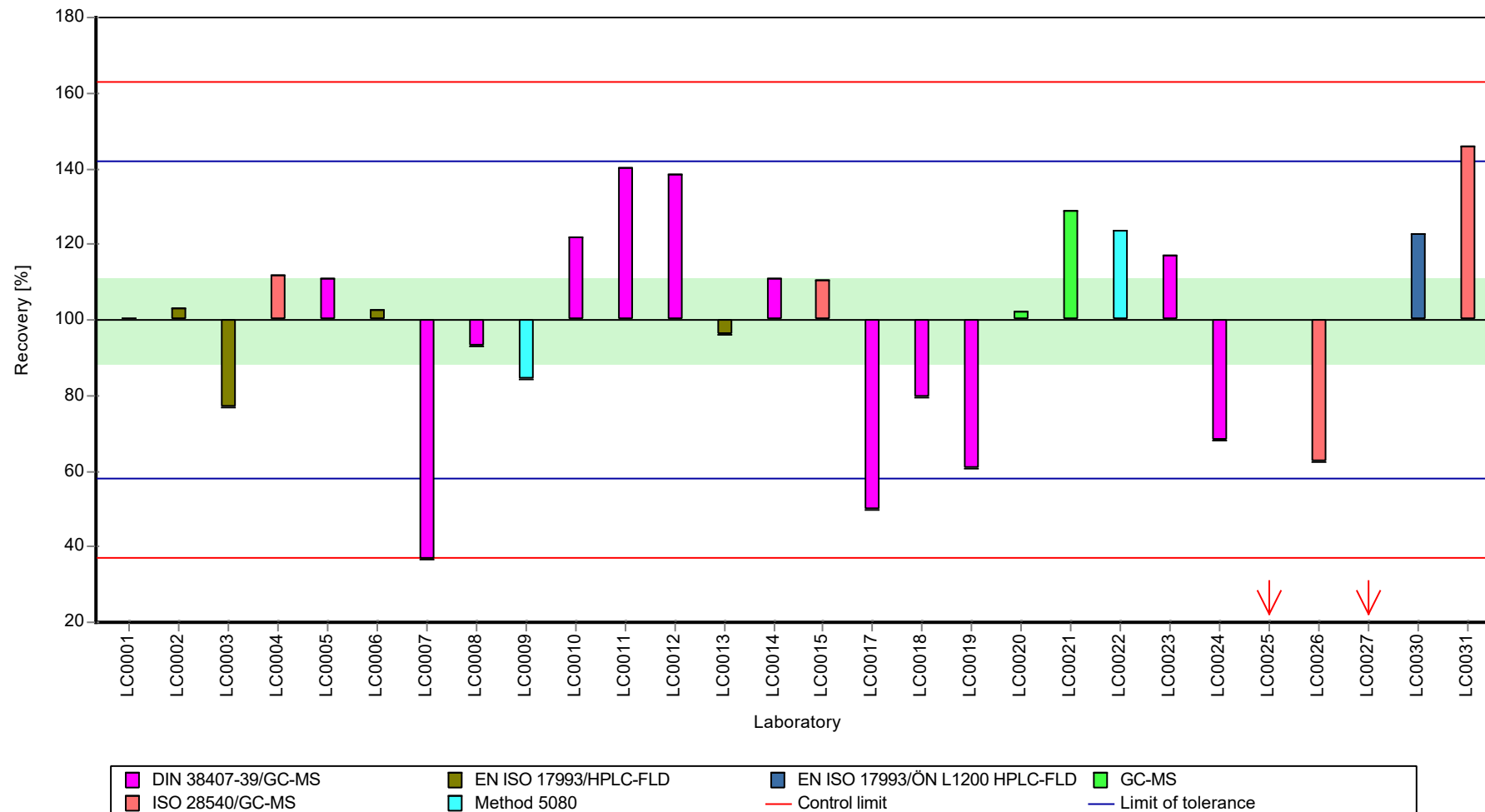
Graphical presentation of results

Results

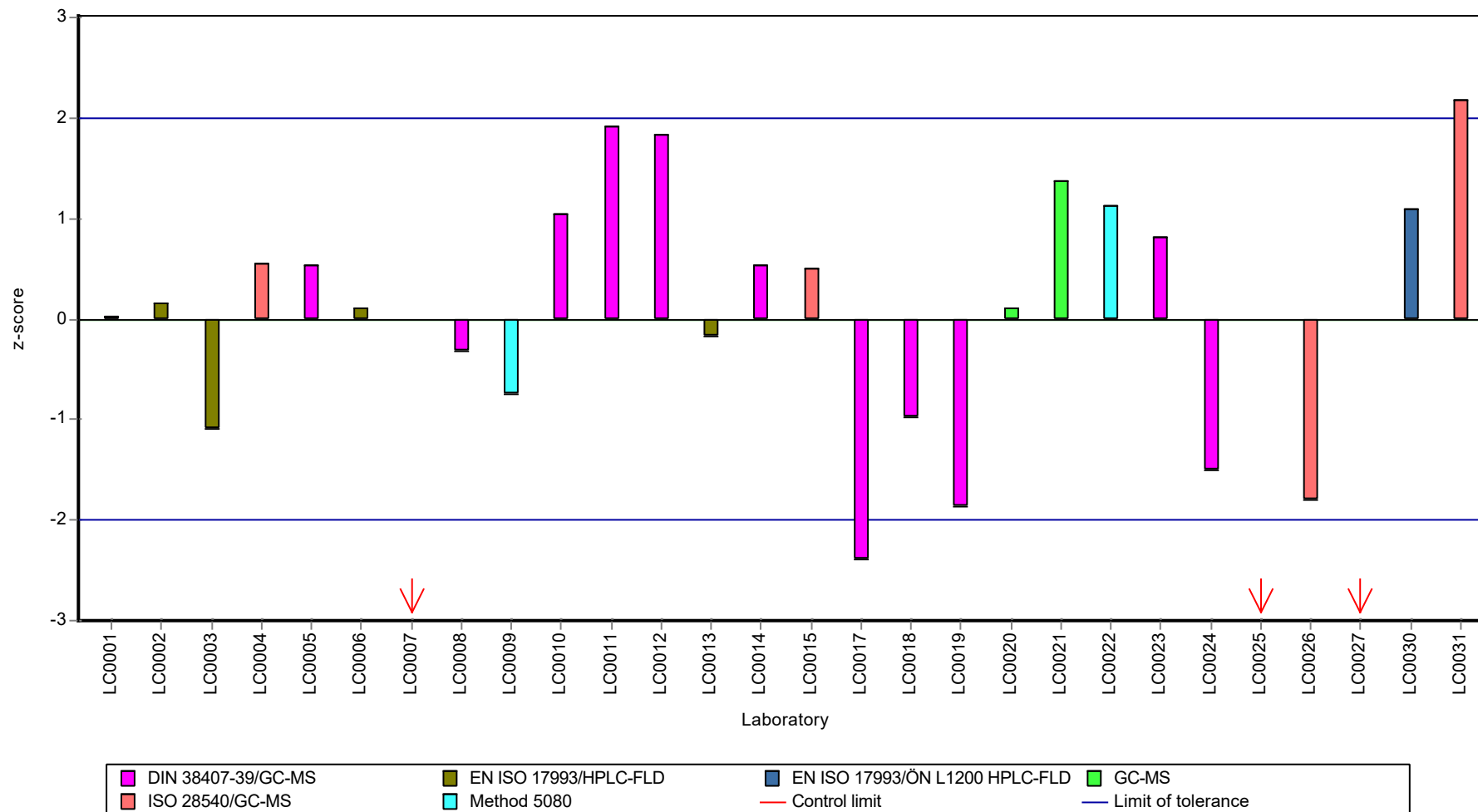




Recovery rate



**Z-score**



## Parameter oriented report

### P21 A

#### Benzo[a]pyrene

Unit	ng/l
Assigned value ± U (k=2)	11.1 ± 1.88
Criterion	2.66 (24 %)
Minimum - Maximum	0.128 - 20.1
Control test value ± U (k=2)	17.4 ± 4.88

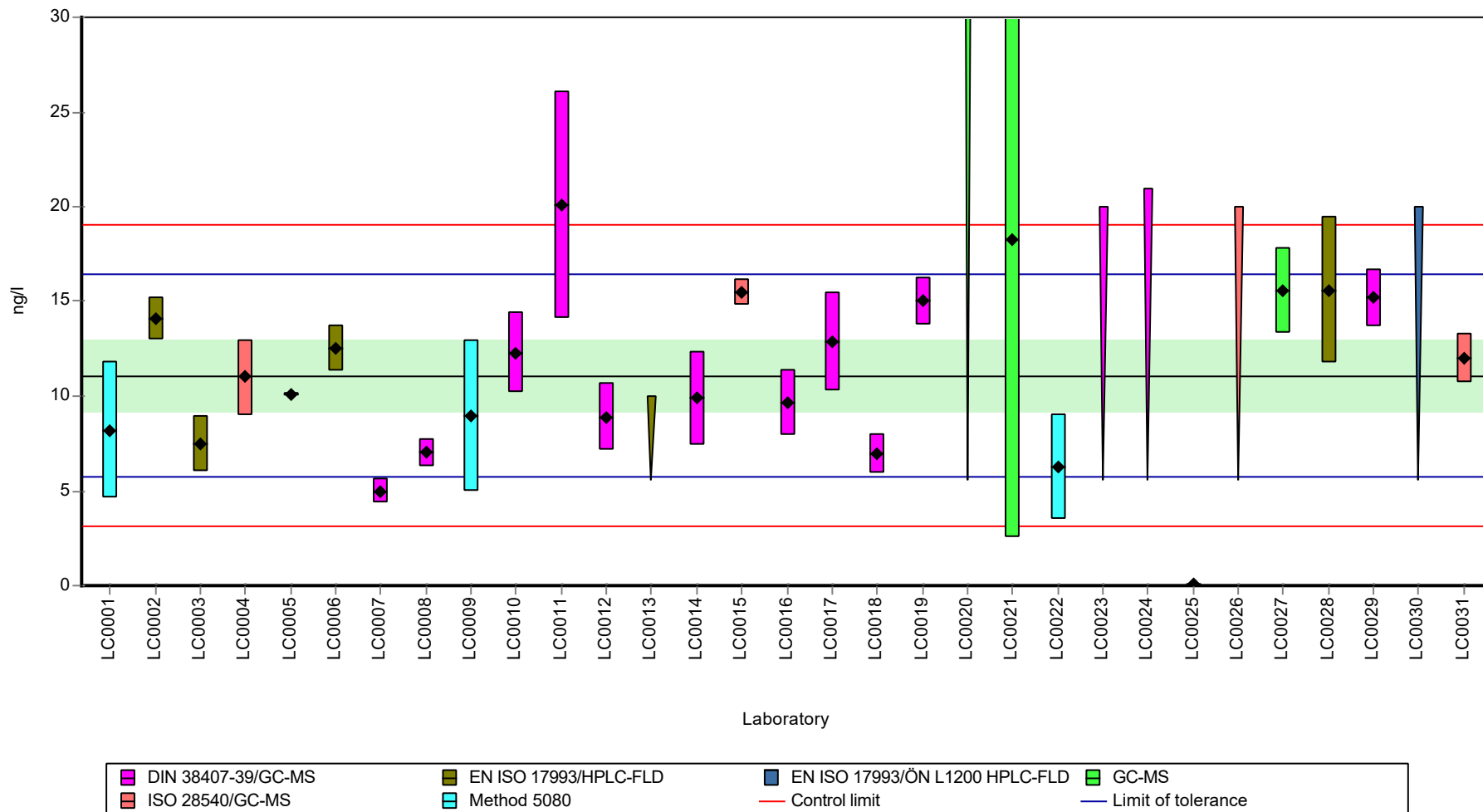
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	8.2	3.61	74	-1.08	
LC0002	14.1	1.1	127	1.14	
LC0003	7.5	1.5	67.7	-1.35	
LC0004	11	2	99.3	-0.03	
LC0005	10.1	0.1	91.2	-0.37	
LC0006	12.5	1.2	113	0.54	
LC0007	5	0.62	45.1	-2.29	
LC0008	7	0.7	63.2	-1.53	
LC0009	9	4	81.3	-0.78	
LC0010	12.3	2.153	111	0.46	
LC0011	20.1	6	181	3.39	
LC0012	8.9	1.8	80.3	-0.82	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	9.89	2.5	89.3	-0.45	
LC0015	15.5	0.707	140	1.66	
LC0016	9.67	1.75	87.3	-0.53	
LC0017	12.9	2.6	116	0.69	
LC0018	6.99	1.049	63.1	-1.54	
LC0019	15	1.3	135	1.48	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	18.29	15.73	165	2.71	
LC0022	6.27	2.76	56.6	-1.81	
LC0023	< 20 (LOQ)	-	-	-	
LC0024	< 21 (LOQ)	-	-	-	
LC0025	0.128	0.011	1.2	-4.12	
LC0026	< 20 (LOQ)	-	-	-	
LC0027	15.6	2.26	141	1.7	
LC0028	15.6	3.9	141	1.7	
LC0029	15.2	1.52	137	1.55	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	12	1.34	108	0.35	

**Characteristics of parameter**

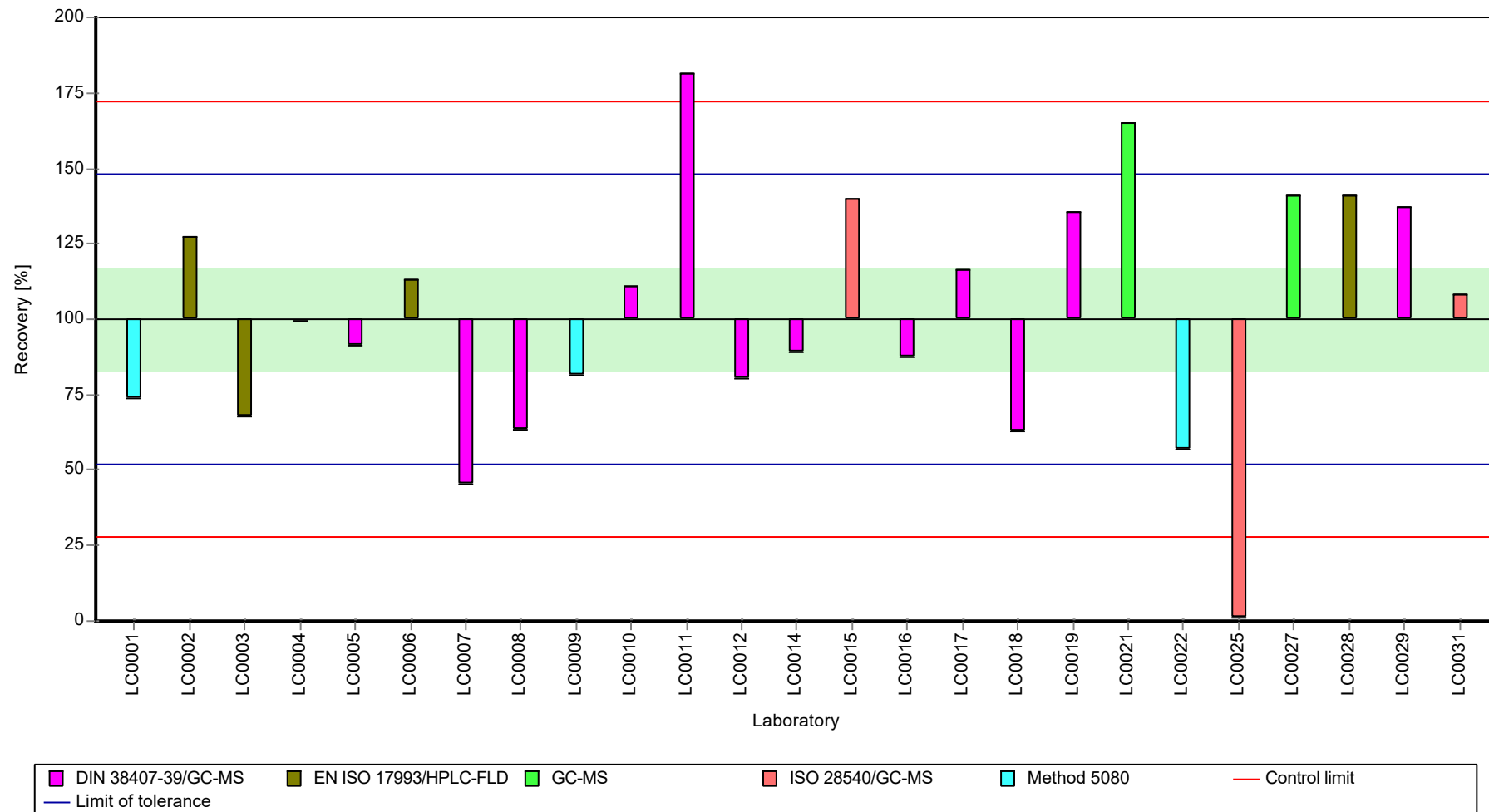
	all results	without outliers	Unit
Mean ± CI (99%)	11.1 ± 2.71	11.1 ± 2.71	ng/l
Minimum	0.128	0.128	ng/l
Maximum	20.1	20.1	ng/l
Standard deviation	4.52	4.52	ng/l
rel. standard deviation	40.6	40.6	%
n	25	25	-

Graphical presentation of results

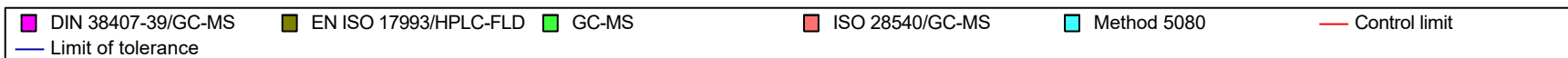
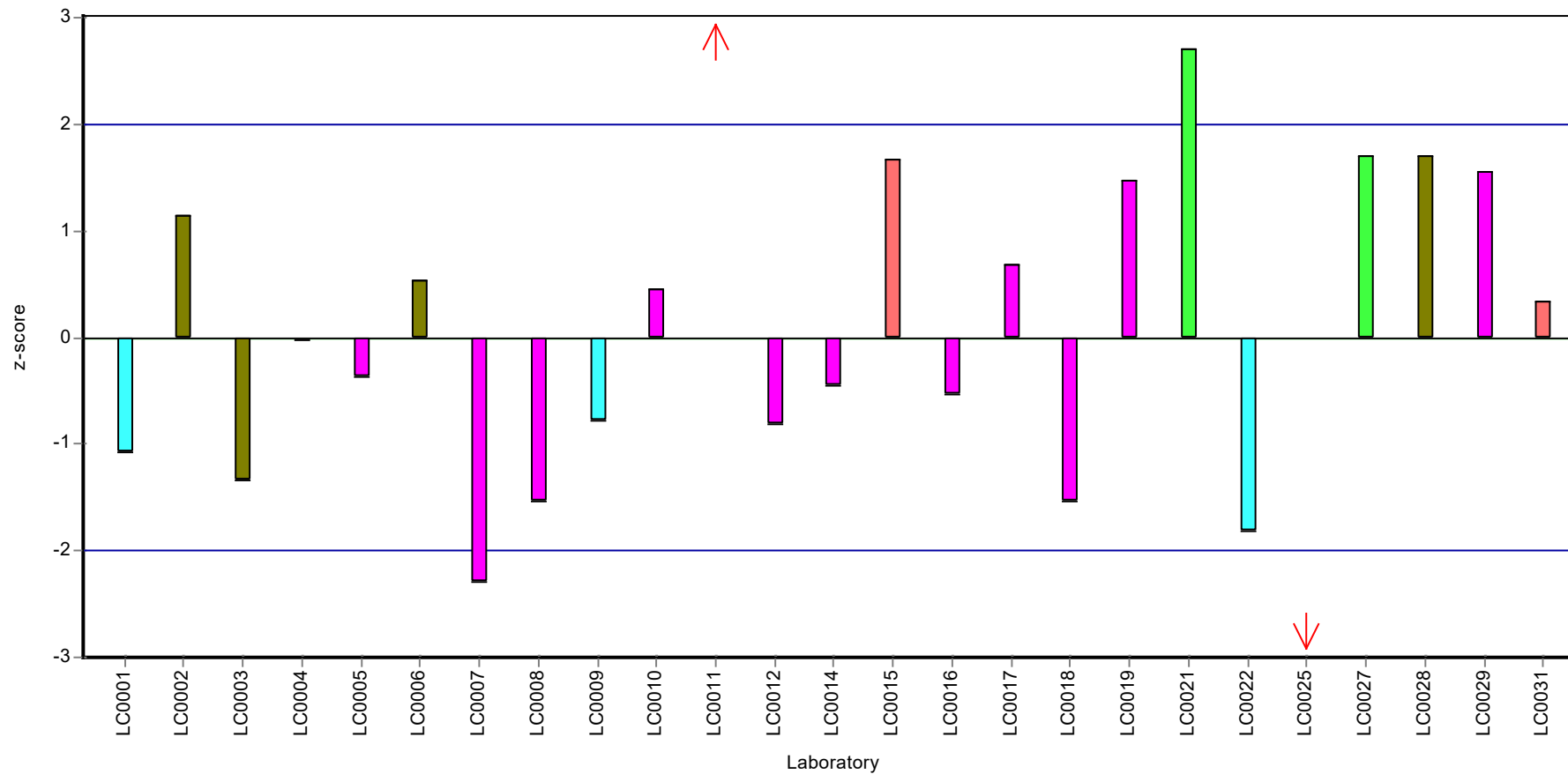
Results



**Recovery rate**



Z-score



## Parameter oriented report

### P21 B

#### Benzo[a]pyrene

Unit	ng/l
Assigned value ± U (k=2)	152 ± 15
Criterion	36.5 (24 %)
Minimum - Maximum	59.6 - 231
Control test value ± U (k=2)	190 ± 53.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	144.9	63.78	95.4	-0.19	
LC0002	156	11.9	103	0.11	
LC0003	115	23	75.7	-1.01	
LC0004	160	30	105	0.22	
LC0005	174	12	115	0.6	
LC0006	155	15	102	0.08	
LC0007	59.6	7.28	39.2	-2.53	
LC0008	110	11	72.4	-1.15	
LC0009	152	66.9	100	0.00	
LC0010	181.99	31.85	120	0.82	
LC0011	183	55	120	0.85	
LC0012	180	36	118	0.77	
LC0013	118	3.32	77.7	-0.93	
LC0014	171	30	113	0.52	
LC0015	172	2.121	113	0.55	
LC0016	188.24	34.07	124	1	
LC0017	109.2	21.8	71.9	-1.17	
LC0018	122	18.227	80.3	-0.82	
LC0019	106	9.3	69.8	-1.26	
LC0020	163.8	10	108	0.33	
LC0021	221.54	190.53	146	1.91	
LC0022	162	71	107	0.28	
LC0023	139.8	3.19	92	-0.33	
LC0024	110	11	72.4	-1.15	
LC0025	4.1	0.011	2.7	-4.05	H
LC0026	74.8	7.5	49.2	-2.12	
LC0027	2.24	0.32	1.5	-4.11	H
LC0028	196.9	49.2	130	1.23	
LC0029	231	23.1	152	2.17	
LC0030	190	19	125	1.04	
LC0031	158	17.7	104	0.17	

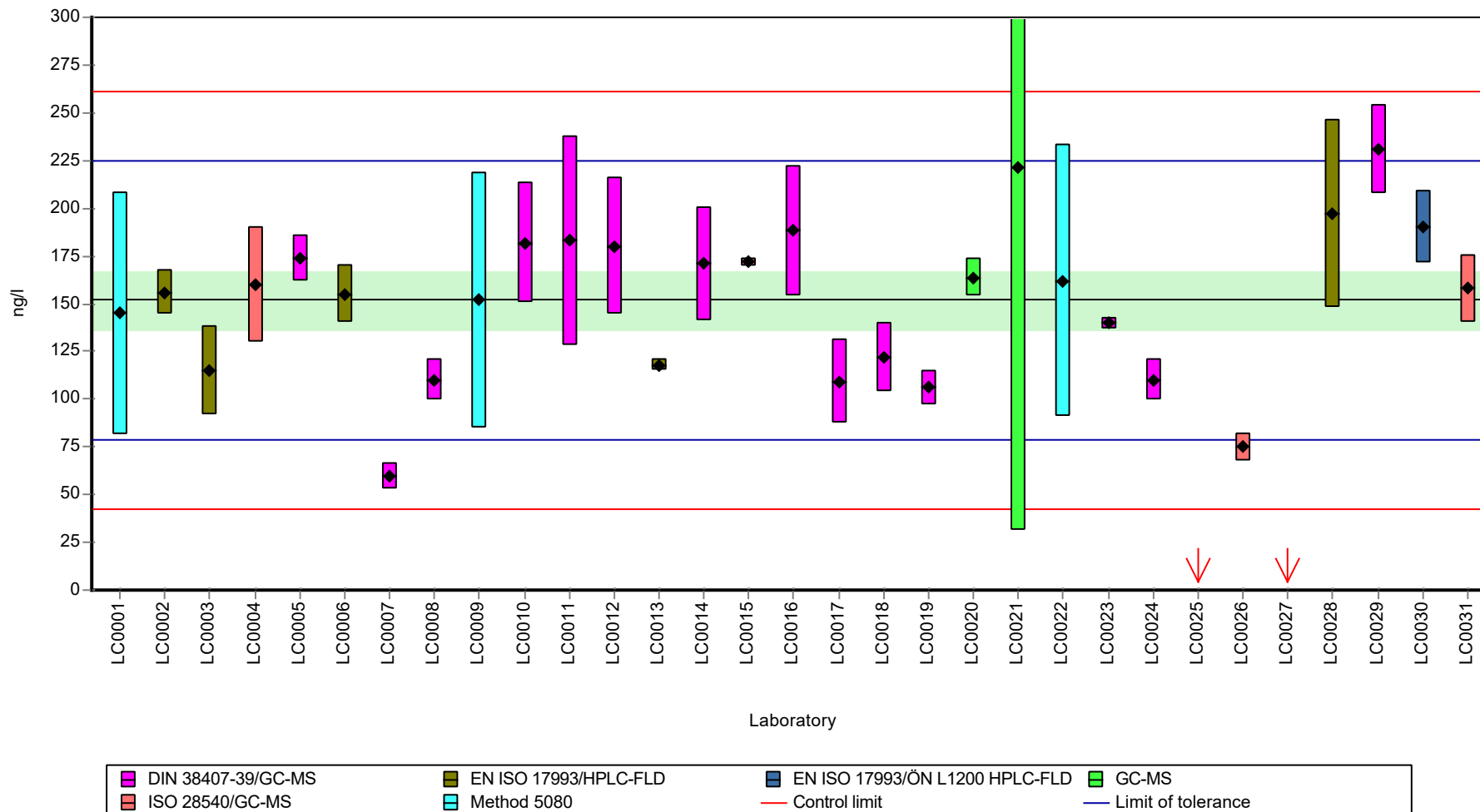


**Characteristics of parameter**

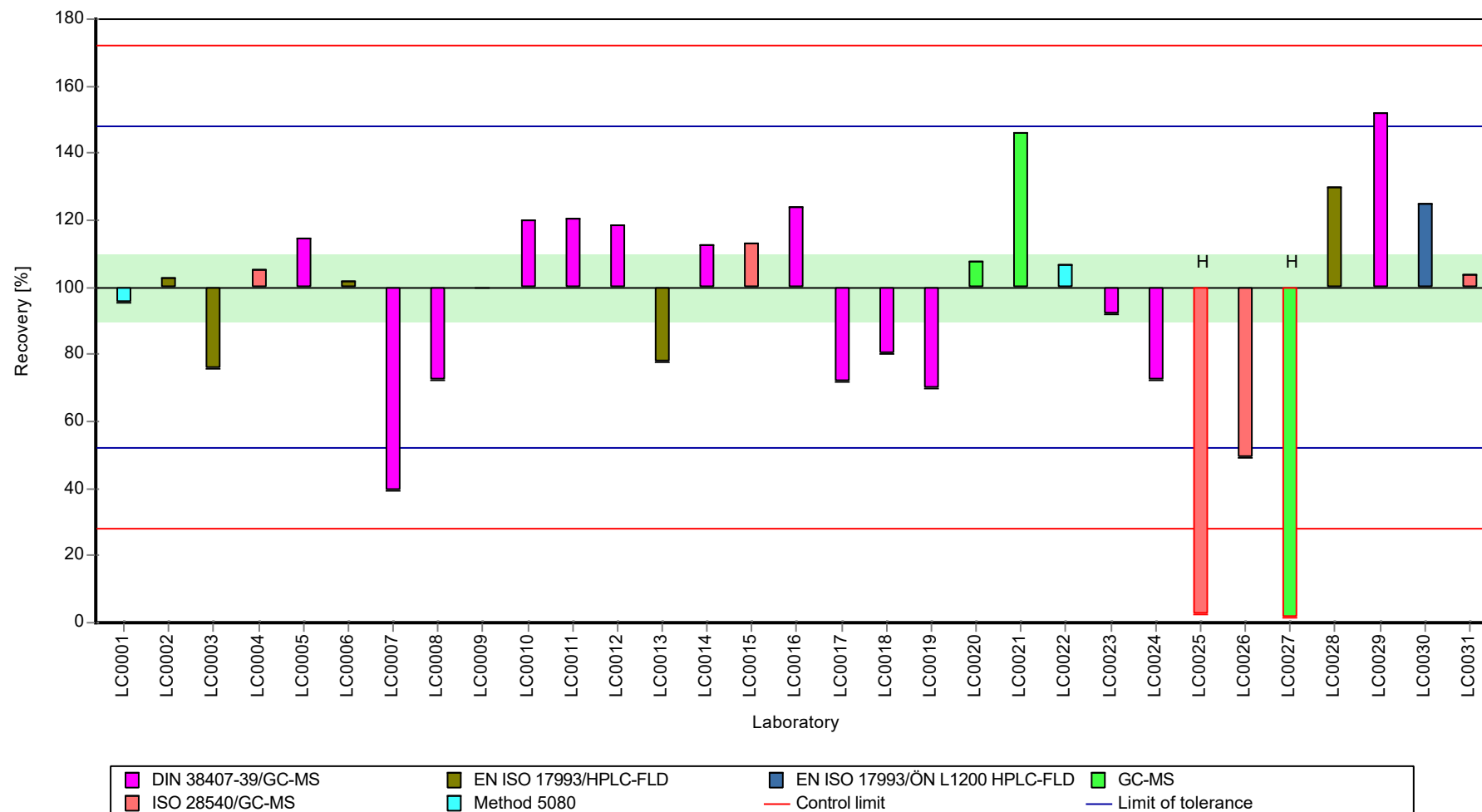
	all results	without outliers	Unit
Mean ± CI (99%)	142 ± 29	152 ± 22.5	ng/l
Minimum	2.24	59.6	ng/l
Maximum	231	231	ng/l
Standard deviation	53.9	40.4	ng/l
rel. standard deviation	37.9	26.6	%
n	31	29	-

Graphical presentation of results

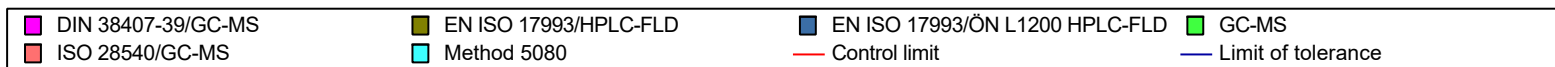
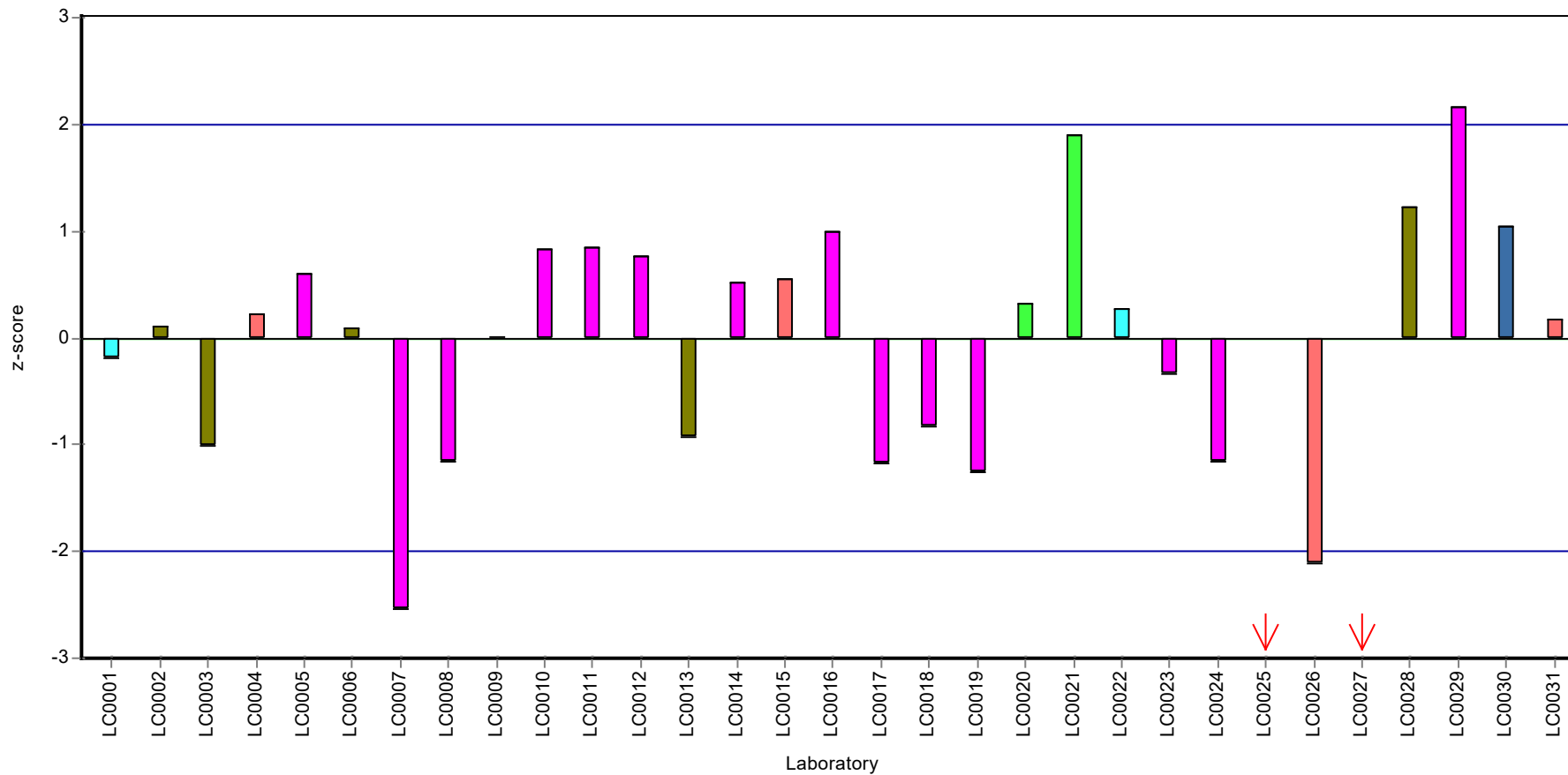
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 A

#### Benzo[b]fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	21 ± 1.85
Criterion	3.58 (17 %)
Minimum - Maximum	8.4 - 30.7
Control test value ± U (k=2)	26.3 ± 6.84

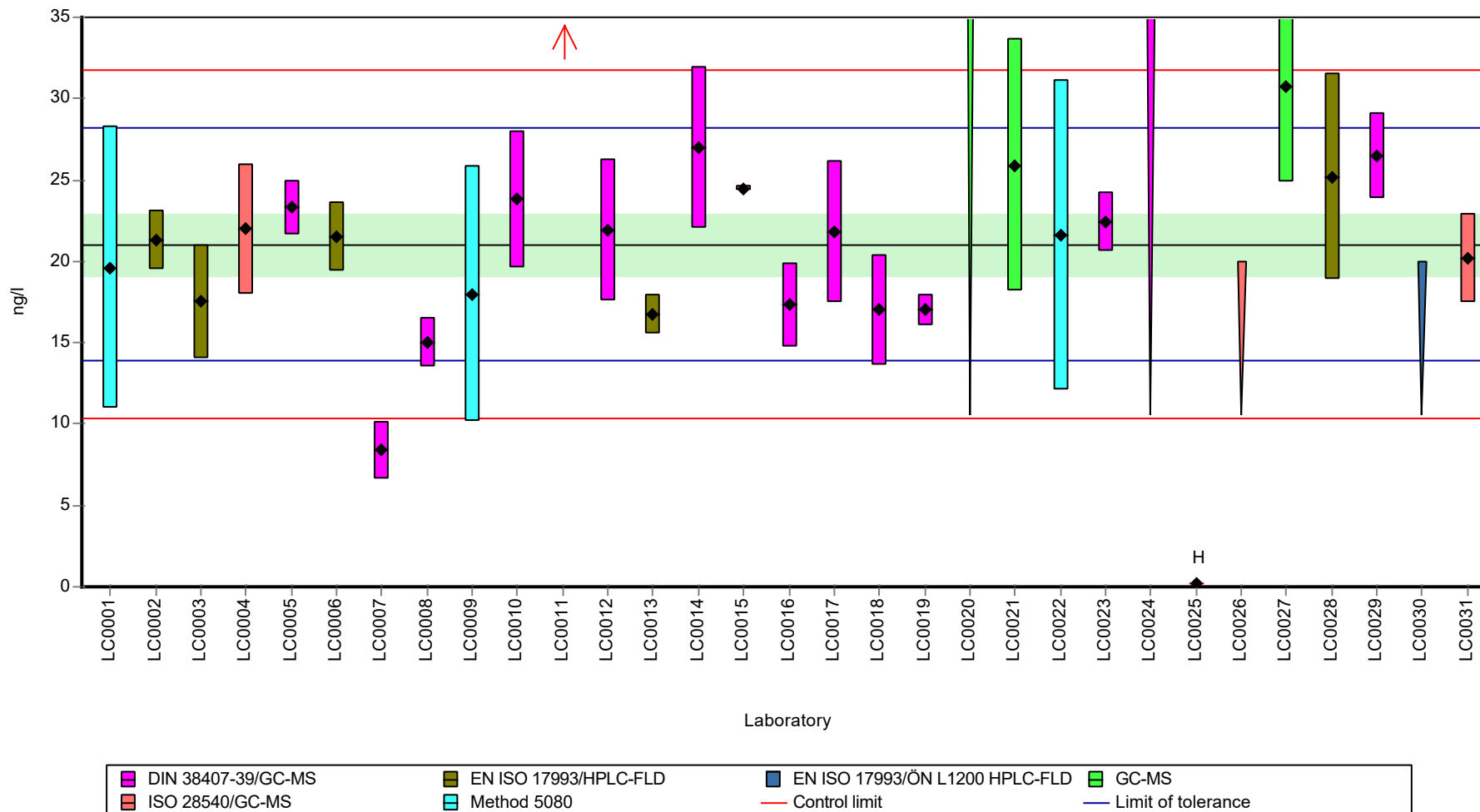
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	19.63	8.64	93.3	-0.4	
LC0002	21.3	1.8	101	0.07	
LC0003	17.5	3.5	83.2	-0.99	
LC0004	22	4	105	0.27	
LC0005	23.3	1.7	111	0.63	
LC0006	21.5	2.1	102	0.13	
LC0007	8.4	1.78	39.9	-3.53	
LC0008	15	1.5	71.3	-1.69	
LC0009	18	7.9	85.5	-0.85	
LC0010	23.79	4.164	113	0.77	
LC0011	40.5	12	192	5.44	H
LC0012	21.9	4.4	104	0.24	
LC0013	16.7	1.22	79.3	-1.21	
LC0014	27	5	128	1.66	
LC0015	24.5	0.141	116	0.96	
LC0016	17.32	2.57	82.3	-1.04	
LC0017	21.8	4.4	104	0.21	
LC0018	17.03	3.406	80.9	-1.12	
LC0019	17	0.95	80.8	-1.13	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	25.88	7.76	123	1.35	
LC0022	21.6	9.5	103	0.15	
LC0023	22.4	1.85	106	0.38	
LC0024	< 38 (LOQ)	-	-	-	
LC0025	0.206	0.012	1	-5.82	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	30.7	5.83	146	2.7	
LC0028	25.2	6.3	120	1.16	
LC0029	26.5	2.65	126	1.52	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	20.2	2.75	96	-0.24	

**Characteristics of parameter**

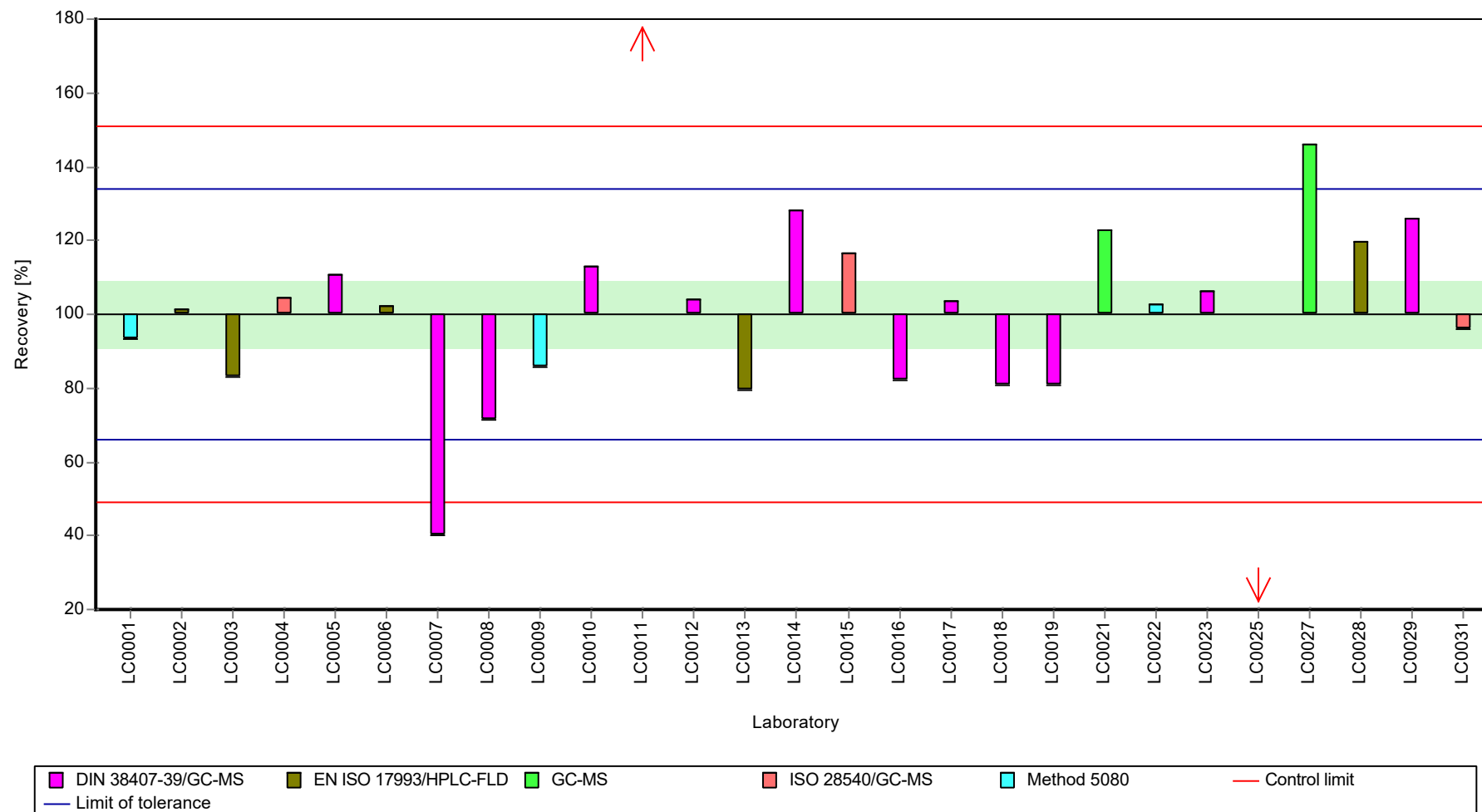
	all results	without outliers	Unit
Mean ± CI (99%)	21 ± 4.12	21 ± 2.78	ng/l
Minimum	0.206	8.4	ng/l
Maximum	40.5	30.7	ng/l
Standard deviation	7.14	4.63	ng/l
rel. standard deviation	34	22	%
n	27	25	-

Graphical presentation of results

Results

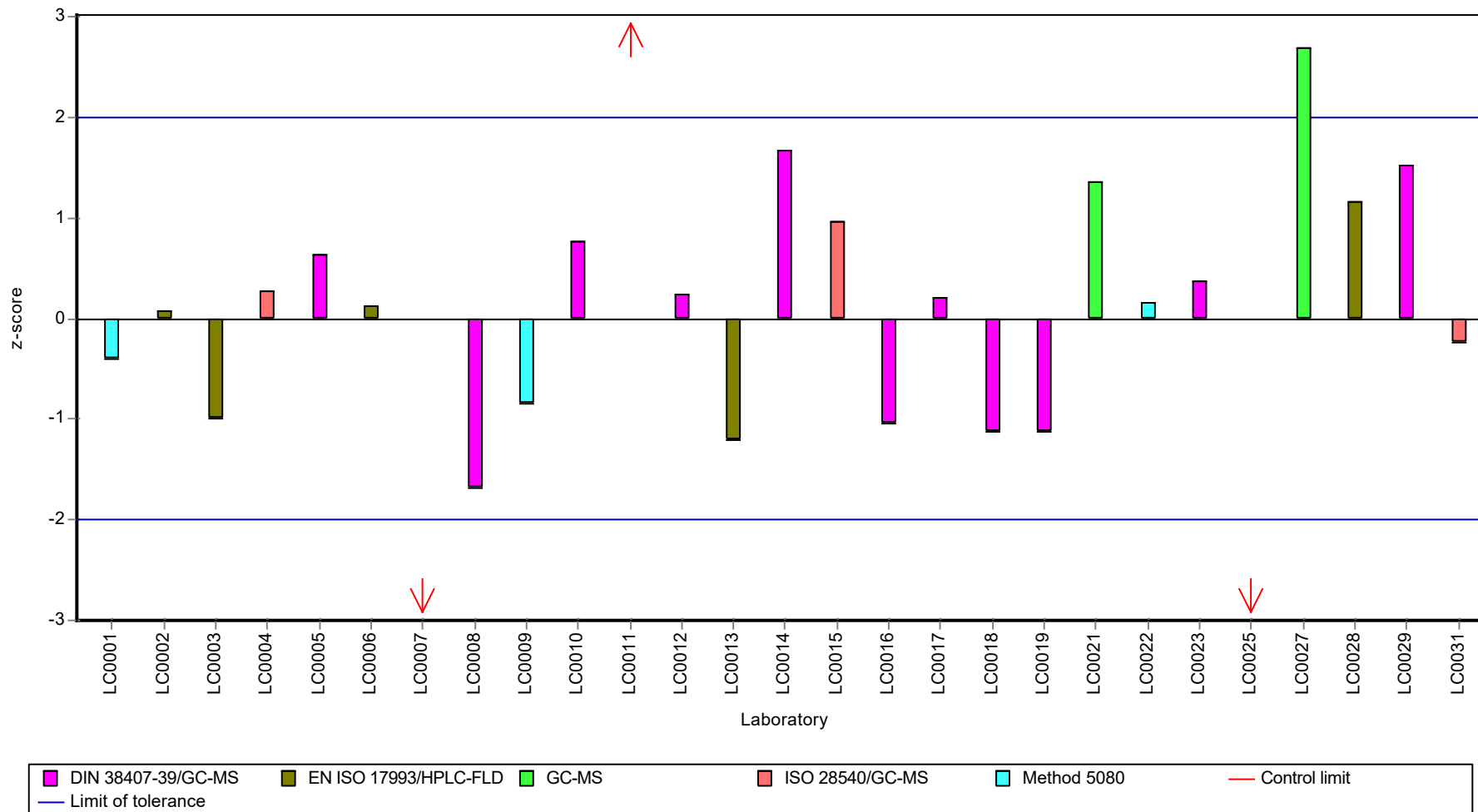


Recovery rate





Z-score



## Parameter oriented report

### P21 B

#### Benzo[b]fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	67.6 ± 5.97
Criterion	11.5 (17 %)
Minimum - Maximum	31.3 - 97.6
Control test value ± U (k=2)	88 ± 22.9

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	63.3	27.8	93.6	-0.38	
LC0002	67.5	5.7	99.8	-0.01	
LC0003	47.5	9.5	70.2	-1.75	
LC0004	71	13	105	0.29	
LC0005	78.2	4.9	116	0.92	
LC0006	70.5	7	104	0.25	
LC0007	25.9	5.48	38.3	-3.63	H
LC0008	57	5.7	84.3	-0.93	
LC0009	45	19.8	66.5	-1.97	
LC0010	93.11	16.29	138	2.21	
LC0011	97.6	29	144	2.6	
LC0012	67.1	13.4	99.2	-0.05	
LC0013	65.4	2.35	96.7	-0.2	
LC0014	75.9	20	112	0.72	
LC0015	78.9	0.495	117	0.98	
LC0016	58.88	8.74	87	-0.76	
LC0017	42.7	8.5	63.1	-2.17	
LC0018	63.9	12.781	94.5	-0.33	
LC0019	40	2.2	59.1	-2.4	
LC0020	75.6	10	112	0.69	
LC0021	76.16	22.85	113	0.74	
LC0022	69.5	30.6	103	0.16	
LC0023	65.3	0.75	96.5	-0.2	
LC0024	71.6	23	106	0.34	
LC0025	4.4	0.012	6.5	-5.5	H
LC0026	31.3	3.1	46.3	-3.16	
LC0027	2.13	0.4	3.1	-5.7	H
LC0028	86.8	21.7	128	1.67	
LC0029	88	8.8	130	1.77	
LC0030	72.3	7.2	107	0.41	
LC0031	74	10.1	109	0.55	

Parameter oriented report Polycyclic Aromatic  
Hydrocarbons P21

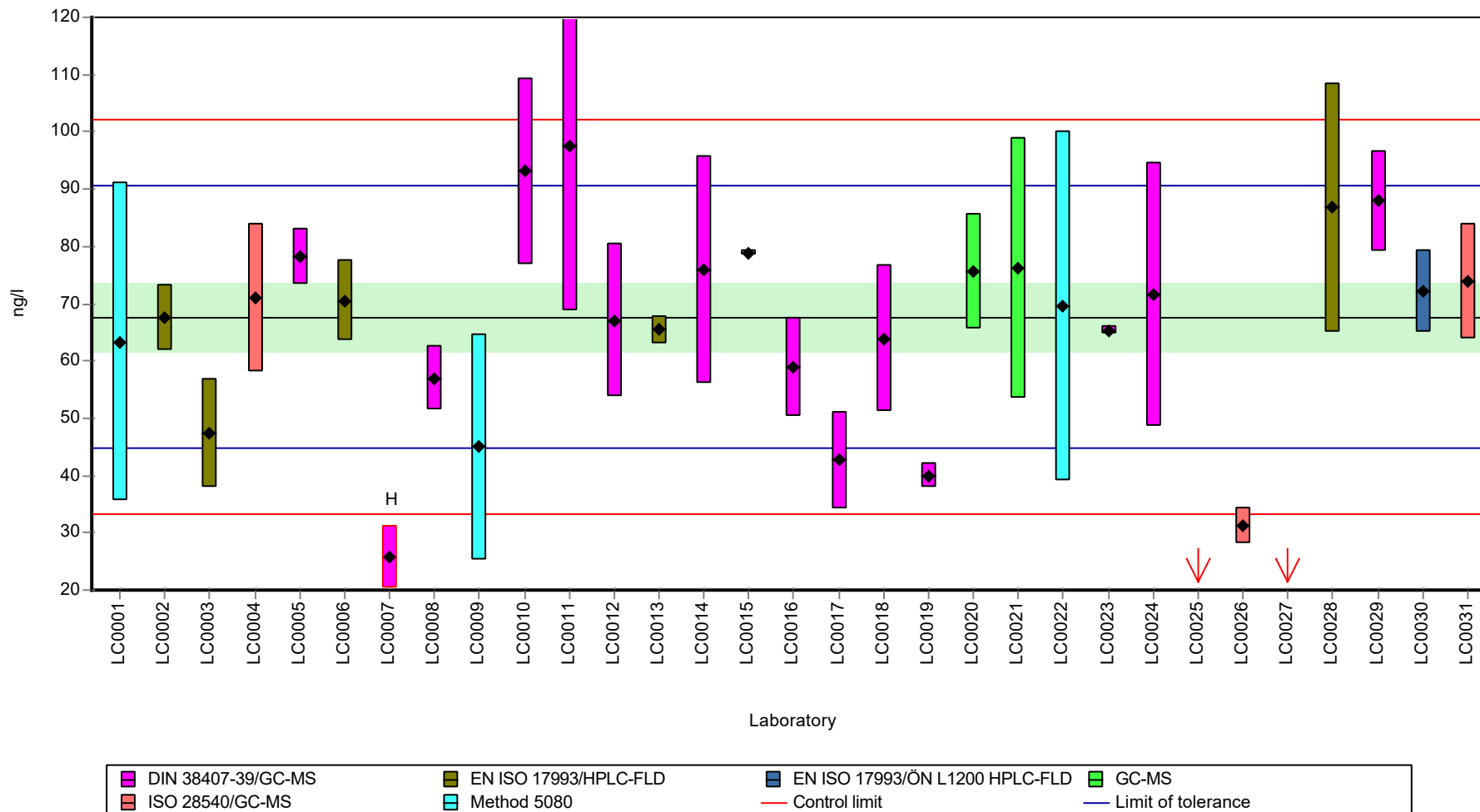
Sample: P21B, Parameter: Benzo[b]fluoranthene

**Characteristics of parameter**

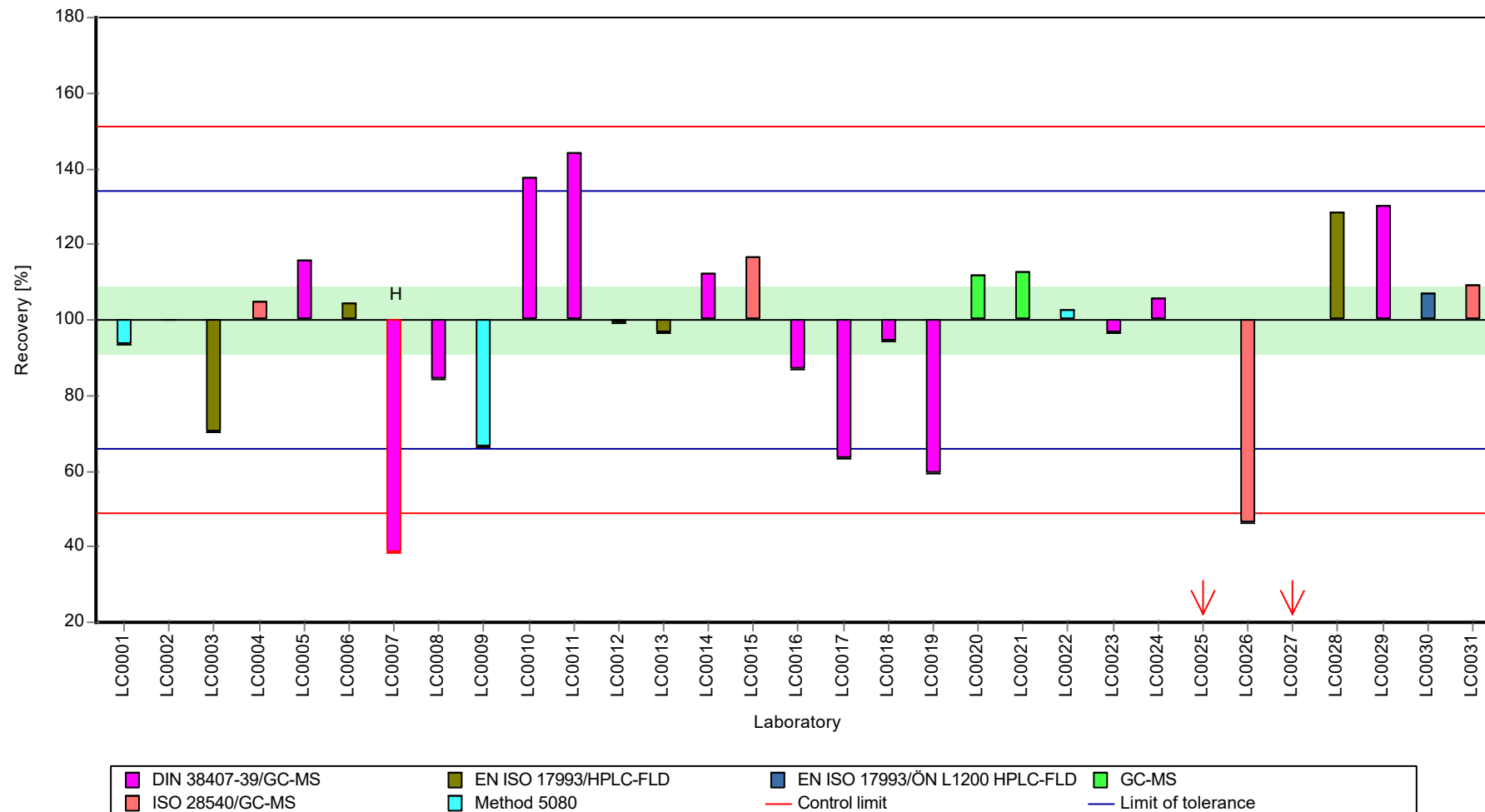
	all results	without outliers	Unit
Mean ± CI (99%)	62.1 ± 12.4	67.6 ± 8.95	ng/l
Minimum	2.13	31.3	ng/l
Maximum	97.6	97.6	ng/l
Standard deviation	23	15.8	ng/l
rel. standard deviation	37	23.3	%
n	31	28	-

Graphical presentation of results

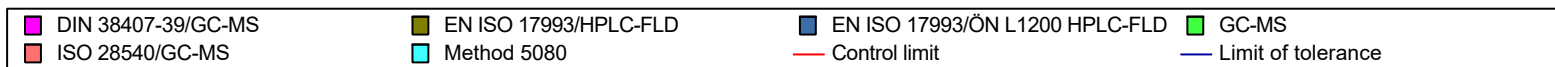
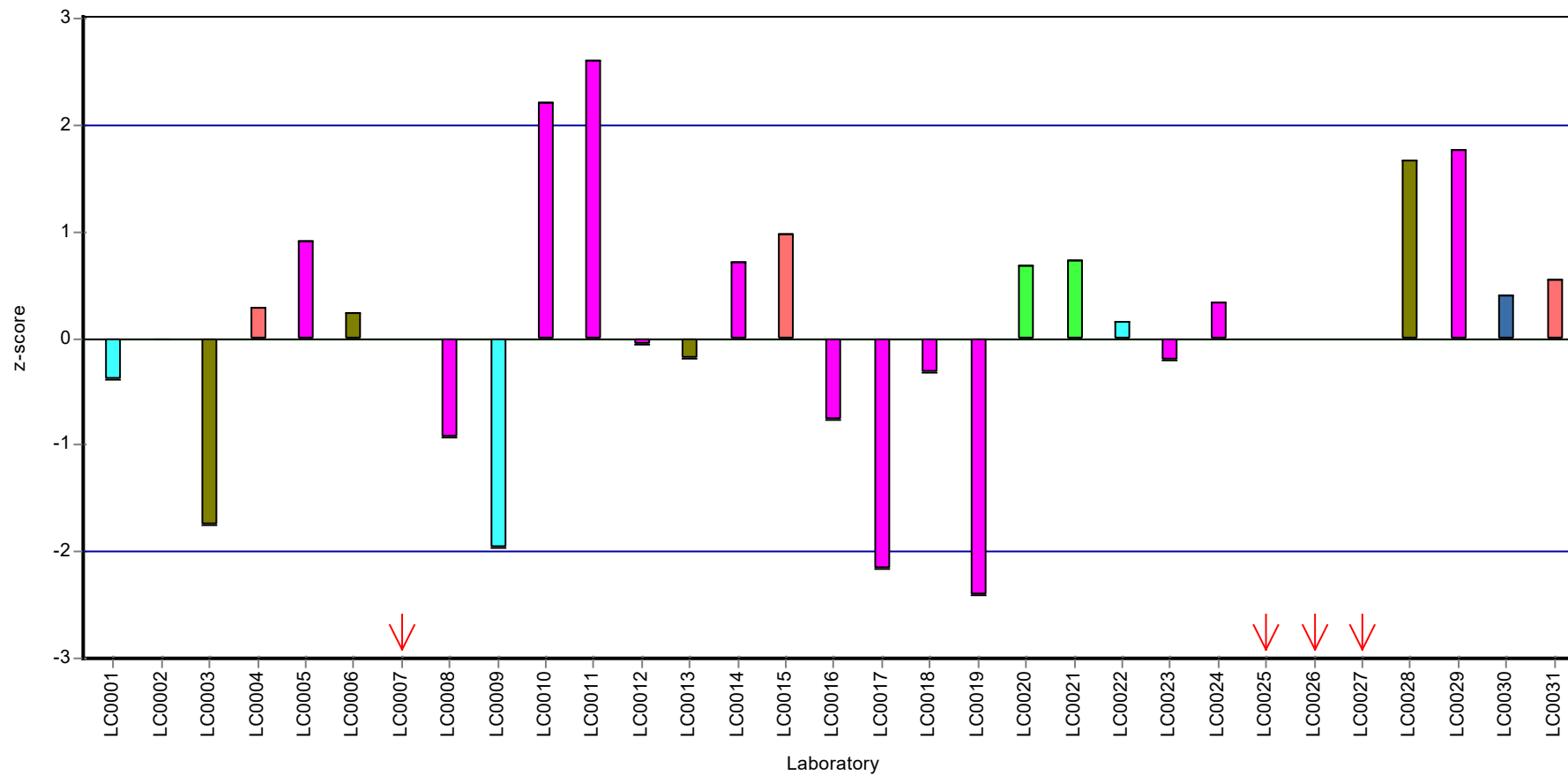
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 A

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

Unit	ng/l
Assigned value ± U (k=2)	13.4 ± 1.52
Criterion	4.3 (32 %)
Minimum - Maximum	5.7 - 21.2
Control test value ± U (k=2)	18.3 ± 5.86

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.26	5.83	98.8	-0.04	
LC0002	13	1.8	96.9	-0.1	
LC0003	8.5	1.7	63.3	-1.15	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	16.1	1.3	120	0.62	
LC0006	14	1.4	104	0.13	
LC0007	5.7	0.72	42.5	-1.8	
LC0008	11	1.1	82	-0.56	
LC0009	15	6.6	112	0.37	
LC0010	14.31	2.505	107	0.21	
LC0011	18.8	5.6	140	1.25	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	15.7	3	117	0.53	
LC0015	16	0.778	119	0.6	
LC0016	12.08	2.87	90	-0.31	
LC0017	11	2.2	82	-0.56	
LC0018	8.47	2.455	63.1	-1.15	
LC0019	11	0.91	82	-0.56	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	21.17	6.35	158	1.8	
LC0022	9.55	4.2	71.1	-0.9	
LC0023	10.7	1.82	79.7	-0.63	
LC0024	< 47 (LOQ)	-	-	-	
LC0025	0.114	0.009	0.8	-3.1	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	15.08	2.58	112	0.39	
LC0028	17.8	4.4	133	1.02	
LC0029	15	1.5	112	0.37	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	15.5	2.3	115	0.48	

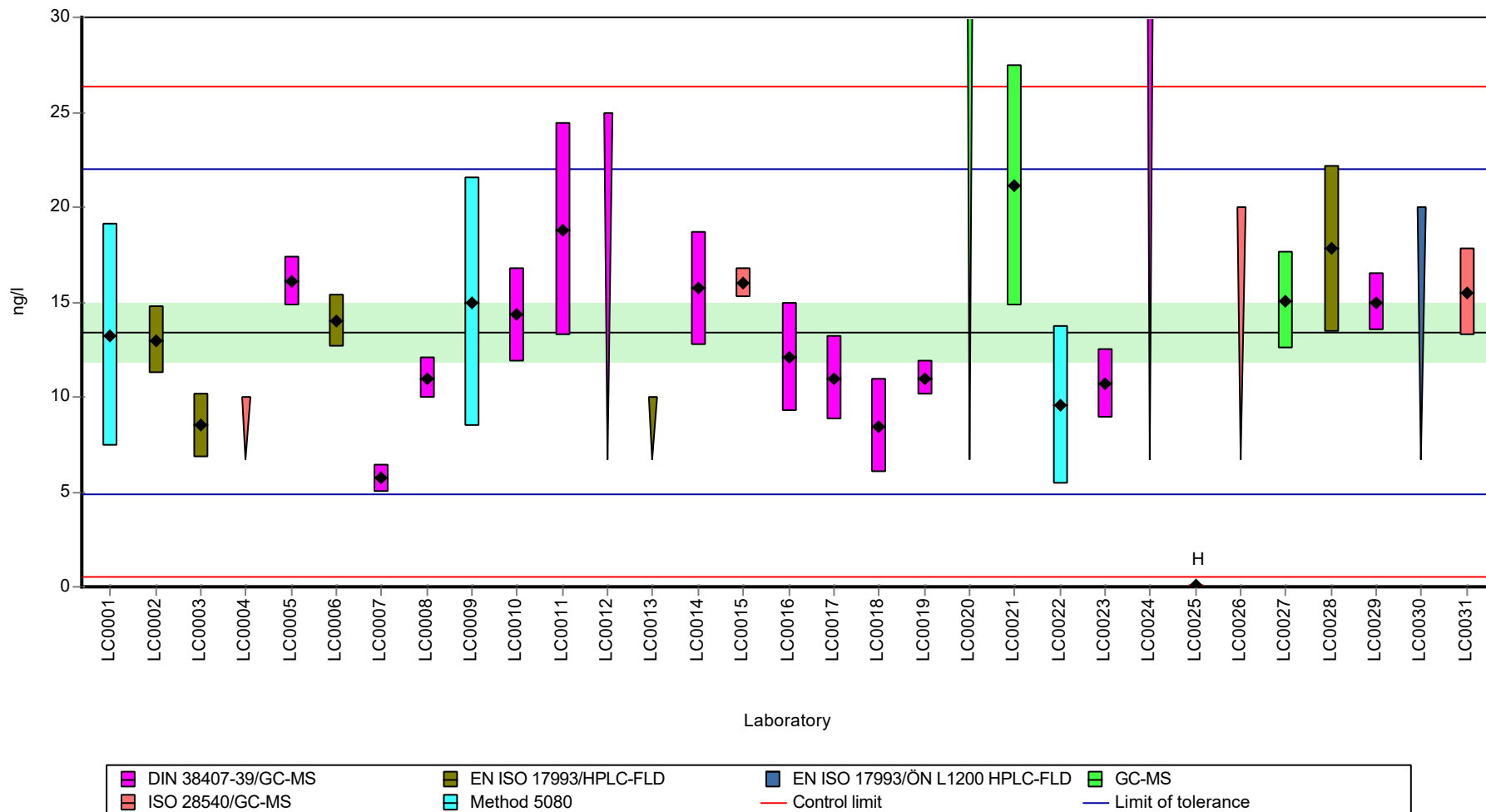
**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	12.9 ± 2.74	13.4 ± 2.27	ng/l
Minimum	0.114	5.7	ng/l
Maximum	21.2	21.2	ng/l
Standard deviation	4.47	3.63	ng/l
rel. standard deviation	34.8	27.1	%
n	24	23	-

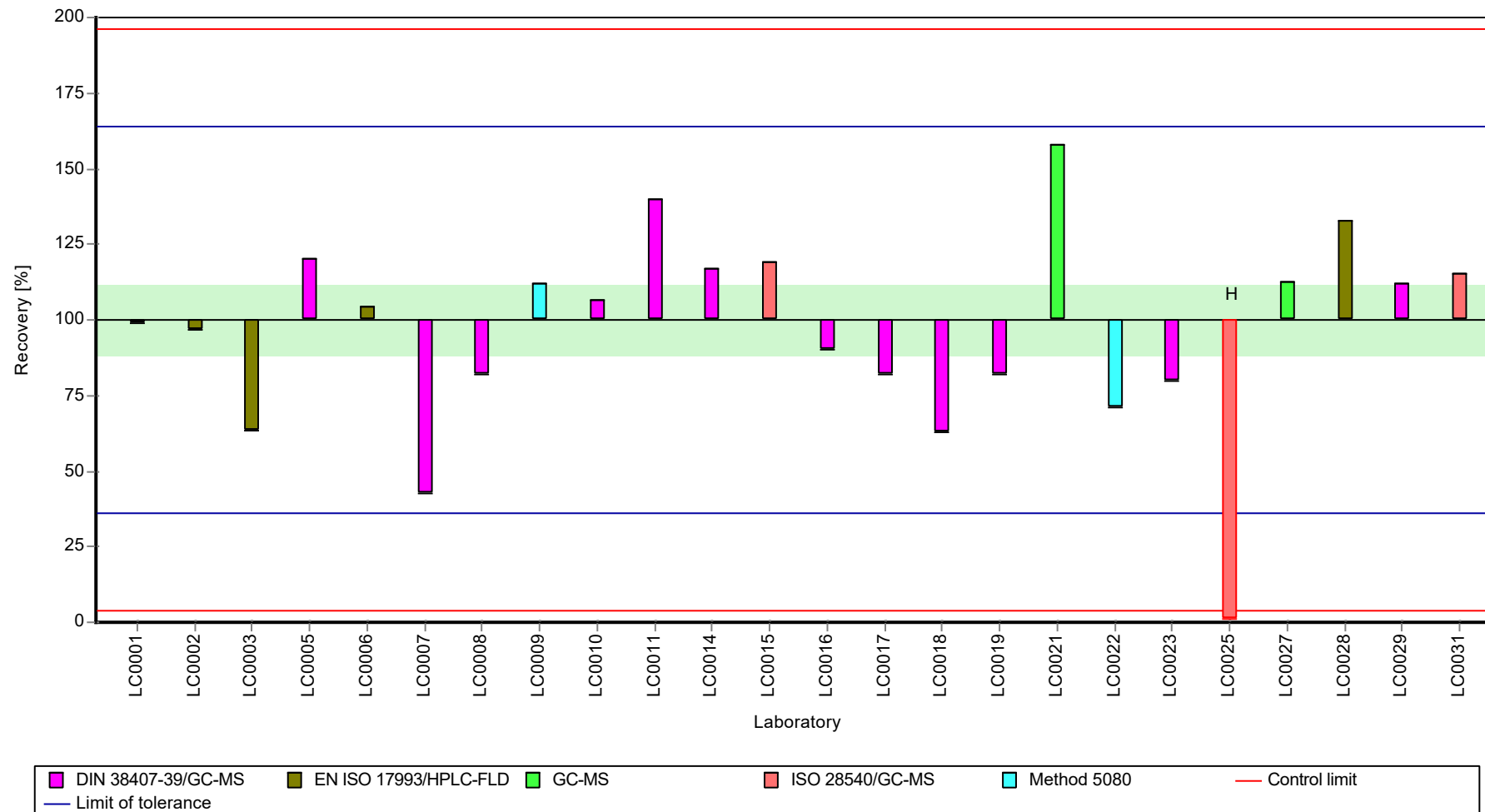


Graphical presentation of results

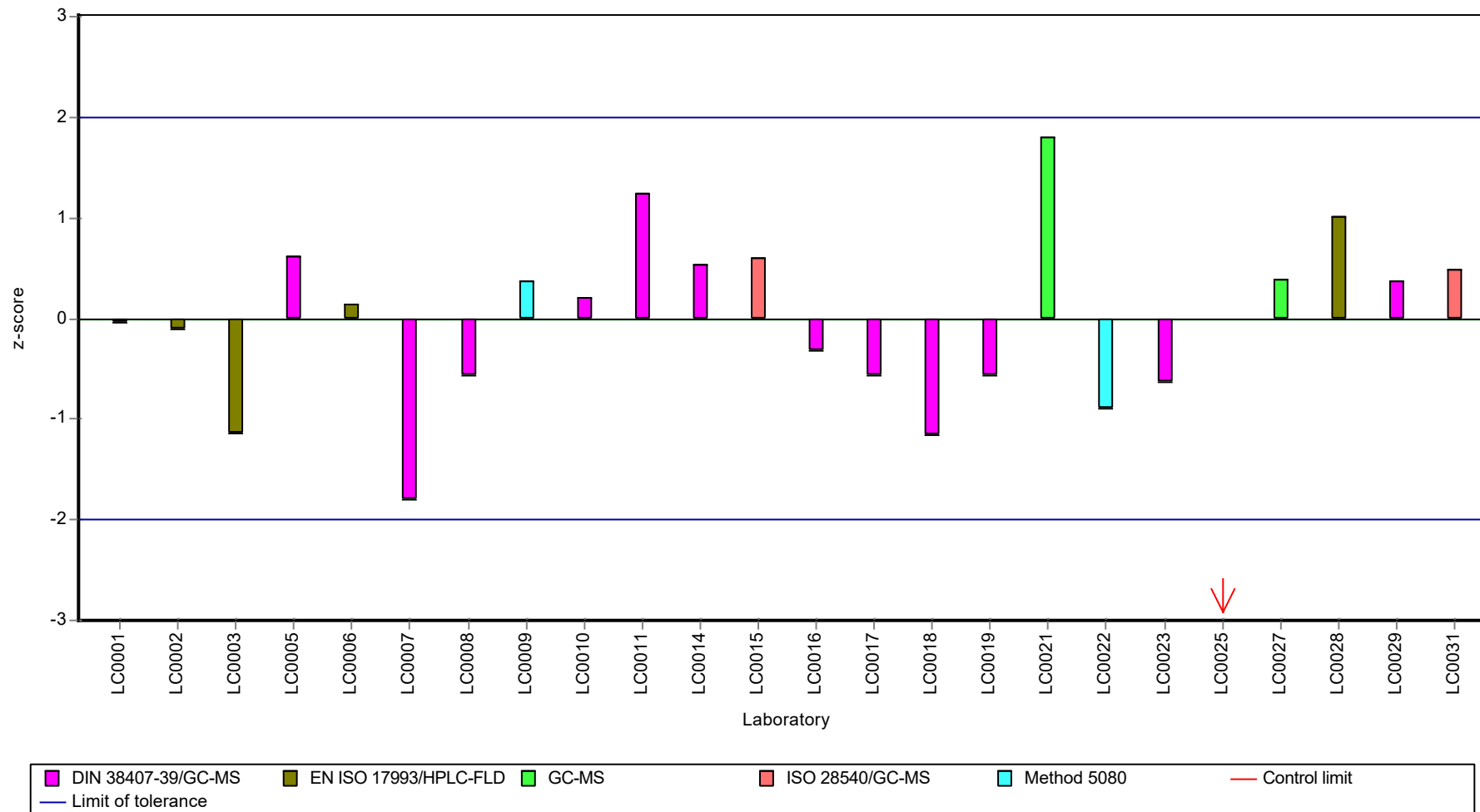
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

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

Unit	ng/l
Assigned value ± U (k=2)	56.2 ± 5.53
Criterion	18 (32 %)
Minimum - Maximum	25.2 - 79.5
Control test value ± U (k=2)	72.3 ± 23.1

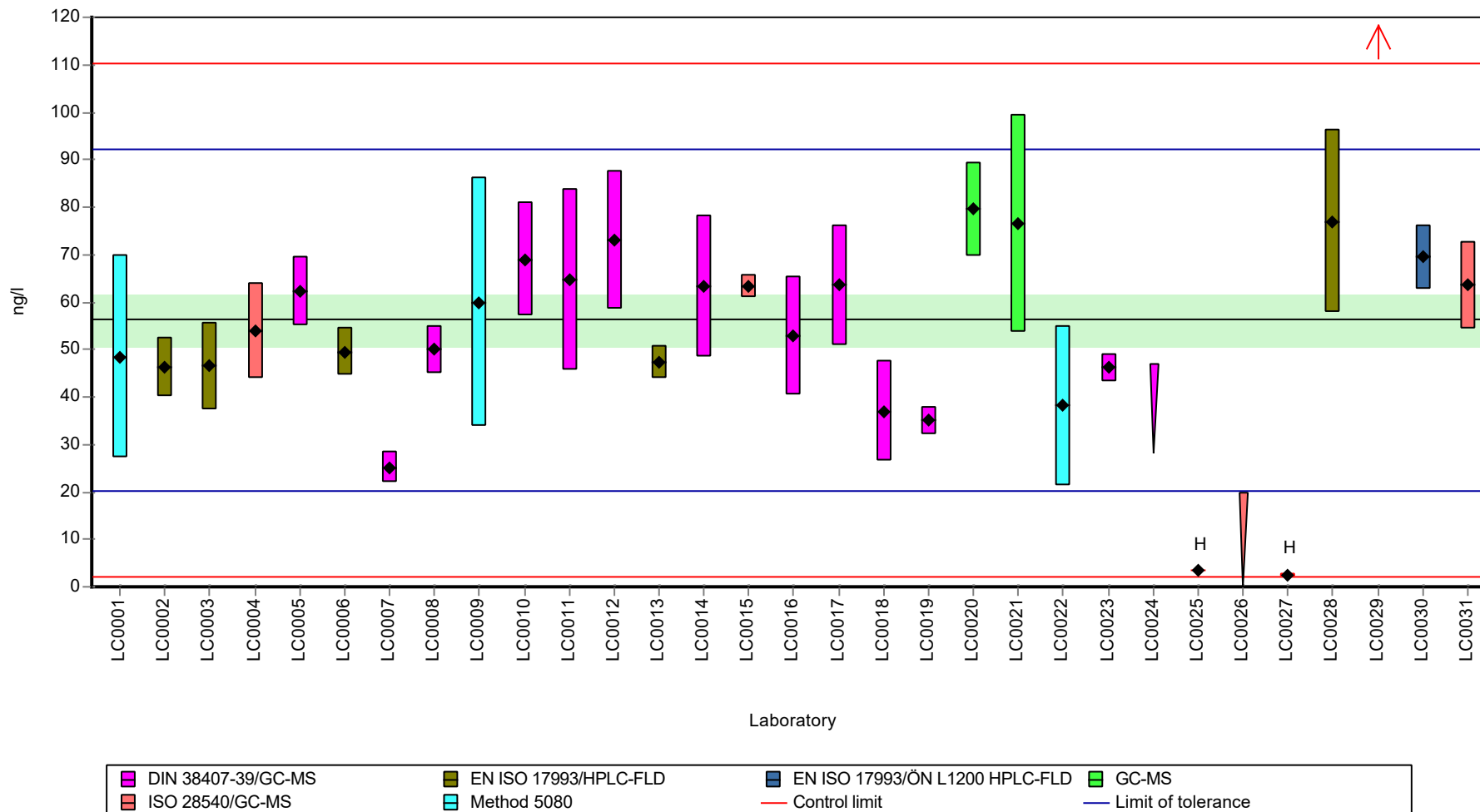
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	48.45	21.32	86.2	-0.43	
LC0002	46.2	6.3	82.2	-0.56	
LC0003	46.5	9.3	82.7	-0.54	
LC0004	54	10	96.1	-0.12	
LC0005	62.3	7.4	111	0.34	
LC0006	49.5	5	88.1	-0.37	
LC0007	25.2	3.2	44.8	-1.72	
LC0008	50	5	89	-0.34	
LC0009	60	26.4	107	0.21	
LC0010	68.94	12.06	123	0.71	
LC0011	64.7	19	115	0.47	
LC0012	73	14.6	130	0.93	
LC0013	47.3	3.42	84.2	-0.49	
LC0014	63.2	15	112	0.39	
LC0015	63.2	2.475	112	0.39	
LC0016	52.96	12.6	94.2	-0.18	
LC0017	63.5	12.7	113	0.41	
LC0018	37	10.732	65.8	-1.07	
LC0019	35	2.9	62.3	-1.18	
LC0020	79.5	10	141	1.3	
LC0021	76.48	22.94	136	1.13	
LC0022	38.1	16.8	67.8	-1.01	
LC0023	46.2	2.97	82.2	-0.56	
LC0024	< 47 (LOQ)	-	-	-	
LC0025	3.57	0.0093	6.3	-2.93	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	2.37	0.41	4.2	-2.99	H
LC0028	77	19.2	137	1.16	
LC0029	160.75	16.1	286	5.81	H
LC0030	69.4	6.9	123	0.73	
LC0031	63.5	9.33	113	0.41	

**Characteristics of parameter**

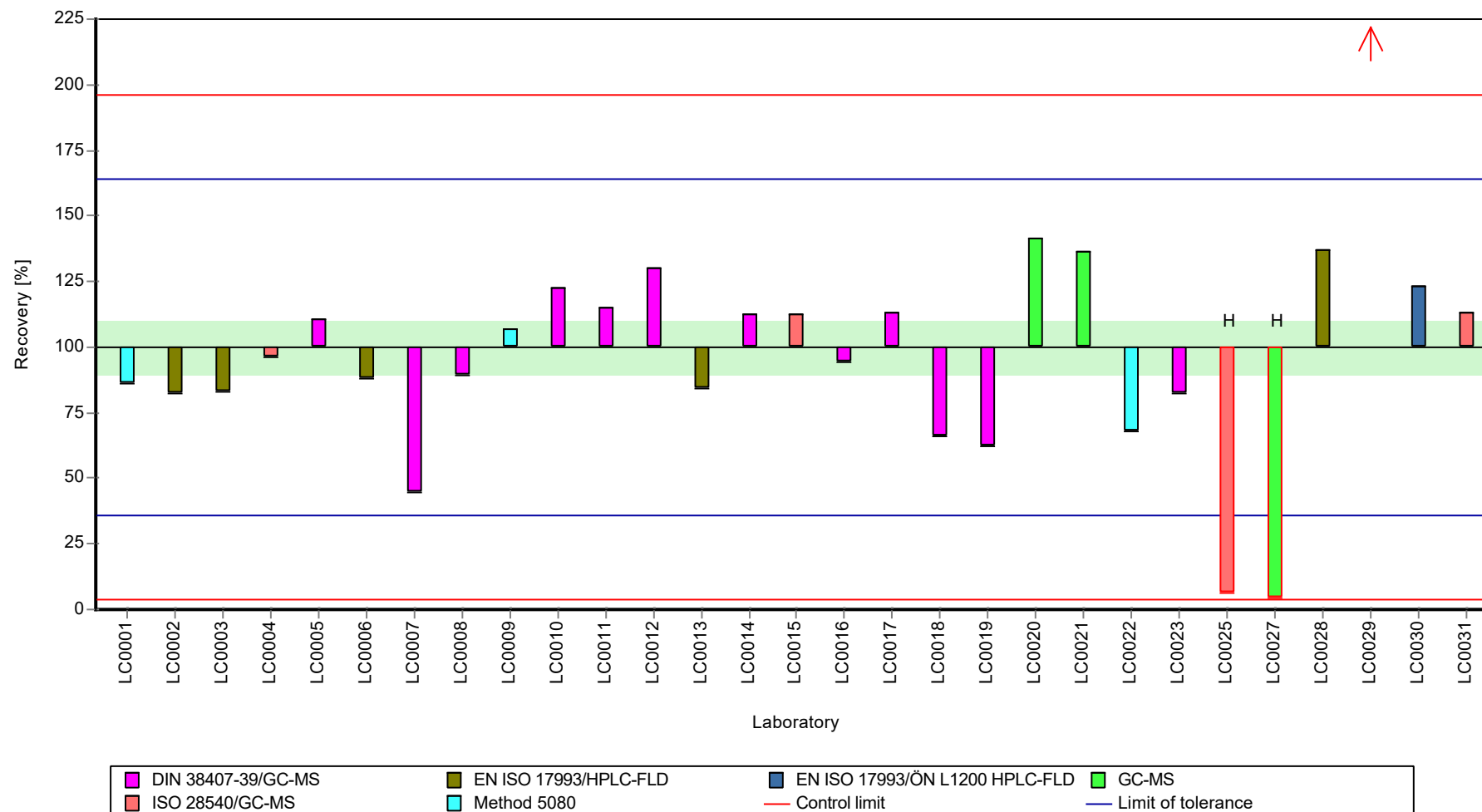
	all results	without outliers	Unit
Mean ± CI (99%)	56.1 ± 15.5	56.2 ± 8.3	ng/l
Minimum	2.37	25.2	ng/l
Maximum	161	79.5	ng/l
Standard deviation	27.8	14.1	ng/l
rel. standard deviation	49.4	25.1	%
n	29	26	-

Graphical presentation of results

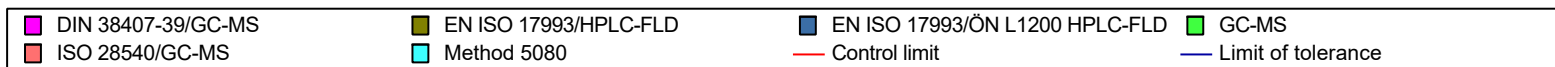
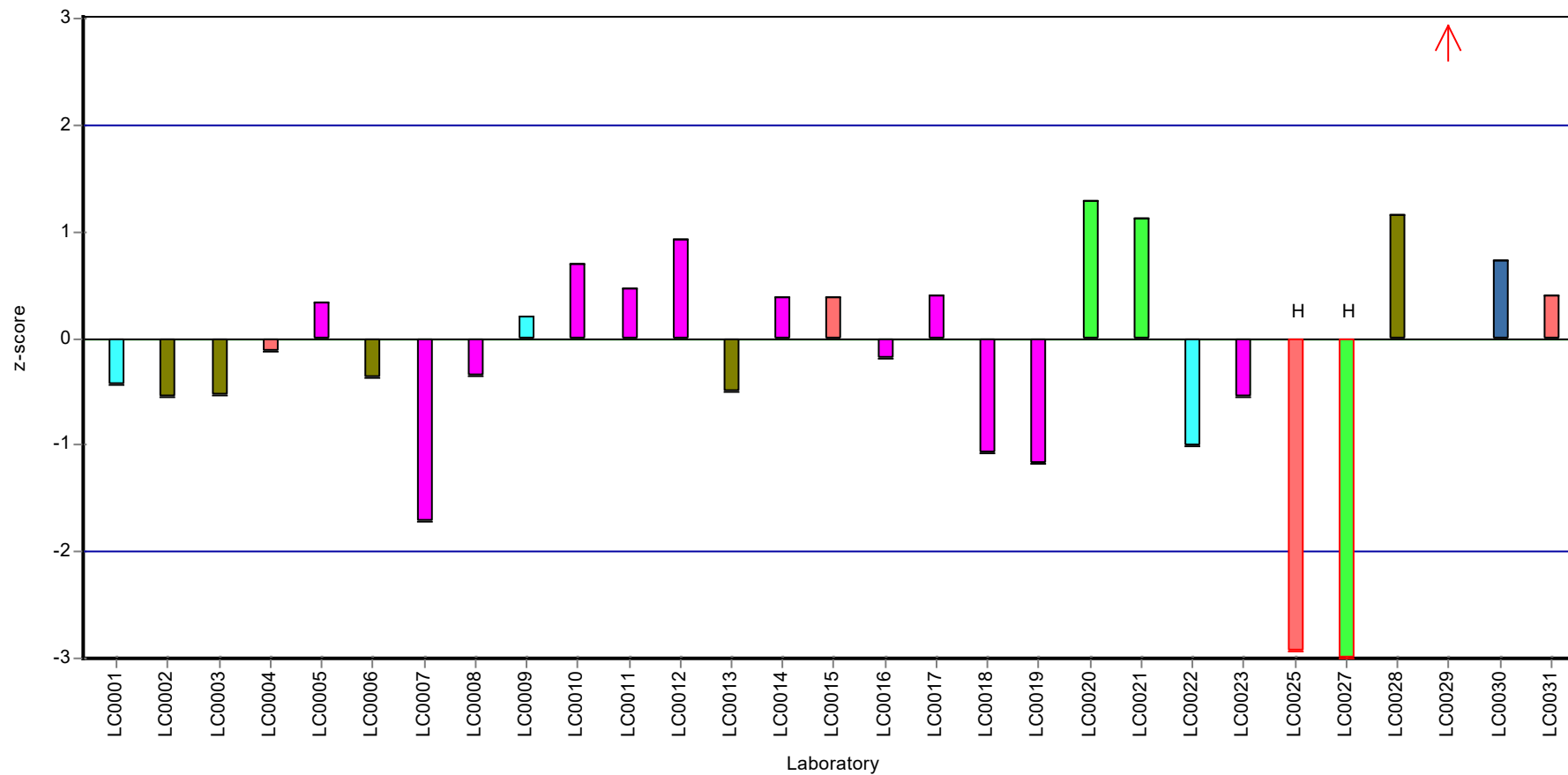
Results



Recovery rate



**Z-score**





## Parameter oriented report

### P21 A

#### Benzo[k]fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	12.2 ± 1.35
Criterion	3.16 (26 %)
Minimum - Maximum	5.1 - 18.5
Control test value ± U (k=2)	13.9 ± 3.88

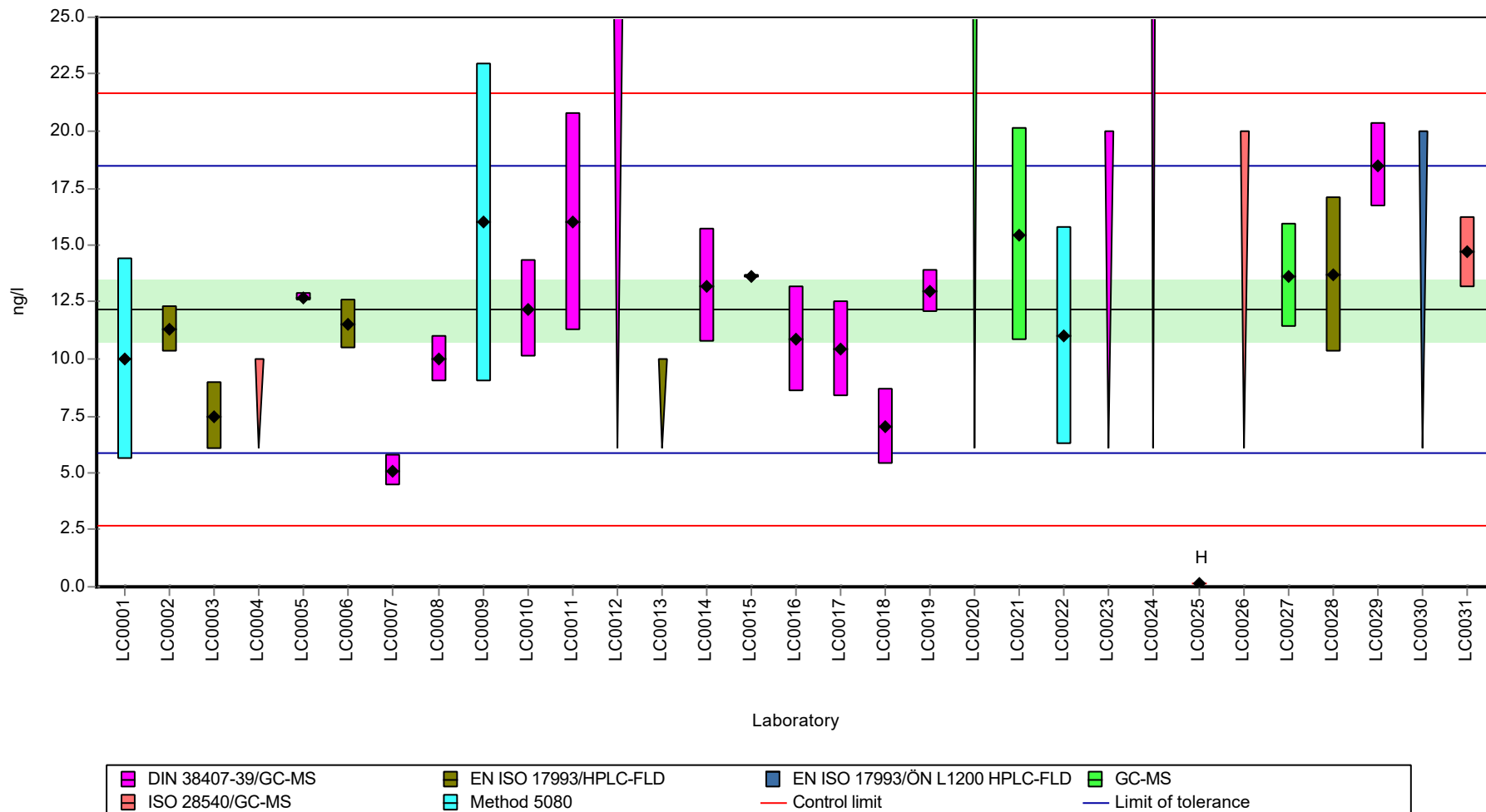
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	10.02	4.41	82.4	-0.68	
LC0002	11.3	1	93	-0.27	
LC0003	7.5	1.5	61.7	-1.47	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	12.7	0.2	104	0.17	
LC0006	11.5	1.1	94.6	-0.21	
LC0007	5.1	0.69	42	-2.23	
LC0008	10	1	82.3	-0.68	
LC0009	16	7	132	1.22	
LC0010	12.21	2.136	100	0.02	
LC0011	16	4.8	132	1.22	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	13.2	2.5	109	0.33	
LC0015	13.6	0.071	112	0.46	
LC0016	10.85	2.32	89.3	-0.41	
LC0017	10.4	2.1	85.6	-0.56	
LC0018	7.01	1.682	57.7	-1.63	
LC0019	13	0.94	107	0.27	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	15.47	4.64	127	1.05	
LC0022	11	4.8	90.5	-0.36	
LC0023	< 20 (LOQ)	-	-	-	
LC0024	< 58 (LOQ)	-	-	-	
LC0025	0.116	0.01	1	-3.81	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	13.65	2.28	112	0.47	
LC0028	13.7	3.4	113	0.49	
LC0029	18.5	1.85	152	2.01	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	14.7	1.56	121	0.81	

**Characteristics of parameter**

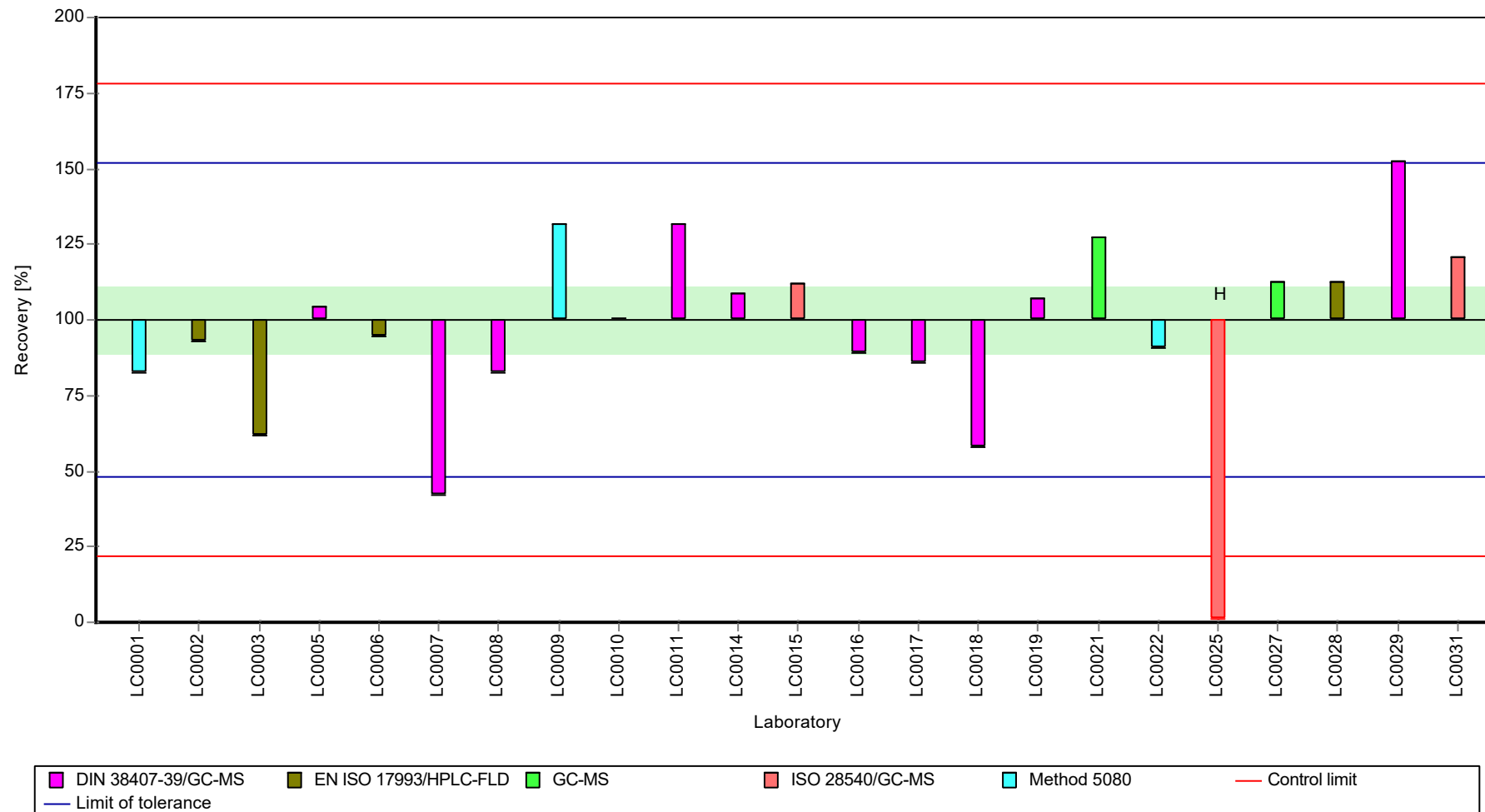
	all results	without outliers	Unit
Mean ± CI (99%)	11.6 ± 2.49	12.2 ± 2.03	ng/l
Minimum	0.116	5.1	ng/l
Maximum	18.5	18.5	ng/l
Standard deviation	3.98	3.17	ng/l
rel. standard deviation	34.2	26	%
n	23	22	-

Graphical presentation of results

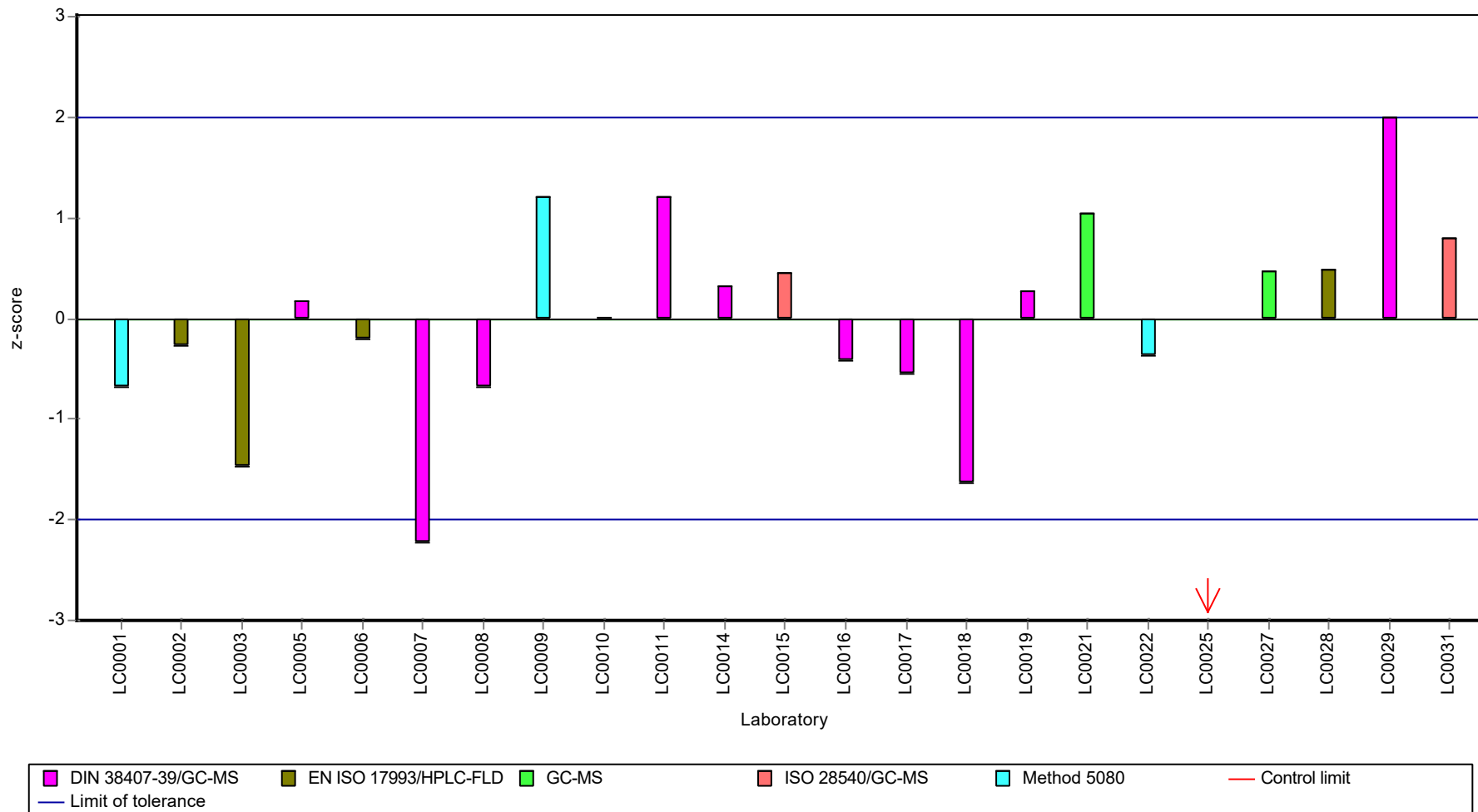
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

#### Benzo[k]fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	116 ± 8.71
Criterion	30.2 (26 %)
Minimum - Maximum	65 - 161
Control test value ± U (k=2)	145 ± 40.5

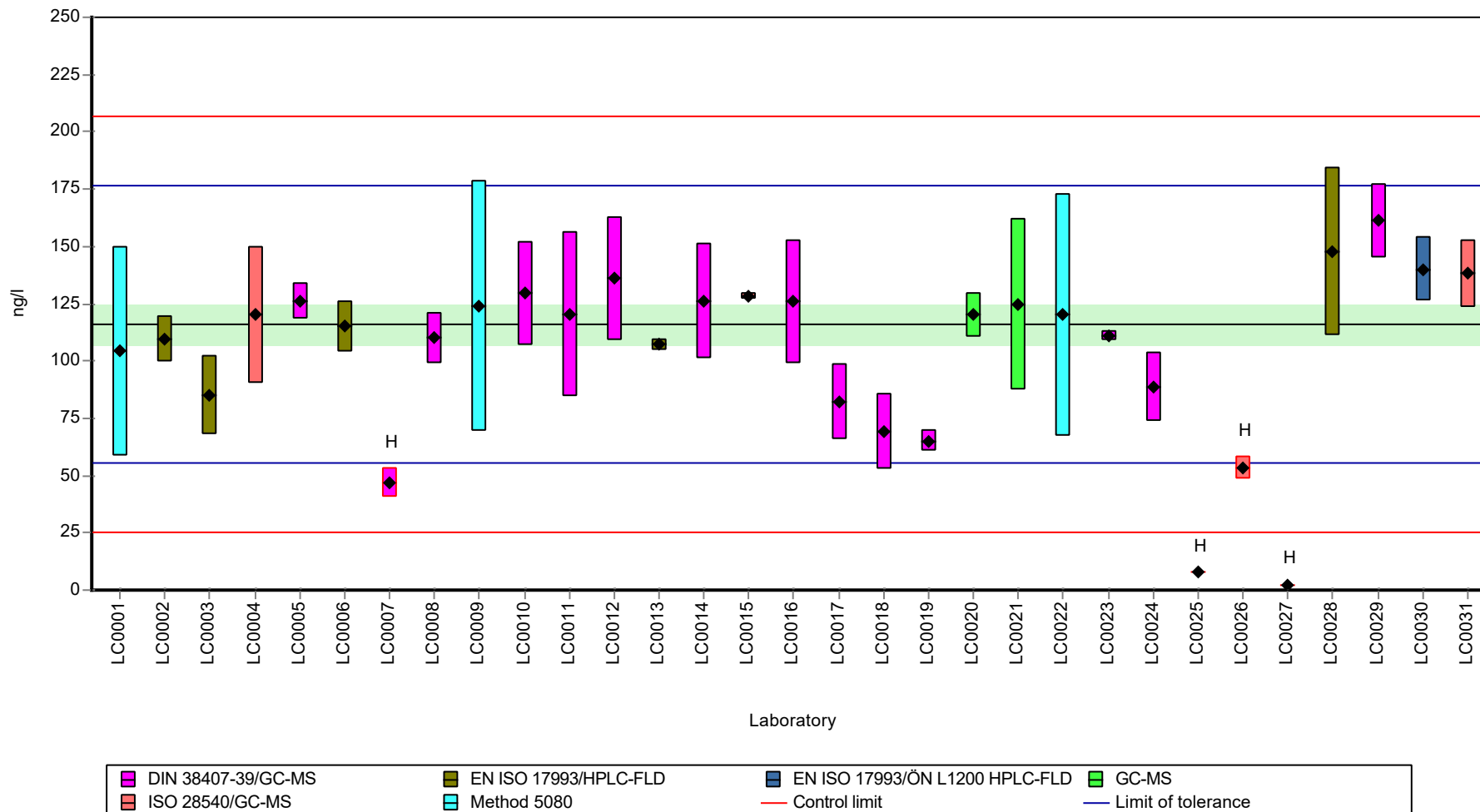
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	104.2	45.9	89.8	-0.39	
LC0002	109.7	10	94.5	-0.21	
LC0003	85	17	73.2	-1.03	
LC0004	120	30	103	0.13	
LC0005	126	7.9	109	0.33	
LC0006	115	11	99.1	-0.04	
LC0007	47	6.34	40.5	-2.29	H
LC0008	110	11	94.8	-0.2	
LC0009	124	54.6	107	0.26	
LC0010	129.51	22.66	112	0.45	
LC0011	120	36	103	0.13	
LC0012	136	27	117	0.66	
LC0013	107	2.3	92.2	-0.3	
LC0014	126	25	109	0.33	
LC0015	128	1.414	110	0.4	
LC0016	125.8	26.86	108	0.32	
LC0017	82.4	16.5	71	-1.12	
LC0018	68.9	16.531	59.4	-1.56	
LC0019	65	4.7	56	-1.69	
LC0020	120	10	103	0.13	
LC0021	124.96	37.49	108	0.29	
LC0022	120	53	103	0.13	
LC0023	110.9	2.03	95.5	-0.17	
LC0024	88.7	15	76.4	-0.91	
LC0025	8.17	0.01	7	-3.58	H
LC0026	53.3	5.3	45.9	-2.08	H
LC0027	2.48	0.41	2.1	-3.76	H
LC0028	147.6	36.9	127	1.04	
LC0029	161.25	16.1	139	1.5	
LC0030	140	14	121	0.79	
LC0031	138	14.63	119	0.73	

**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	105 ± 20.3	116 ± 13.1	ng/l
Minimum	2.48	65	ng/l
Maximum	161	161	ng/l
Standard deviation	37.7	22.6	ng/l
rel. standard deviation	36	19.5	%
n	31	27	-

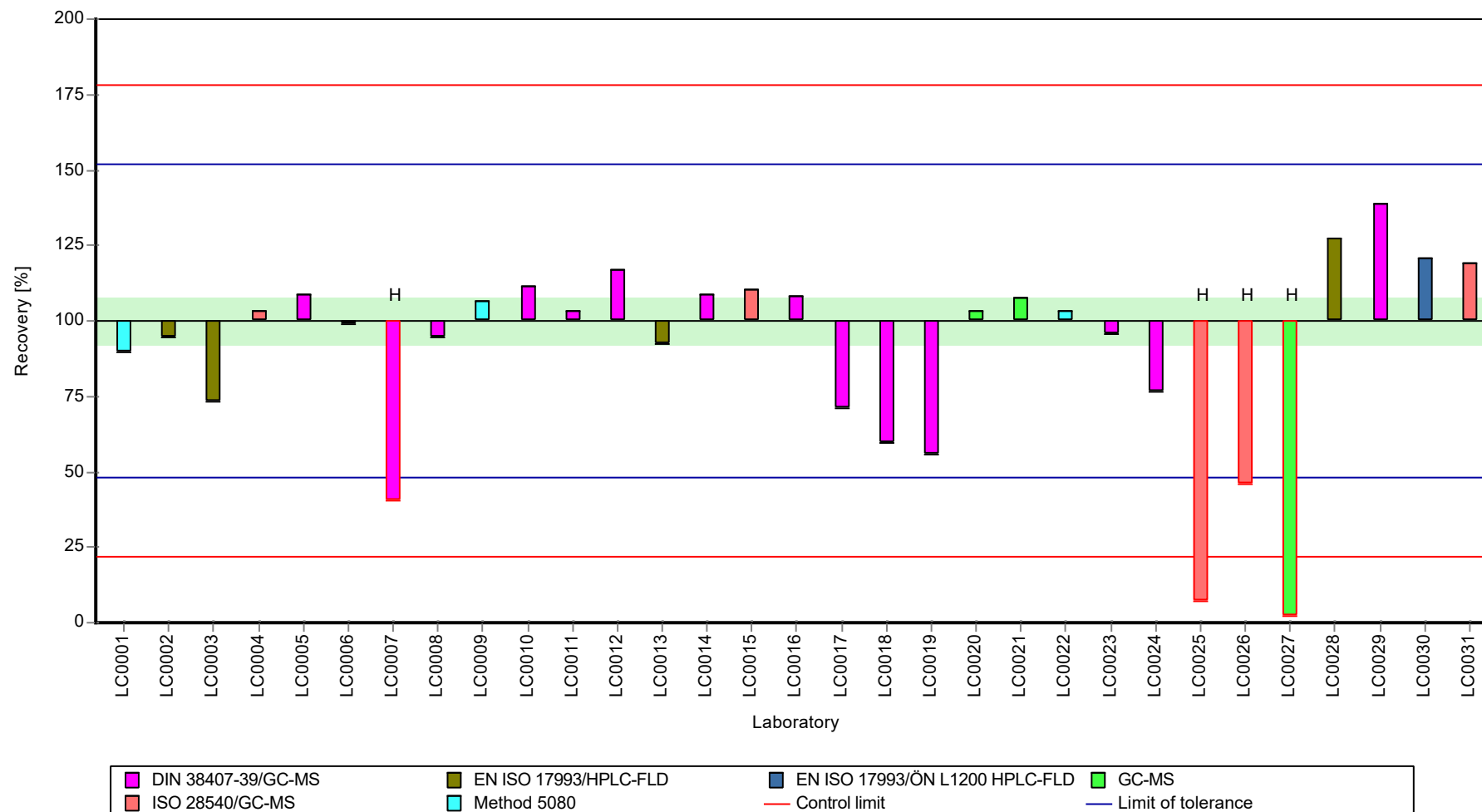
Graphical presentation of results

Results

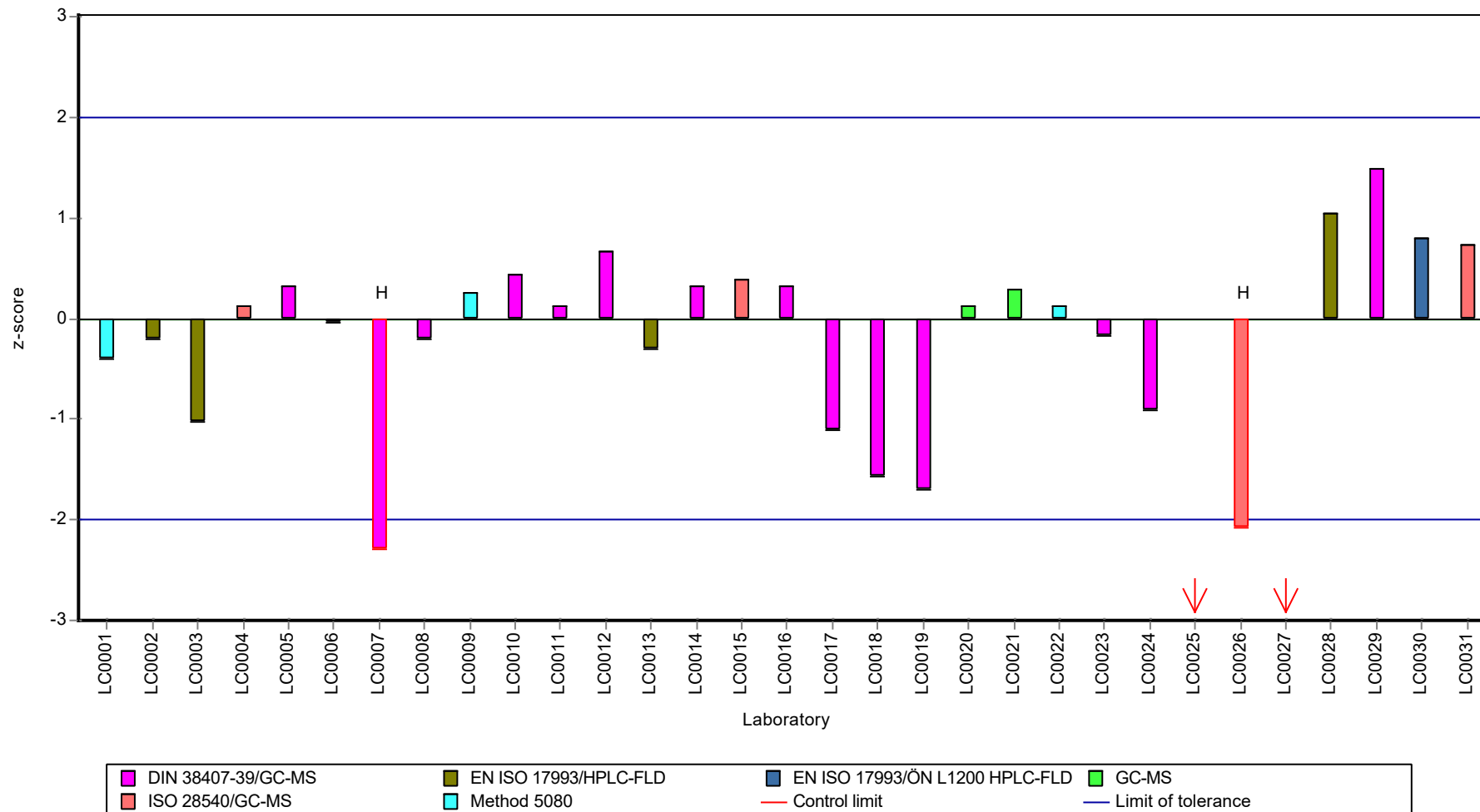




Recovery rate



**Z-score**



## Parameter oriented report

### P21 A

#### Chrysene

Unit	ng/l
Assigned value ± U (k=2)	20.1 ± 2.16
Criterion	5.22 (26 %)
Minimum - Maximum	7.1 - 30
Control test value ± U (k=2)	24 ± 6.24

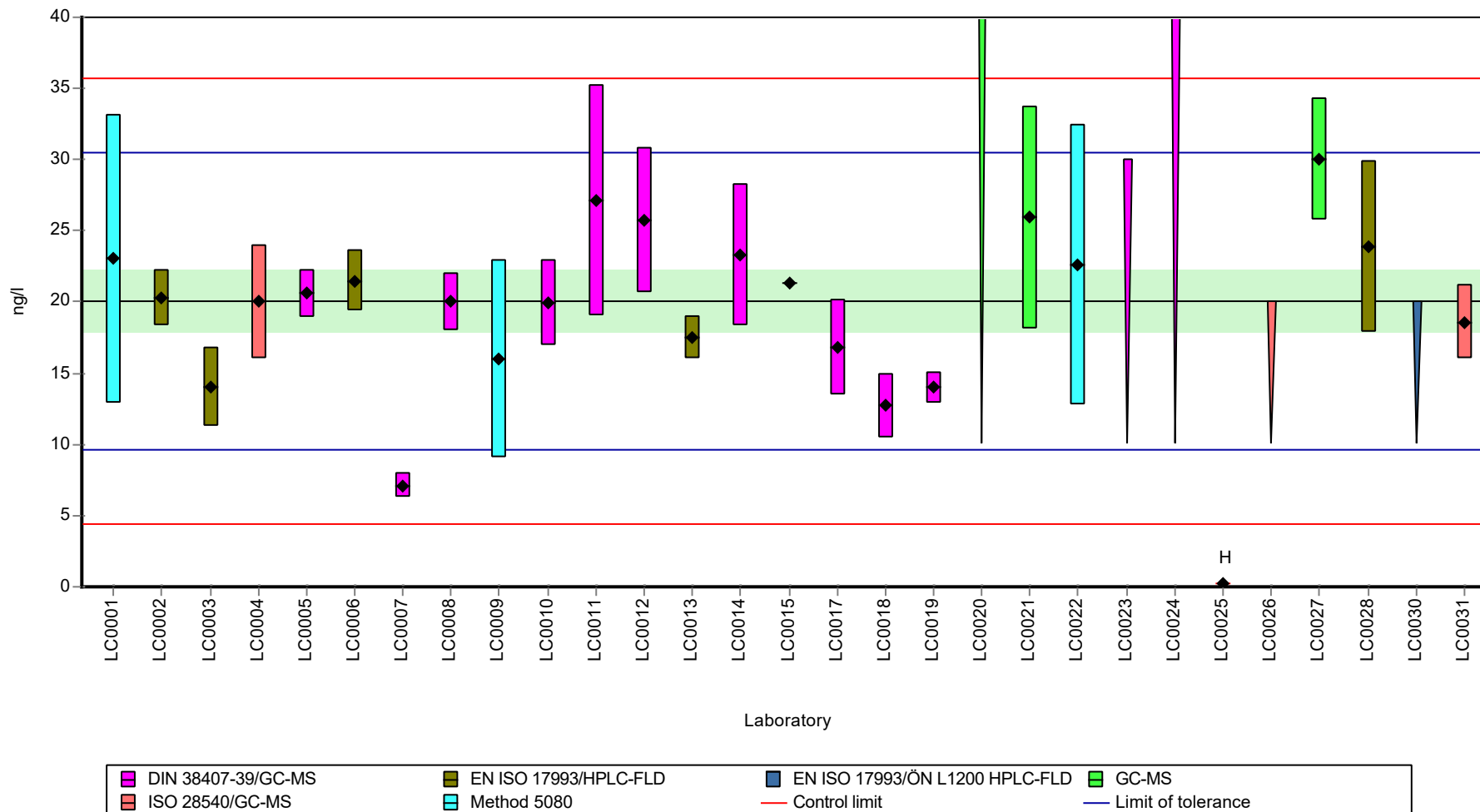
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	23.02	10.13	115	0.56	
LC0002	20.3	2	101	0.04	
LC0003	14	2.8	69.7	-1.16	
LC0004	20	4	99.6	-0.02	
LC0005	20.6	1.7	103	0.1	
LC0006	21.5	2.1	107	0.27	
LC0007	7.1	0.85	35.4	-2.49	
LC0008	20	2	99.6	-0.02	
LC0009	16	7	79.7	-0.78	
LC0010	19.96	2.994	99.4	-0.02	
LC0011	27.1	8.1	135	1.34	
LC0012	25.7	5.1	128	1.08	
LC0013	17.5	1.53	87.1	-0.49	
LC0014	23.3	5	116	0.62	
LC0015	21.3	0.071	106	0.23	
LC0016	-	-	-	-	
LC0017	16.8	3.4	83.7	-0.63	
LC0018	12.7	2.293	63.2	-1.41	
LC0019	14	1.1	69.7	-1.16	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	25.92	7.78	129	1.12	
LC0022	22.6	9.9	113	0.48	
LC0023	< 30 (LOQ)	-	-	-	
LC0024	< 41 (LOQ)	-	-	-	
LC0025	0.216	0.01	1.1	-3.8	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	30.01	4.32	149	1.9	
LC0028	23.9	6	119	0.73	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	18.6	2.57	92.6	-0.28	

**Characteristics of parameter**

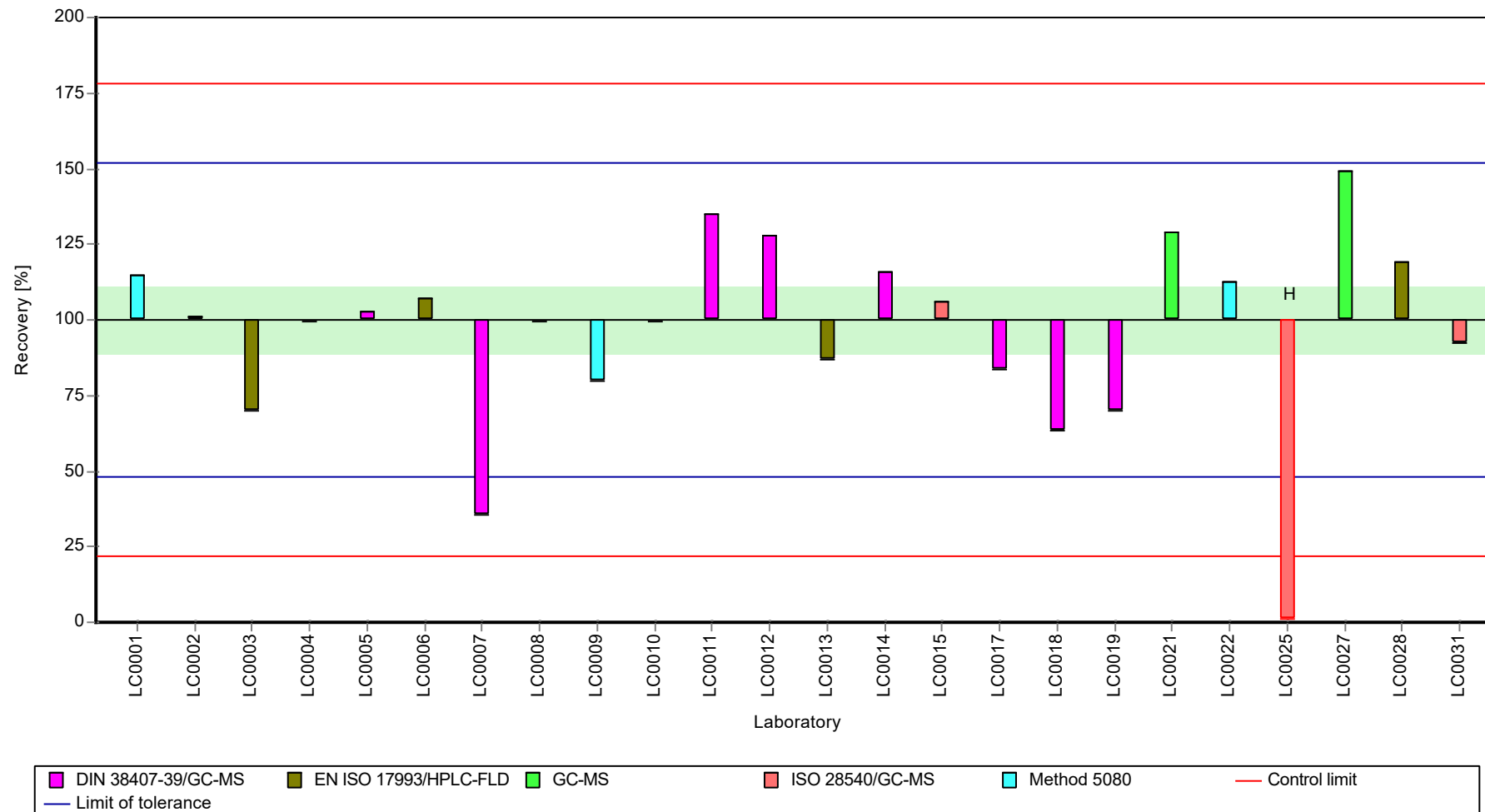
	all results	without outliers	Unit
Mean ± CI (99%)	19.3 ± 3.97	20.1 ± 3.24	ng/l
Minimum	0.216	7.1	ng/l
Maximum	30	30	ng/l
Standard deviation	6.49	5.18	ng/l
rel. standard deviation	33.7	25.8	%
n	24	23	-

Graphical presentation of results

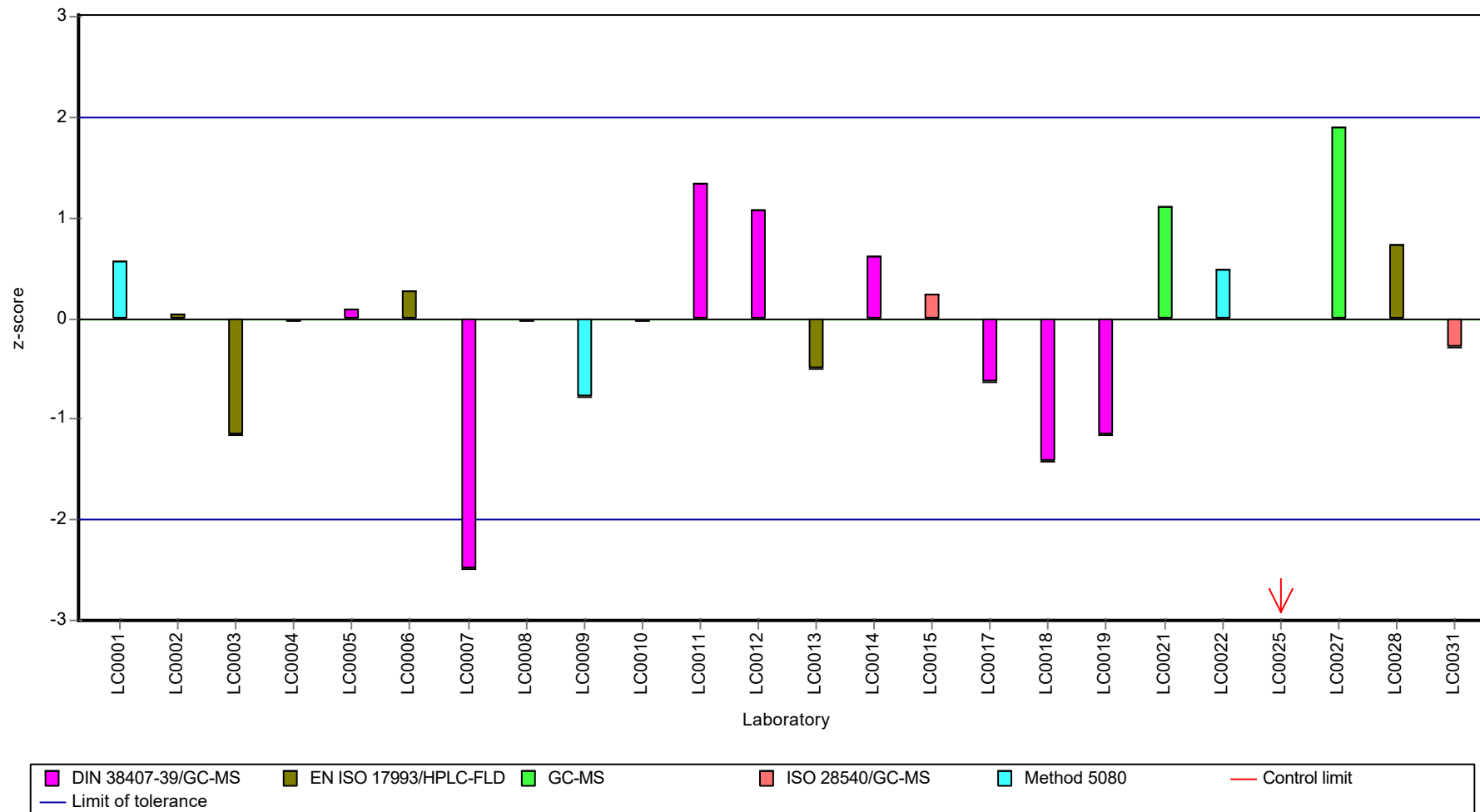
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

#### Chrysene

Unit	ng/l
Assigned value ± U (k=2)	56.3 ± 5.69
Criterion	14.7 (26 %)
Minimum - Maximum	22 - 83.8
Control test value ± U (k=2)	67.5 ± 17.6

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	47.72	21	84.7	-0.59	
LC0002	55.5	5.6	98.5	-0.06	
LC0003	37.5	7.5	66.6	-1.29	
LC0004	60	11	106	0.25	
LC0005	62.2	4.5	110	0.4	
LC0006	57.5	6	102	0.08	
LC0007	22	2.63	39	-2.34	
LC0008	62	6.2	110	0.39	
LC0009	49	21.6	87	-0.5	
LC0010	64.23	9.63	114	0.54	
LC0011	72.3	22	128	1.09	
LC0012	80.5	16.1	143	1.65	
LC0013	67.4	2.98	120	0.76	
LC0014	56.8	15	101	0.03	
LC0015	61.6	0.354	109	0.36	
LC0016	-	-	-	-	
LC0017	39.4	7.9	69.9	-1.16	
LC0018	41.6	7.488	73.8	-1.01	
LC0019	33	2.6	58.6	-1.59	
LC0020	65.1	10	116	0.6	
LC0021	83.8	25.14	149	1.87	
LC0022	60.5	26.6	107	0.28	
LC0023	62.5	1.58	111	0.42	
LC0024	45.1	14.5	80	-0.77	
LC0025	4.11	0.01	7.3	-3.57	H
LC0026	35.1	3.5	62.3	-1.45	
LC0027	2.18	0.31	3.9	-3.7	H
LC0028	68.4	17.1	121	0.82	
LC0029	-	-	-	-	
LC0030	59.6	6	106	0.22	
LC0031	71	9.8	126	1	

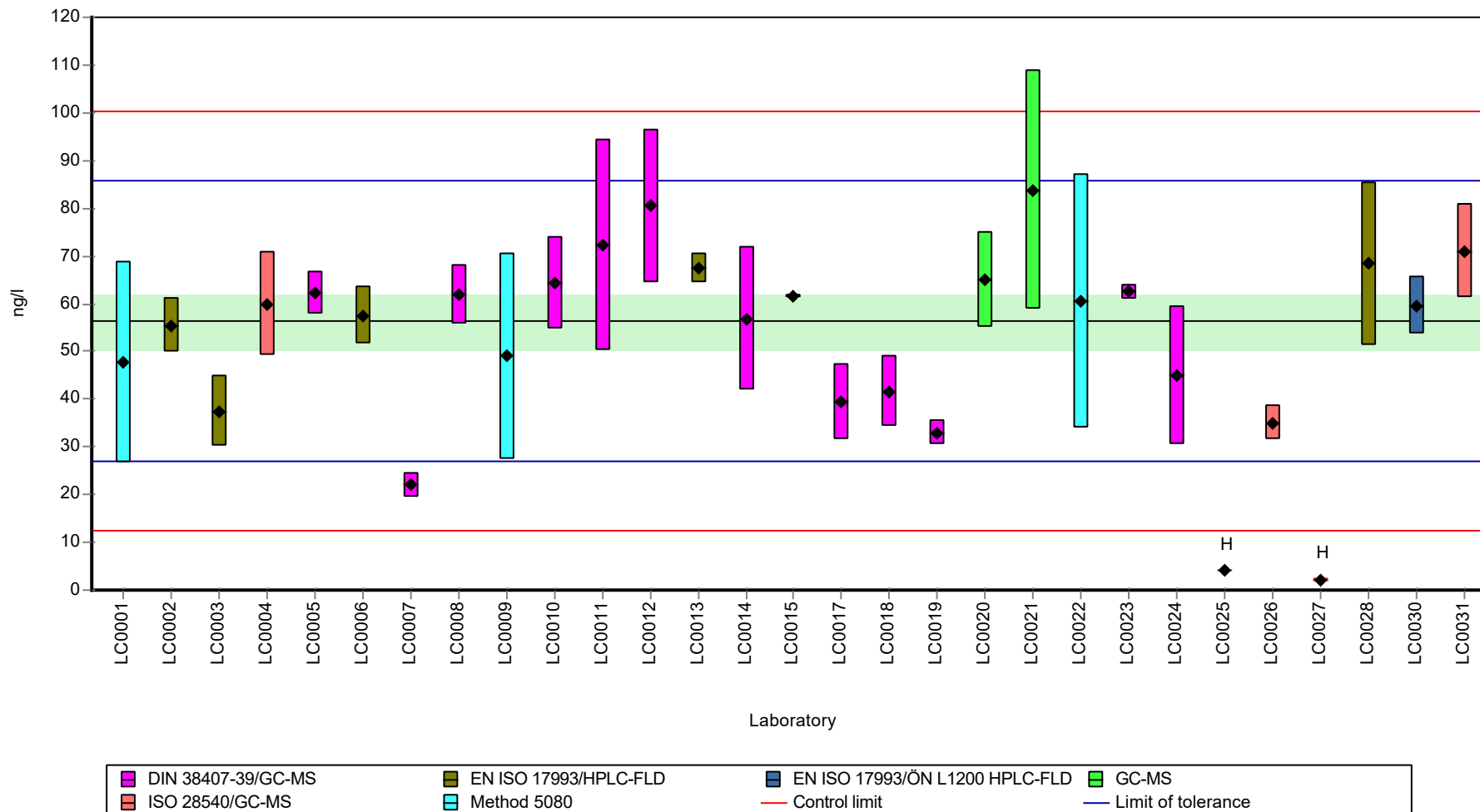


**Characteristics of parameter**

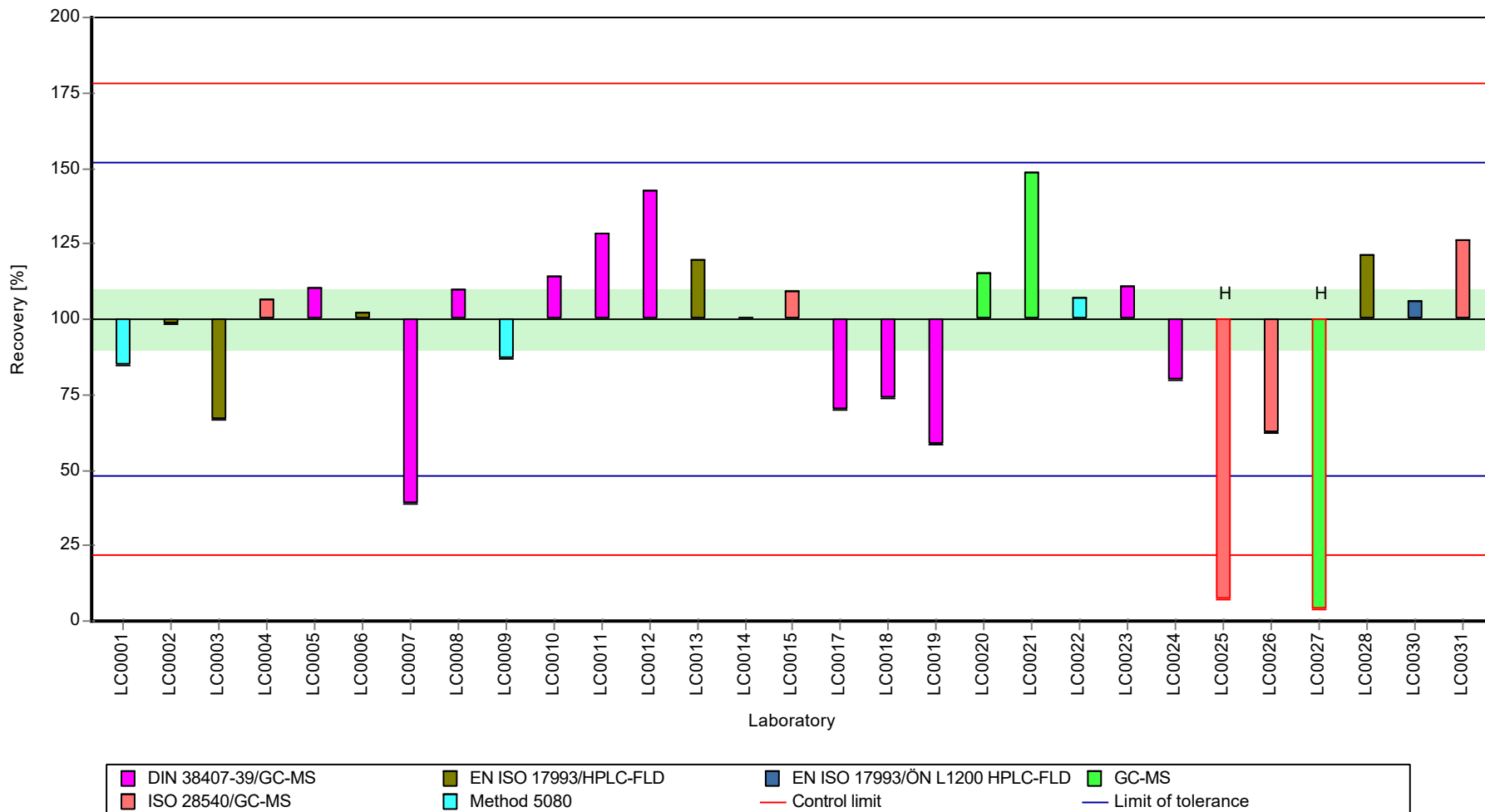
	all results	without outliers	Unit
Mean ± CI (99%)	52.7 ± 11	56.3 ± 8.53	ng/l
Minimum	2.18	22	ng/l
Maximum	83.8	83.8	ng/l
Standard deviation	19.8	14.8	ng/l
rel. standard deviation	37.5	26.2	%
n	29	27	-

Graphical presentation of results

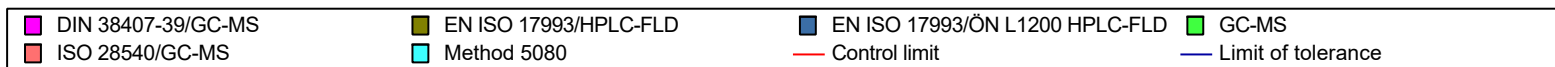
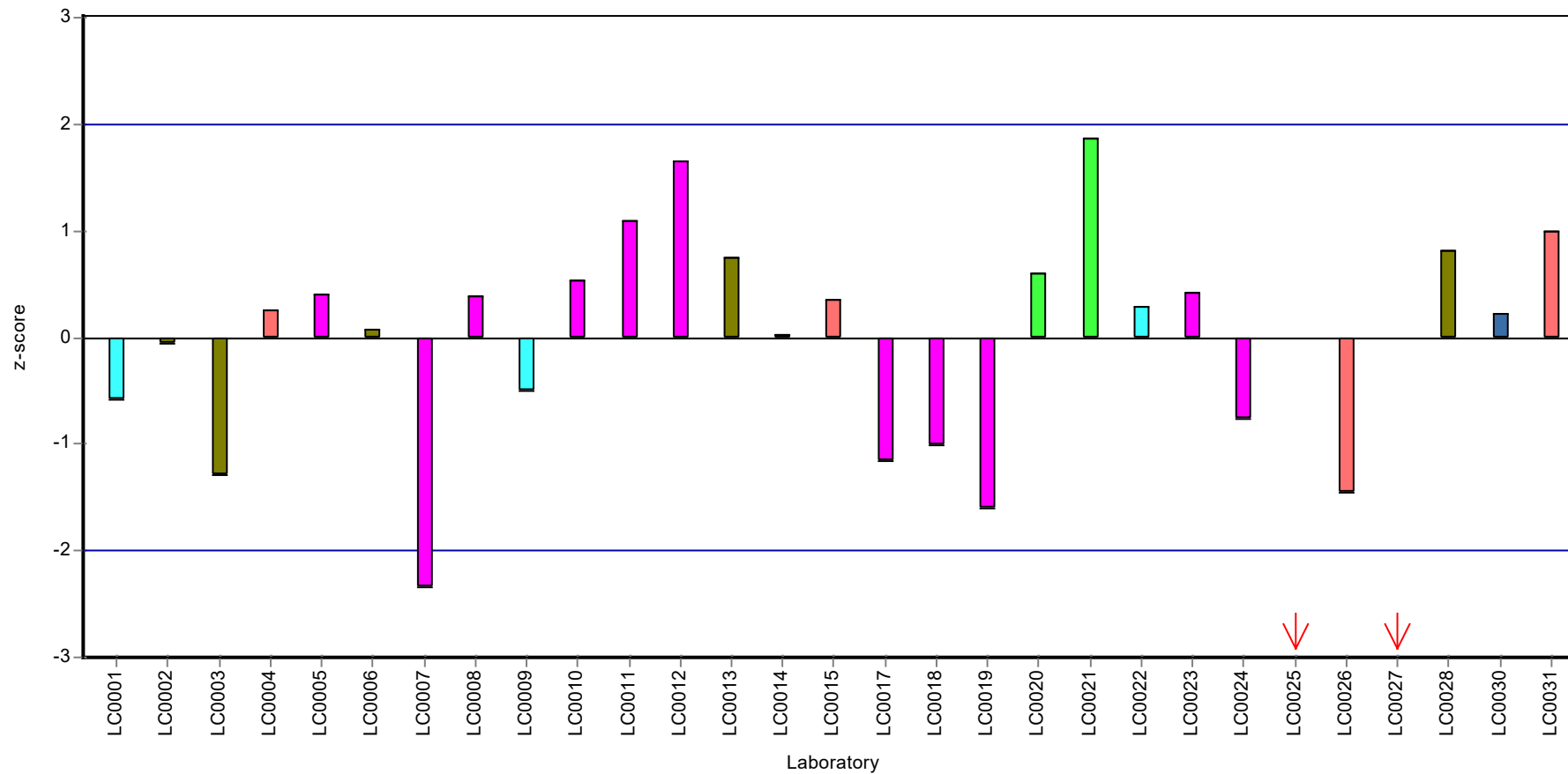
Results



**Recovery rate**



**Z-score**



## Parameter oriented report

### P21 A

#### Dibenzo[a,h]anthracene

Unit	ng/l
Assigned value ± U (k=2)	11.8 ± 2.47
Criterion	3.55 (30 %)
Minimum - Maximum	0.122 - 24.9
Control test value ± U (k=2)	13.7 ± 4.37

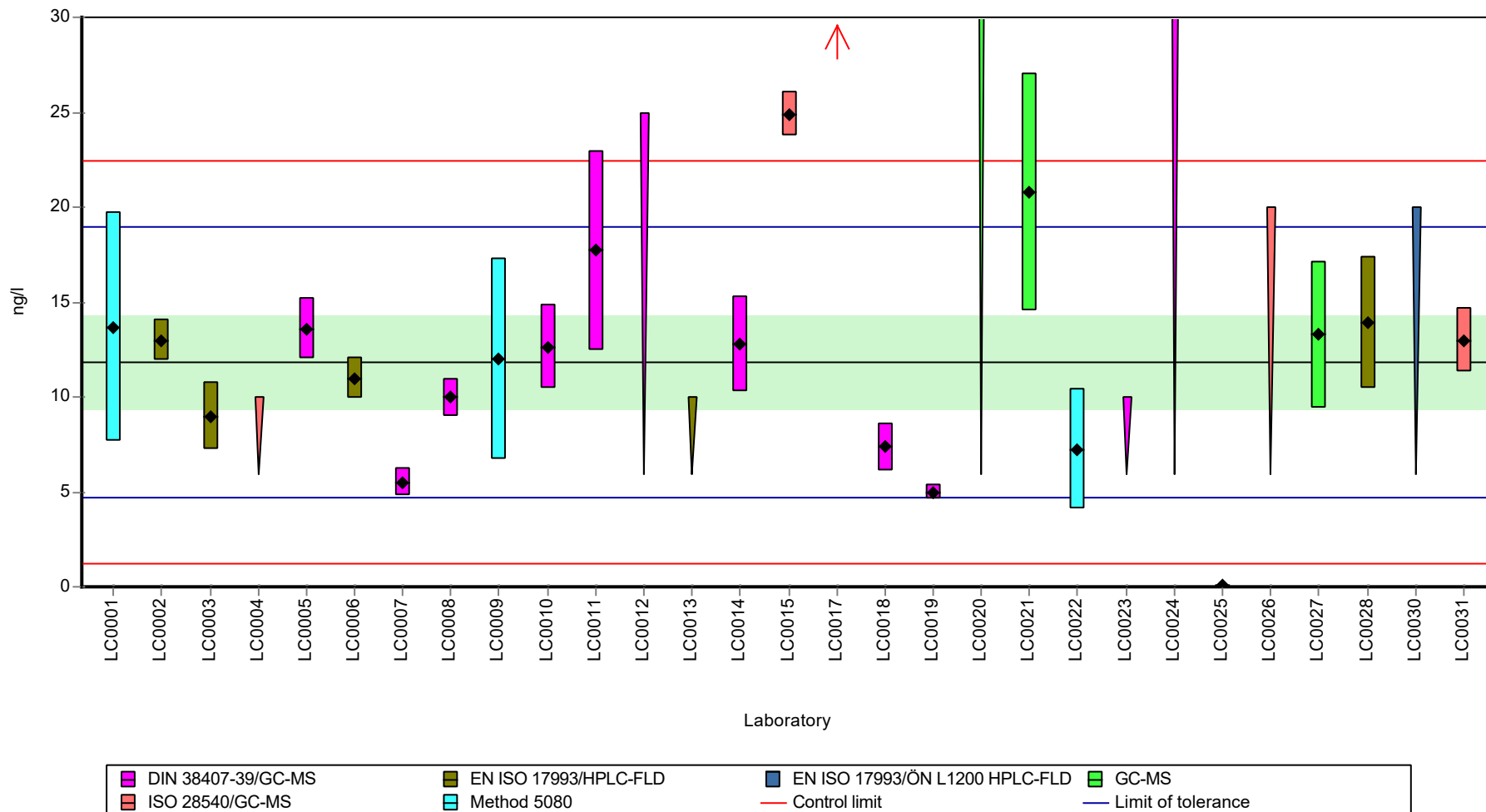
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.69	6.02	116	0.53	
LC0002	13	1.1	110	0.33	
LC0003	9	1.8	76.1	-0.8	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	13.6	1.6	115	0.5	
LC0006	11	1.1	93	-0.23	
LC0007	5.5	0.73	46.5	-1.78	
LC0008	10	1	84.6	-0.52	
LC0009	12	5.3	101	0.05	
LC0010	12.64	2.212	107	0.23	
LC0011	17.7	5.3	150	1.66	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	12.8	2.5	108	0.27	
LC0015	24.9	1.202	211	3.68	
LC0016	-	-	-	-	
LC0017	63.7	12.7	539	14.6	H
LC0018	7.35	1.25	62.1	-1.26	
LC0019	5	0.4	42.3	-1.92	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	20.8	6.24	176	2.53	
LC0022	7.25	3.19	61.3	-1.29	
LC0023	< 10 (LOQ)	-	-	-	
LC0024	< 41 (LOQ)	-	-	-	
LC0025	0.122	0.01	1	-3.3	
LC0026	< 20 (LOQ)	-	-	-	
LC0027	13.28	3.85	112	0.41	
LC0028	13.9	3.5	118	0.58	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	13	1.66	110	0.33	

**Characteristics of parameter**

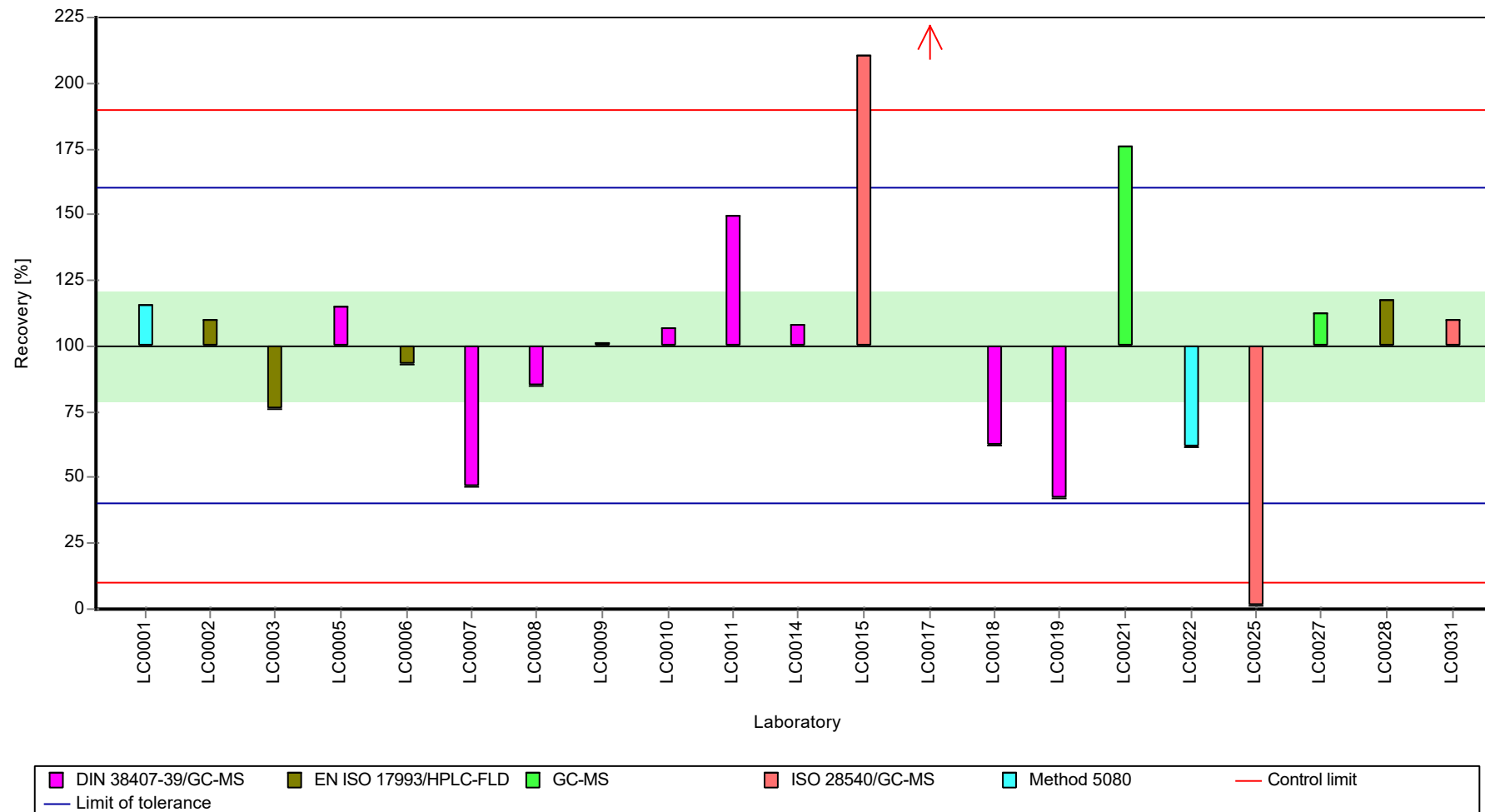
	all results	without outliers	Unit
Mean ± CI (99%)	14.3 ± 8.21	11.8 ± 3.71	ng/l
Minimum	0.122	0.122	ng/l
Maximum	63.7	24.9	ng/l
Standard deviation	12.5	5.52	ng/l
rel. standard deviation	87.7	46.7	%
n	21	20	-

Graphical presentation of results

Results

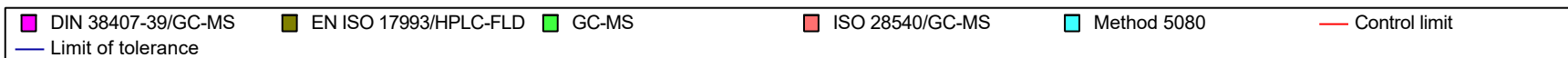
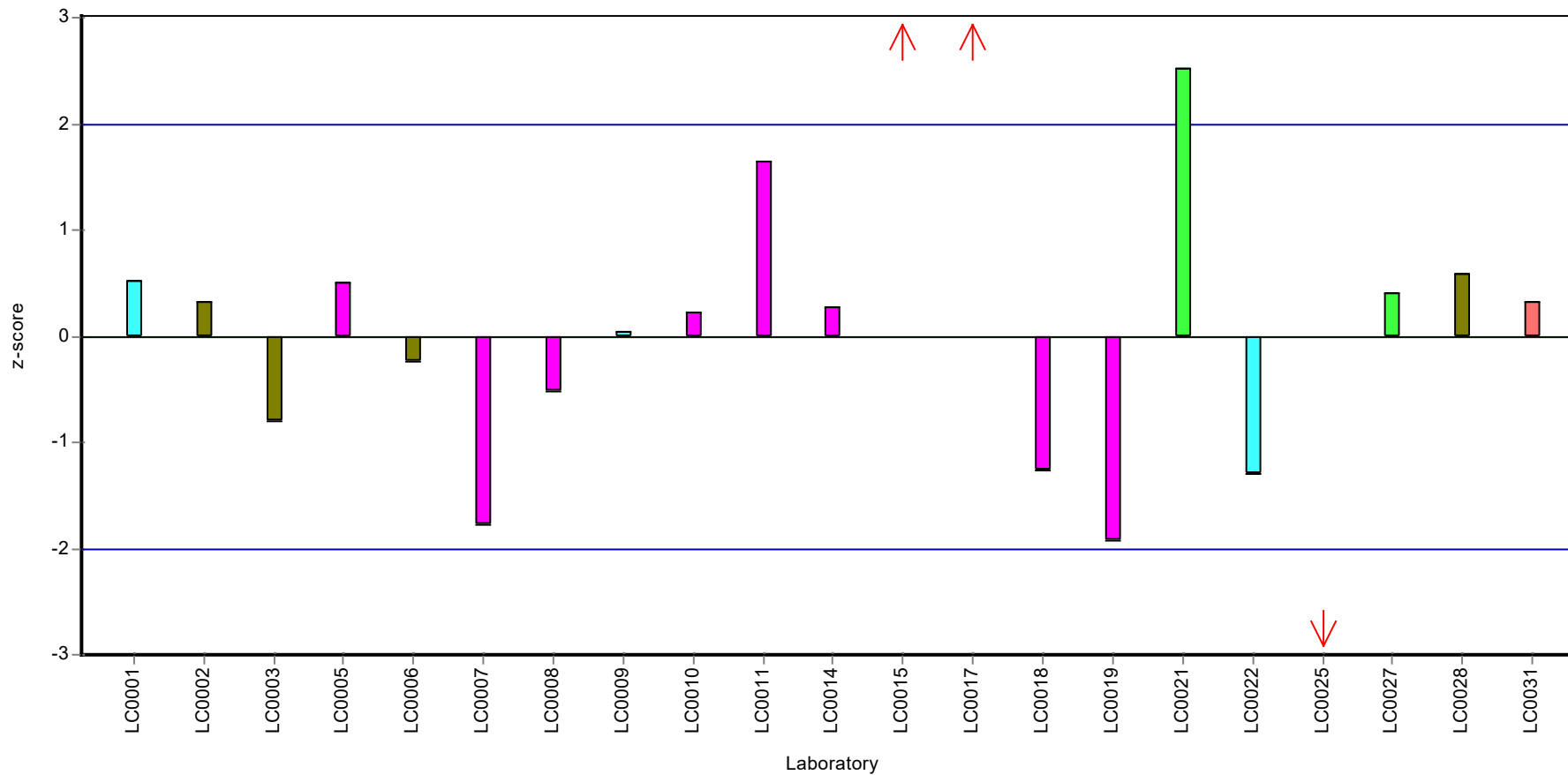


Recovery rate





**Z-score**



## Parameter oriented report

### P21 B

#### Dibenzo[a,h]anthracene

Unit	ng/l
Assigned value ± U (k=2)	85.7 ± 16.5
Criterion	25.7 (30 %)
Minimum - Maximum	4.59 - 183
Control test value ± U (k=2)	107 ± 34.3

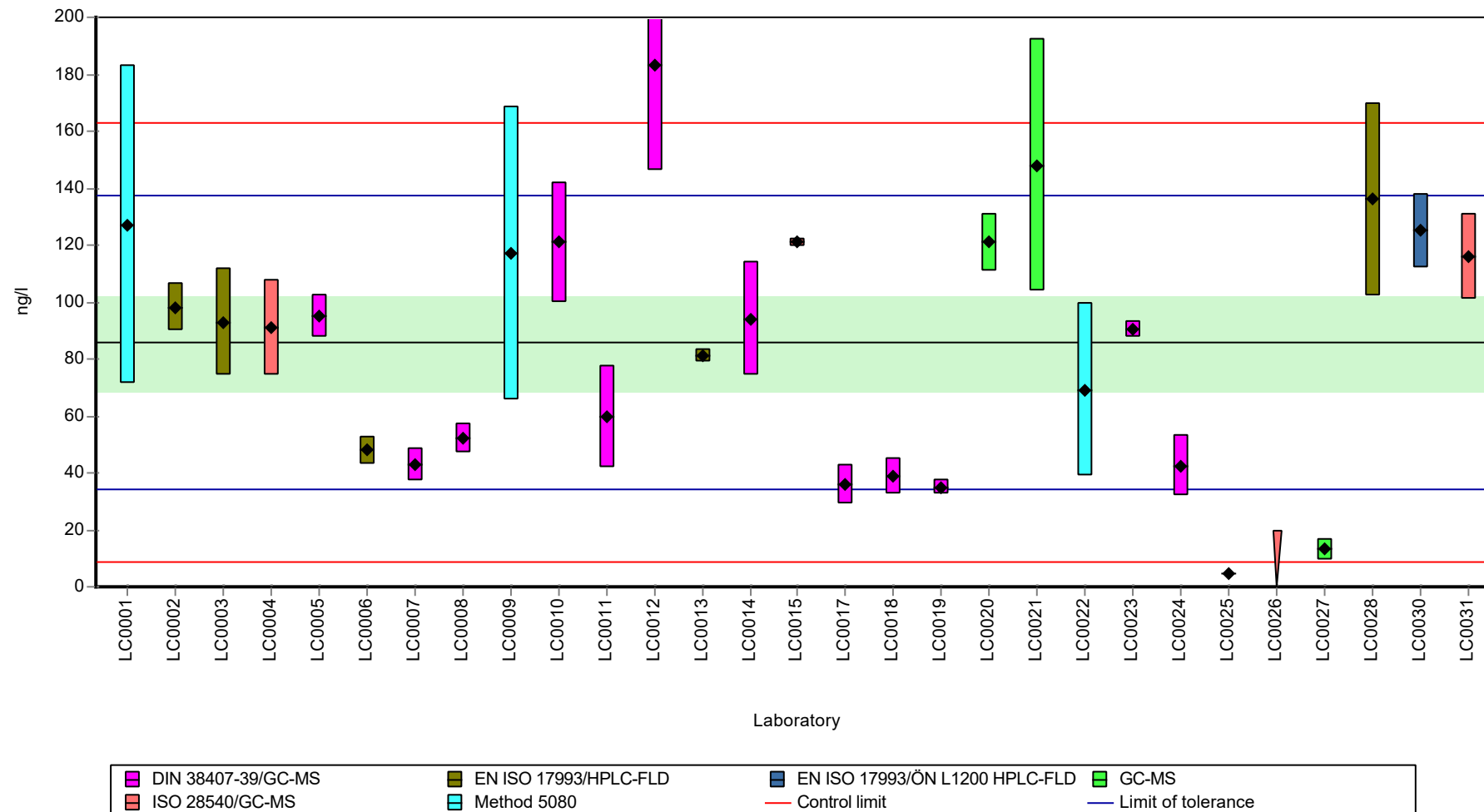
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	127.05	55.9	148	1.61	
LC0002	98.2	8.3	115	0.49	
LC0003	93	18.6	109	0.28	
LC0004	91	17	106	0.21	
LC0005	95.1	7.6	111	0.37	
LC0006	48	5	56	-1.47	
LC0007	43	5.7	50.2	-1.66	
LC0008	52	5.2	60.7	-1.31	
LC0009	117	51.5	137	1.22	
LC0010	120.98	21.17	141	1.37	
LC0011	59.5	18	69.4	-1.02	
LC0012	183	37	214	3.79	
LC0013	81.2	2.23	94.8	-0.17	
LC0014	94	20	110	0.32	
LC0015	121	1.414	141	1.37	
LC0016	-	-	-	-	
LC0017	35.9	7.2	41.9	-1.94	
LC0018	38.8	6.589	45.3	-1.82	
LC0019	35	2.8	40.8	-1.97	
LC0020	120.9	10	141	1.37	
LC0021	147.85	44.35	173	2.42	
LC0022	69.1	30.4	80.6	-0.65	
LC0023	90.3	3.05	105	0.18	
LC0024	42.6	11	49.7	-1.68	
LC0025	4.59	0.01	5.4	-3.15	
LC0026	< 20 (LOQ)	-	-	-	
LC0027	13.24	3.84	15.5	-2.82	
LC0028	136	34	159	1.96	
LC0029	-	-	-	-	
LC0030	125	13	146	1.53	
LC0031	116	14.85	135	1.18	

**Characteristics of parameter**

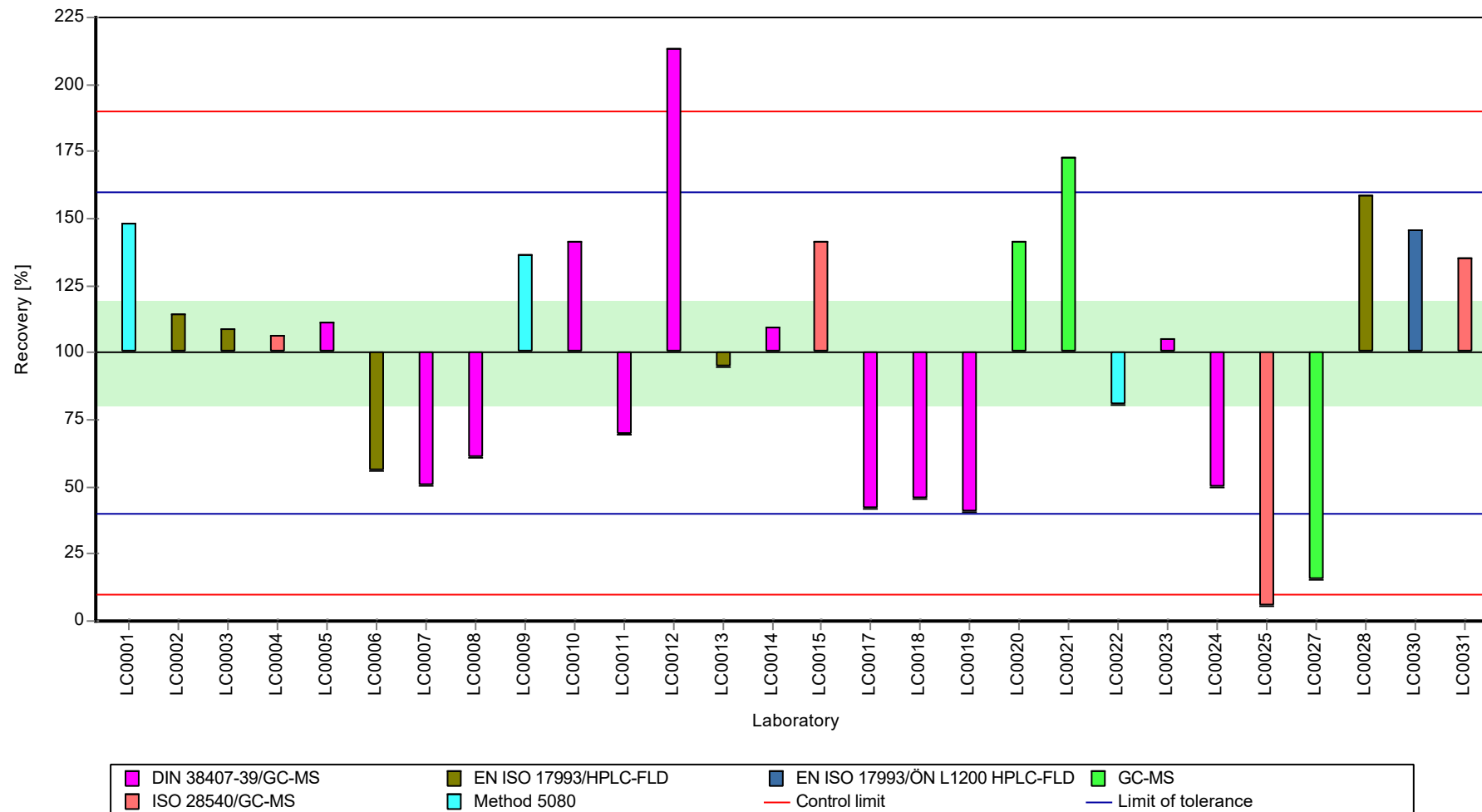
	all results	without outliers	Unit
Mean ± CI (99%)	85.7 ± 24.8	85.7 ± 24.8	ng/l
Minimum	4.59	4.59	ng/l
Maximum	183	183	ng/l
Standard deviation	43.7	43.7	ng/l
rel. standard deviation	50.9	50.9	%
n	28	28	-

Graphical presentation of results

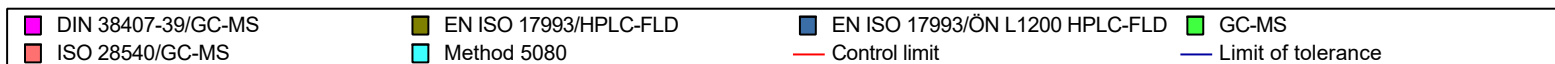
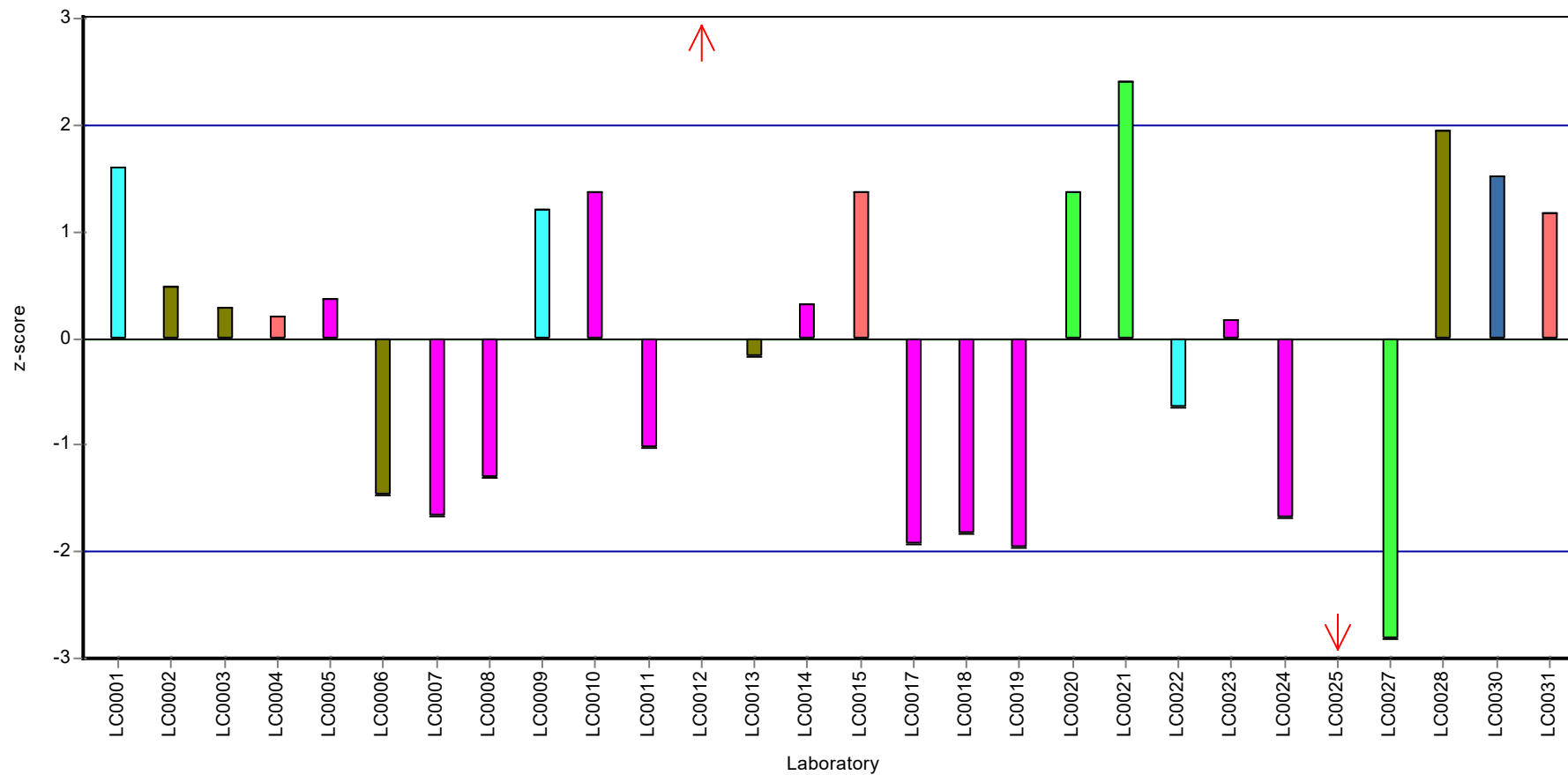
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 A

#### Fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	12.5 ± 0.92
Criterion	2.26 (18 %)
Minimum - Maximum	8.01 - 16.3
Control test value ± U (k=2)	15 ± 3.3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	16.32	7.18	130	1.67	
LC0002	12	1.4	95.7	-0.24	
LC0003	11	2.2	87.7	-0.68	
LC0004	12	3	95.7	-0.24	
LC0005	13.3	0.7	106	0.34	
LC0006	12	1.2	95.7	-0.24	
LC0007	5.8	1.21	46.3	-2.99	H
LC0008	12	1.2	95.7	-0.24	
LC0009	13	5.7	104	0.2	
LC0010	14.5	2.176	116	0.87	
LC0011	18.9	5.7	151	2.82	H
LC0012	< 25 (LOQ)	-	-	-	
LC0013	12.1	2.48	96.5	-0.2	
LC0014	11.4	2.5	90.9	-0.51	
LC0015	13.4	0.141	107	0.38	
LC0016	-	-	-	-	
LC0017	11.1	2.2	88.5	-0.64	
LC0018	8.01	1.842	63.9	-2.01	
LC0019	9	0.89	71.8	-1.57	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	15.38	4.61	123	1.26	
LC0022	12.1	5.3	96.5	-0.2	
LC0023	< 20 (LOQ)	-	-	-	
LC0024	14.8	2.9	118	1	
LC0025	0.158	0.01	1.3	-5.49	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	22.5	2.48	179	4.41	H
LC0028	12.2	3	97.3	-0.15	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	15.2	1.93	121	1.18	

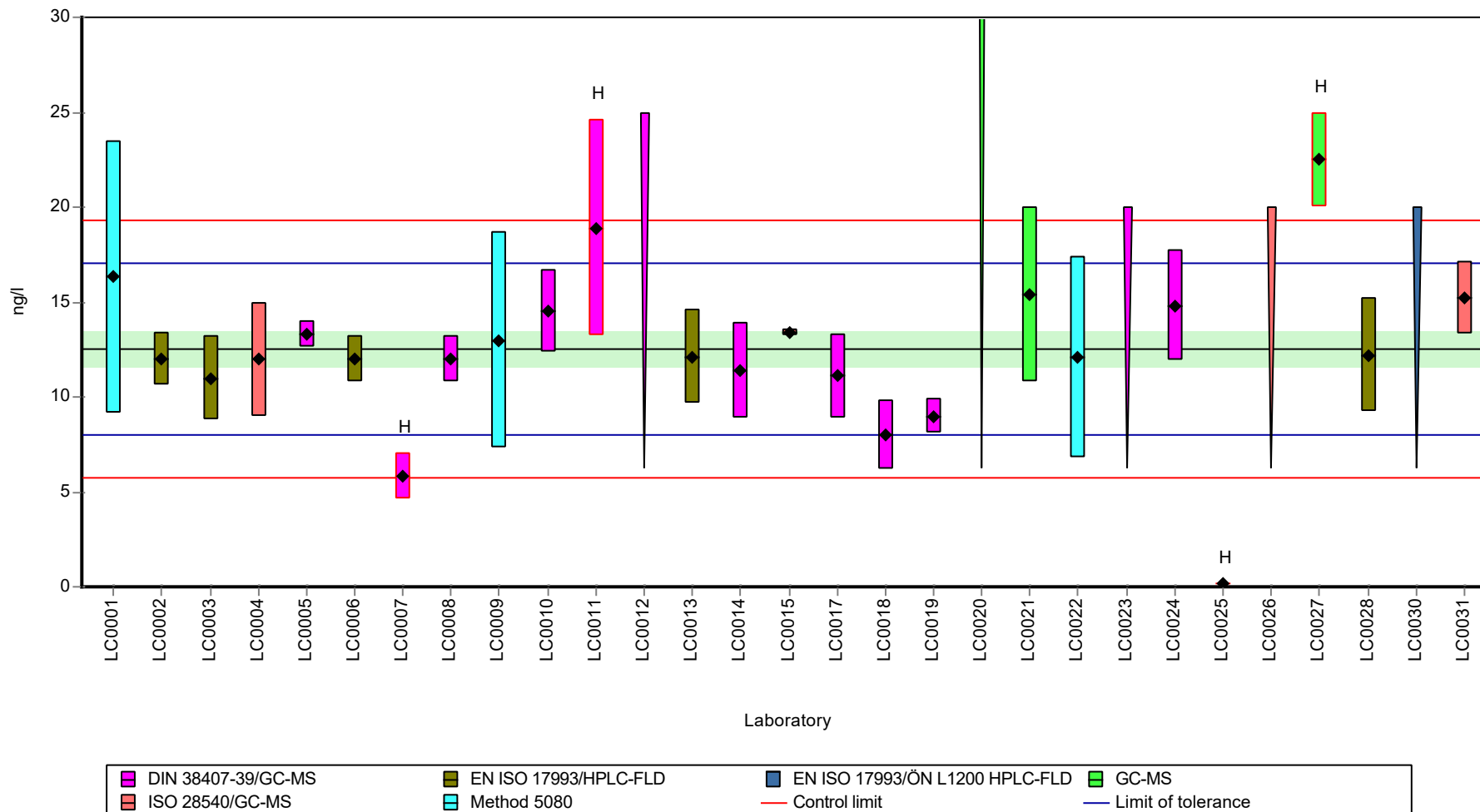
**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	12.4 ± 2.61	12.5 ± 1.38	ng/l
Minimum	0.158	8.01	ng/l
Maximum	22.5	16.3	ng/l
Standard deviation	4.27	2.06	ng/l
rel. standard deviation	34.3	16.4	%
n	24	20	-

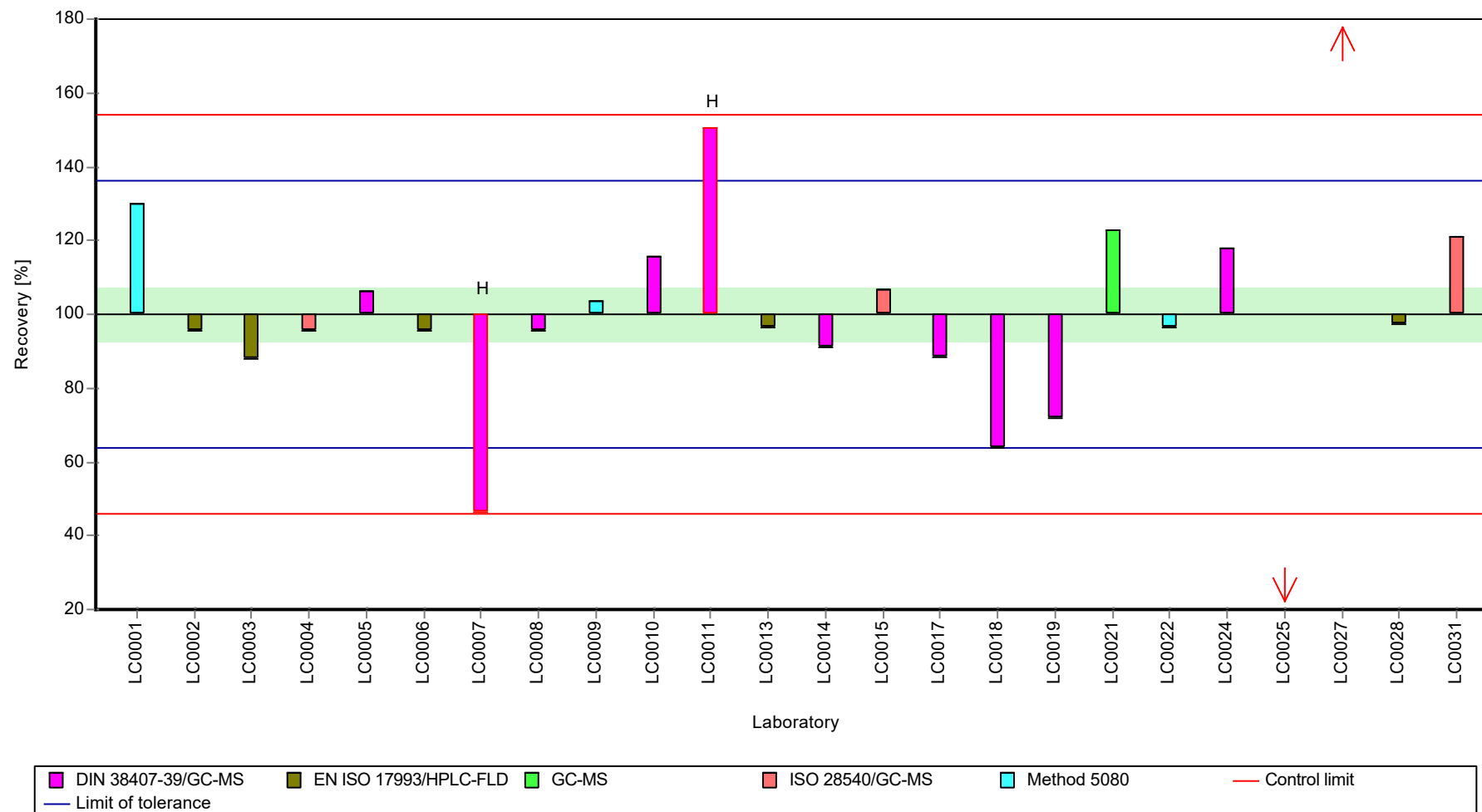


Graphical presentation of results

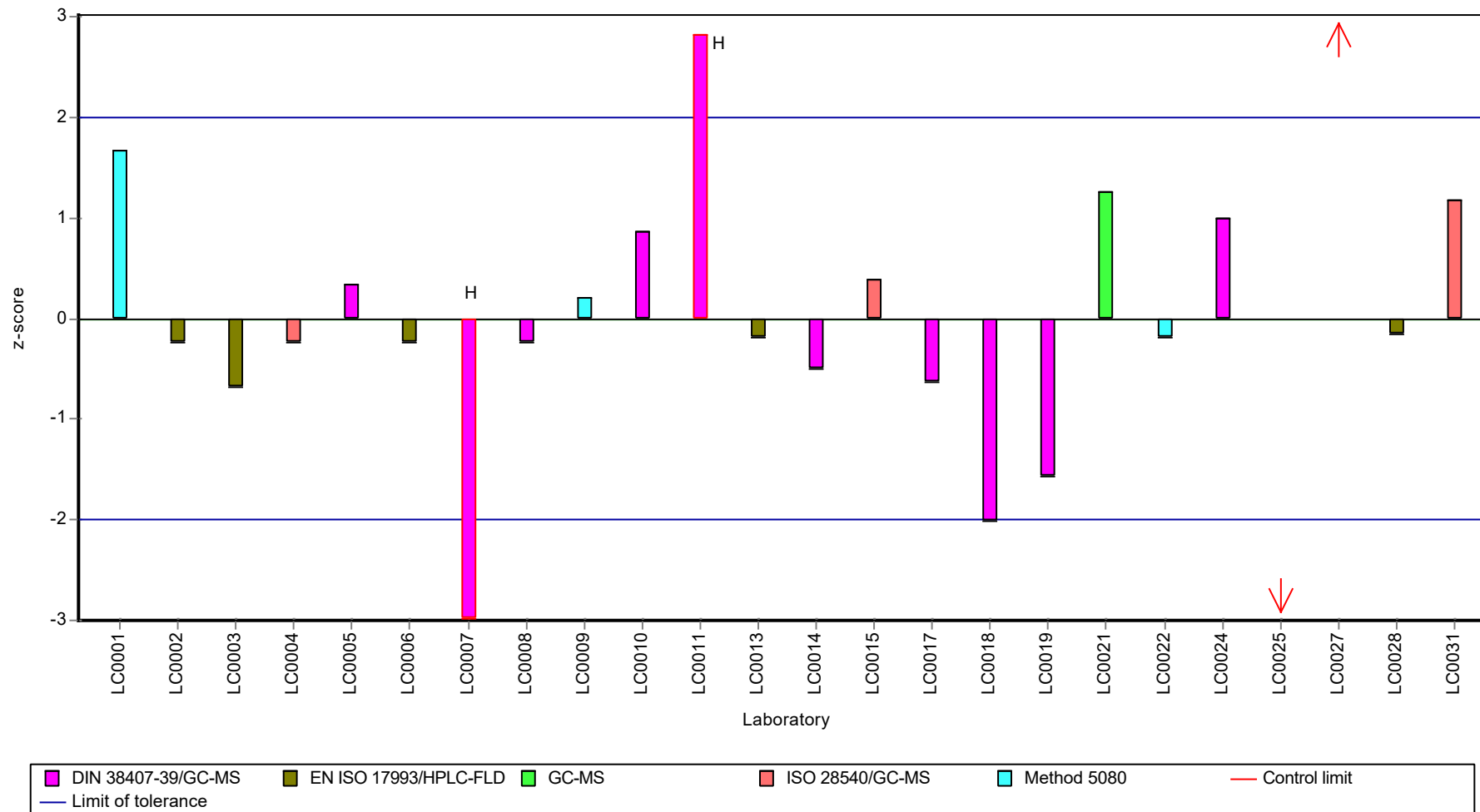
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

#### Fluoranthene

Unit	ng/l
Assigned value ± U (k=2)	72.1 ± 9.92
Criterion	23.1 (32 %)
Minimum - Maximum	5.76 - 105
Control test value ± U (k=2)	100 ± 22

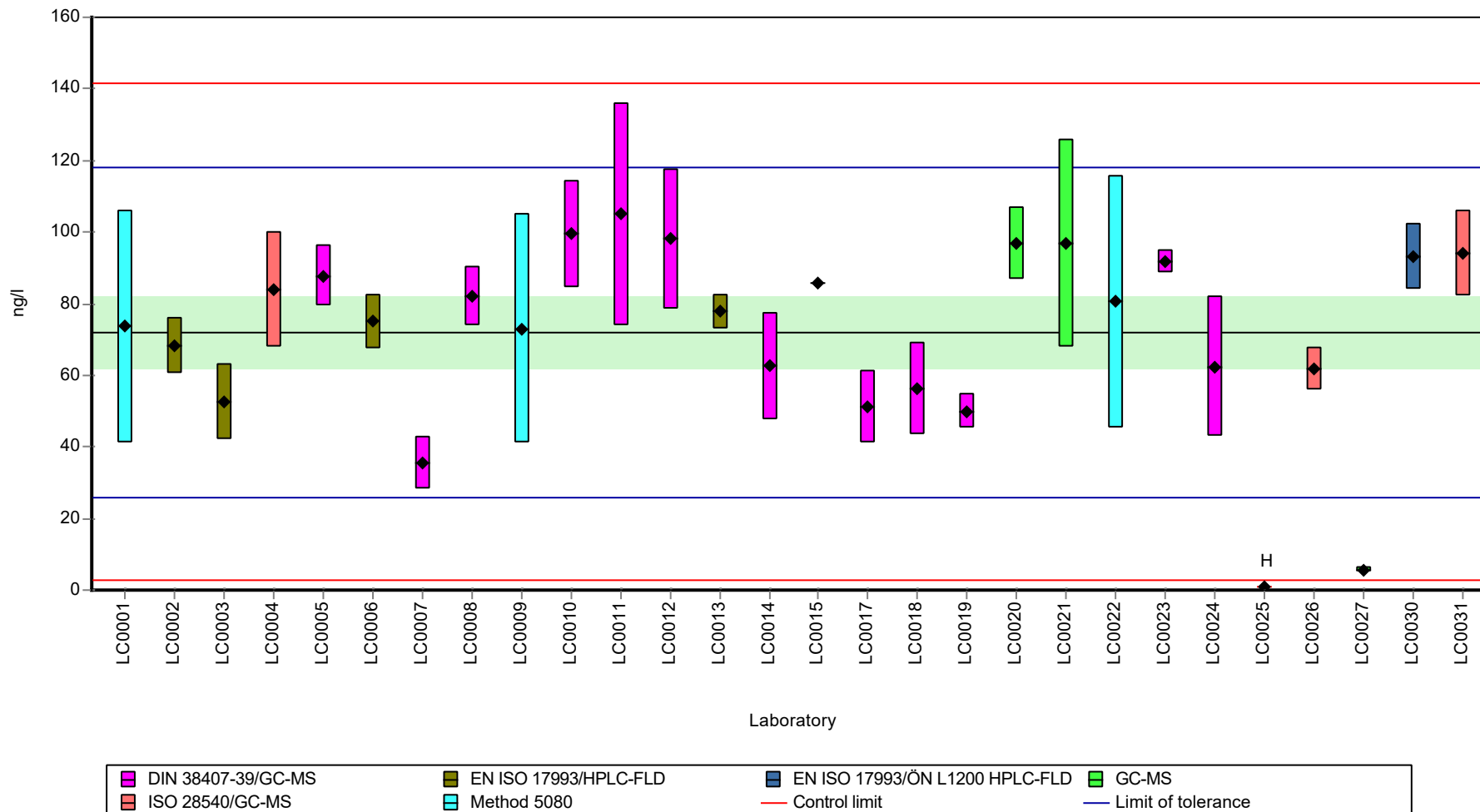
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	73.55	32.4	102	0.06	
LC0002	68.3	7.7	94.7	-0.17	
LC0003	52.5	10.5	72.8	-0.85	
LC0004	84	16	116	0.52	
LC0005	87.8	8.6	122	0.68	
LC0006	75	7.5	104	0.13	
LC0007	35.4	7.36	49.1	-1.59	
LC0008	82	8.2	114	0.43	
LC0009	73	32.1	101	0.04	
LC0010	99.47	14.92	138	1.19	
LC0011	105	31	146	1.43	
LC0012	98.1	19.6	136	1.13	
LC0013	77.7	4.7	108	0.24	
LC0014	62.6	15	86.8	-0.41	
LC0015	85.8	0.141	119	0.59	
LC0016	-	-	-	-	
LC0017	51.1	10.2	70.9	-0.91	
LC0018	56.3	12.943	78.1	-0.69	
LC0019	50	5	69.3	-0.96	
LC0020	96.8	10	134	1.07	
LC0021	96.98	29.09	134	1.08	
LC0022	80.5	35.4	112	0.36	
LC0023	91.6	3.18	127	0.84	
LC0024	62.4	19.5	86.5	-0.42	
LC0025	1.033	0.01	1.4	-3.08	H
LC0026	61.8	6.2	85.7	-0.45	
LC0027	5.76	0.63	8	-2.88	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	93	9.3	129	0.91	
LC0031	94.1	11.95	130	0.95	

**Characteristics of parameter**

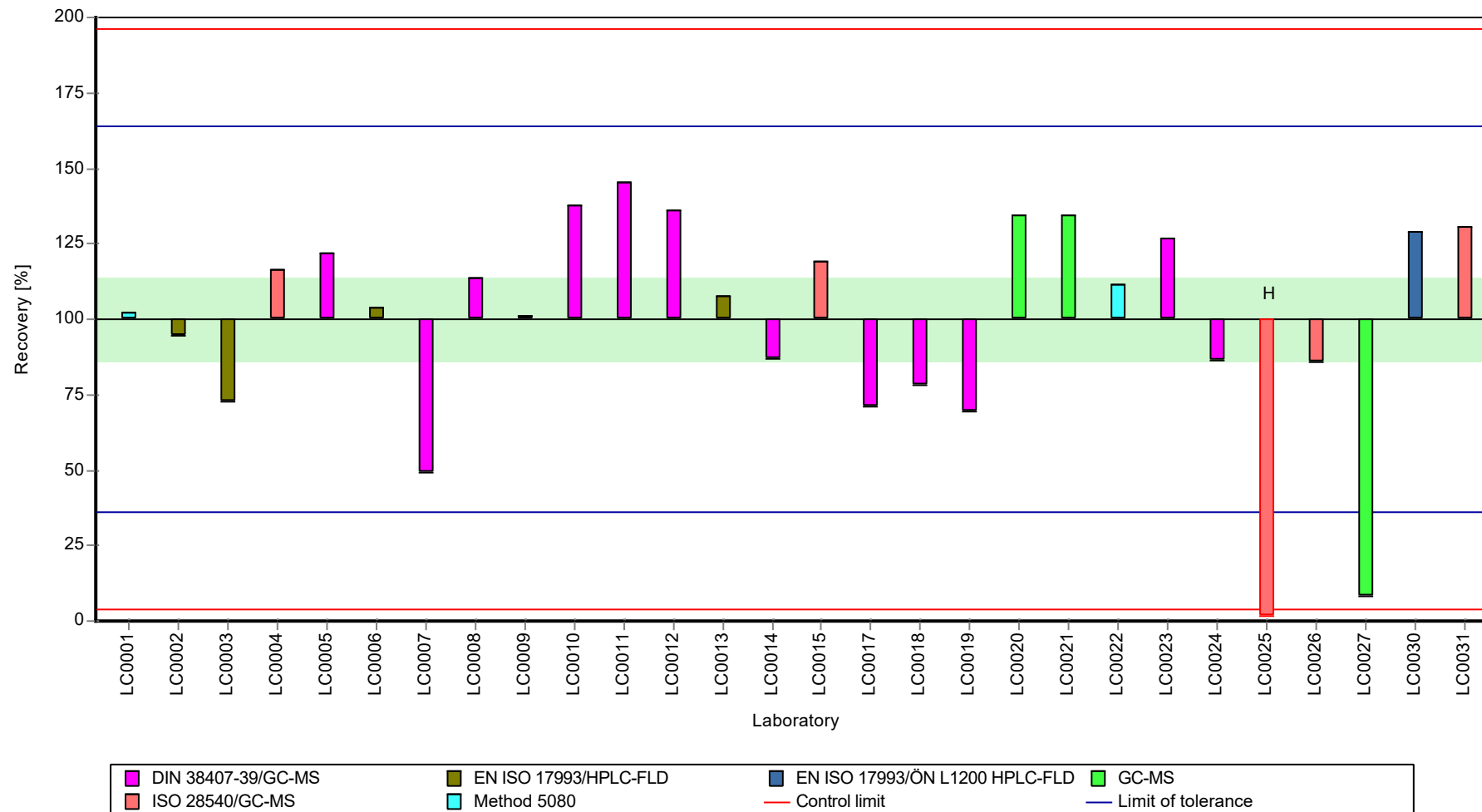
	all results	without outliers	Unit
Mean ± CI (99%)	71.5 ± 14.8	74.1 ± 13.1	ng/l
Minimum	1.03	5.76	ng/l
Maximum	105	105	ng/l
Standard deviation	26.2	22.6	ng/l
rel. standard deviation	36.6	30.6	%
n	28	27	-

Graphical presentation of results

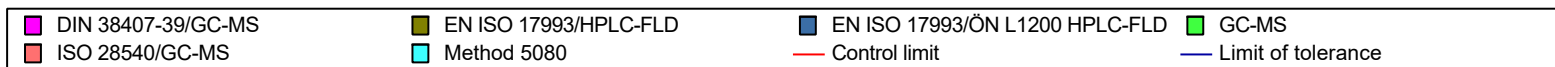
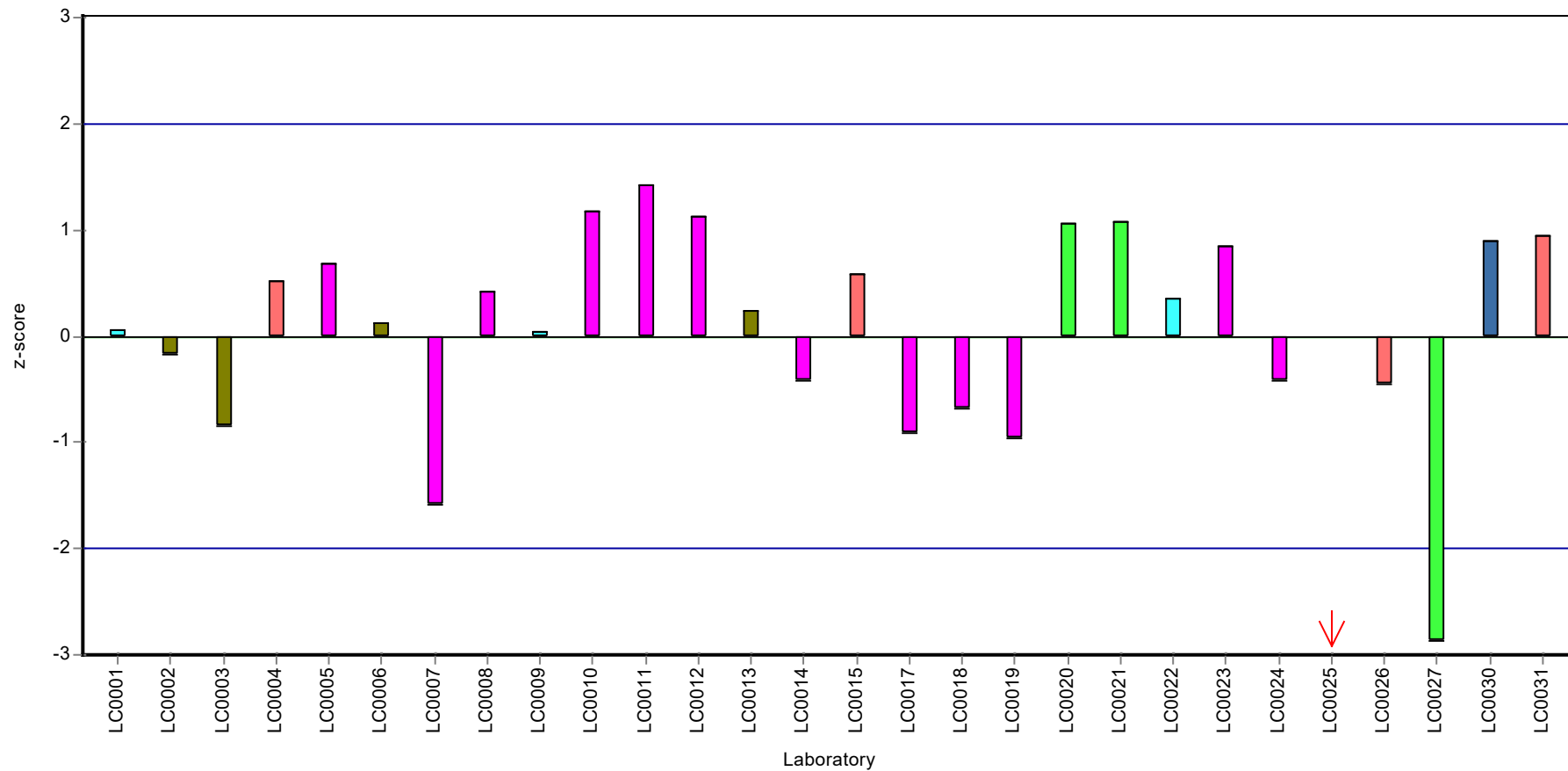
Results



Recovery rate



**Z-score**





## Parameter oriented report

### P21 A

#### Fluorene

Unit	ng/l
Assigned value ± U (k=2)	13 ± 0.921
Criterion	1.82 (14 %)
Minimum - Maximum	10.5 - 16
Control test value ± U (k=2)	15.2 ± 4.56

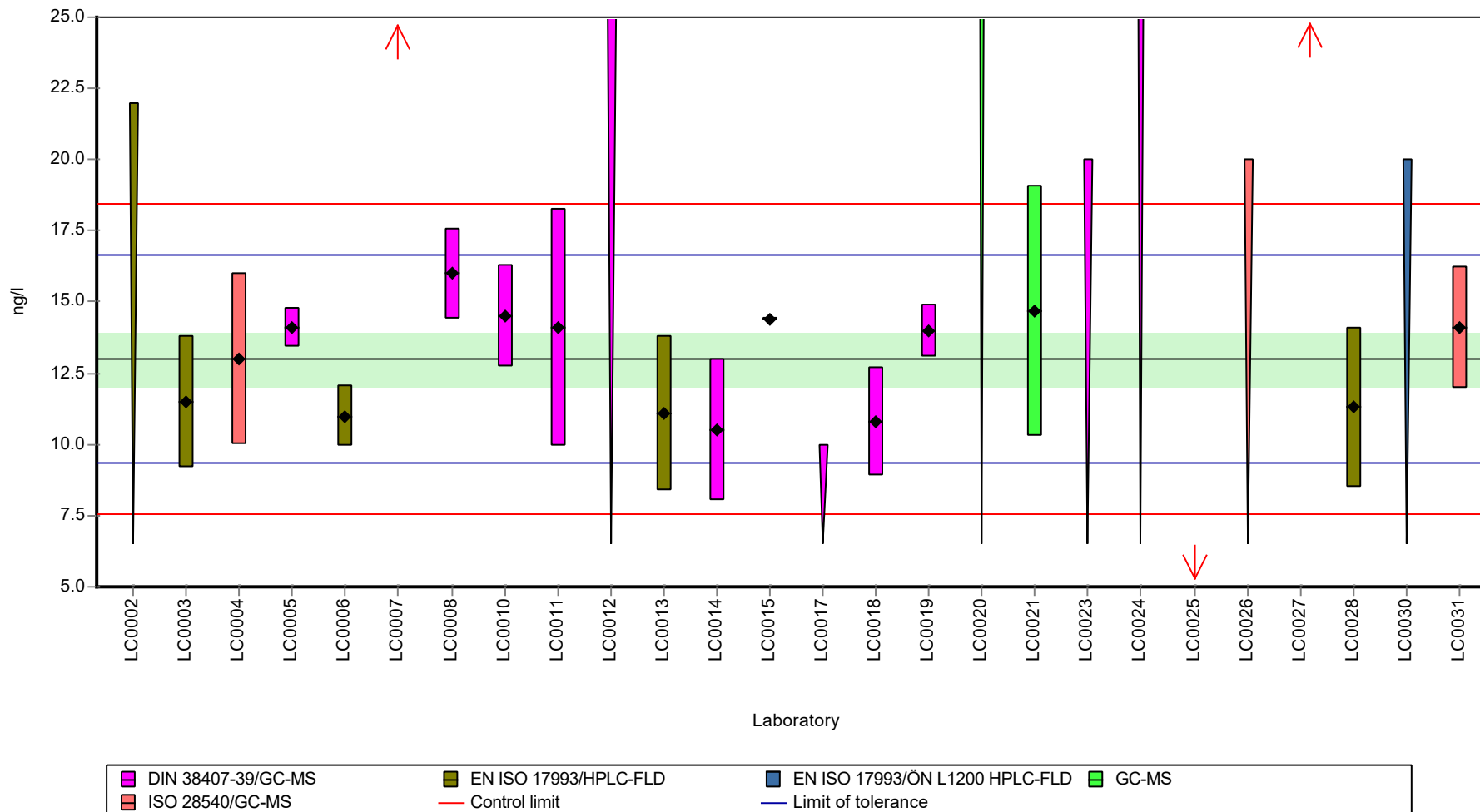
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 22 (LOQ)	-	-	-	
LC0003	11.5	2.3	88.4	-0.83	
LC0004	13	3	100	0.00	
LC0005	14.1	0.7	108	0.6	
LC0006	11	1.1	84.6	-1.1	
LC0007	43.1	9.79	331	16.5	H
LC0008	16	1.6	123	1.64	
LC0009	-	-	-	-	
LC0010	14.5	1.813	111	0.82	
LC0011	14.1	4.2	108	0.6	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	11.1	2.73	85.3	-1.05	
LC0014	10.5	2.5	80.7	-1.38	
LC0015	14.4	0.071	111	0.77	
LC0016	-	-	-	-	
LC0017	< 10 (LOQ)	-	-	-	
LC0018	10.8	1.938	83	-1.21	
LC0019	14	0.93	108	0.55	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	14.68	4.4	113	0.92	
LC0022	-	-	-	-	
LC0023	< 20 (LOQ)	-	-	-	
LC0024	< 38 (LOQ)	-	-	-	
LC0025	0.24	0.01	1.9	-7.01	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	27.23	7.57	209	7.81	H
LC0028	11.3	2.8	86.9	-0.94	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	14.1	2.12	108	0.6	

**Characteristics of parameter**

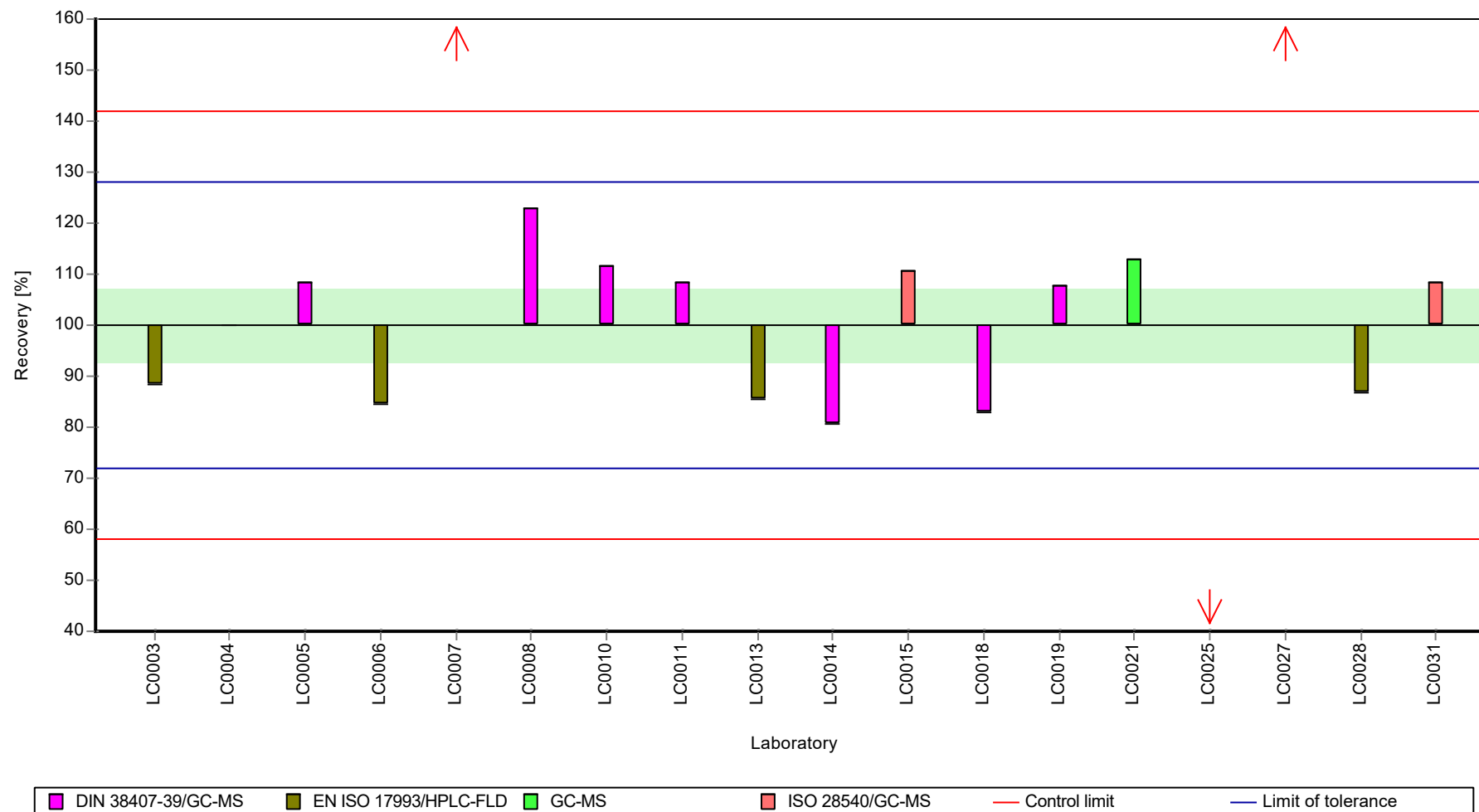
	all results	without outliers	Unit
Mean $\pm$ CI (99%)	14.8 $\pm$ 6.09	13 $\pm$ 1.38	ng/l
Minimum	0.24	10.5	ng/l
Maximum	43.1	16	ng/l
Standard deviation	8.61	1.78	ng/l
rel. standard deviation	58.3	13.7	%
n	18	15	-

Graphical presentation of results

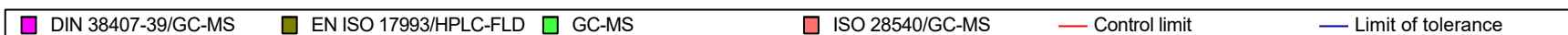
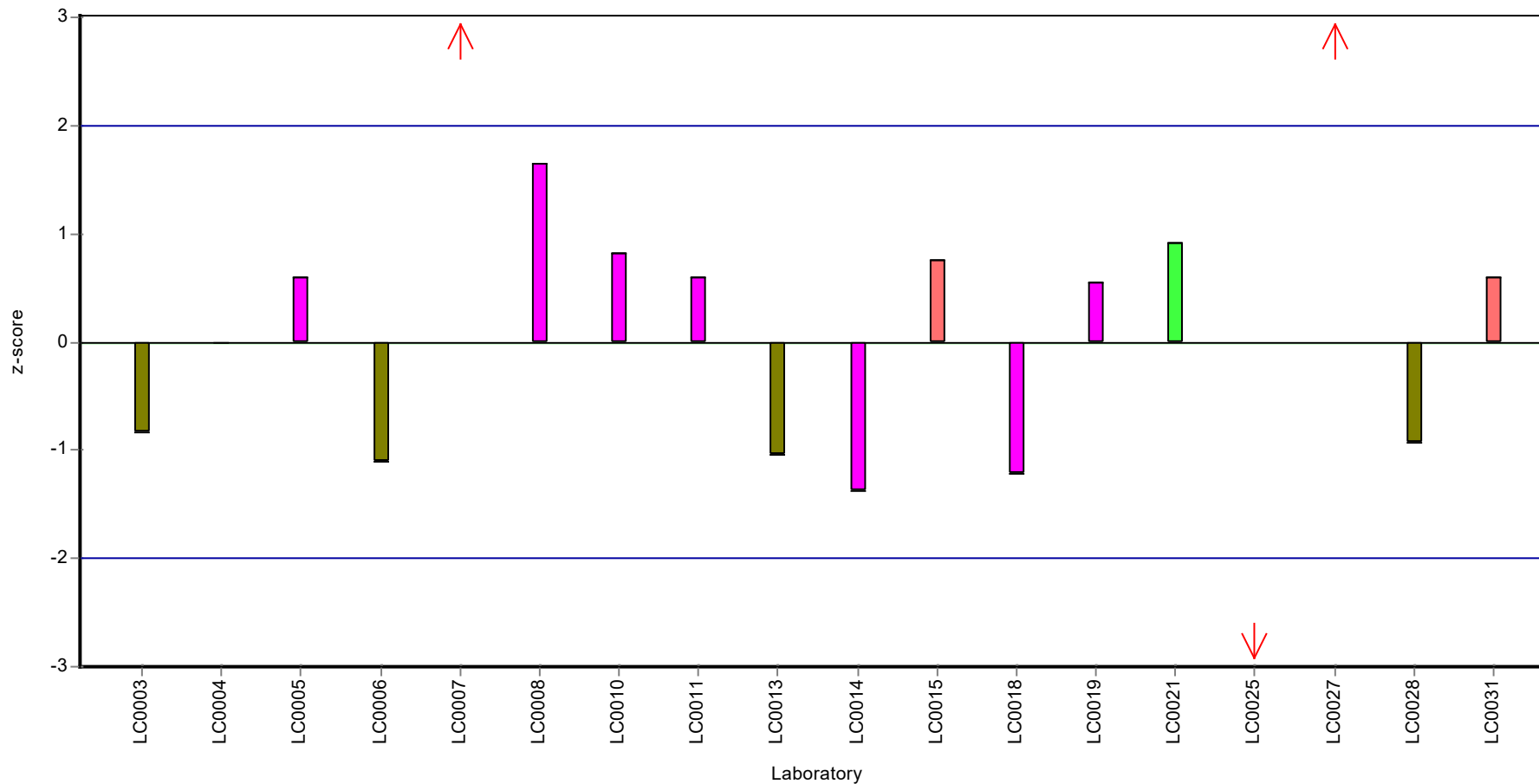
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 B

#### Fluorene

Unit	ng/l
Assigned value ± U (k=2)	186 ± 24.1
Criterion	26 (14 %)
Minimum - Maximum	15 - 262
Control test value ± U (k=2)	256 ± 76.9

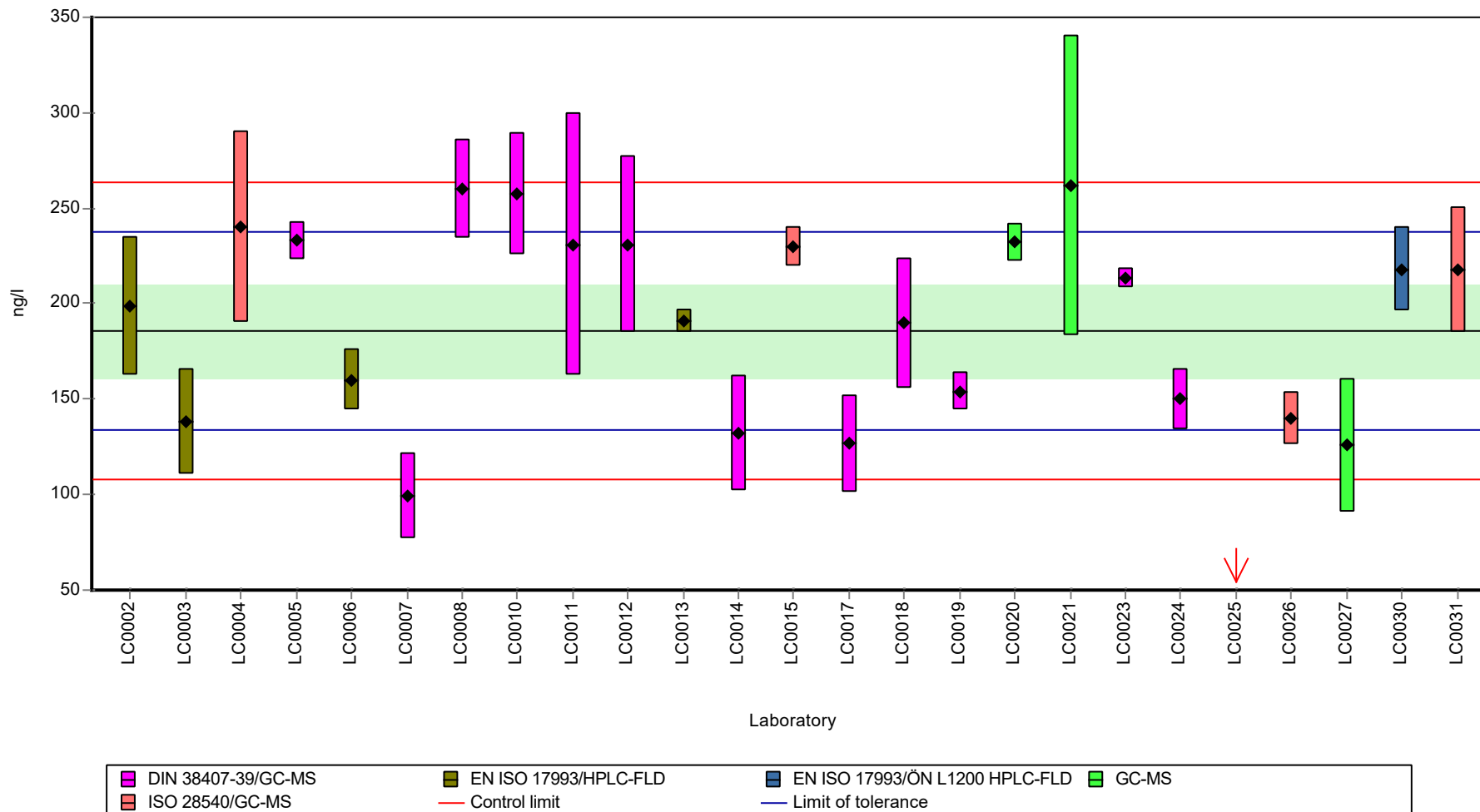
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	199	36.4	107	0.51	
LC0003	138	27.6	74.2	-1.84	
LC0004	240	50	129	2.08	
LC0005	233	10	125	1.81	
LC0006	160	16	86.1	-0.99	
LC0007	99.5	22.6	53.5	-3.32	
LC0008	260	26	140	2.85	
LC0009	-	-	-	-	
LC0010	257.29	32.16	138	2.74	
LC0011	231	69	124	1.73	
LC0012	231	46	124	1.73	
LC0013	191	5.83	103	0.2	
LC0014	132	30	71	-2.07	
LC0015	230	10.607	124	1.7	
LC0016	-	-	-	-	
LC0017	126.8	25.4	68.2	-2.27	
LC0018	190	34.154	102	0.16	
LC0019	154	10	82.9	-1.22	
LC0020	232.1	10	125	1.78	
LC0021	261.98	78.59	141	2.93	
LC0022	-	-	-	-	
LC0023	213.2	5.16	115	1.05	
LC0024	150	16	80.7	-1.38	
LC0025	14.96	0.01	8.1	-6.57	
LC0026	140.1	14	75.4	-1.76	
LC0027	125.72	34.95	67.6	-2.31	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	218	22	117	1.23	
LC0031	218	32.7	117	1.23	

**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	186 ± 36.1	186 ± 36.1	ng/l
Minimum	15	15	ng/l
Maximum	262	262	ng/l
Standard deviation	60.1	60.1	ng/l
rel. standard deviation	32.3	32.3	%
n	25	25	-

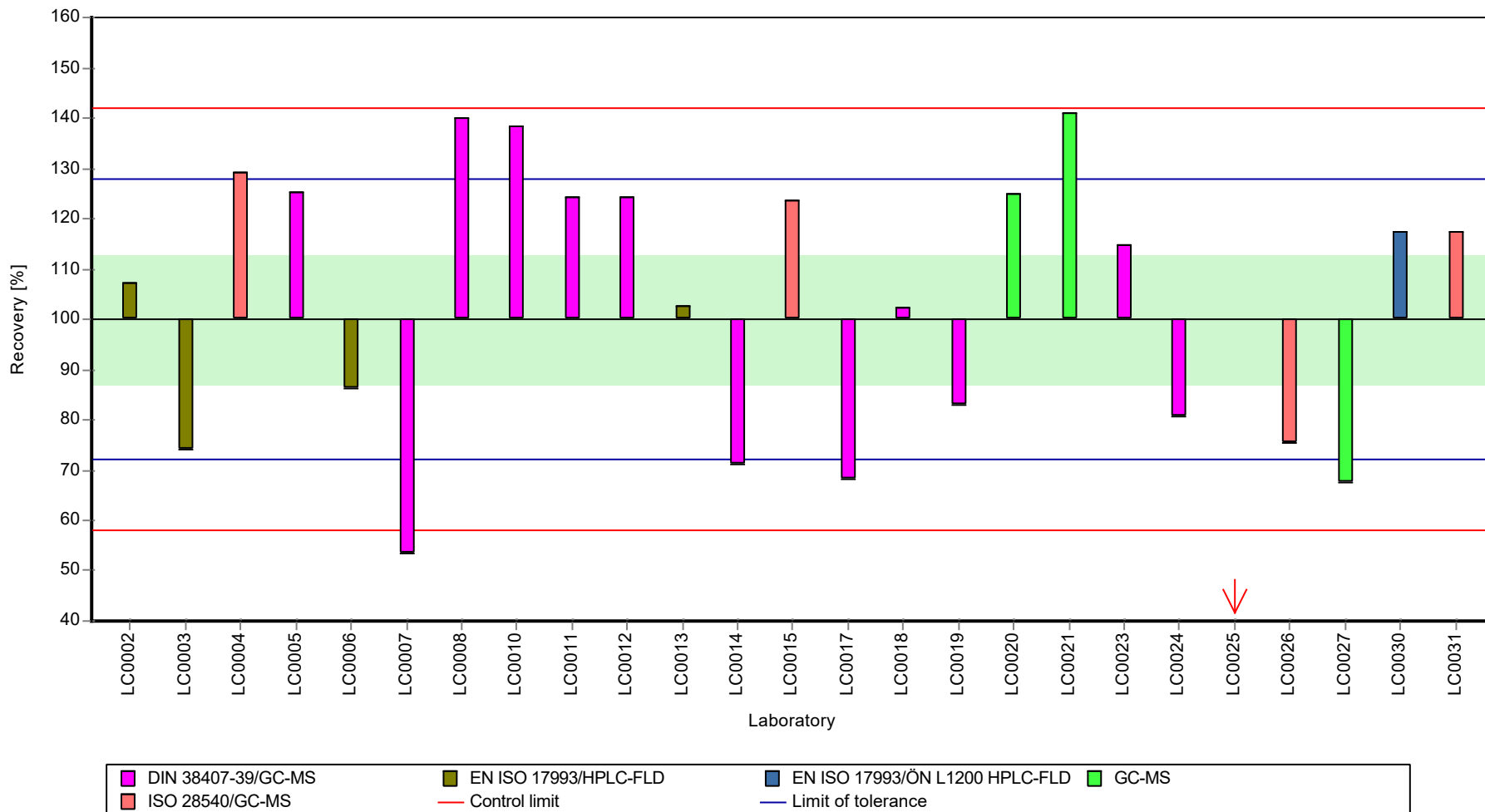
Graphical presentation of results

Results

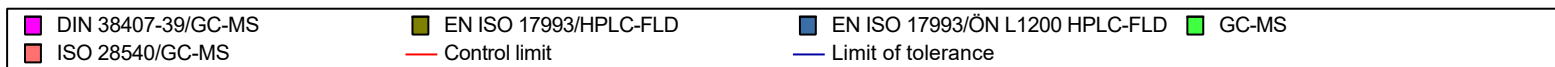
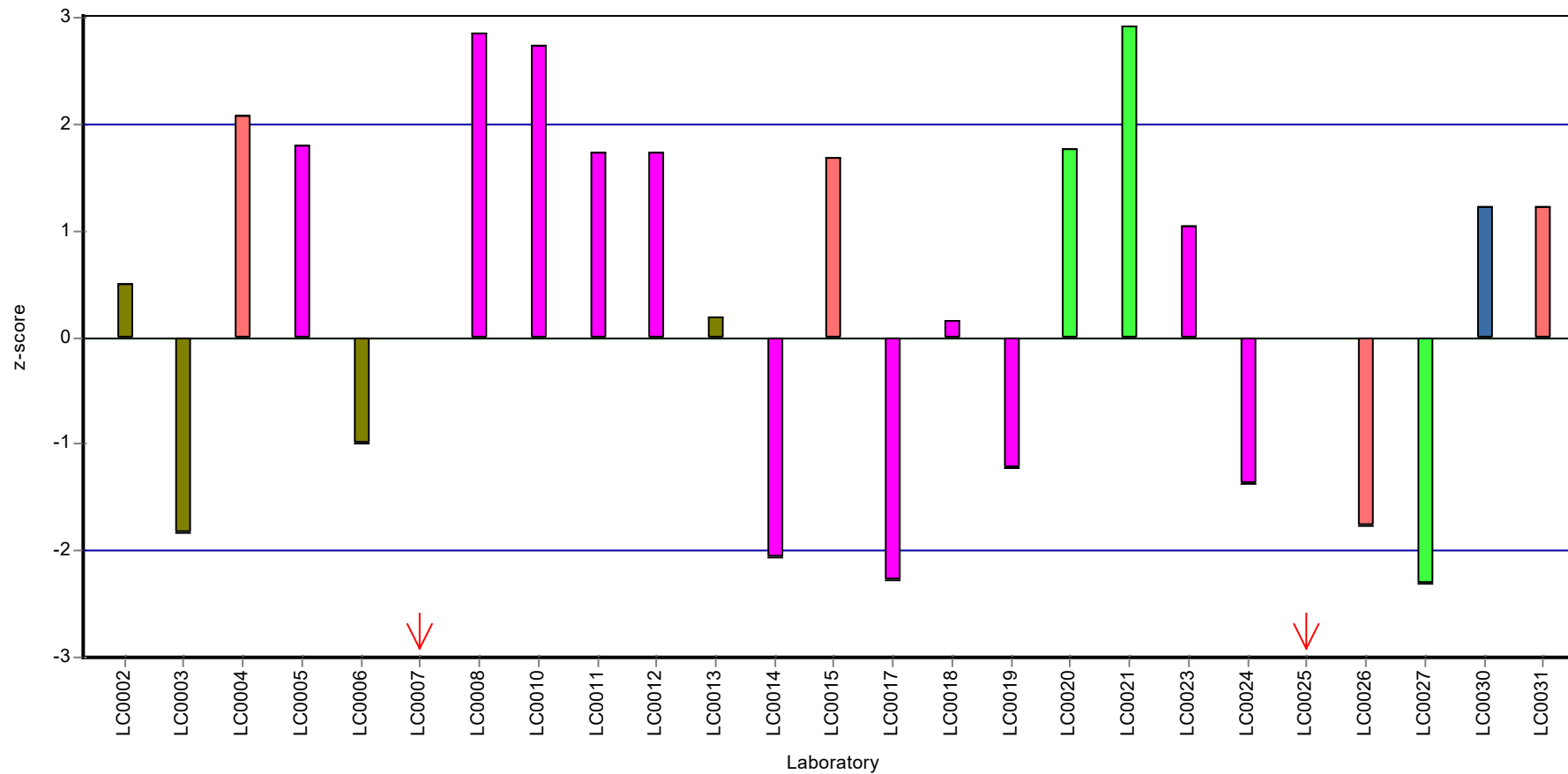




Recovery rate



Z-score



## Parameter oriented report

### P21 A

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

Unit	ng/l
Assigned value ± U (k=2)	9.46 ± 1.24
Criterion	2.65 (28 %)
Minimum - Maximum	4.8 - 16.5
Control test value ± U (k=2)	12.1 ± 3.87

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	9.55	4.2	101	0.03	
LC0002	10.8	1.2	114	0.5	
LC0003	< 5 (LOQ)	-	-	-	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	9.81	0.5	104	0.13	
LC0006	8	0.8	84.5	-0.55	
LC0007	4.8	0.51	50.7	-1.76	
LC0008	6	0.6	63.4	-1.31	
LC0009	9	4	95.1	-0.17	
LC0010	10.15	1.776	107	0.26	
LC0011	16.5	5	174	2.66	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	9.57	2.5	101	0.04	
LC0015	10.2	0.707	108	0.28	
LC0016	7.19	2.02	76	-0.86	
LC0017	12.5	2.5	132	1.15	
LC0018	5.62	1.011	59.4	-1.45	
LC0019	9	0.71	95.1	-0.17	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	< 10 (LOQ)	-	-	-	
LC0022	7.55	3.32	79.8	-0.72	
LC0023	< 10 (LOQ)	-	-	-	
LC0024	< 52 (LOQ)	-	-	-	
LC0025	1.153	0.0108	12.2	-3.14	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	11.07	1.96	117	0.61	
LC0028	11.2	2.8	118	0.66	
LC0029	18.3	1.83	193	3.33	H
LC0030	< 20 (LOQ)	-	-	-	
LC0031	11.3	1.68	119	0.69	

Parameter oriented report Polycyclic Aromatic  
Hydrocarbons P21

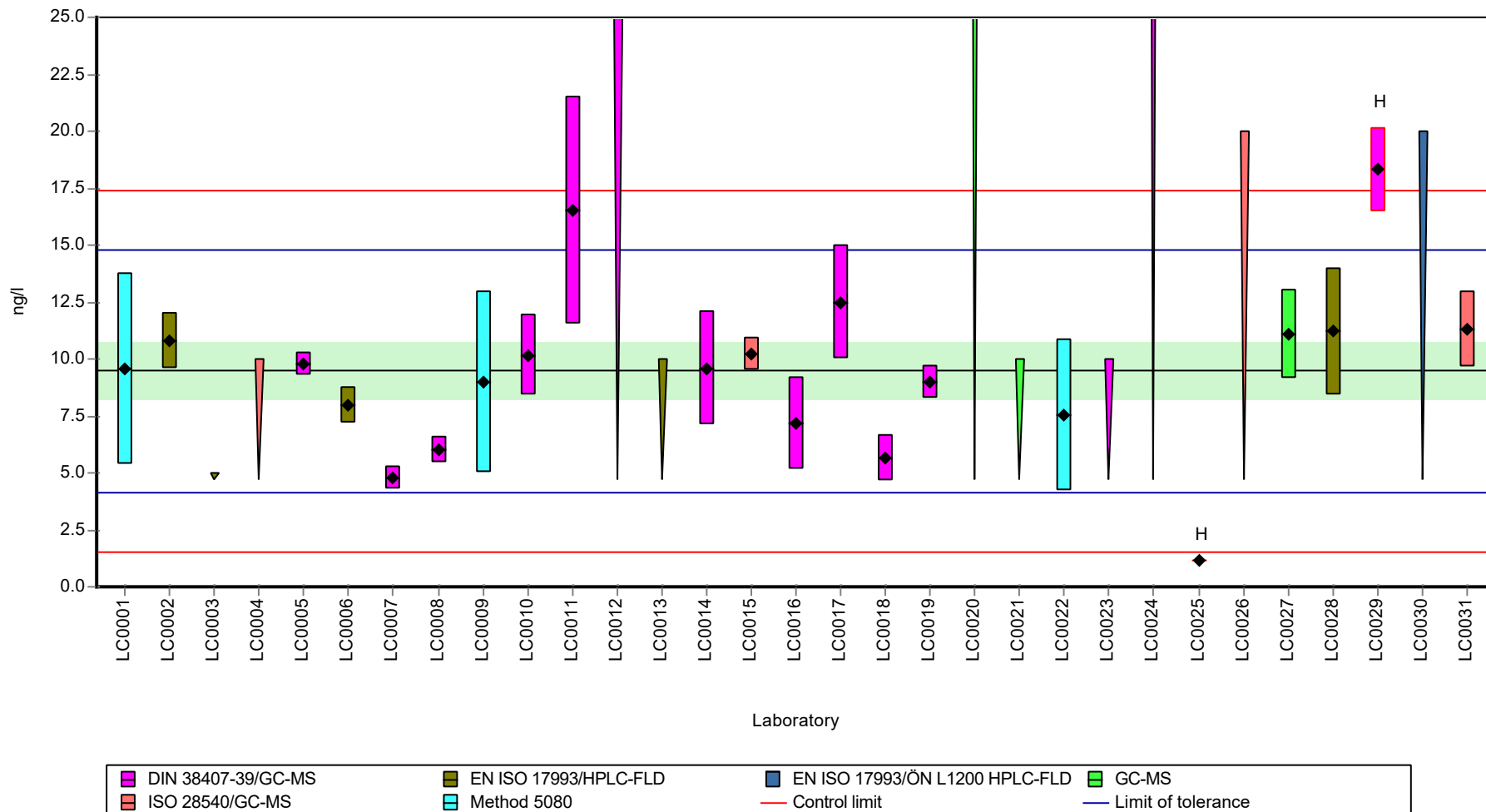
Sample: P21A, Parameter: Indeno[1,2,3-cd]pyrene

**Characteristics of parameter**

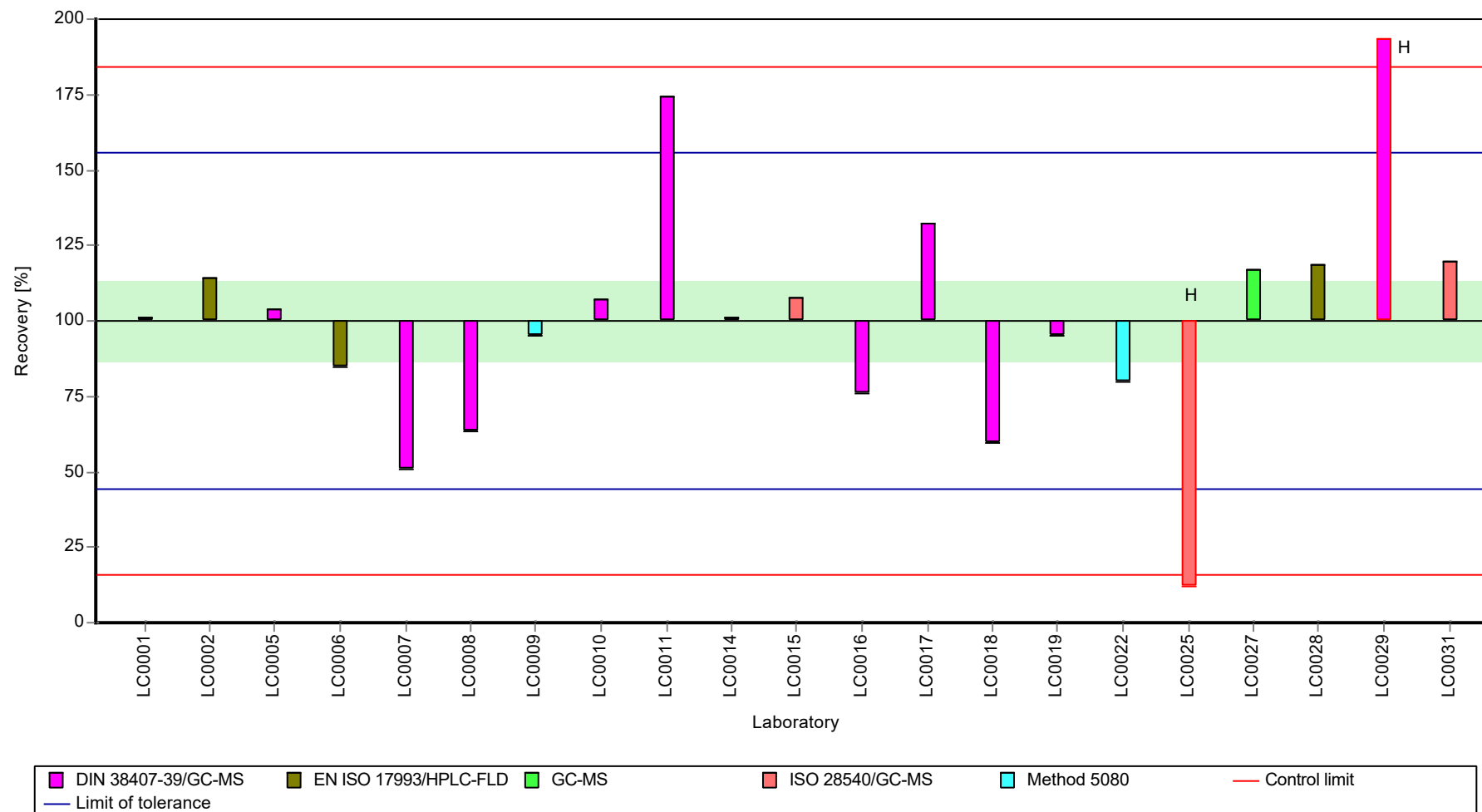
	all results	without outliers	Unit
Mean ± CI (99%)	9.49 ± 2.44	9.46 ± 1.85	ng/l
Minimum	1.15	4.8	ng/l
Maximum	18.3	16.5	ng/l
Standard deviation	3.73	2.69	ng/l
rel. standard deviation	39.3	28.5	%
n	21	19	-

Graphical presentation of results

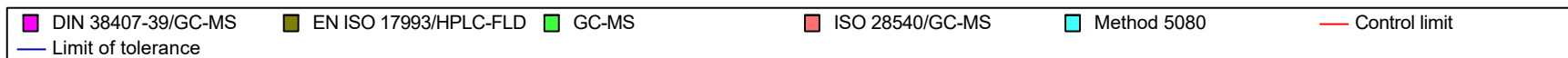
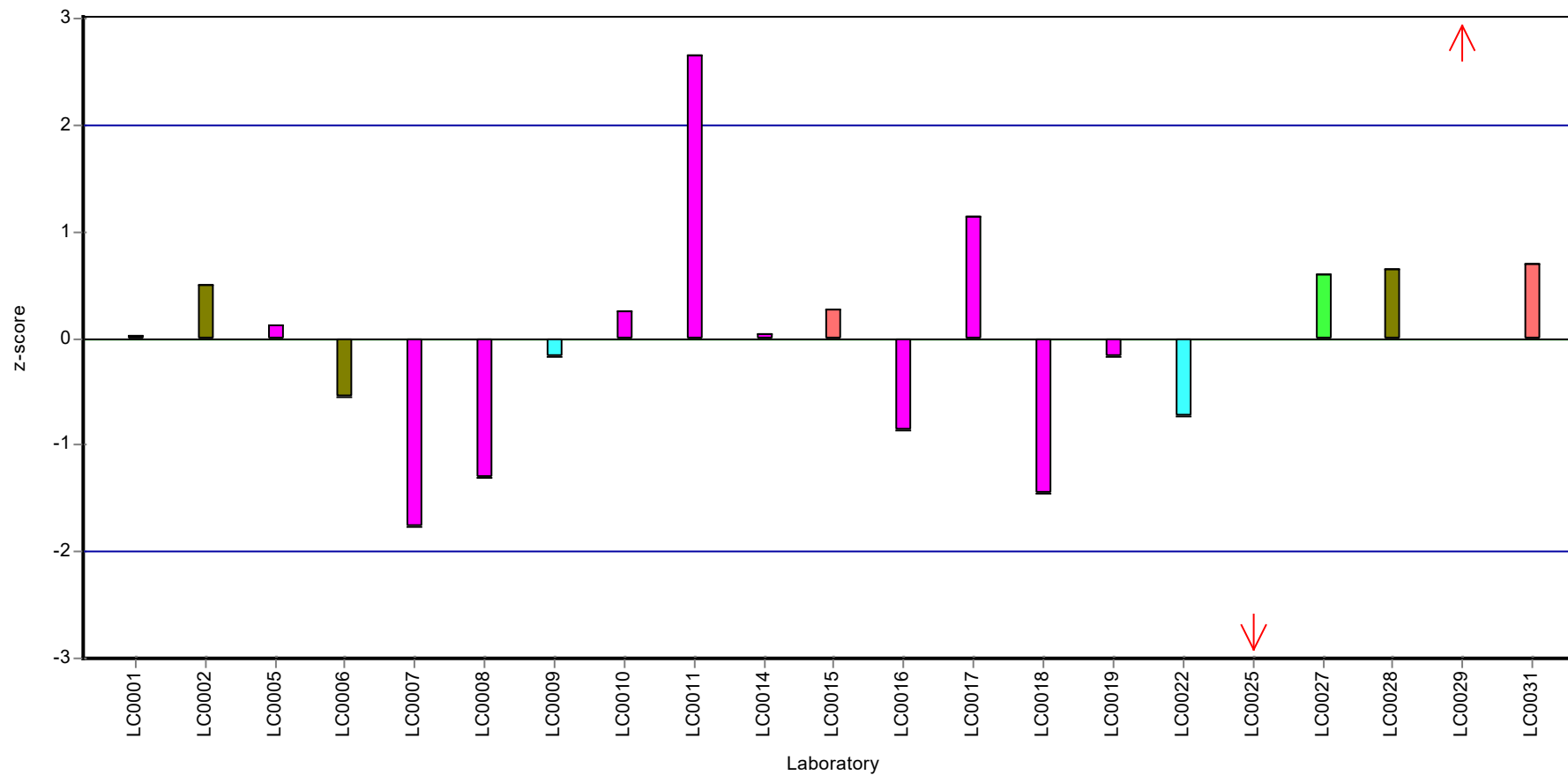
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

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

Unit	ng/l
Assigned value ± U (k=2)	112 ± 13.2
Criterion	35.9 (32 %)
Minimum - Maximum	25.1 - 169
Control test value ± U (k=2)	154 ± 49.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	107	47.4	95.4	-0.14	
LC0002	132.6	14.3	118	0.57	
LC0003	92	18.4	82.1	-0.56	
LC0004	125	30	112	0.36	
LC0005	129	15	115	0.47	
LC0006	115	11.5	103	0.08	
LC0007	53.9	5.71	48.1	-1.62	
LC0008	100	10	89.2	-0.34	
LC0009	120	52.8	107	0.22	
LC0010	143.31	25.08	128	0.87	
LC0011	154	46	137	1.17	
LC0012	141	28	126	0.81	
LC0013	104	2.31	92.8	-0.23	
LC0014	146	35	130	0.94	
LC0015	135	5.657	120	0.64	
LC0016	124.29	34.93	111	0.34	
LC0017	31.7	6.3	28.3	-2.24	
LC0018	72.8	13.098	64.9	-1.1	
LC0019	106	8.3	94.6	-0.17	
LC0020	149.3	10	133	1.04	
LC0021	125.23	37.57	112	0.37	
LC0022	96.5	42.5	86.1	-0.43	
LC0023	110.8	4.34	98.8	-0.04	
LC0024	80.7	14	72	-0.88	
LC0025	0.35	0.0108	0.3	-3.12	H
LC0026	25.1	2.5	22.4	-2.43	
LC0027	3.85	0.68	3.4	-3.02	H
LC0028	169.1	42.3	151	1.59	
LC0029	74.75	7.5	66.7	-1.04	
LC0030	148	15	132	1	
LC0031	139	20.7	124	0.75	



Parameter oriented report Polycyclic Aromatic  
Hydrocarbons P21

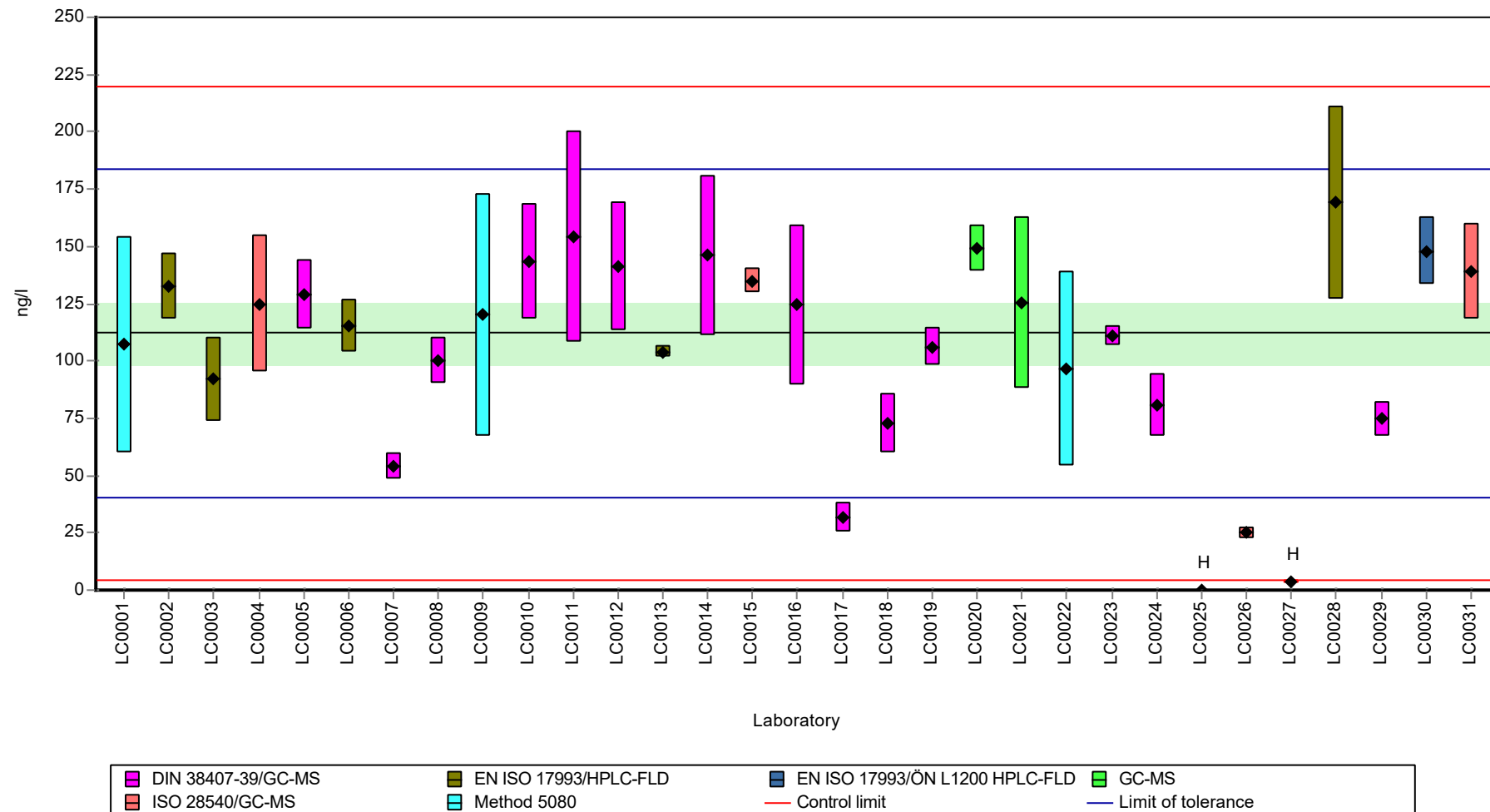
Sample: P21B, Parameter: Indeno[1,2,3-cd]pyrene

**Characteristics of parameter**

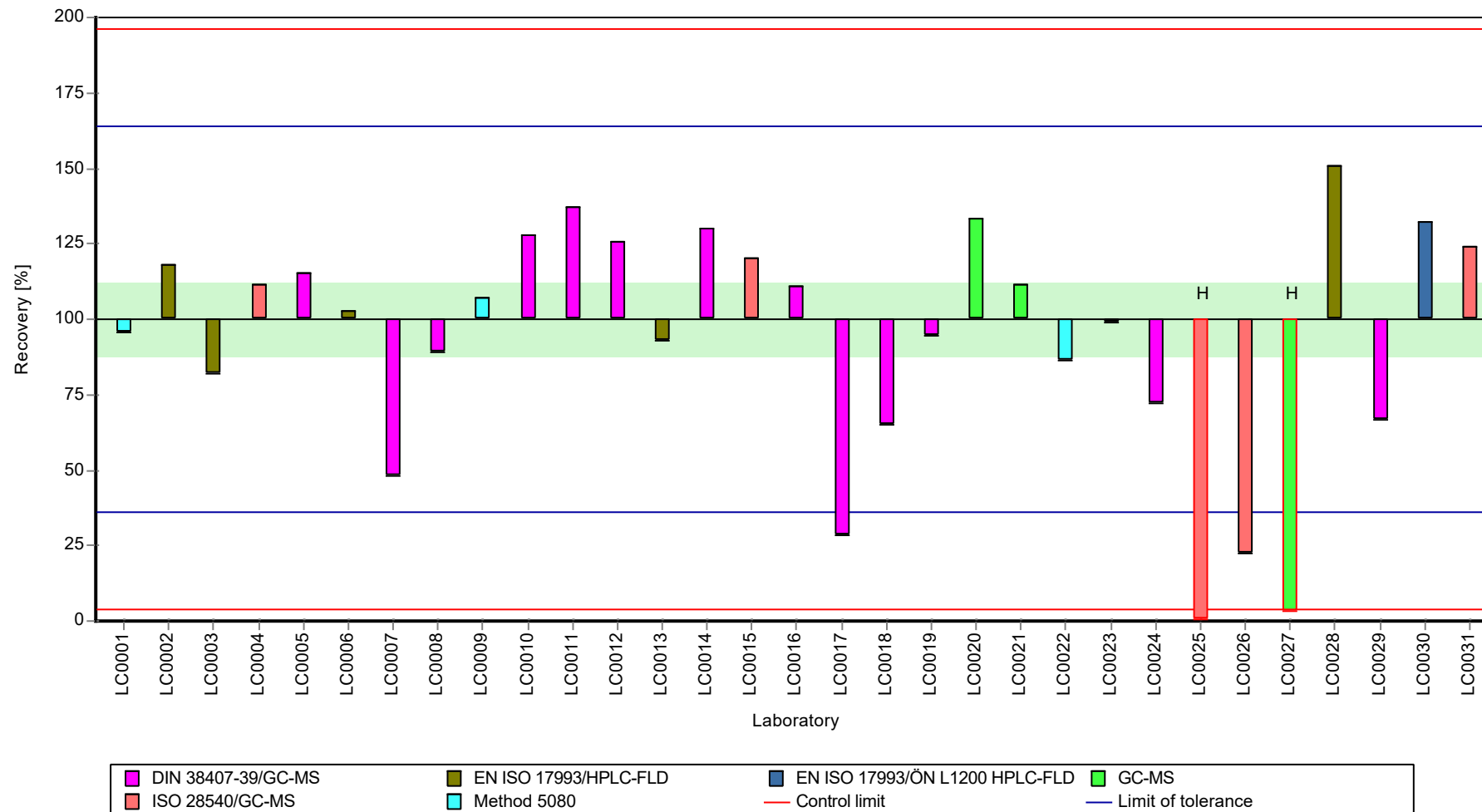
	all results	without outliers	Unit
Mean ± CI (99%)	105 ± 23.7	112 ± 19.8	ng/l
Minimum	0.35	25.1	ng/l
Maximum	169	169	ng/l
Standard deviation	44	35.6	ng/l
rel. standard deviation	41.9	31.7	%
n	31	29	-

Graphical presentation of results

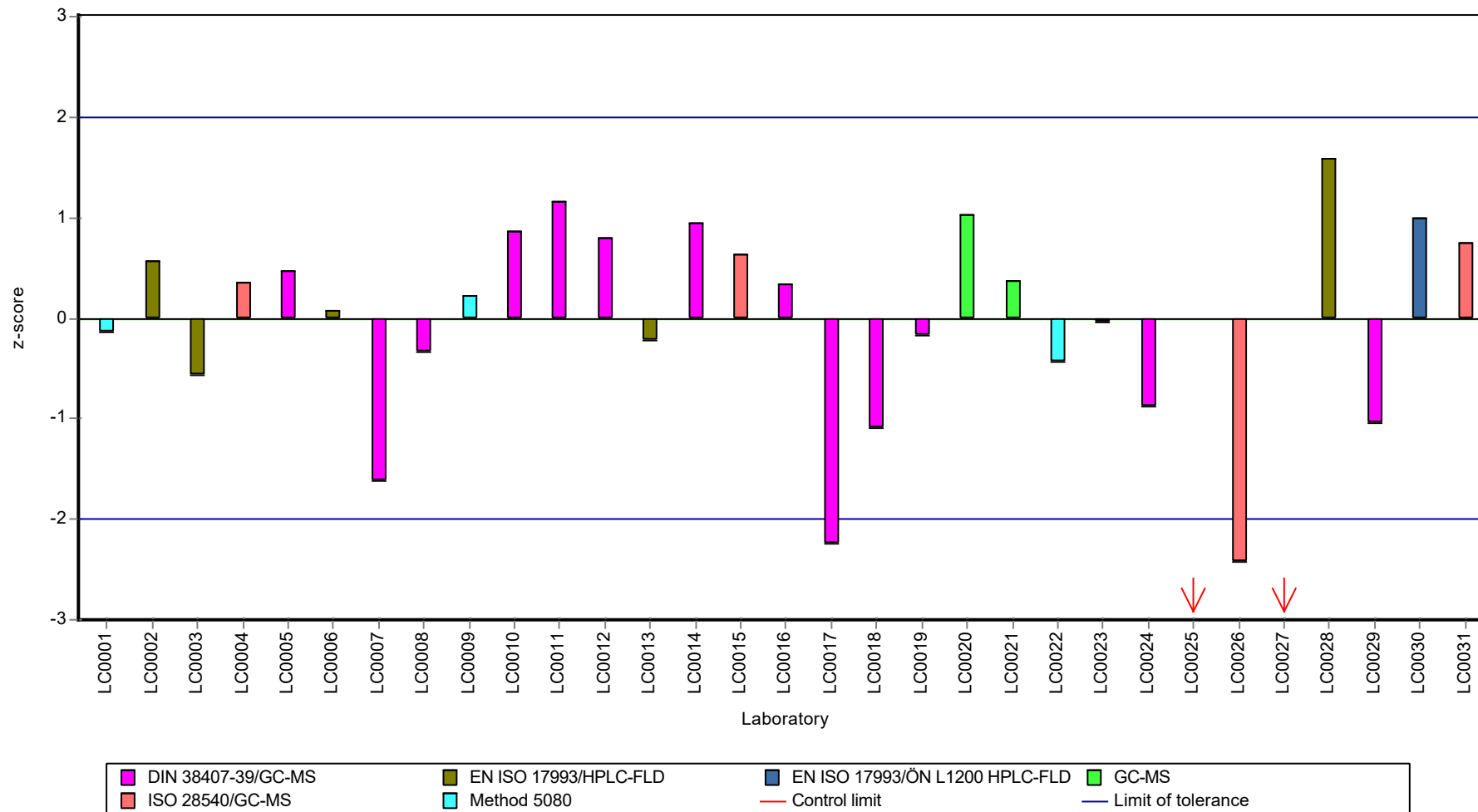
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 A

#### Naphthalene

Unit	ng/l
Assigned value ± U (k=2)	28.5 ± 2.52
Criterion	5.99 (21 %)
Minimum - Maximum	17.5 - 41
Control test value ± U (k=2)	33.5 ± 9.39

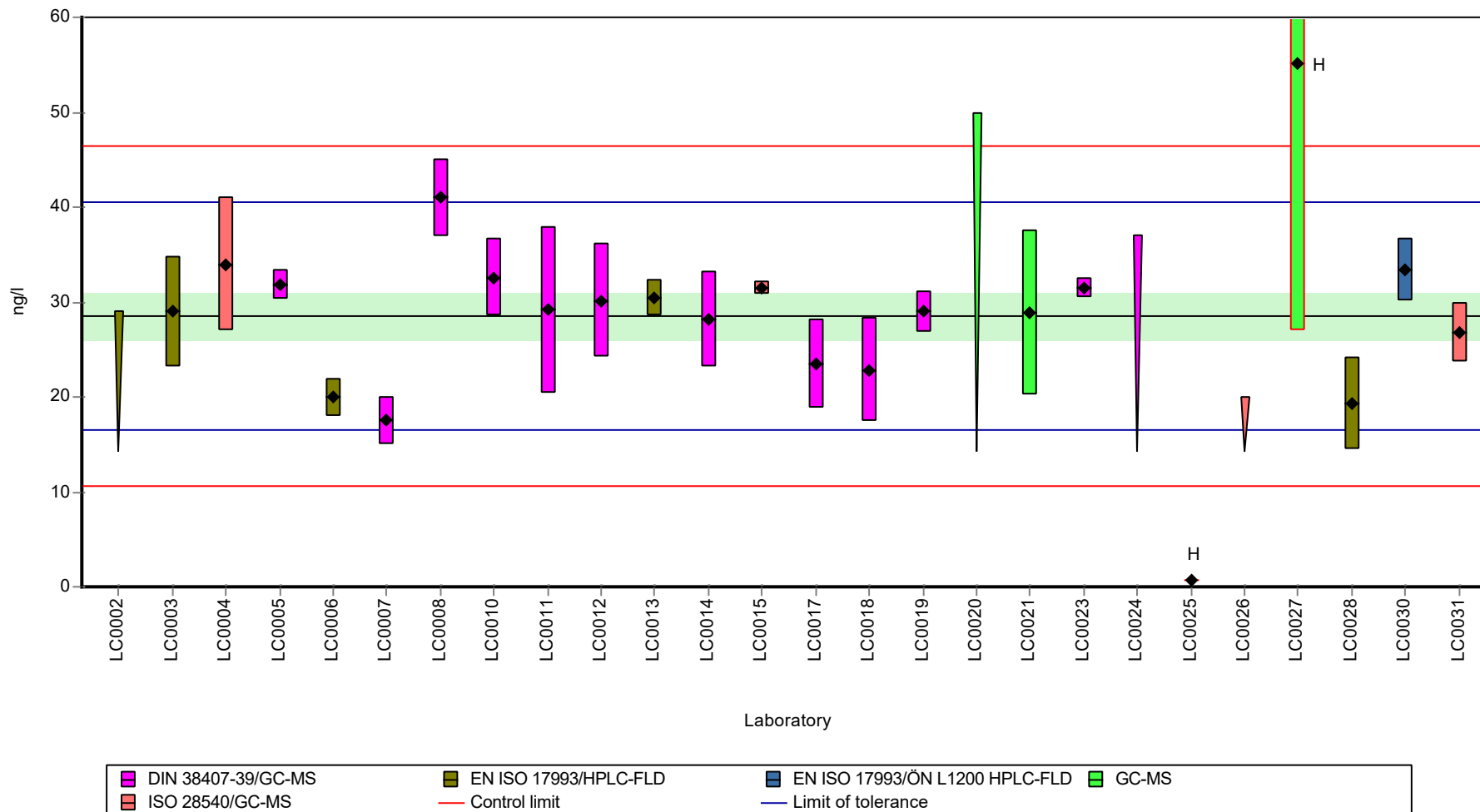
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 29 (LOQ)	-	-	-	
LC0003	29	5.8	102	0.08	
LC0004	34	7	119	0.92	
LC0005	31.8	1.6	111	0.55	
LC0006	20	2	70.1	-1.42	
LC0007	17.5	2.57	61.4	-1.84	
LC0008	41	4.1	144	2.08	
LC0009	-	-	-	-	
LC0010	32.55	4.069	114	0.67	
LC0011	29.2	8.8	102	0.11	
LC0012	30.1	6	106	0.26	
LC0013	30.4	1.94	107	0.31	
LC0014	28.2	5	98.9	-0.05	
LC0015	31.5	0.7	110	0.5	
LC0016	-	-	-	-	
LC0017	23.5	4.7	82.4	-0.84	
LC0018	22.8	5.475	79.9	-0.95	
LC0019	29	2.2	102	0.08	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	28.88	8.66	101	0.06	
LC0022	-	-	-	-	
LC0023	31.5	1.05	110	0.5	
LC0024	< 37 (LOQ)	-	-	-	
LC0025	0.68	0.01	2.4	-4.65	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	55.08	28.09	193	4.43	H
LC0028	19.3	4.8	67.7	-1.54	
LC0029	-	-	-	-	
LC0030	33.4	3.3	117	0.81	
LC0031	26.8	3.16	94	-0.29	

**Characteristics of parameter**

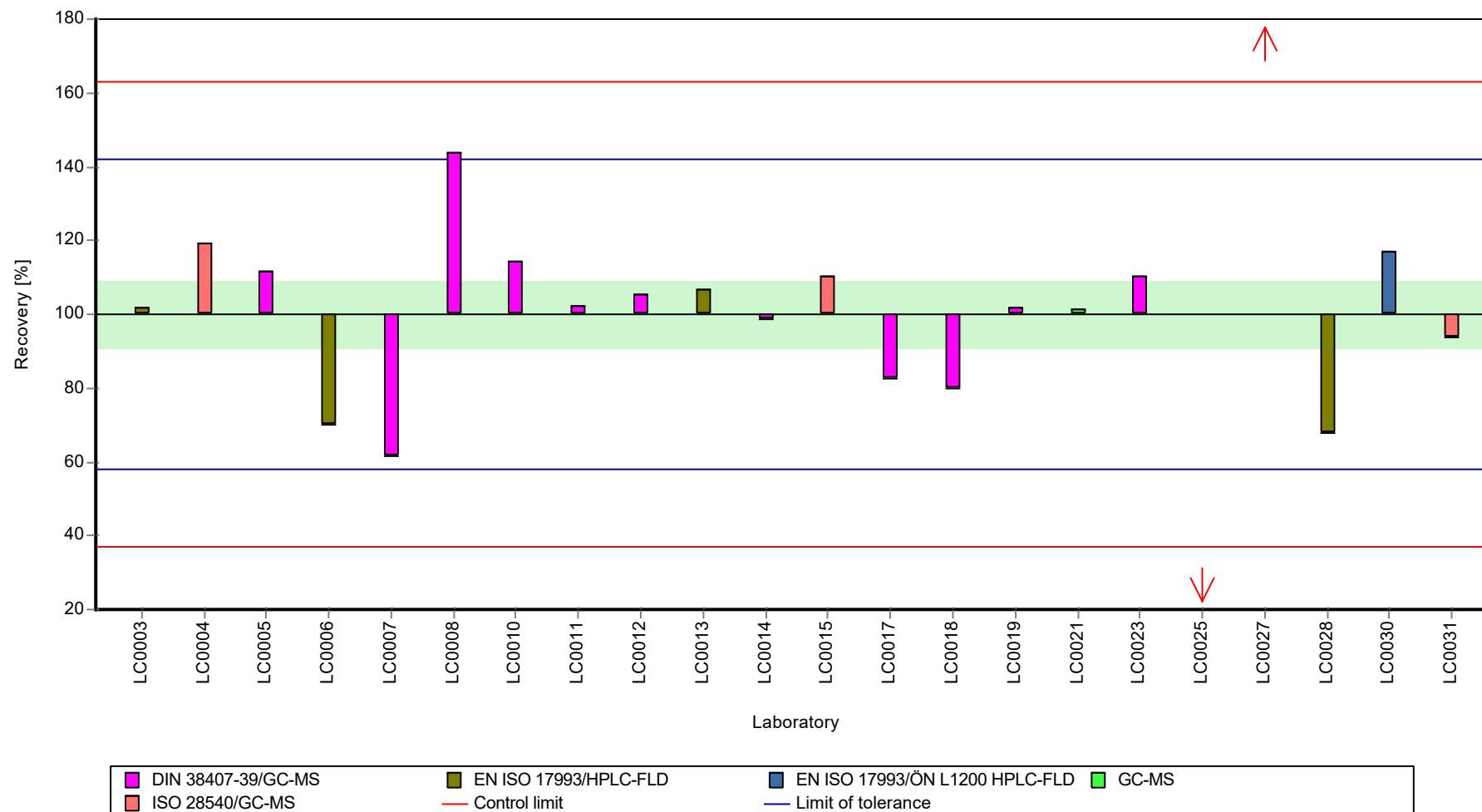
	all results	without outliers	Unit
Mean ± CI (99%)	28.5 ± 6.37	28.5 ± 3.77	ng/l
Minimum	0.68	17.5	ng/l
Maximum	55.1	41	ng/l
Standard deviation	9.96	5.63	ng/l
rel. standard deviation	35	19.7	%
n	22	20	-

Graphical presentation of results

Results

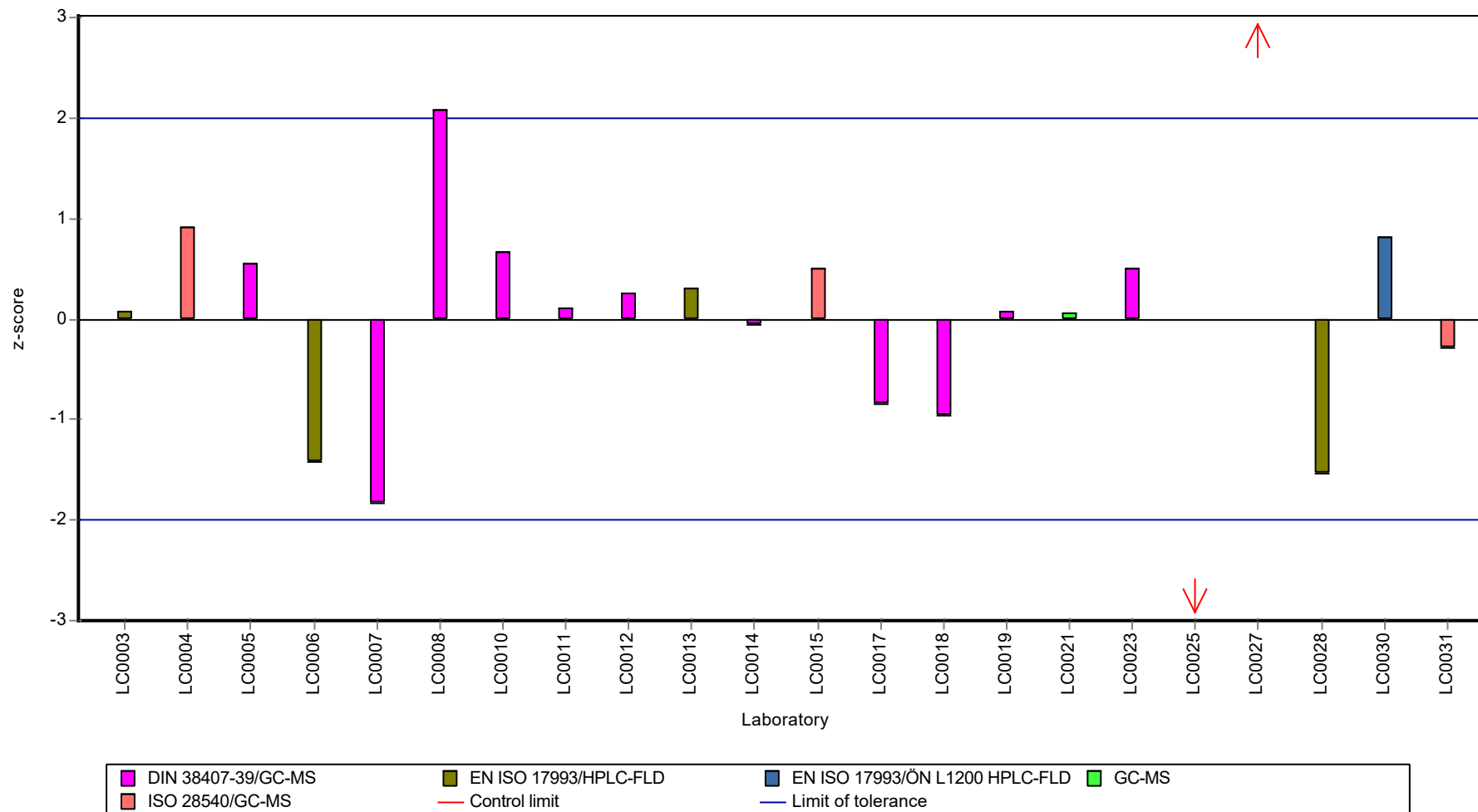


Recovery rate





**Z-score**



## Parameter oriented report

### P21 B

#### Naphthalene

Unit	ng/l
Assigned value ± U (k=2)	168 ± 28.1
Criterion	35.2 (21 %)
Minimum - Maximum	13.3 - 243
Control test value ± U (k=2)	249 ± 69.6

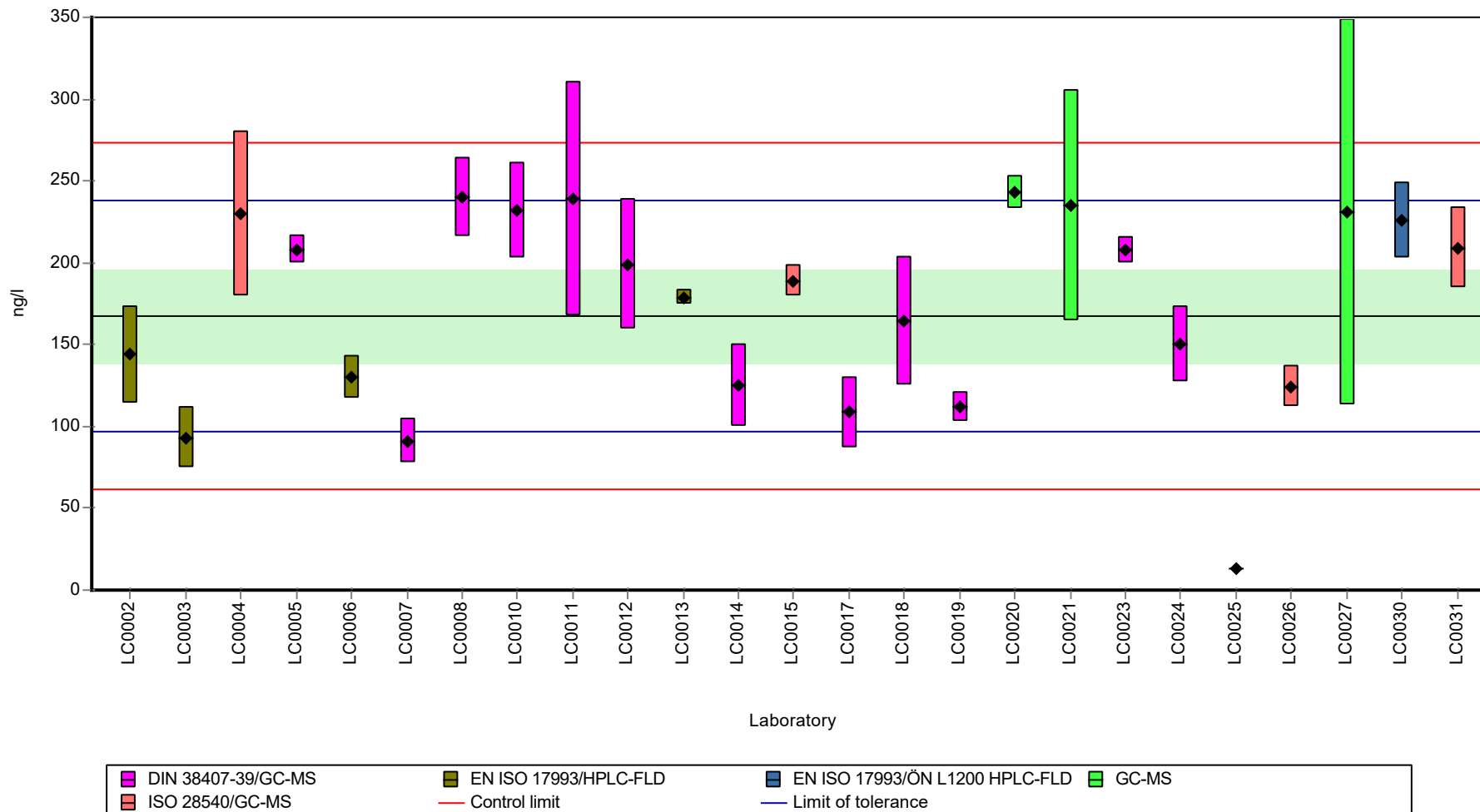
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	144	29.8	86	-0.67	
LC0003	93	18.6	55.5	-2.12	
LC0004	230	50	137	1.78	
LC0005	208	8.5	124	1.15	
LC0006	130	13	77.6	-1.07	
LC0007	91	13.4	54.3	-2.17	
LC0008	240	24	143	2.06	
LC0009	-	-	-	-	
LC0010	231.92	28.99	138	1.83	
LC0011	239	72	143	2.03	
LC0012	199	40	119	0.9	
LC0013	179	4.8	107	0.33	
LC0014	125	25	74.6	-1.21	
LC0015	189	9.899	113	0.61	
LC0016	-	-	-	-	
LC0017	108.7	21.7	64.9	-1.67	
LC0018	164	39.327	97.9	-0.1	
LC0019	112	8.7	66.9	-1.58	
LC0020	243.4	10	145	2.16	
LC0021	234.93	70.48	140	1.92	
LC0022	-	-	-	-	
LC0023	208	8.22	124	1.15	
LC0024	150	23	89.6	-0.5	
LC0025	13.3	0.01	7.9	-4.38	
LC0026	124.5	12.5	74.3	-1.22	
LC0027	231.29	117.96	138	1.81	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	226	23	135	1.66	
LC0031	209	24.7	125	1.18	

**Characteristics of parameter**

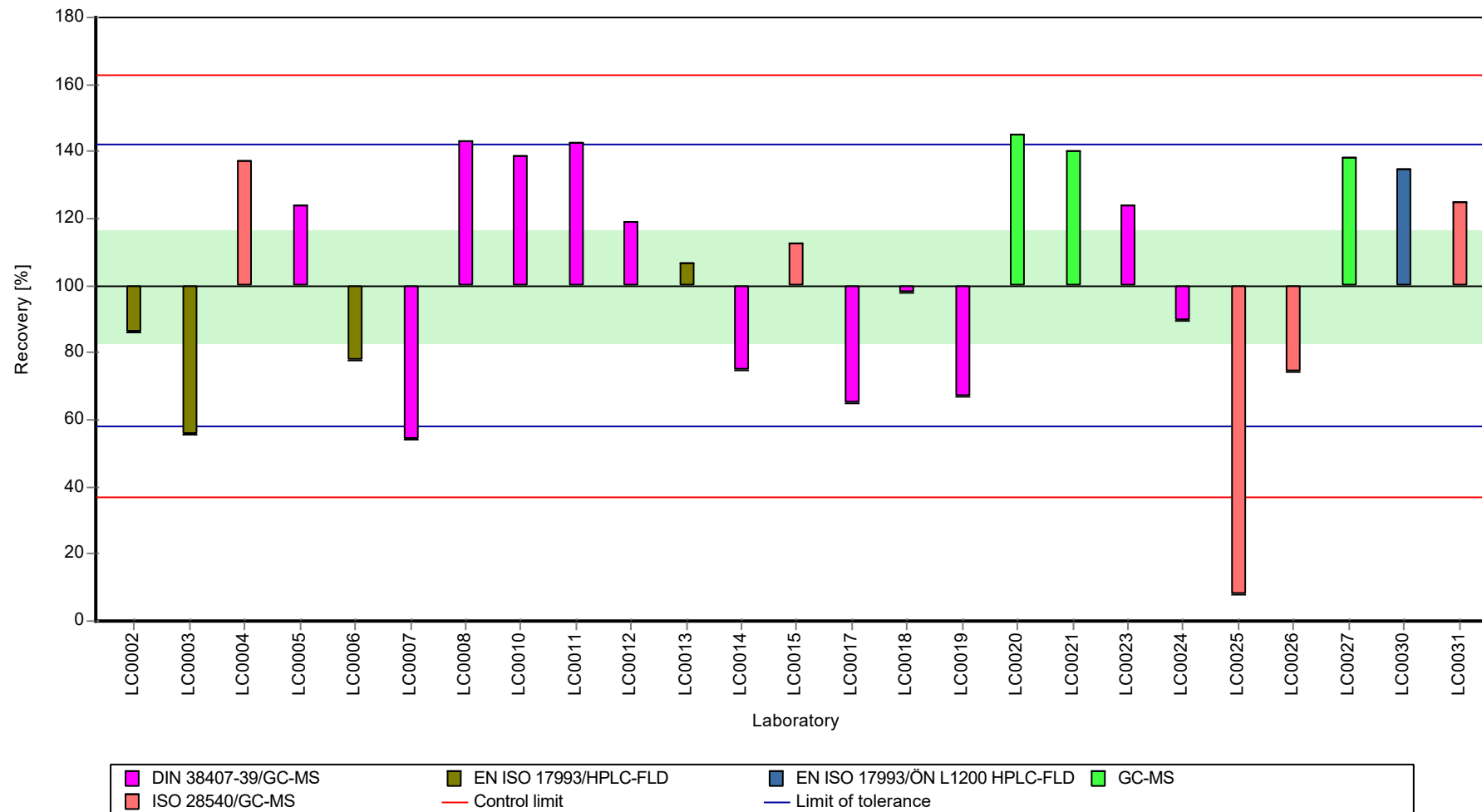
	all results	without outliers	Unit
Mean ± CI (99%)	173 ± 36.7	173 ± 36.7	ng/l
Minimum	13.3	13.3	ng/l
Maximum	243	243	ng/l
Standard deviation	61.1	61.1	ng/l
rel. standard deviation	35.3	35.3	%
n	25	25	-

Graphical presentation of results

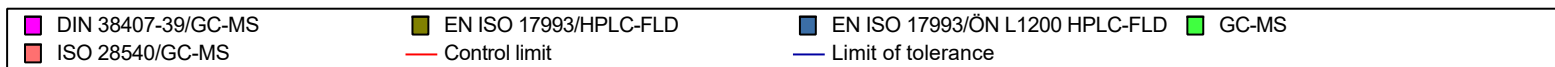
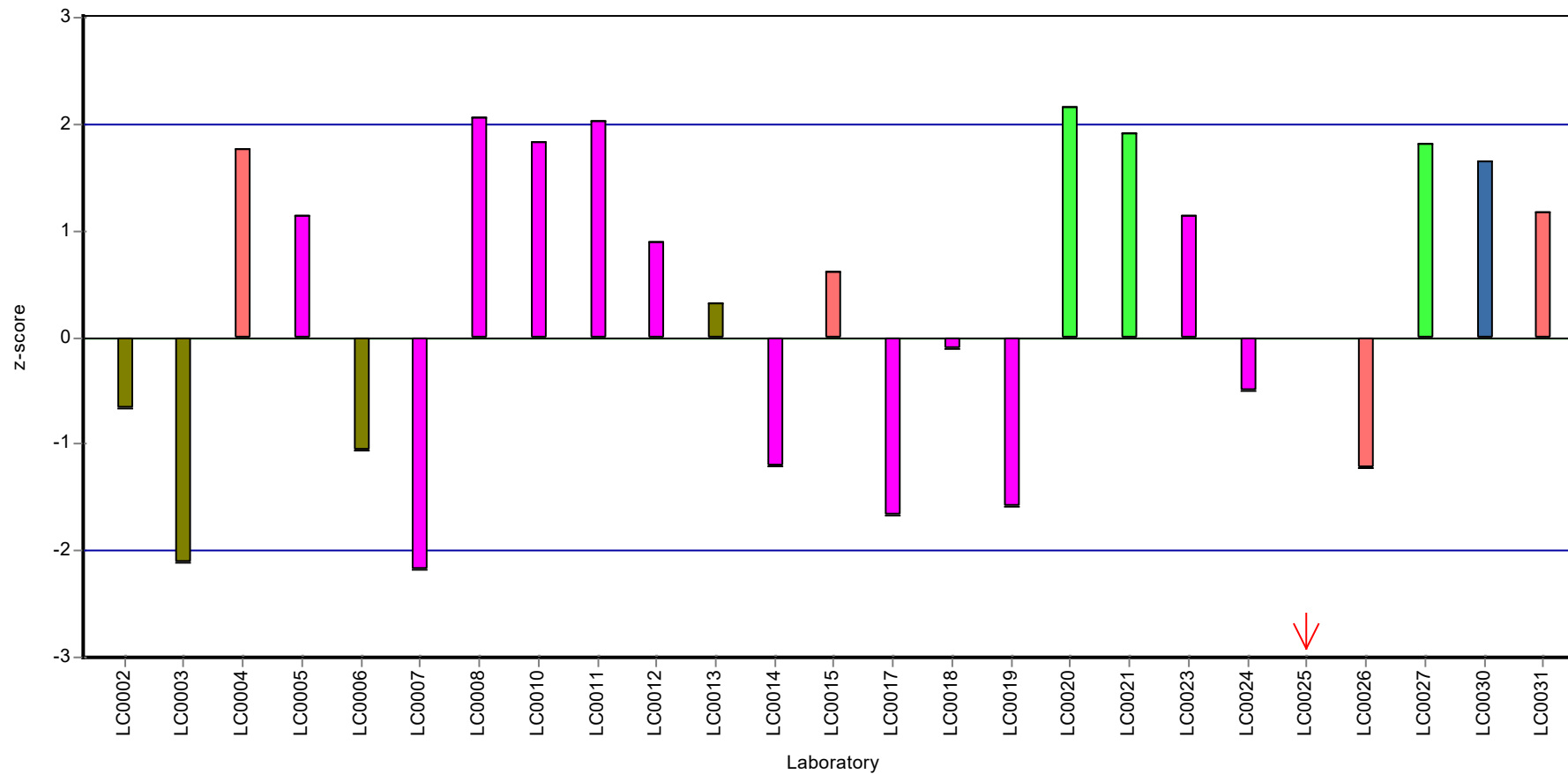
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 A

#### Phenanthrene

Unit	ng/l
Assigned value ± U (k=2)	14.7 ± 1.3
Criterion	2.2 (15 %)
Minimum - Maximum	10.5 - 19
Control test value ± U (k=2)	18 ± 4.67

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	< 24 (LOQ)	-	-	-	
LC0003	13.5	2.7	91.9	-0.54	
LC0004	15	3	102	0.14	
LC0005	18.8	4.9	128	1.87	
LC0006	11.5	1.1	78.3	-1.45	
LC0007	1.7	0.21	11.6	-5.89	H
LC0008	19	1.9	129	1.96	
LC0009	-	-	-	-	
LC0010	16.47	2.47	112	0.81	
LC0011	12.5	3.8	85.1	-0.99	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	14.4	2.43	98.1	-0.13	
LC0014	11.5	2.5	78.3	-1.45	
LC0015	16.2	0.071	110	0.69	
LC0016	-	-	-	-	
LC0017	12	2.4	81.7	-1.22	
LC0018	10.5	2.092	71.5	-1.9	
LC0019	13	1.6	88.5	-0.77	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	17.07	5.12	116	1.08	
LC0022	< 50 (LOQ)	-	-	-	
LC0023	13.9	0.5	94.7	-0.36	
LC0024	< 21 (LOQ)	-	-	-	
LC0025	0.281	0.01	1.9	-6.54	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	44.15	6.62	301	13.4	H
LC0028	17.6	4.4	120	1.32	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	16.7	2.1	114	0.92	

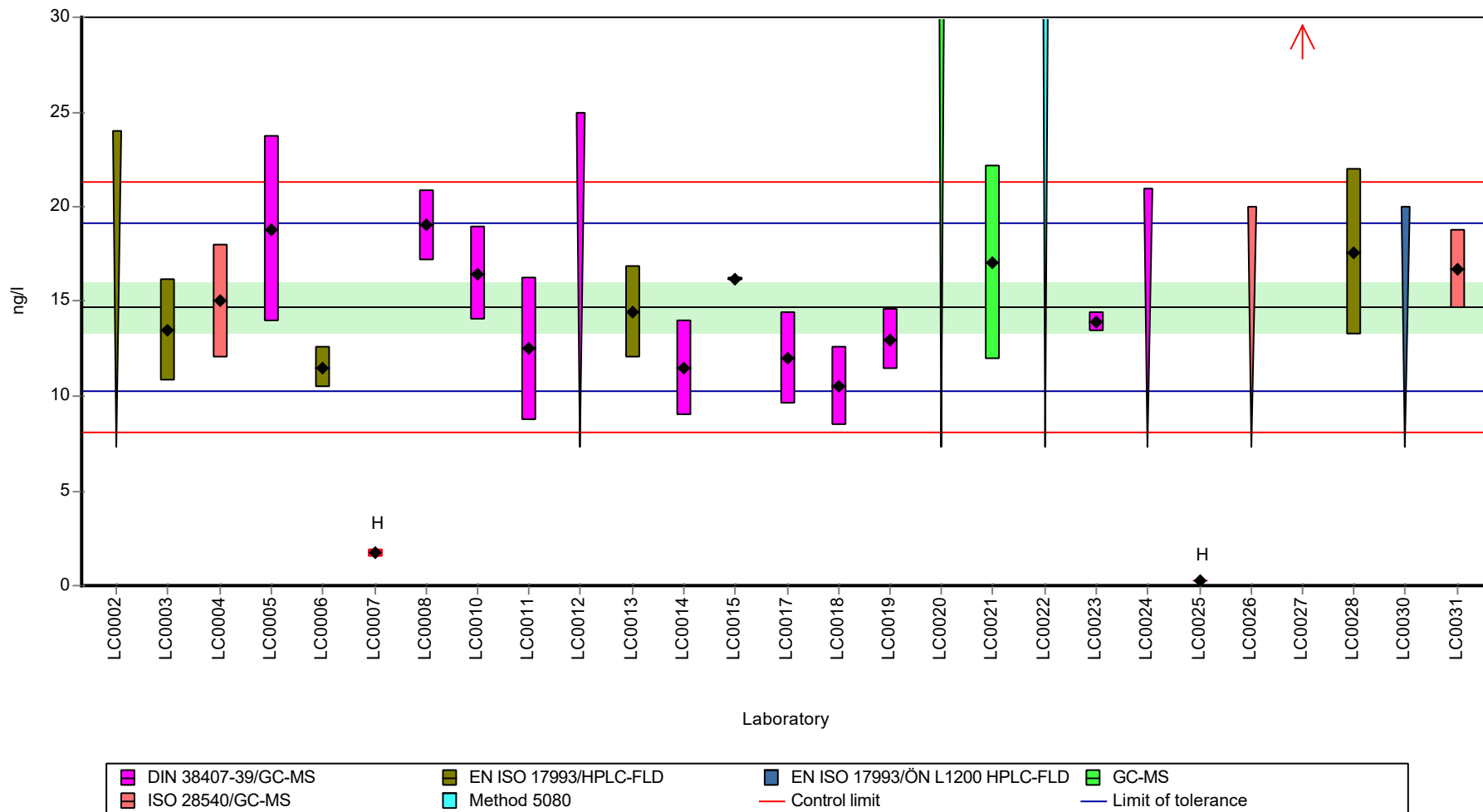
**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	14.8 ± 5.67	14.7 ± 1.94	ng/l
Minimum	0.281	10.5	ng/l
Maximum	44.2	19	ng/l
Standard deviation	8.45	2.67	ng/l
rel. standard deviation	57.2	18.2	%
n	20	17	-

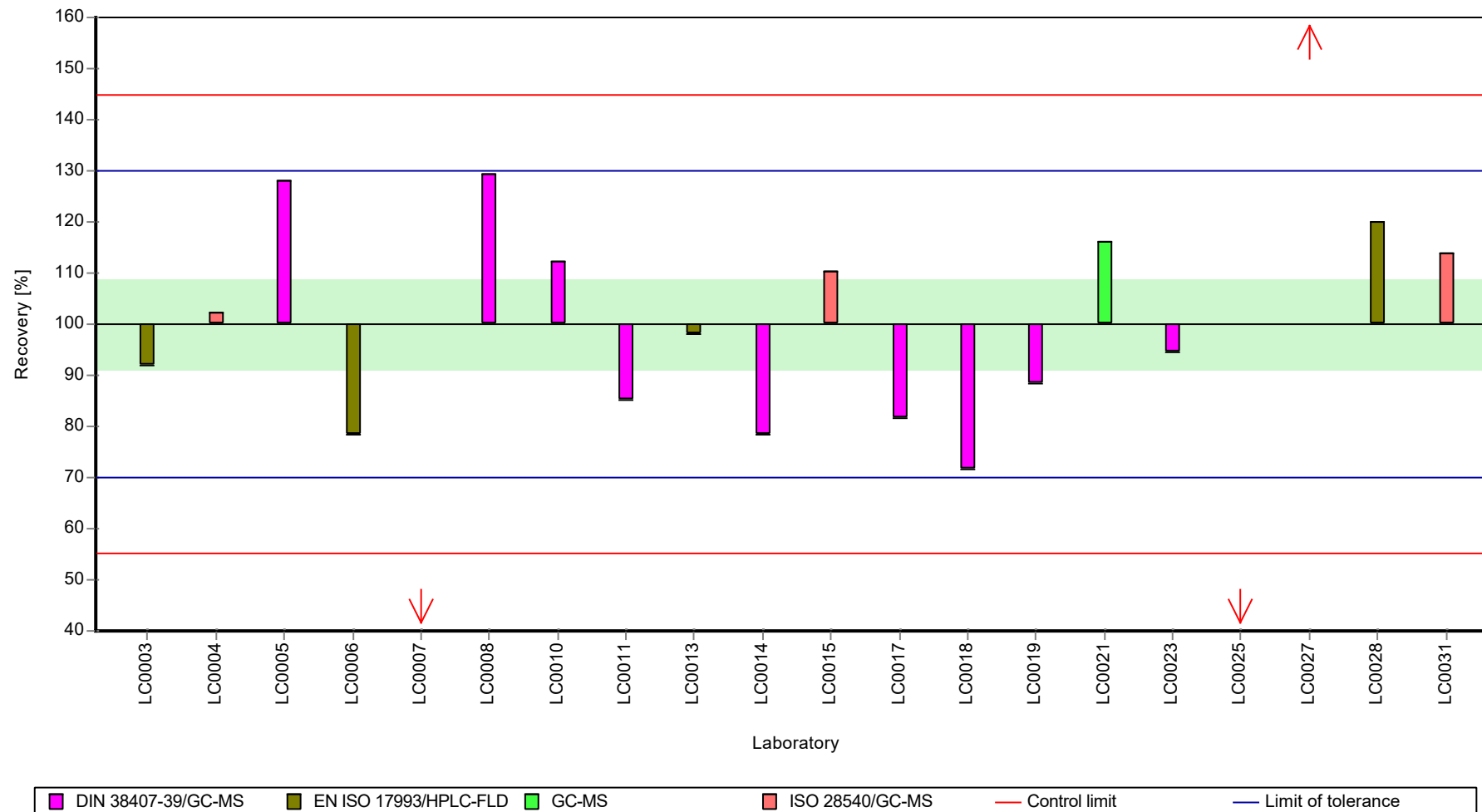


Graphical presentation of results

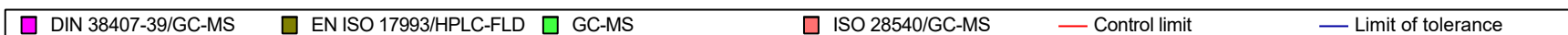
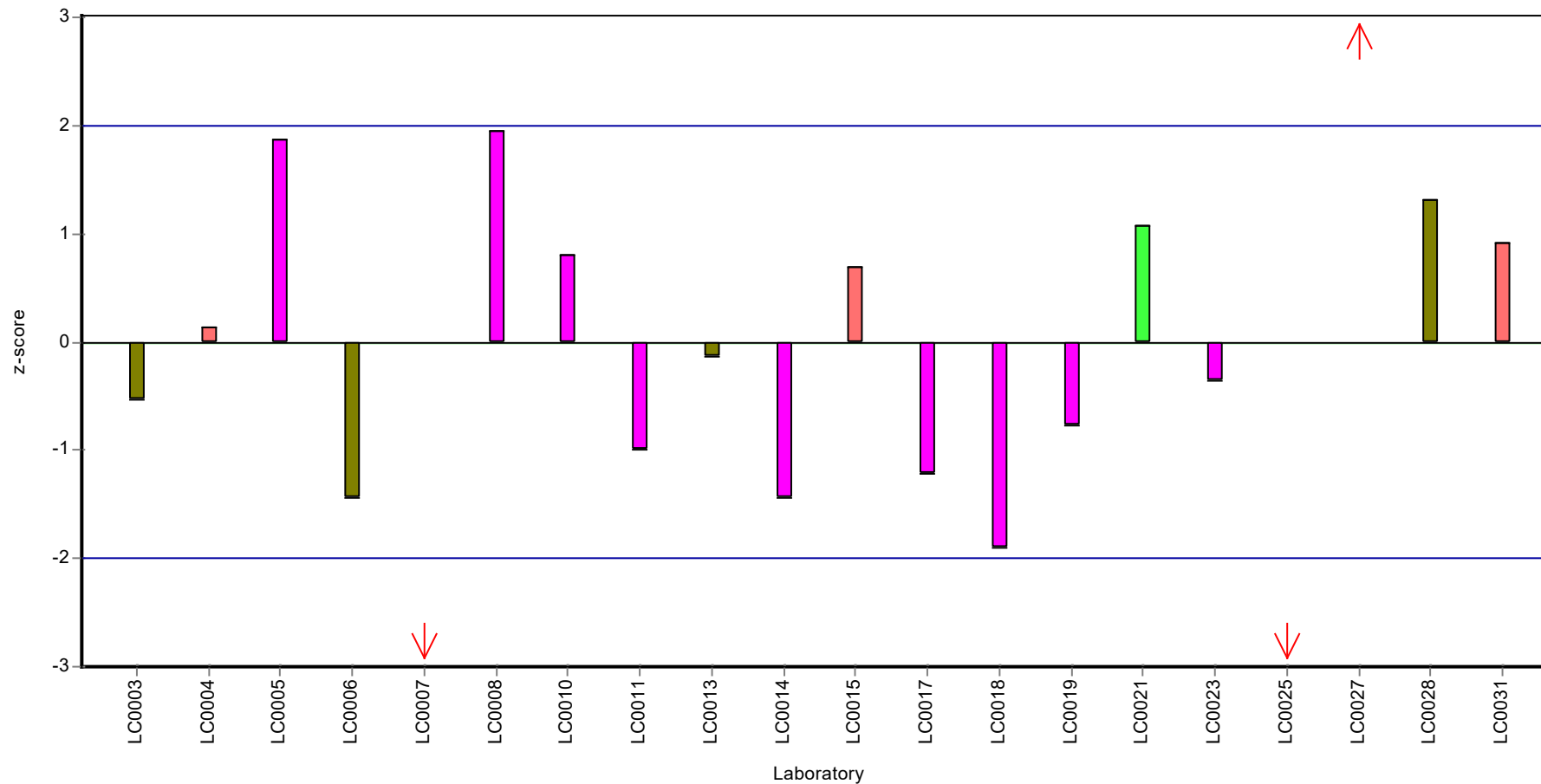
Results



Recovery rate



Z-score



## Parameter oriented report

### P21 B

#### Phenanthrene

Unit	ng/l
Assigned value ± U (k=2)	76.4 ± 14.3
Criterion	32.1 (42 %)
Minimum - Maximum	7.84 - 116
Control test value ± U (k=2)	112 ± 29.2

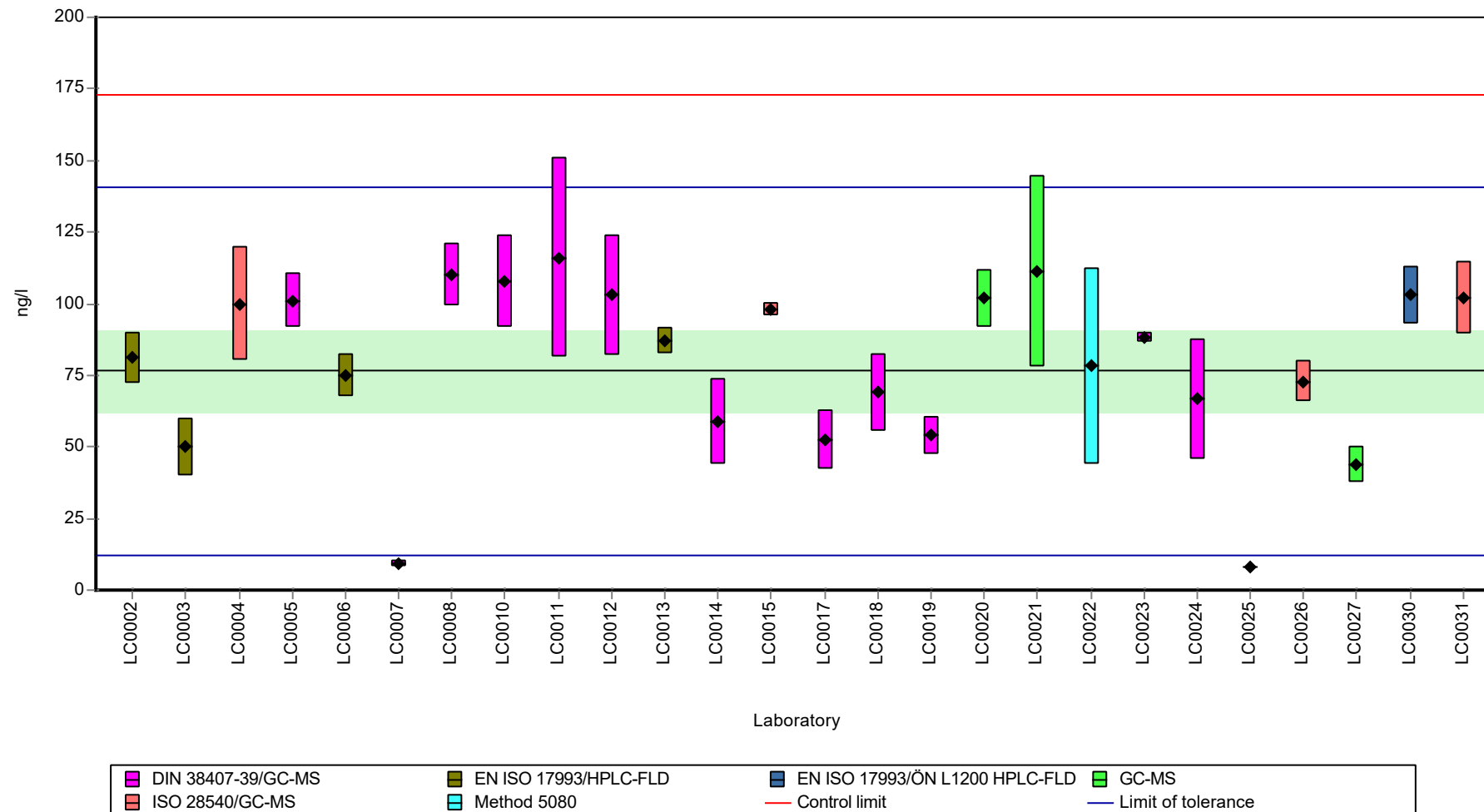
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	81	8.8	106	0.14	
LC0003	50	10	65.4	-0.82	
LC0004	100	20	131	0.73	
LC0005	101	9.4	132	0.77	
LC0006	75	7.5	98.1	-0.04	
LC0007	9.3	1.17	12.2	-2.09	
LC0008	110	11	144	1.05	
LC0009	-	-	-	-	
LC0010	107.71	16.16	141	0.97	
LC0011	116	35	152	1.23	
LC0012	103	21	135	0.83	
LC0013	86.8	4.64	114	0.32	
LC0014	58.8	15	76.9	-0.55	
LC0015	97.9	2.192	128	0.67	
LC0016	-	-	-	-	
LC0017	52.3	10.5	68.4	-0.75	
LC0018	68.9	13.787	90.1	-0.23	
LC0019	54	6.5	70.6	-0.7	
LC0020	101.9	10	133	0.79	
LC0021	111.32	33.4	146	1.09	
LC0022	78.2	34.4	102	0.05	
LC0023	88.2	1.57	115	0.37	
LC0024	66.7	21	87.3	-0.3	
LC0025	7.84	0.01	10.3	-2.14	
LC0026	72.8	7.3	95.2	-0.11	
LC0027	43.8	6.57	57.3	-1.02	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	103	10	135	0.83	
LC0031	102	12.85	133	0.8	

**Characteristics of parameter**

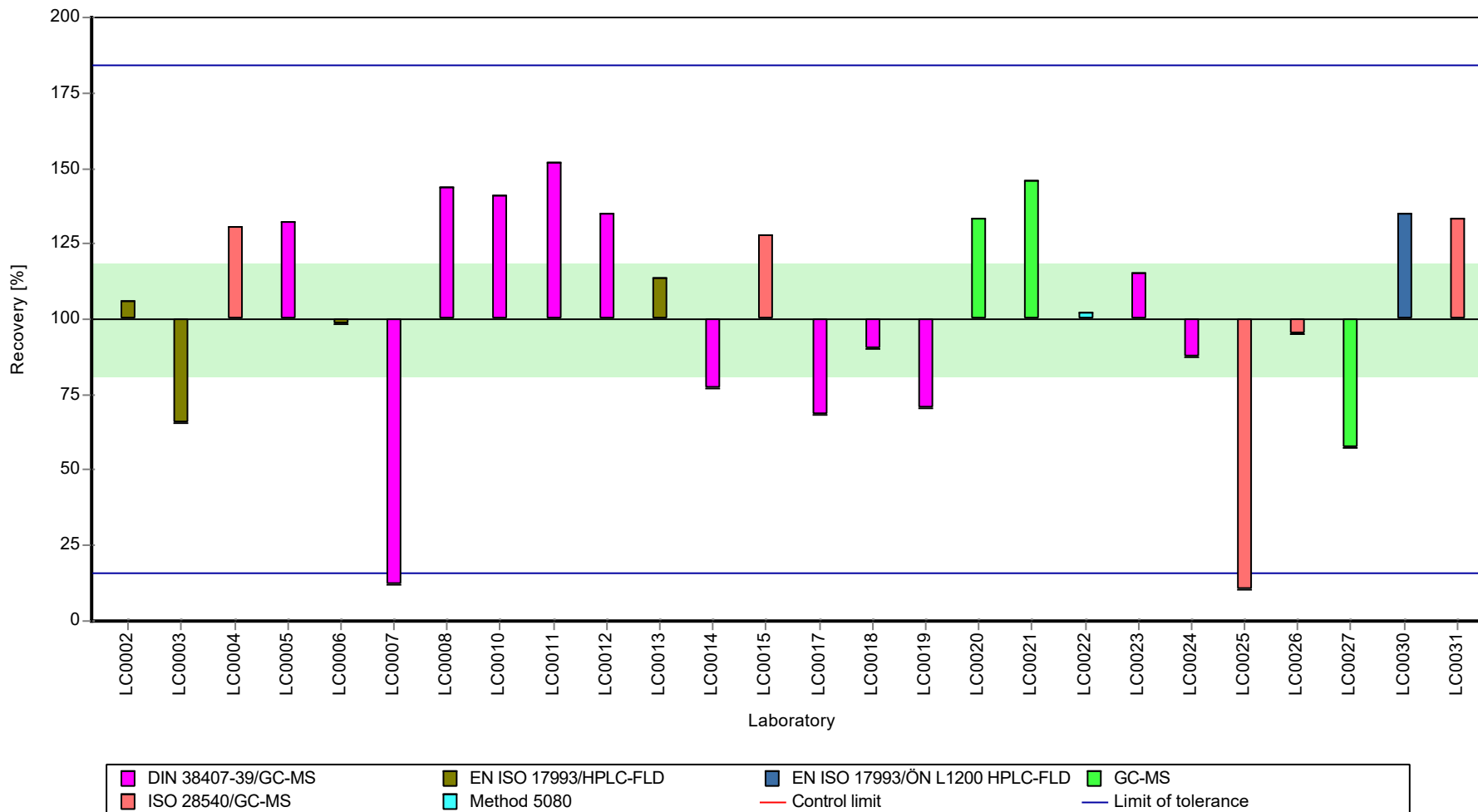
	all results	without outliers	Unit
Mean ± CI (99%)	78.7 ± 17.4	78.7 ± 17.4	ng/l
Minimum	7.84	7.84	ng/l
Maximum	116	116	ng/l
Standard deviation	29.6	29.6	ng/l
rel. standard deviation	37.6	37.6	%
n	26	26	-

Graphical presentation of results

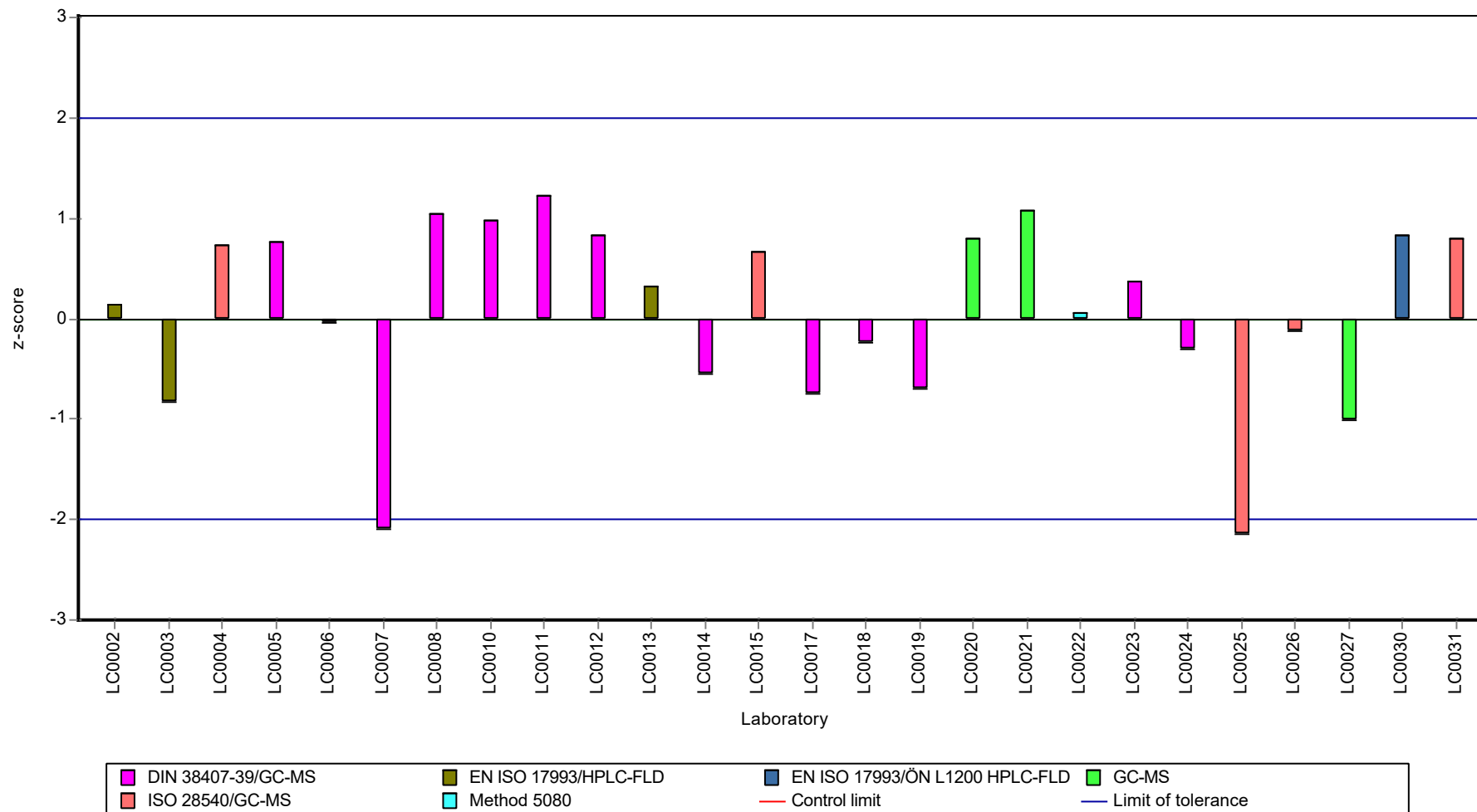
Results



Recovery rate



Z-score





## Parameter oriented report

### P21 A

#### Pyrene

Unit	ng/l
Assigned value ± U (k=2)	10.9 ± 1.15
Criterion	1.75 (16 %)
Minimum - Maximum	6.3 - 15.6
Control test value ± U (k=2)	13.4 ± 2.68

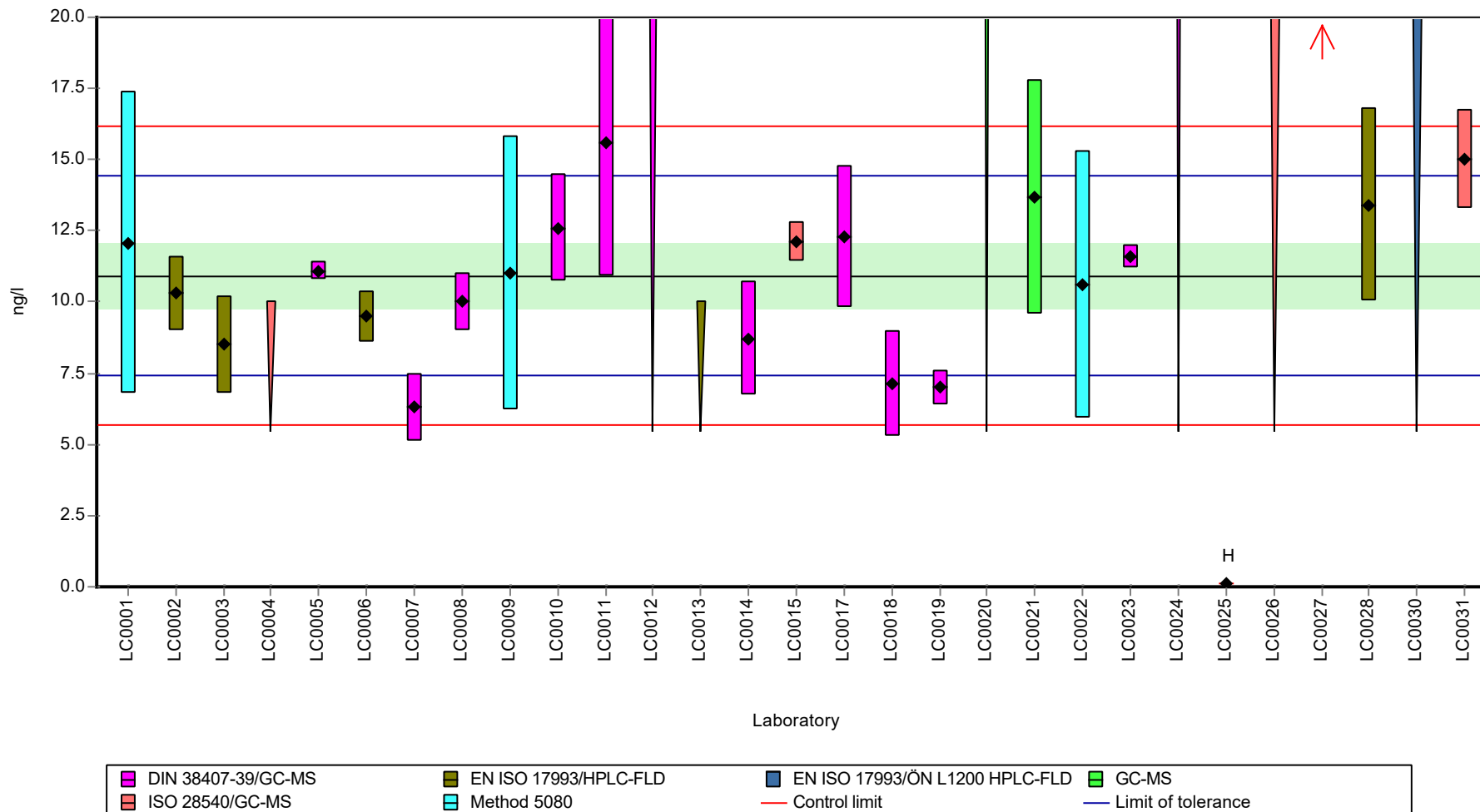
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	12.08	5.32	111	0.66	
LC0002	10.3	1.3	94.3	-0.36	
LC0003	8.5	1.7	77.8	-1.39	
LC0004	< 10 (LOQ)	-	-	-	
LC0005	11.1	0.3	102	0.1	
LC0006	9.5	0.9	86.9	-0.82	
LC0007	6.3	1.18	57.7	-2.65	
LC0008	10	1	91.5	-0.53	
LC0009	11	4.8	101	0.04	
LC0010	12.59	1.889	115	0.95	
LC0011	15.6	4.7	143	2.67	
LC0012	< 25 (LOQ)	-	-	-	
LC0013	< 10 (LOQ)	-	-	-	
LC0014	8.71	2	79.7	-1.27	
LC0015	12.1	0.7	111	0.67	
LC0016	-	-	-	-	
LC0017	12.3	2.5	113	0.79	
LC0018	7.15	1.858	65.4	-2.16	
LC0019	7	0.62	64.1	-2.25	
LC0020	< 50 (LOQ)	-	-	-	
LC0021	13.69	4.11	125	1.58	
LC0022	10.6	4.7	97	-0.19	
LC0023	11.6	0.4	106	0.39	
LC0024	< 50 (LOQ)	-	-	-	
LC0025	0.14	0.01	1.3	-6.17	H
LC0026	< 20 (LOQ)	-	-	-	
LC0027	22.87	2.79	209	6.83	H
LC0028	13.4	3.4	123	1.42	
LC0029	-	-	-	-	
LC0030	< 20 (LOQ)	-	-	-	
LC0031	15	1.74	137	2.33	

**Characteristics of parameter**

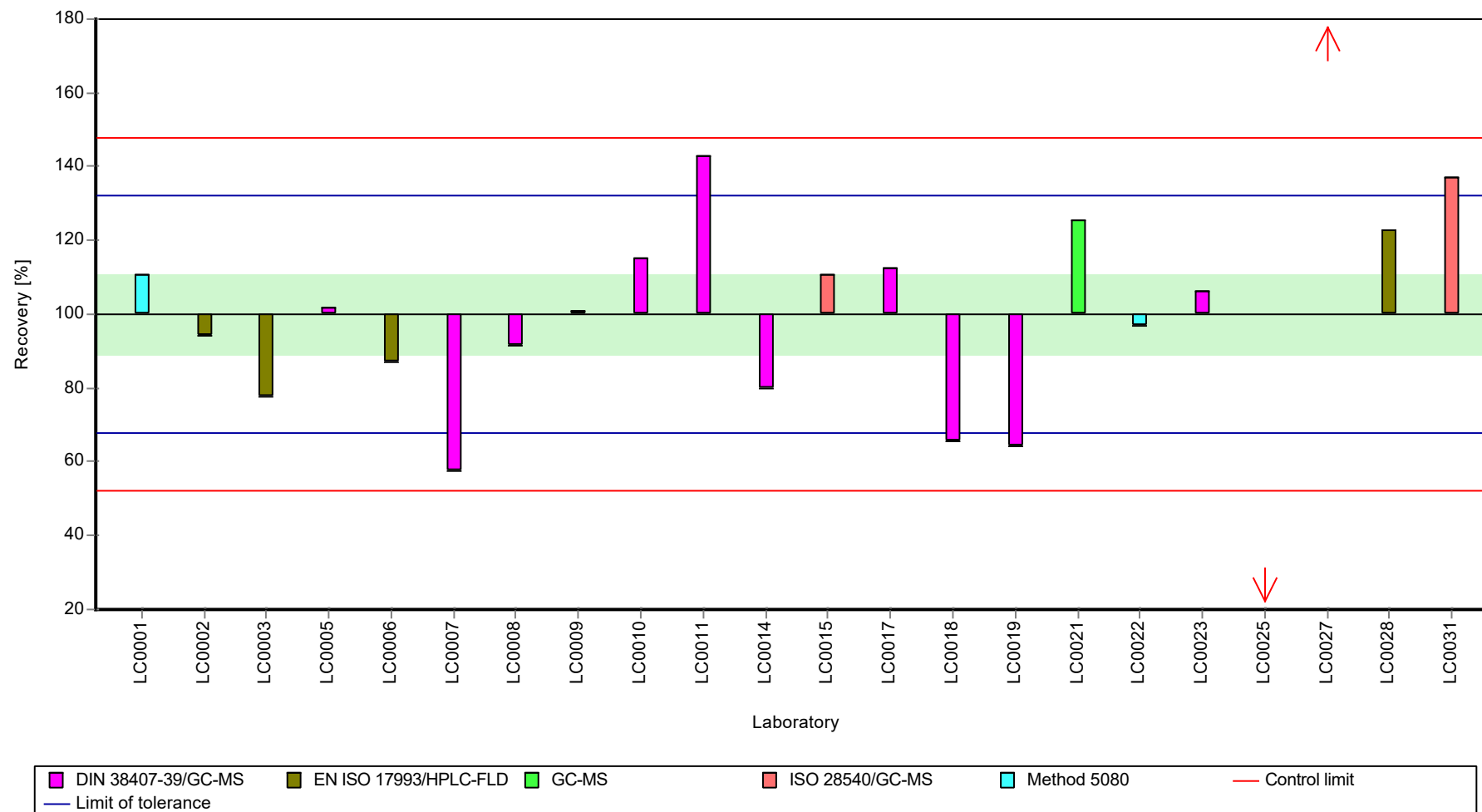
	all results	without outliers	Unit
Mean ± CI (99%)	11 ± 2.74	10.9 ± 1.72	ng/l
Minimum	0.14	6.3	ng/l
Maximum	22.9	15.6	ng/l
Standard deviation	4.28	2.57	ng/l
rel. standard deviation	39	23.5	%
n	22	20	-

Graphical presentation of results

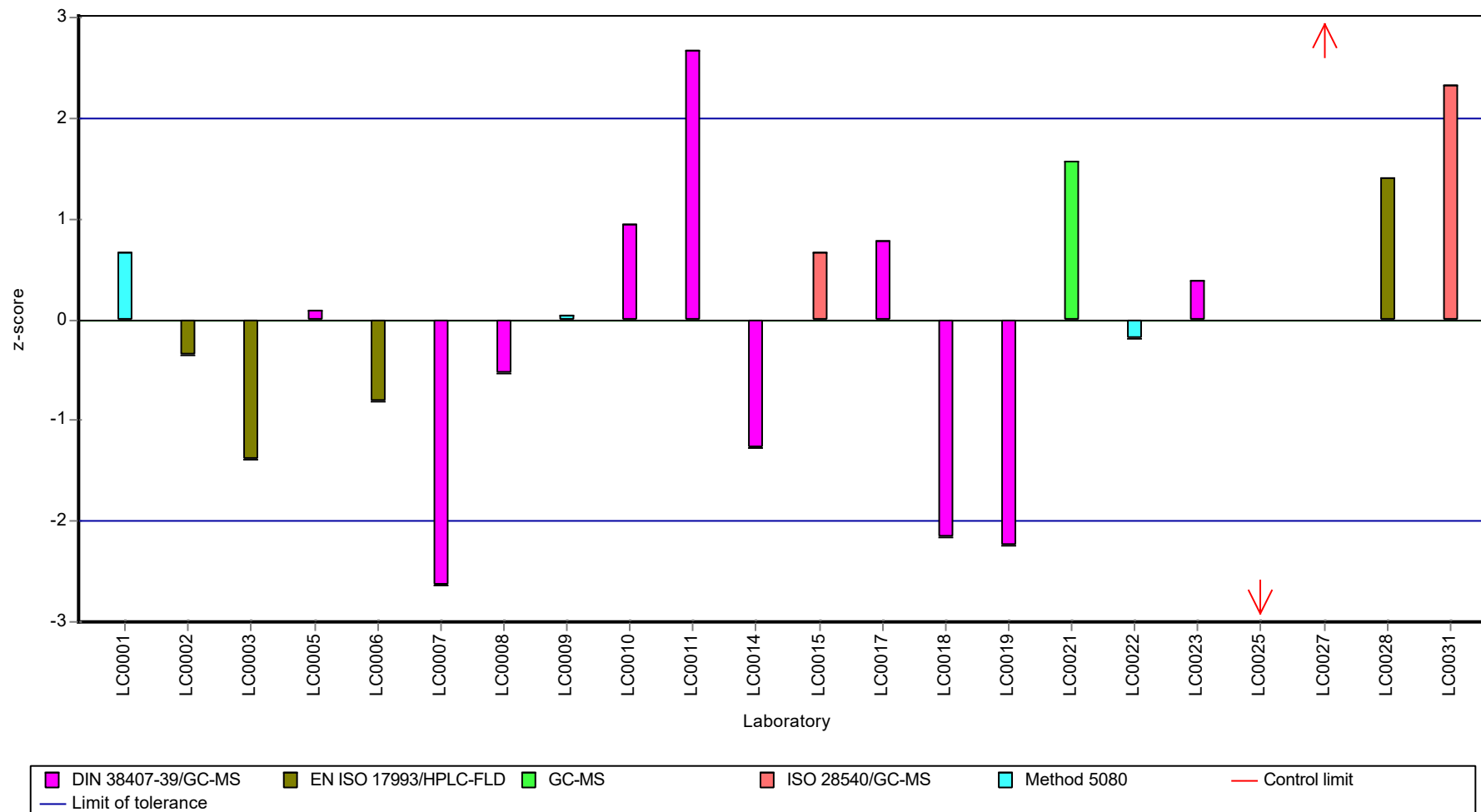
Results



Recovery rate



**Z-score**



## Parameter oriented report

### P21 B

#### Pyrene

Unit	ng/l
Assigned value ± U (k=2)	79.4 ± 8.28
Criterion	12.7 (16 %)
Minimum - Maximum	38.1 - 107
Control test value ± U (k=2)	106 ± 21.3

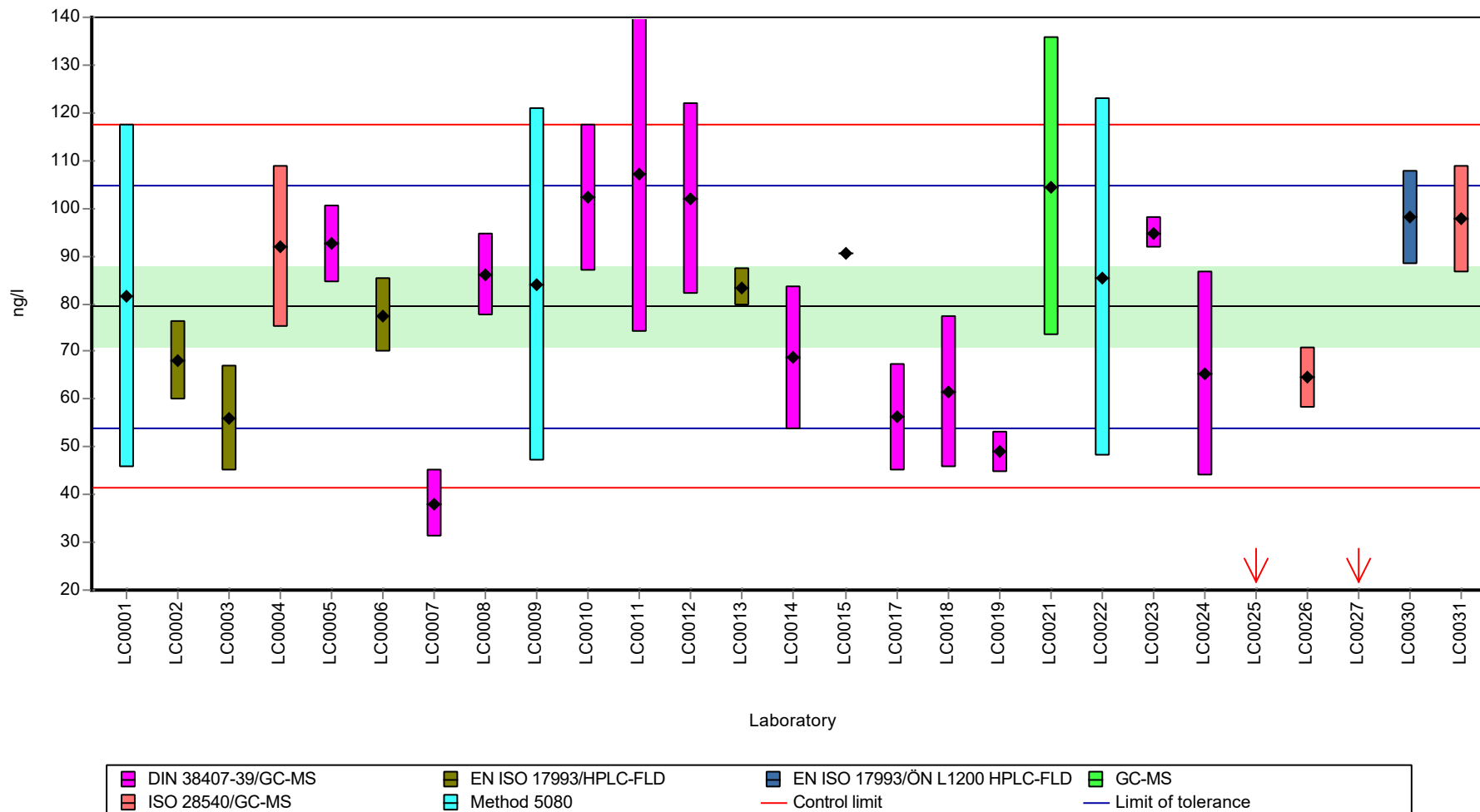
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	81.53	35.9	103	0.17	
LC0002	68.1	8.4	85.7	-0.89	
LC0003	56	11.2	70.5	-1.84	
LC0004	92	17	116	0.99	
LC0005	92.5	8.2	116	1.03	
LC0006	77.5	7.8	97.6	-0.15	
LC0007	38.1	7.15	48	-3.25	
LC0008	86	8.6	108	0.52	
LC0009	84	37	106	0.36	
LC0010	102.23	15.34	129	1.8	
LC0011	107	33	135	2.17	
LC0012	102	20	128	1.78	
LC0013	83.4	3.93	105	0.31	
LC0014	68.7	15	86.5	-0.84	
LC0015	90.5	0.071	114	0.87	
LC0016	-	-	-	-	
LC0017	56.2	11.2	70.8	-1.83	
LC0018	61.5	15.985	77.4	-1.41	
LC0019	49	4.3	61.7	-2.39	
LC0020	-	-	-	-	
LC0021	104.47	31.34	132	1.97	
LC0022	85.5	37.6	108	0.48	
LC0023	94.8	3.29	119	1.21	
LC0024	65.3	21.5	82.2	-1.11	
LC0025	1.733	0.01	2.2	-6.11	H
LC0026	64.5	6.4	81.2	-1.17	
LC0027	3.6	0.44	4.5	-5.97	H
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	98.1	9.8	124	1.47	
LC0031	97.7	11.33	123	1.44	

**Characteristics of parameter**

	all results	without outliers	Unit
Mean ± CI (99%)	74.5 ± 15.9	80.3 ± 11.4	ng/l
Minimum	1.73	38.1	ng/l
Maximum	107	107	ng/l
Standard deviation	27.6	18.9	ng/l
rel. standard deviation	37	23.6	%
n	27	25	-

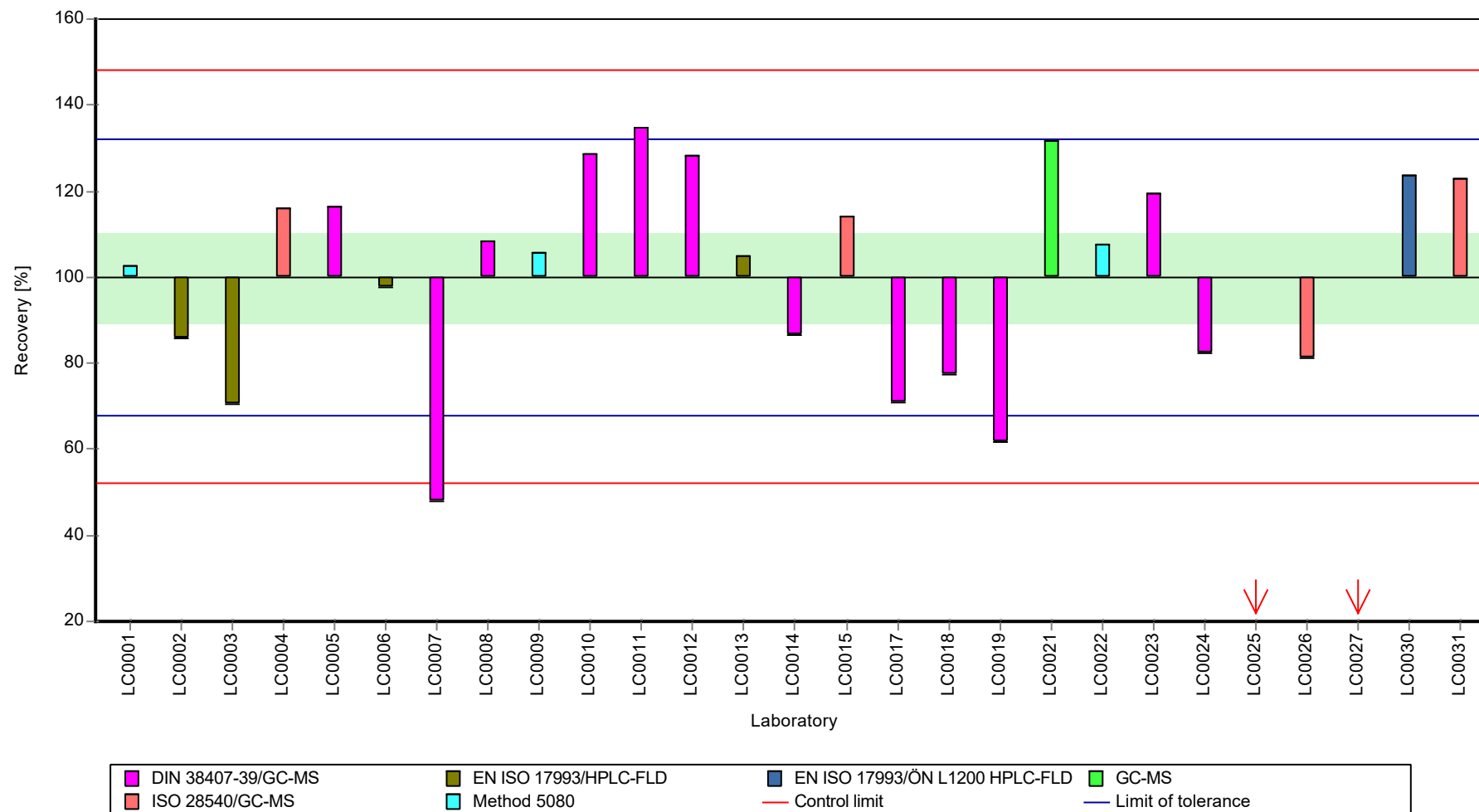
Graphical presentation of results

Results

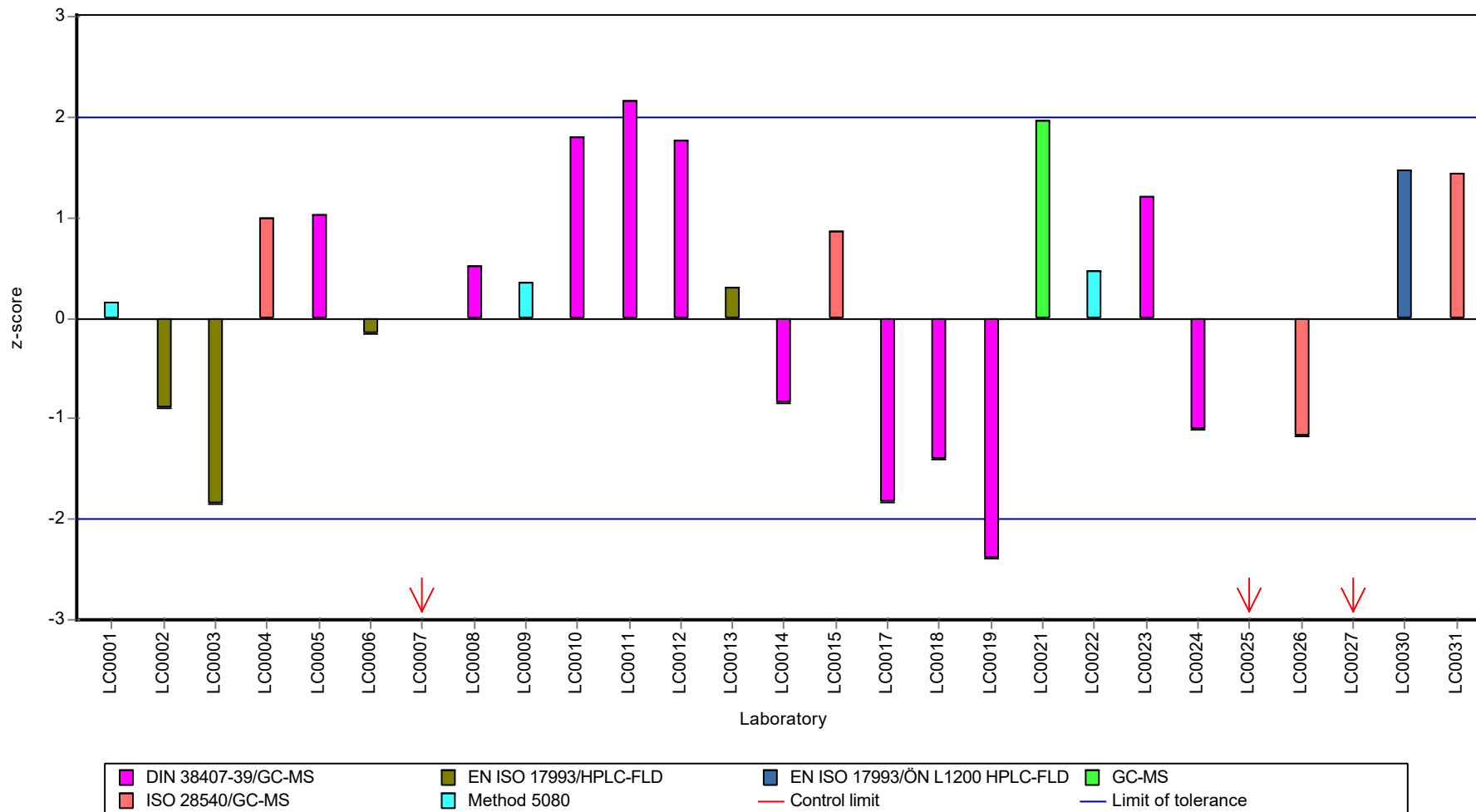




Recovery rate



Z-score



## **E8. Laboratory oriented report**

The laboratory oriented report is sorted by laboratory code.

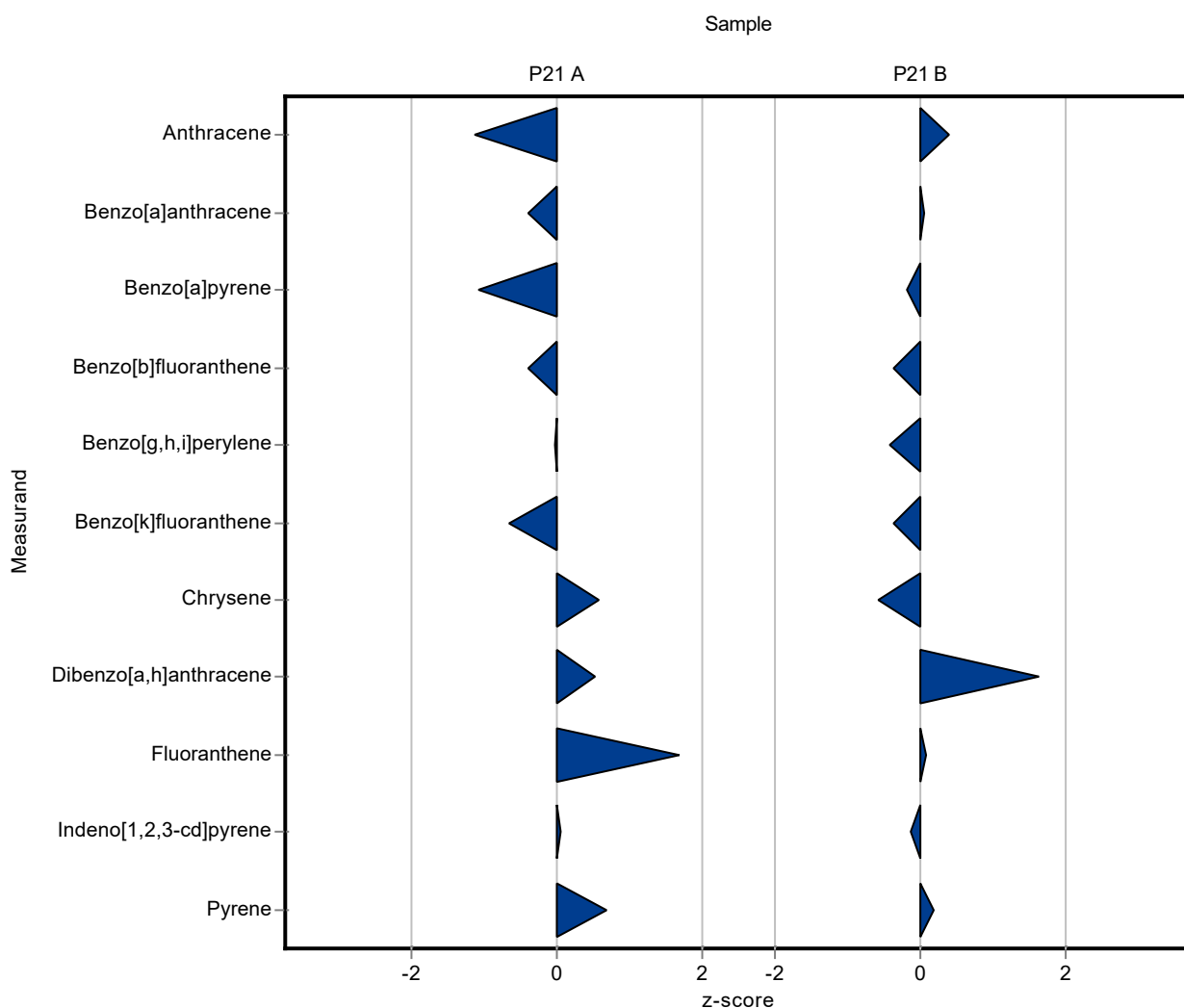
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	9.78 ± 4.3	2.89	74.6	-1.16
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13.2 ± 5.81	3.02	91.7	-0.40
Benzo[a]pyrene	ng/l	11.1 ± 1.88	8.2 ± 3.61	2.66	74	-1.08
Benzo[b]fluoranthene	ng/l	21 ± 1.85	19.63 ± 8.64	3.58	93.3	-0.40
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	13.26 ± 5.83	4.3	98.8	-0.04
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.02 ± 4.41	3.16	82.4	-0.68
Chrysene	ng/l	20.1 ± 2.16	23.02 ± 10.13	5.22	115	0.56
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.69 ± 6.02	3.55	116	0.53
Fluoranthene	ng/l	12.5 ± 0.92	16.32 ± 7.18	2.26	130	1.67
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.55 ± 4.2	2.65	101	0.03
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	12.08 ± 5.32	1.75	111	0.66

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	158.64 ± 69.8	57.6	116	0.37
Benzo[a]anthracene	ng/l	161 ± 18	161.98 ± 71.3	33.8	101	0.03
Benzo[a]pyrene	ng/l	152 ± 15	144.9 ± 63.78	36.5	95.4	-0.19
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	63.3 ± 27.8	11.5	93.6	-0.38
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	48.45 ± 21.32	18	86.2	-0.43
Benzo[k]fluoranthene	ng/l	116 ± 8.71	104.2 ± 45.9	30.2	89.8	-0.39
Chrysene	ng/l	56.3 ± 5.69	47.72 ± 21	14.7	84.7	-0.59
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	127.05 ± 55.9	25.7	148	1.61

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	73.55 ± 32.4	23.1	102	0.06
Fluorene	ng/l	186 ± 24.1	- ± -	26	-	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	107 ± 47.4	35.9	95.4	-0.14
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-	-
Pyrene	ng/l	79.4 ± 8.28	81.53 ± 35.9	12.7	103	0.17



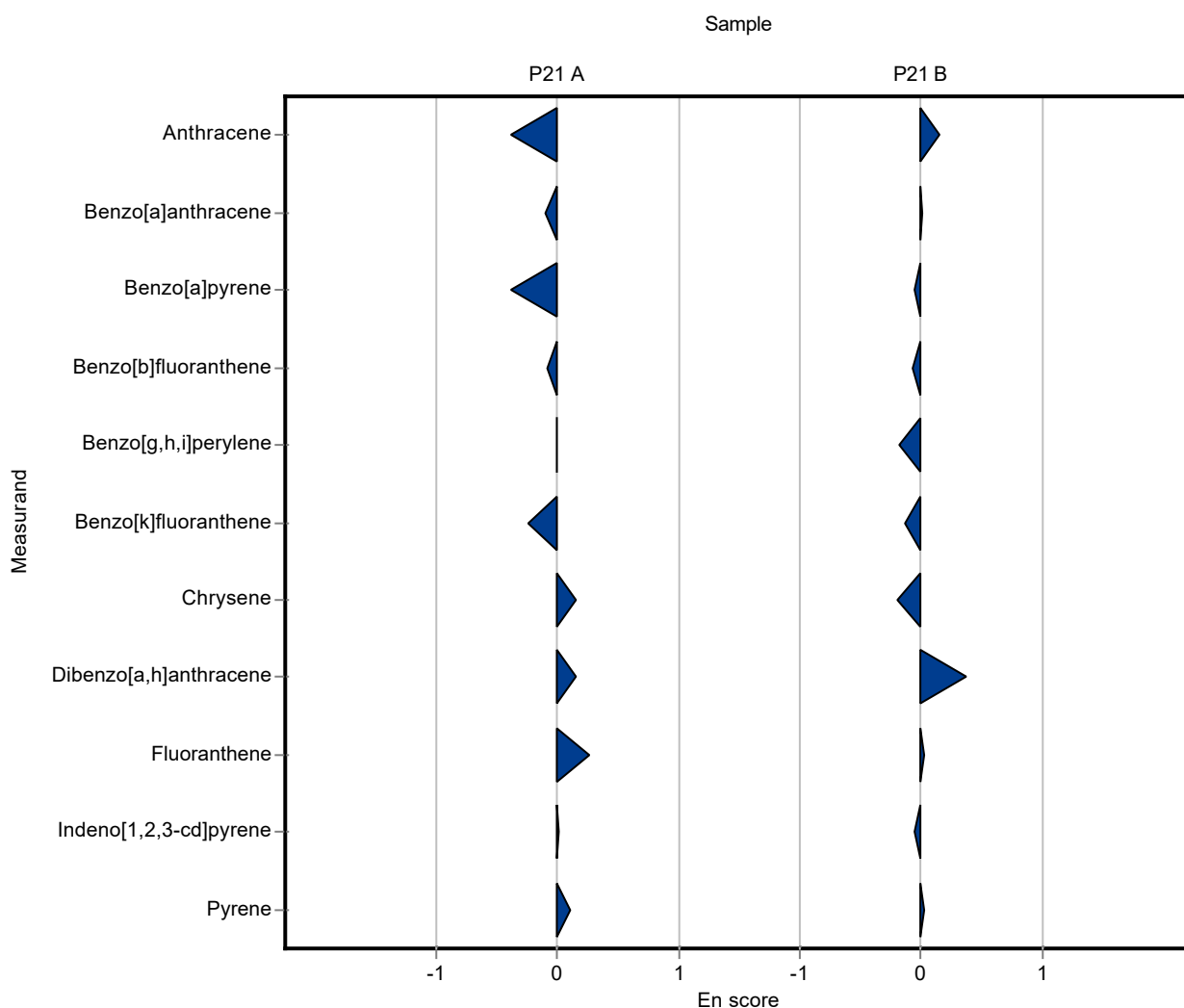
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	9.78 ± 4.3	2.89	74.6	-0.38
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13.2 ± 5.81	3.02	91.7	-0.10
Benzo[a]pyrene	ng/l	11.1 ± 1.88	8.2 ± 3.61	2.66	74	-0.39
Benzo[b]fluoranthene	ng/l	21 ± 1.85	19.63 ± 8.64	3.58	93.3	-0.08
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	13.26 ± 5.83	4.3	98.8	-0.01
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.02 ± 4.41	3.16	82.4	-0.24
Chrysene	ng/l	20.1 ± 2.16	23.02 ± 10.13	5.22	115	0.14
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.69 ± 6.02	3.55	116	0.15
Fluoranthene	ng/l	12.5 ± 0.92	16.32 ± 7.18	2.26	130	0.26
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.55 ± 4.2	2.65	101	0.01
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	12.08 ± 5.32	1.75	111	0.11

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	158.64 ± 69.8	57.6	116	0.15
Benzo[a]anthracene	ng/l	161 ± 18	161.98 ± 71.3	33.8	101	0.01
Benzo[a]pyrene	ng/l	152 ± 15	144.9 ± 63.78	36.5	95.4	-0.05
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	63.3 ± 27.8	11.5	93.6	-0.08
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	48.45 ± 21.32	18	86.2	-0.18
Benzo[k]fluoranthene	ng/l	116 ± 8.71	104.2 ± 45.9	30.2	89.8	-0.13
Chrysene	ng/l	56.3 ± 5.69	47.72 ± 21	14.7	84.7	-0.20
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	127.05 ± 55.9	25.7	148	0.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	73.55 ± 32.4	23.1	102
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	107 ± 47.4	35.9	95.4
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	81.53 ± 35.9	12.7	103



Sample: P21A

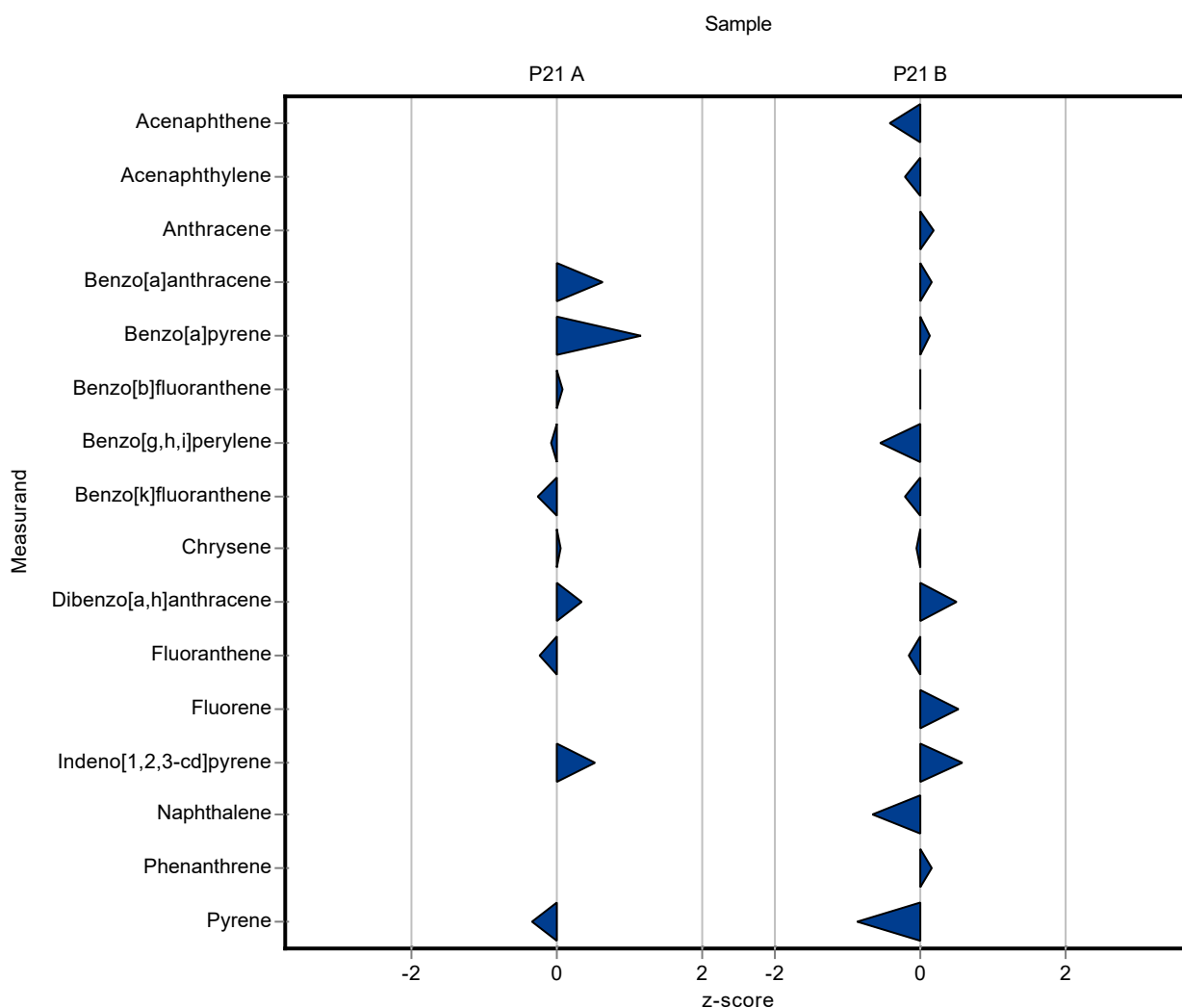
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<29 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<40 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.3 ± 1.8	3.02	113	0.63
Benzo[a]pyrene	ng/l	11.1 ± 1.88	14.1 ± 1.1	2.66	127	1.14
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.3 ± 1.8	3.58	101	0.07
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	13 ± 1.8	4.3	96.9	-0.10
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11.3 ± 1	3.16	93	-0.27
Chrysene	ng/l	20.1 ± 2.16	20.3 ± 2	5.22	101	0.04
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13 ± 1.1	3.55	110	0.33
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.4	2.26	95.7	-0.24
Fluorene	ng/l	13 ± 0.921	<22 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.8 ± 1.2	2.65	114	0.50
Naphthalene	ng/l	28.5 ± 2.52	<29 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<24 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	10.3 ± 1.3	1.75	94.3	-0.36

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	149.3 ± 37.9	30.9	91.8	-0.43
Acenaphthylene	ng/l	81.6 ± 12.2	75.2 ± 17.2	30.2	92.1	-0.21
Anthracene	ng/l	137 ± 23.8	147 ± 14.6	57.6	107	0.17
Benzo[a]anthracene	ng/l	161 ± 18	166.2 ± 18.6	33.8	103	0.15
Benzo[a]pyrene	ng/l	152 ± 15	156 ± 11.9	36.5	103	0.11
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	67.5 ± 5.7	11.5	99.8	-0.01
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.2 ± 6.3	18	82.2	-0.56
Benzo[k]fluoranthene	ng/l	116 ± 8.71	109.7 ± 10	30.2	94.5	-0.21
Chrysene	ng/l	56.3 ± 5.69	55.5 ± 5.6	14.7	98.5	-0.06
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	98.2 ± 8.3	25.7	115	0.49



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	68.3 ± 7.7	23.1	94.7	-0.17
Fluorene	ng/l	186 ± 24.1	199 ± 36.4	26	107	0.51
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	132.6 ± 14.3	35.9	118	0.57
Naphthalene	ng/l	168 ± 28.1	144 ± 29.8	35.2	86	-0.67
Phenanthrene	ng/l	76.4 ± 14.3	81 ± 8.8	32.1	106	0.14
Pyrene	ng/l	79.4 ± 8.28	68.1 ± 8.4	12.7	85.7	-0.89



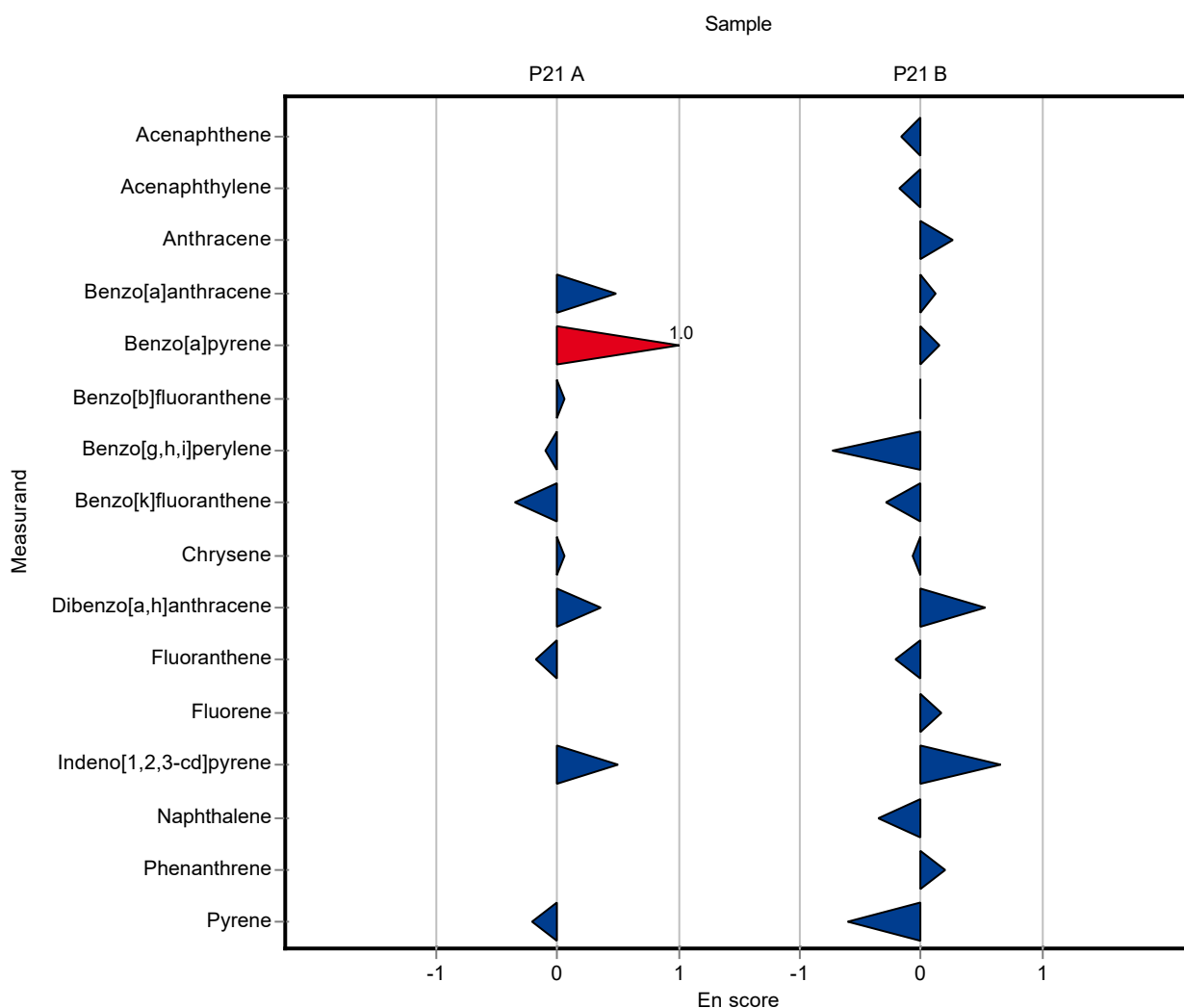
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<29 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<40 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.3 ± 1.8	3.02	113	0.48
Benzo[a]pyrene	ng/l	11.1 ± 1.88	14.1 ± 1.1	2.66	127	1.04
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.3 ± 1.8	3.58	101	0.06
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	13 ± 1.8	4.3	96.9	-0.11
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11.3 ± 1	3.16	93	-0.35
Chrysene	ng/l	20.1 ± 2.16	20.3 ± 2	5.22	101	0.05
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13 ± 1.1	3.55	110	0.35
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.4	2.26	95.7	-0.18
Fluorene	ng/l	13 ± 0.921	<22 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.8 ± 1.2	2.65	114	0.49
Naphthalene	ng/l	28.5 ± 2.52	<29 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<24 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	10.3 ± 1.3	1.75	94.3	-0.22

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	149.3 ± 37.9	30.9	91.8	-0.17
Acenaphthylene	ng/l	81.6 ± 12.2	75.2 ± 17.2	30.2	92.1	-0.18
Anthracene	ng/l	137 ± 23.8	147 ± 14.6	57.6	107	0.26
Benzo[a]anthracene	ng/l	161 ± 18	166.2 ± 18.6	33.8	103	0.13
Benzo[a]pyrene	ng/l	152 ± 15	156 ± 11.9	36.5	103	0.14
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	67.5 ± 5.7	11.5	99.8	-0.01
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.2 ± 6.3	18	82.2	-0.73
Benzo[k]fluoranthene	ng/l	116 ± 8.71	109.7 ± 10	30.2	94.5	-0.29
Chrysene	ng/l	56.3 ± 5.69	55.5 ± 5.6	14.7	98.5	-0.07
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	98.2 ± 8.3	25.7	115	0.54

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	68.3 ± 7.7	23.1	94.7	-0.21
Fluorene	ng/l	186 ± 24.1	199 ± 36.4	26	107	0.17
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	132.6 ± 14.3	35.9	118	0.65
Naphthalene	ng/l	168 ± 28.1	144 ± 29.8	35.2	86	-0.36
Phenanthrene	ng/l	76.4 ± 14.3	81 ± 8.8	32.1	106	0.20
Pyrene	ng/l	79.4 ± 8.28	68.1 ± 8.4	12.7	85.7	-0.60



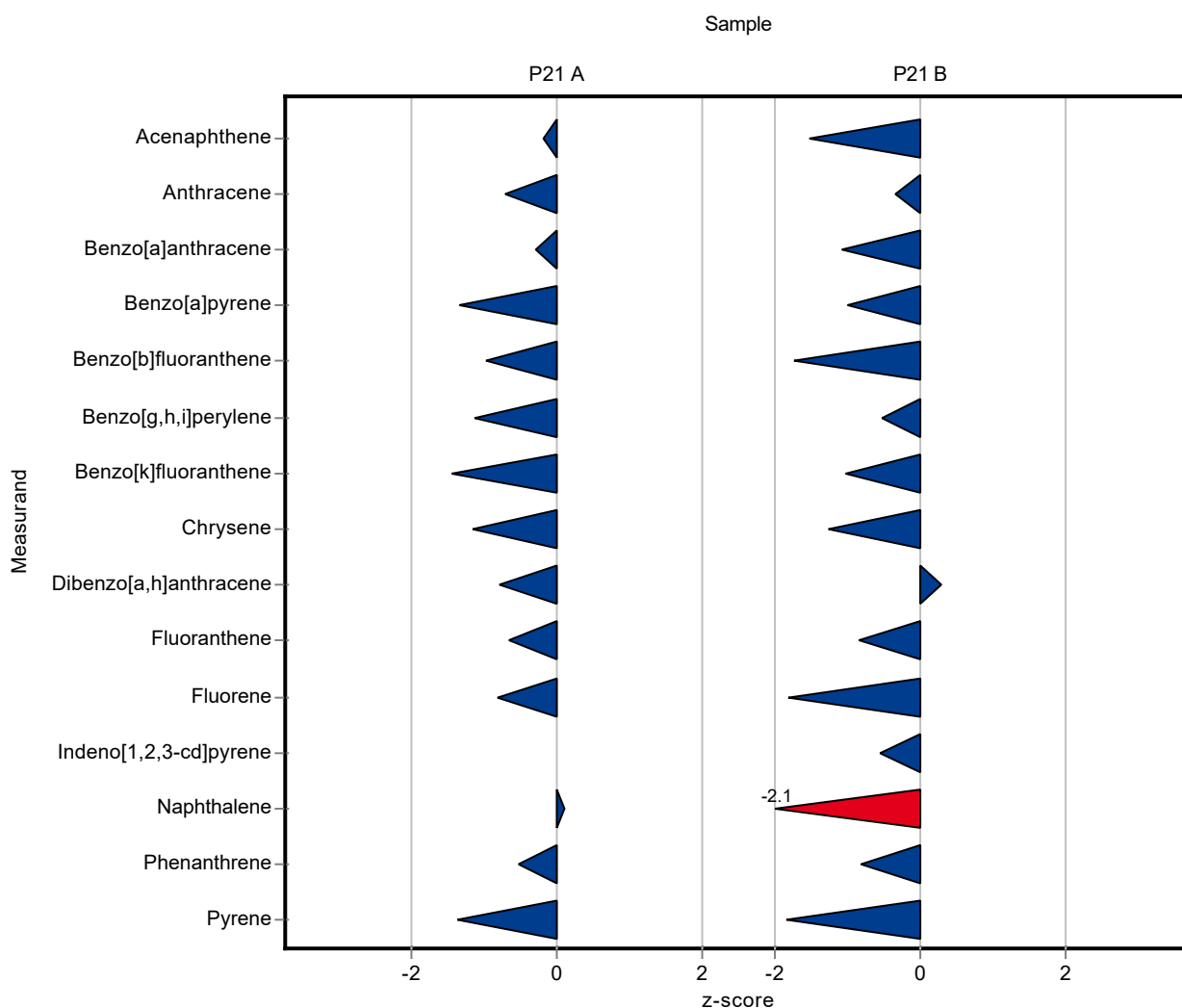
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 3	2.96	96.2	-0.20
Acenaphthylene	ng/l	16.8 ± 1.73	<5 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	11 ± 2.2	2.89	83.9	-0.73
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13.5 ± 2.7	3.02	93.7	-0.30
Benzo[a]pyrene	ng/l	11.1 ± 1.88	7.5 ± 1.5	2.66	67.7	-1.35
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.5 ± 3.5	3.58	83.2	-0.99
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	8.5 ± 1.7	4.3	63.3	-1.15
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	7.5 ± 1.5	3.16	61.7	-1.47
Chrysene	ng/l	20.1 ± 2.16	14 ± 2.8	5.22	69.7	-1.16
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	9 ± 1.8	3.55	76.1	-0.80
Fluoranthene	ng/l	12.5 ± 0.92	11 ± 2.2	2.26	87.7	-0.68
Fluorene	ng/l	13 ± 0.921	11.5 ± 2.3	1.82	88.4	-0.83
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<5 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	29 ± 5.8	5.99	102	0.08
Phenanthrene	ng/l	14.7 ± 1.3	13.5 ± 2.7	2.2	91.9	-0.54
Pyrene	ng/l	10.9 ± 1.15	8.5 ± 1.7	1.75	77.8	-1.39

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	115 ± 23	30.9	70.7	-1.54
Acenaphthylene	ng/l	81.6 ± 12.2	<5 (LOQ) ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	117 ± 23.4	57.6	85.3	-0.35
Benzo[a]anthracene	ng/l	161 ± 18	124 ± 24.8	33.8	77	-1.10
Benzo[a]pyrene	ng/l	152 ± 15	115 ± 23	36.5	75.7	-1.01
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	47.5 ± 9.5	11.5	70.2	-1.75
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.5 ± 9.3	18	82.7	-0.54
Benzo[k]fluoranthene	ng/l	116 ± 8.71	85 ± 17	30.2	73.2	-1.03
Chrysene	ng/l	56.3 ± 5.69	37.5 ± 7.5	14.7	66.6	-1.29
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	93 ± 18.6	25.7	109	0.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	52.5 ± 10.5	23.1	72.8	-0.85
Fluorene	ng/l	186 ± 24.1	138 ± 27.6	26	74.2	-1.84
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	92 ± 18.4	35.9	82.1	-0.56
Naphthalene	ng/l	168 ± 28.1	93 ± 18.6	35.2	55.5	-2.12
Phenanthrene	ng/l	76.4 ± 14.3	50 ± 10	32.1	65.4	-0.82
Pyrene	ng/l	79.4 ± 8.28	56 ± 11.2	12.7	70.5	-1.84



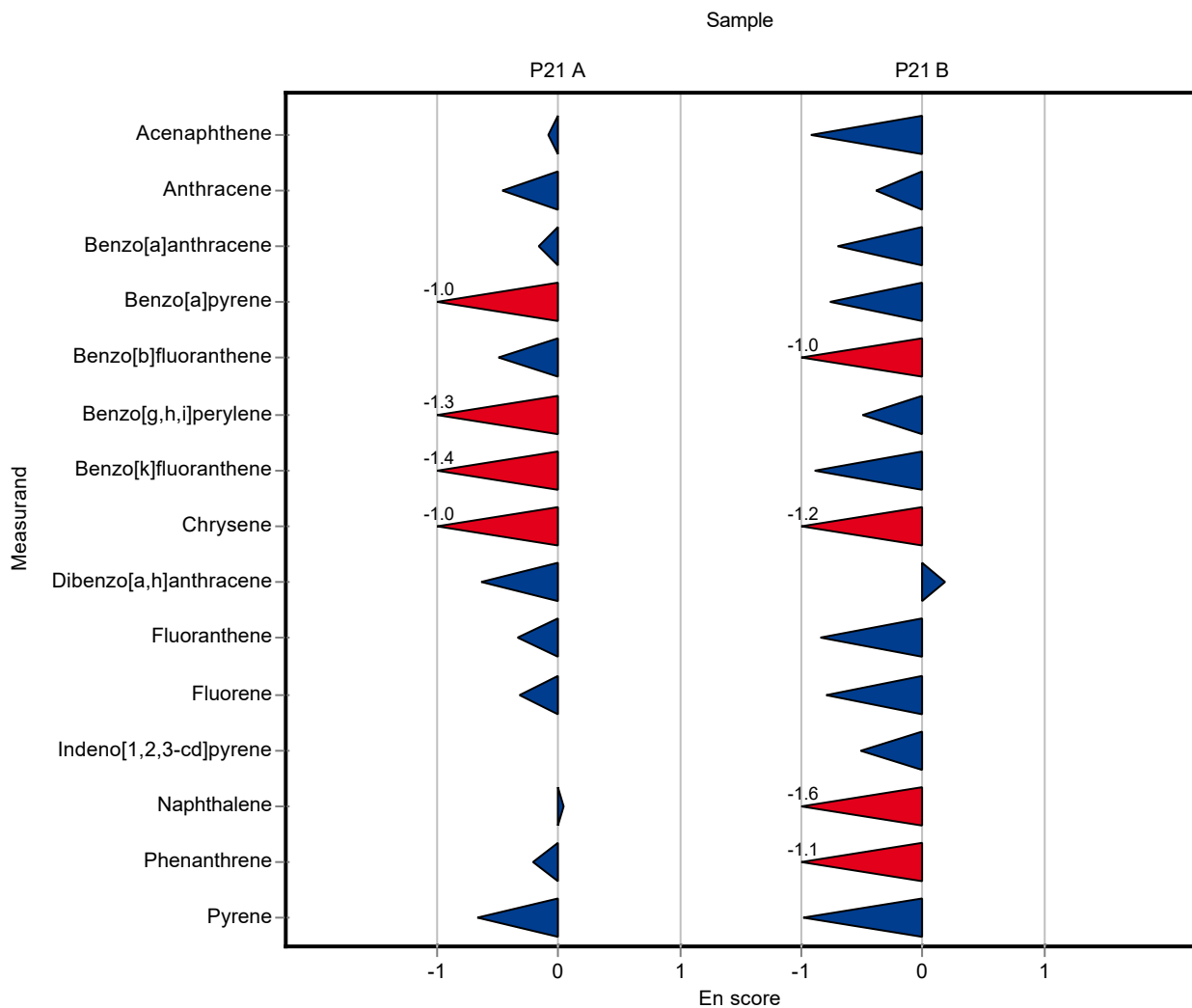
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 3	2.96	96.2	-0.09
Acenaphthylene	ng/l	16.8 ± 1.73	<5 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	11 ± 2.2	2.89	83.9	-0.46
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13.5 ± 2.7	3.02	93.7	-0.16
Benzo[a]pyrene	ng/l	11.1 ± 1.88	7.5 ± 1.5	2.66	67.7	-1.01
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.5 ± 3.5	3.58	83.2	-0.49
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	8.5 ± 1.7	4.3	63.3	-1.32
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	7.5 ± 1.5	3.16	61.7	-1.41
Chrysene	ng/l	20.1 ± 2.16	14 ± 2.8	5.22	69.7	-1.01
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	9 ± 1.8	3.55	76.1	-0.65
Fluoranthene	ng/l	12.5 ± 0.92	11 ± 2.2	2.26	87.7	-0.34
Fluorene	ng/l	13 ± 0.921	11.5 ± 2.3	1.82	88.4	-0.32
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<5 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	29 ± 5.8	5.99	102	0.04
Phenanthrene	ng/l	14.7 ± 1.3	13.5 ± 2.7	2.2	91.9	-0.21
Pyrene	ng/l	10.9 ± 1.15	8.5 ± 1.7	1.75	77.8	-0.68

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	115 ± 23	30.9	70.7	-0.93
Acenaphthylene	ng/l	81.6 ± 12.2	<5 (LOQ) ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	117 ± 23.4	57.6	85.3	-0.39
Benzo[a]anthracene	ng/l	161 ± 18	124 ± 24.8	33.8	77	-0.70
Benzo[a]pyrene	ng/l	152 ± 15	115 ± 23	36.5	75.7	-0.76
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	47.5 ± 9.5	11.5	70.2	-1.01
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.5 ± 9.3	18	82.7	-0.50
Benzo[k]fluoranthene	ng/l	116 ± 8.71	85 ± 17	30.2	73.2	-0.89
Chrysene	ng/l	56.3 ± 5.69	37.5 ± 7.5	14.7	66.6	-1.17
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	93 ± 18.6	25.7	109	0.18

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	52.5 ± 10.5	23.1	72.8	-0.84
Fluorene	ng/l	186 ± 24.1	138 ± 27.6	26	74.2	-0.80
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	92 ± 18.4	35.9	82.1	-0.51
Naphthalene	ng/l	168 ± 28.1	93 ± 18.6	35.2	55.5	-1.60
Phenanthrene	ng/l	76.4 ± 14.3	50 ± 10	32.1	65.4	-1.08
Pyrene	ng/l	79.4 ± 8.28	56 ± 11.2	12.7	70.5	-0.98



Sample: P21A

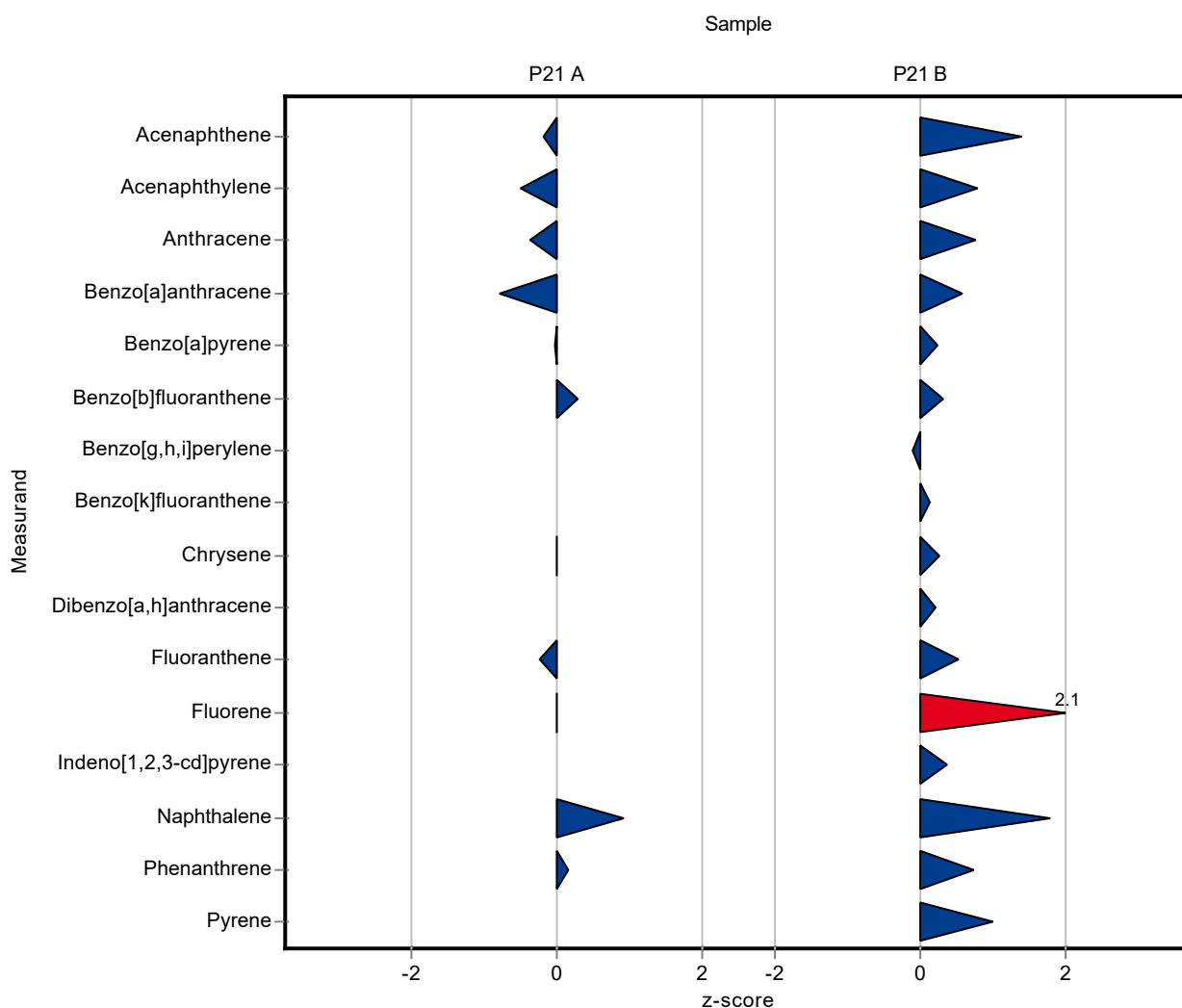
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 3	2.96	96.2	-0.20
Acenaphthylene	ng/l	16.8 ± 1.73	15 ± 3	3.52	89.4	-0.50
Anthracene	ng/l	13.1 ± 1.28	12 ± 3	2.89	91.5	-0.39
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 3	3.02	83.3	-0.79
Benzo[a]pyrene	ng/l	11.1 ± 1.88	11 ± 2	2.66	99.3	-0.03
Benzo[b]fluoranthene	ng/l	21 ± 1.85	22 ± 4	3.58	105	0.27
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<10 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<10 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	20 ± 4	5.22	99.6	-0.02
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 3	2.26	95.7	-0.24
Fluorene	ng/l	13 ± 0.921	13 ± 3	1.82	100	0.00
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	34 ± 7	5.99	119	0.92
Phenanthrene	ng/l	14.7 ± 1.3	15 ± 3	2.2	102	0.14
Pyrene	ng/l	10.9 ± 1.15	<10 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	205 ± 40	30.9	126	1.37
Acenaphthylene	ng/l	81.6 ± 12.2	105 ± 20	30.2	129	0.77
Anthracene	ng/l	137 ± 23.8	180 ± 40	57.6	131	0.74
Benzo[a]anthracene	ng/l	161 ± 18	180 ± 40	33.8	112	0.56
Benzo[a]pyrene	ng/l	152 ± 15	160 ± 30	36.5	105	0.22
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	71 ± 13	11.5	105	0.29
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	54 ± 10	18	96.1	-0.12
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 30	30.2	103	0.13
Chrysene	ng/l	56.3 ± 5.69	60 ± 11	14.7	106	0.25
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	91 ± 17	25.7	106	0.21



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	84 ± 16	23.1	116	0.52
Fluorene	ng/l	186 ± 24.1	240 ± 50	26	129	2.08
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	125 ± 30	35.9	112	0.36
Naphthalene	ng/l	168 ± 28.1	230 ± 50	35.2	137	1.78
Phenanthrene	ng/l	76.4 ± 14.3	100 ± 20	32.1	131	0.73
Pyrene	ng/l	79.4 ± 8.28	92 ± 17	12.7	116	0.99



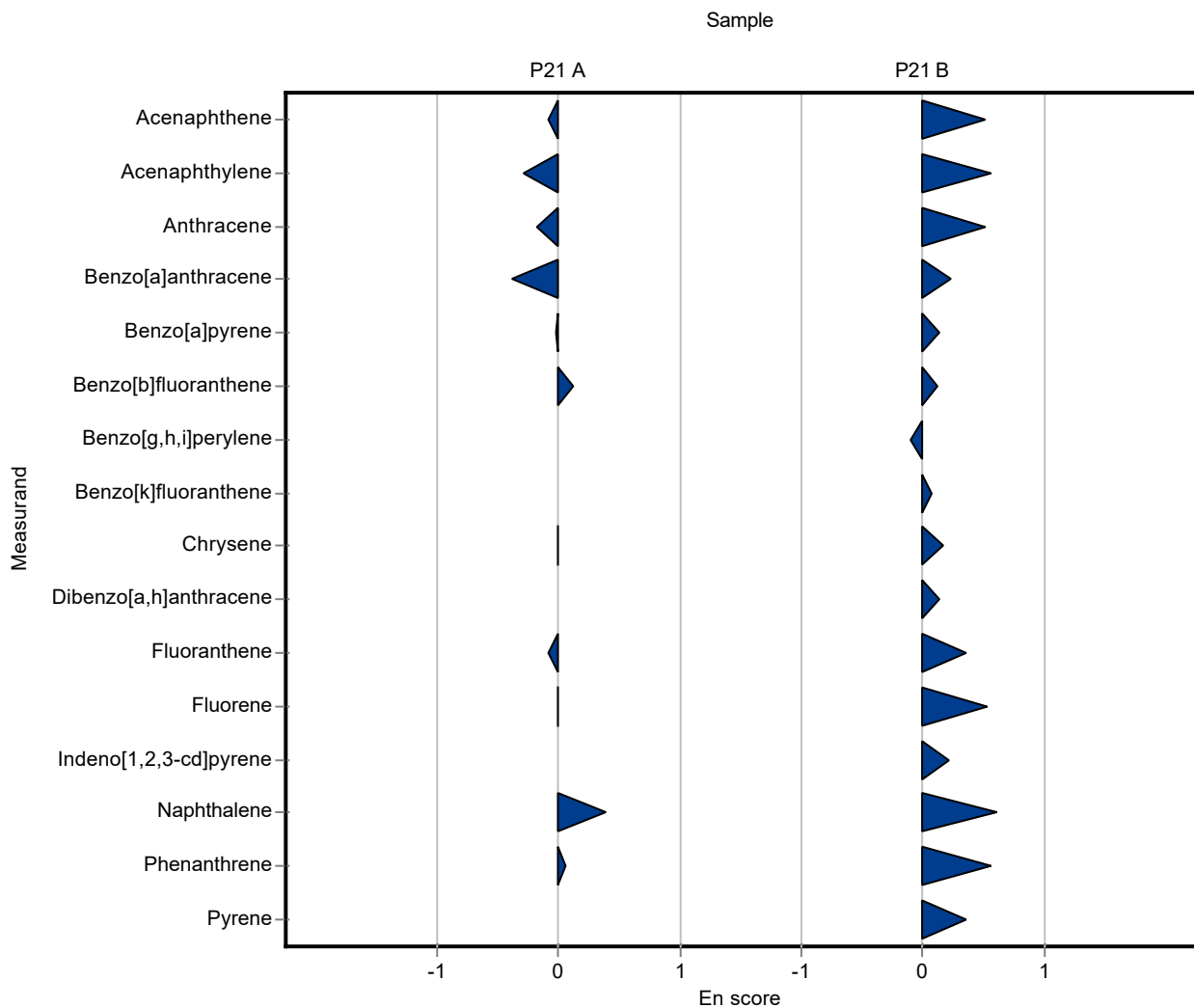
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 3	2.96	96.2	-0.09
Acenaphthylene	ng/l	16.8 ± 1.73	15 ± 3	3.52	89.4	-0.28
Anthracene	ng/l	13.1 ± 1.28	12 ± 3	2.89	91.5	-0.18
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 3	3.02	83.3	-0.39
Benzo[a]pyrene	ng/l	11.1 ± 1.88	11 ± 2	2.66	99.3	-0.02
Benzo[b]fluoranthene	ng/l	21 ± 1.85	22 ± 4	3.58	105	0.12
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<10 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<10 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	20 ± 4	5.22	99.6	-0.01
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 3	2.26	95.7	-0.09
Fluorene	ng/l	13 ± 0.921	13 ± 3	1.82	100	0.00
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	34 ± 7	5.99	119	0.39
Phenanthrene	ng/l	14.7 ± 1.3	15 ± 3	2.2	102	0.05
Pyrene	ng/l	10.9 ± 1.15	<10 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	205 ± 40	30.9	126	0.51
Acenaphthylene	ng/l	81.6 ± 12.2	105 ± 20	30.2	129	0.56
Anthracene	ng/l	137 ± 23.8	180 ± 40	57.6	131	0.51
Benzo[a]anthracene	ng/l	161 ± 18	180 ± 40	33.8	112	0.23
Benzo[a]pyrene	ng/l	152 ± 15	160 ± 30	36.5	105	0.13
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	71 ± 13	11.5	105	0.13
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	54 ± 10	18	96.1	-0.11
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 30	30.2	103	0.06
Chrysene	ng/l	56.3 ± 5.69	60 ± 11	14.7	106	0.16
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	91 ± 17	25.7	106	0.14

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	84 ± 16	23.1	116
Fluorene	ng/l	186 ± 24.1	240 ± 50	26	129
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	125 ± 30	35.9	112
Naphthalene	ng/l	168 ± 28.1	230 ± 50	35.2	137
Phenanthrene	ng/l	76.4 ± 14.3	100 ± 20	32.1	131
Pyrene	ng/l	79.4 ± 8.28	92 ± 17	12.7	116



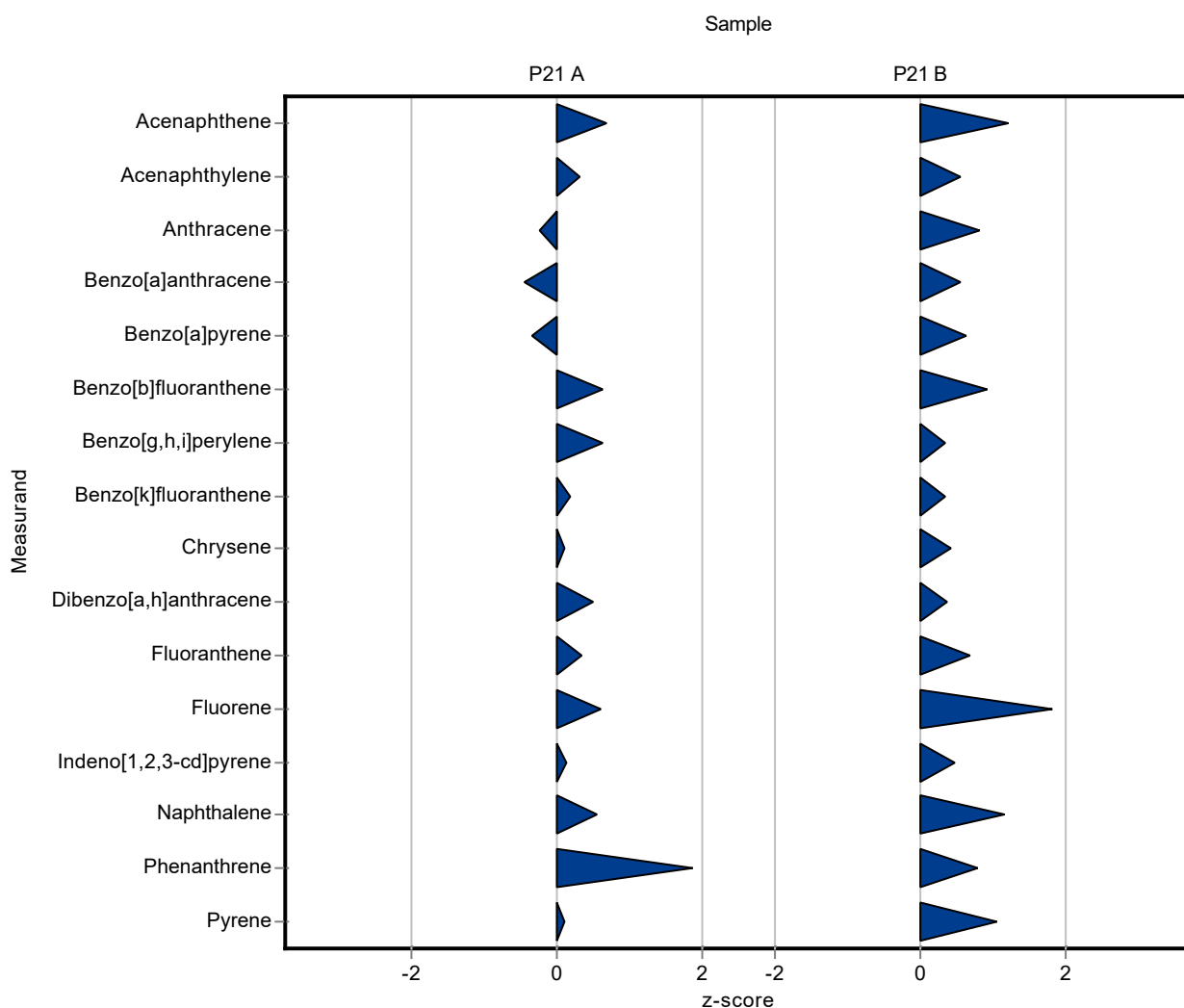
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	17.6 ± 1.3	2.96	113	0.68
Acenaphthylene	ng/l	16.8 ± 1.73	17.8 ± 1.4	3.52	106	0.29
Anthracene	ng/l	13.1 ± 1.28	12.4 ± 2.4	2.89	94.5	-0.25
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13 ± 0.8	3.02	90.3	-0.46
Benzo[a]pyrene	ng/l	11.1 ± 1.88	10.1 ± 0.1	2.66	91.2	-0.37
Benzo[b]fluoranthene	ng/l	21 ± 1.85	23.3 ± 1.7	3.58	111	0.63
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	16.1 ± 1.3	4.3	120	0.62
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	12.7 ± 0.2	3.16	104	0.17
Chrysene	ng/l	20.1 ± 2.16	20.6 ± 1.7	5.22	103	0.10
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.6 ± 1.6	3.55	115	0.50
Fluoranthene	ng/l	12.5 ± 0.92	13.3 ± 0.7	2.26	106	0.34
Fluorene	ng/l	13 ± 0.921	14.1 ± 0.7	1.82	108	0.60
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.81 ± 0.5	2.65	104	0.13
Naphthalene	ng/l	28.5 ± 2.52	31.8 ± 1.6	5.99	111	0.55
Phenanthrene	ng/l	14.7 ± 1.3	18.8 ± 4.9	2.2	128	1.87
Pyrene	ng/l	10.9 ± 1.15	11.1 ± 0.3	1.75	102	0.10

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	200 ± 8.5	30.9	123	1.21
Acenaphthylene	ng/l	81.6 ± 12.2	98.1 ± 4.8	30.2	120	0.55
Anthracene	ng/l	137 ± 23.8	184 ± 16	57.6	134	0.81
Benzo[a]anthracene	ng/l	161 ± 18	179 ± 13	33.8	111	0.53
Benzo[a]pyrene	ng/l	152 ± 15	174 ± 12	36.5	115	0.60
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	78.2 ± 4.9	11.5	116	0.92
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	62.3 ± 7.4	18	111	0.34
Benzo[k]fluoranthene	ng/l	116 ± 8.71	126 ± 7.9	30.2	109	0.33
Chrysene	ng/l	56.3 ± 5.69	62.2 ± 4.5	14.7	110	0.40
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	95.1 ± 7.6	25.7	111	0.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	87.8 ± 8.6	23.1	122	0.68
Fluorene	ng/l	186 ± 24.1	233 ± 10	26	125	1.81
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	129 ± 15	35.9	115	0.47
Naphthalene	ng/l	168 ± 28.1	208 ± 8.5	35.2	124	1.15
Phenanthrene	ng/l	76.4 ± 14.3	101 ± 9.4	32.1	132	0.77
Pyrene	ng/l	79.4 ± 8.28	92.5 ± 8.2	12.7	116	1.03



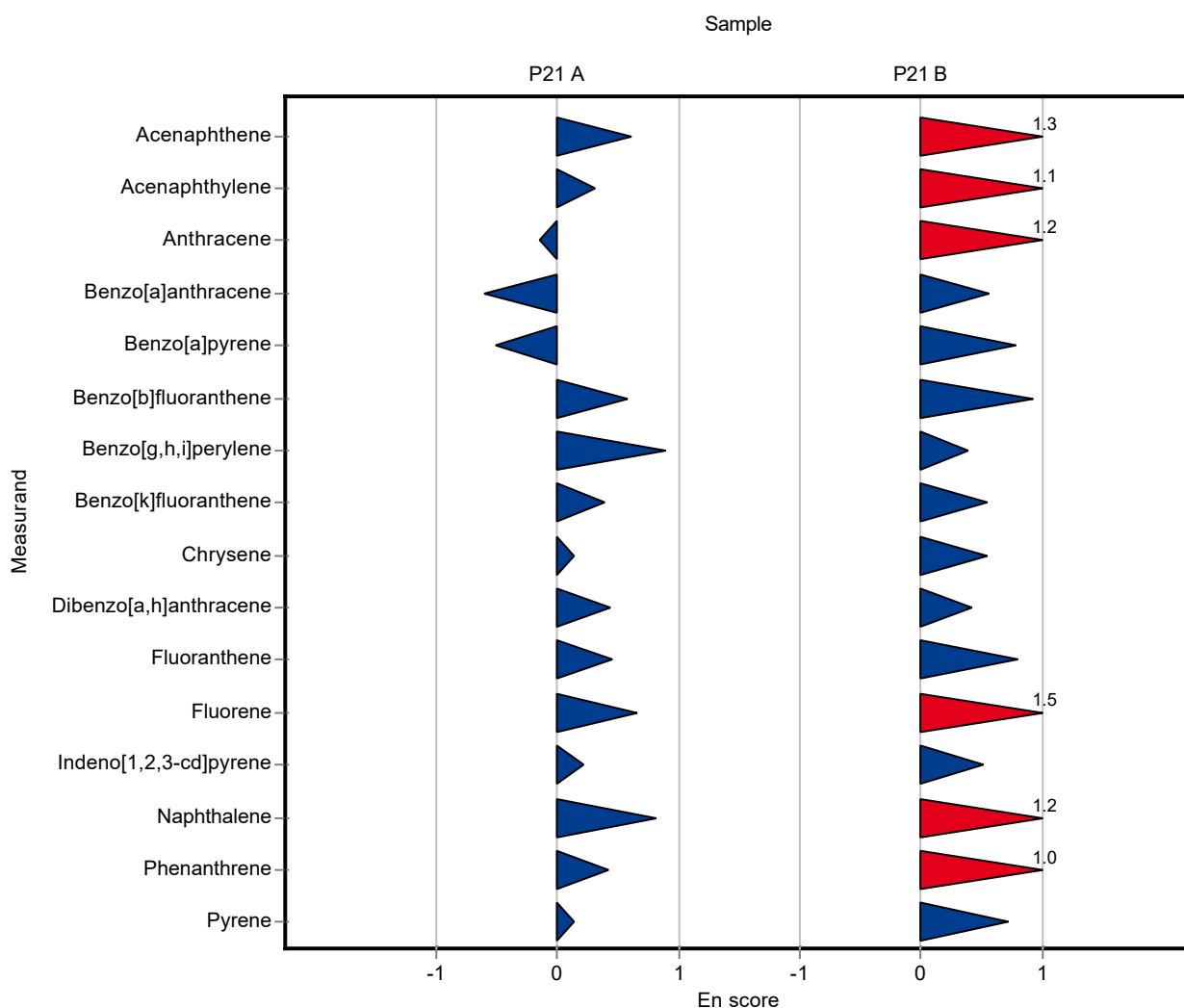
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	17.6 ± 1.3	2.96	113	0.61
Acenaphthylene	ng/l	16.8 ± 1.73	17.8 ± 1.4	3.52	106	0.31
Anthracene	ng/l	13.1 ± 1.28	12.4 ± 2.4	2.89	94.5	-0.14
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13 ± 0.8	3.02	90.3	-0.60
Benzo[a]pyrene	ng/l	11.1 ± 1.88	10.1 ± 0.1	2.66	91.2	-0.52
Benzo[b]fluoranthene	ng/l	21 ± 1.85	23.3 ± 1.7	3.58	111	0.58
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	16.1 ± 1.3	4.3	120	0.89
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	12.7 ± 0.2	3.16	104	0.39
Chrysene	ng/l	20.1 ± 2.16	20.6 ± 1.7	5.22	103	0.13
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.6 ± 1.6	3.55	115	0.44
Fluoranthene	ng/l	12.5 ± 0.92	13.3 ± 0.7	2.26	106	0.45
Fluorene	ng/l	13 ± 0.921	14.1 ± 0.7	1.82	108	0.65
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.81 ± 0.5	2.65	104	0.22
Naphthalene	ng/l	28.5 ± 2.52	31.8 ± 1.6	5.99	111	0.81
Phenanthrene	ng/l	14.7 ± 1.3	18.8 ± 4.9	2.2	128	0.42
Pyrene	ng/l	10.9 ± 1.15	11.1 ± 0.3	1.75	102	0.13

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	200 ± 8.5	30.9	123	1.31
Acenaphthylene	ng/l	81.6 ± 12.2	98.1 ± 4.8	30.2	120	1.06
Anthracene	ng/l	137 ± 23.8	184 ± 16	57.6	134	1.17
Benzo[a]anthracene	ng/l	161 ± 18	179 ± 13	33.8	111	0.57
Benzo[a]pyrene	ng/l	152 ± 15	174 ± 12	36.5	115	0.78
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	78.2 ± 4.9	11.5	116	0.92
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	62.3 ± 7.4	18	111	0.39
Benzo[k]fluoranthene	ng/l	116 ± 8.71	126 ± 7.9	30.2	109	0.55
Chrysene	ng/l	56.3 ± 5.69	62.2 ± 4.5	14.7	110	0.55
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	95.1 ± 7.6	25.7	111	0.42

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	87.8 ± 8.6	23.1	122
Fluorene	ng/l	186 ± 24.1	233 ± 10	26	125
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	129 ± 15	35.9	115
Naphthalene	ng/l	168 ± 28.1	208 ± 8.5	35.2	124
Phenanthrene	ng/l	76.4 ± 14.3	101 ± 9.4	32.1	132
Pyrene	ng/l	79.4 ± 8.28	92.5 ± 8.2	12.7	116



Sample: P21A

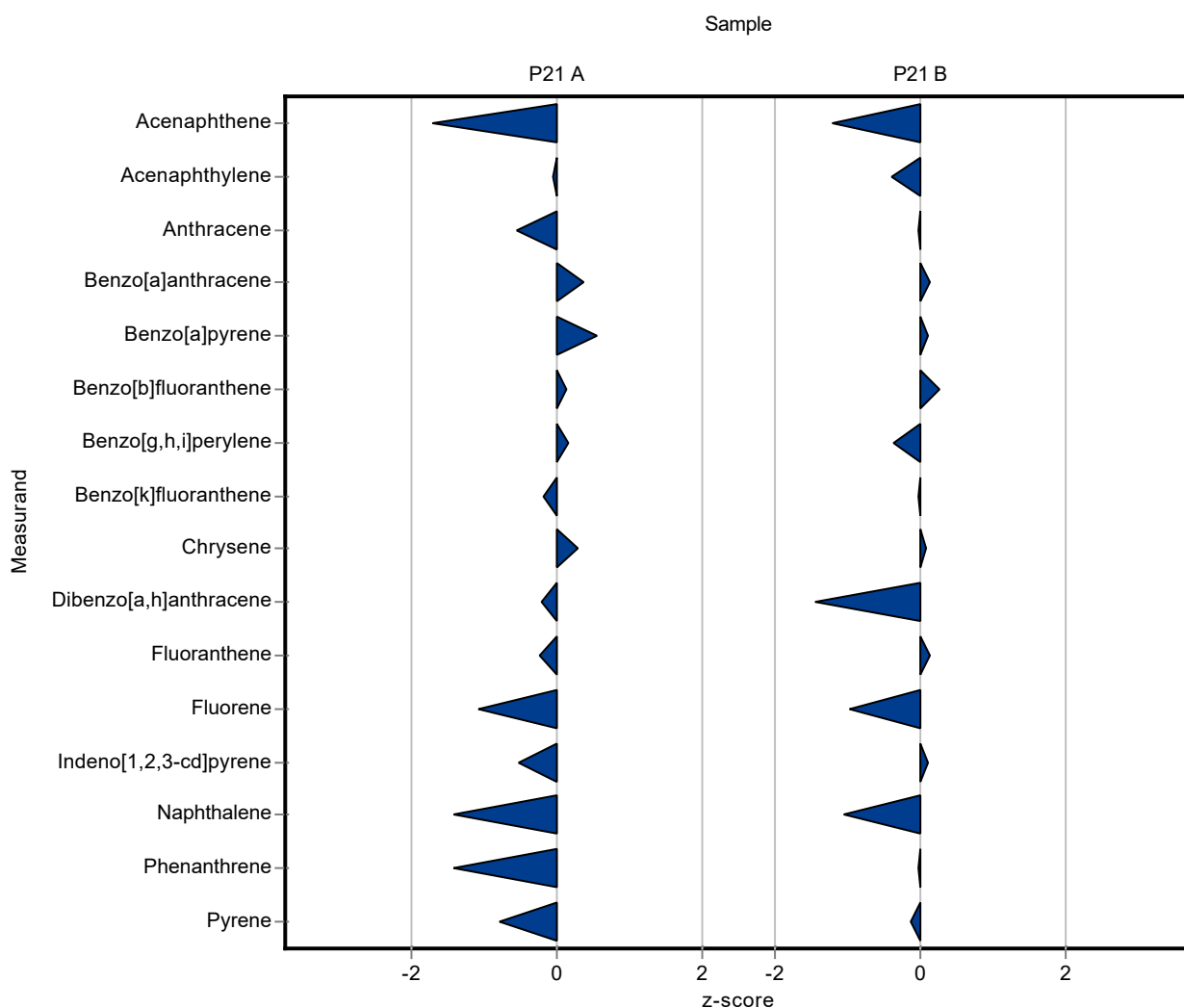
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	10.5 ± 1	2.96	67.3	-1.72
Acenaphthylene	ng/l	16.8 ± 1.73	16.5 ± 1.6	3.52	98.3	-0.08
Anthracene	ng/l	13.1 ± 1.28	11.5 ± 1.1	2.89	87.7	-0.56
Benzo[a]anthracene	ng/l	14.4 ± 1.7	15.5 ± 1.5	3.02	108	0.36
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.5 ± 1.2	2.66	113	0.54
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.5 ± 2.1	3.58	102	0.13
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	14 ± 1.4	4.3	104	0.13
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11.5 ± 1.1	3.16	94.6	-0.21
Chrysene	ng/l	20.1 ± 2.16	21.5 ± 2.1	5.22	107	0.27
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	11 ± 1.1	3.55	93	-0.23
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.2	2.26	95.7	-0.24
Fluorene	ng/l	13 ± 0.921	11 ± 1.1	1.82	84.6	-1.10
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	8 ± 0.8	2.65	84.5	-0.55
Naphthalene	ng/l	28.5 ± 2.52	20 ± 2	5.99	70.1	-1.42
Phenanthrene	ng/l	14.7 ± 1.3	11.5 ± 1.1	2.2	78.3	-1.45
Pyrene	ng/l	10.9 ± 1.15	9.5 ± 0.9	1.75	86.9	-0.82

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	125 ± 12.5	30.9	76.9	-1.22
Acenaphthylene	ng/l	81.6 ± 12.2	69.5 ± 7	30.2	85.2	-0.40
Anthracene	ng/l	137 ± 23.8	135 ± 13	57.6	98.4	-0.04
Benzo[a]anthracene	ng/l	161 ± 18	165 ± 16	33.8	102	0.12
Benzo[a]pyrene	ng/l	152 ± 15	155 ± 15	36.5	102	0.08
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	70.5 ± 7	11.5	104	0.25
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	49.5 ± 5	18	88.1	-0.37
Benzo[k]fluoranthene	ng/l	116 ± 8.71	115 ± 11	30.2	99.1	-0.04
Chrysene	ng/l	56.3 ± 5.69	57.5 ± 6	14.7	102	0.08
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	48 ± 5	25.7	56	-1.47



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	75 ± 7.5	23.1	104	0.13
Fluorene	ng/l	186 ± 24.1	160 ± 16	26	86.1	-0.99
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	115 ± 11.5	35.9	103	0.08
Naphthalene	ng/l	168 ± 28.1	130 ± 13	35.2	77.6	-1.07
Phenanthrene	ng/l	76.4 ± 14.3	75 ± 7.5	32.1	98.1	-0.04
Pyrene	ng/l	79.4 ± 8.28	77.5 ± 7.8	12.7	97.6	-0.15



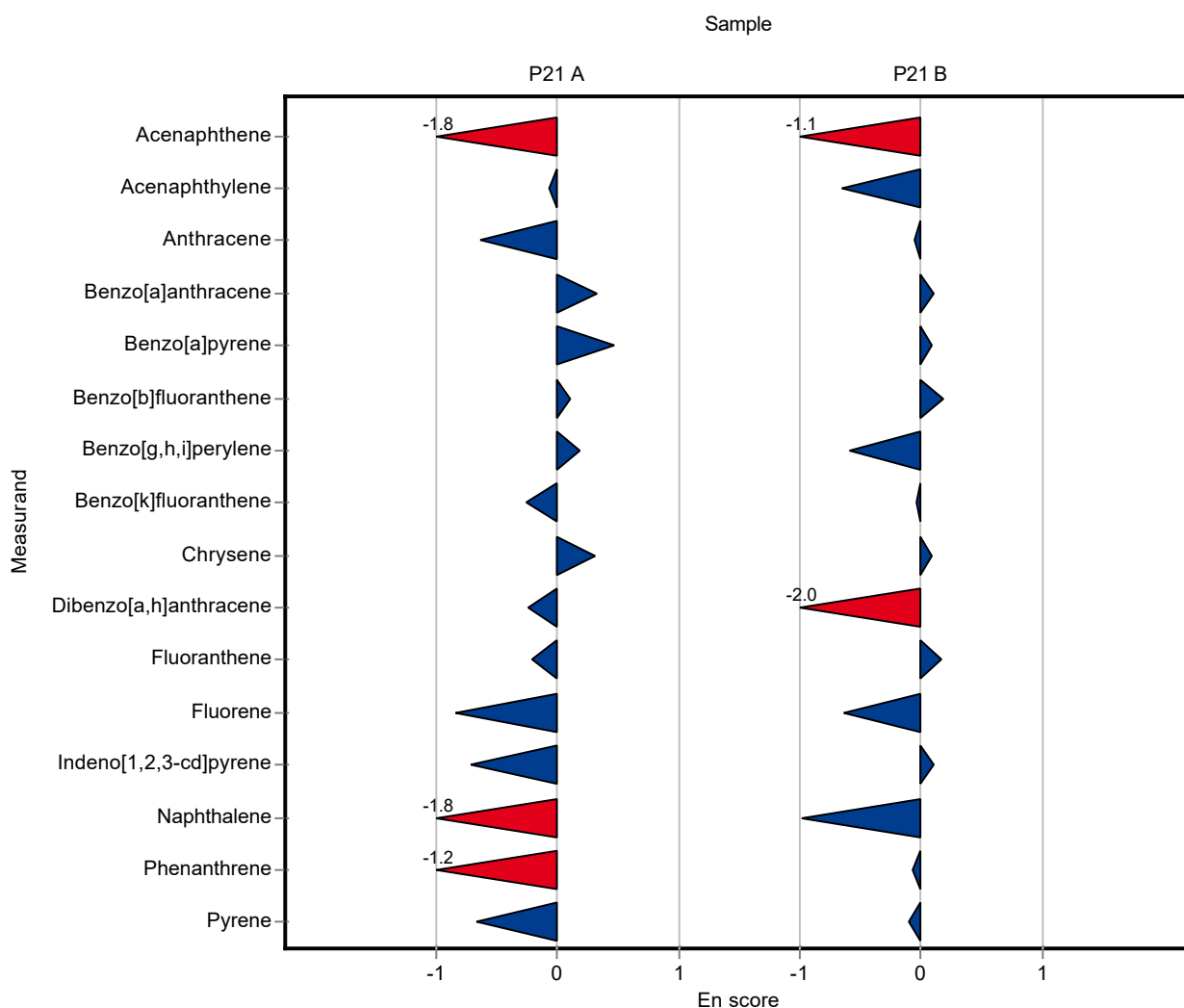
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	10.5 ± 1	2.96	67.3	-1.79
Acenaphthylene	ng/l	16.8 ± 1.73	16.5 ± 1.6	3.52	98.3	-0.08
Anthracene	ng/l	13.1 ± 1.28	11.5 ± 1.1	2.89	87.7	-0.64
Benzo[a]anthracene	ng/l	14.4 ± 1.7	15.5 ± 1.5	3.02	108	0.32
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.5 ± 1.2	2.66	113	0.47
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.5 ± 2.1	3.58	102	0.10
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	14 ± 1.4	4.3	104	0.18
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11.5 ± 1.1	3.16	94.6	-0.25
Chrysene	ng/l	20.1 ± 2.16	21.5 ± 2.1	5.22	107	0.30
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	11 ± 1.1	3.55	93	-0.25
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.2	2.26	95.7	-0.21
Fluorene	ng/l	13 ± 0.921	11 ± 1.1	1.82	84.6	-0.84
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	8 ± 0.8	2.65	84.5	-0.72
Naphthalene	ng/l	28.5 ± 2.52	20 ± 2	5.99	70.1	-1.80
Phenanthrene	ng/l	14.7 ± 1.3	11.5 ± 1.1	2.2	78.3	-1.25
Pyrene	ng/l	10.9 ± 1.15	9.5 ± 0.9	1.75	86.9	-0.67

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	125 ± 12.5	30.9	76.9	-1.11
Acenaphthylene	ng/l	81.6 ± 12.2	69.5 ± 7	30.2	85.2	-0.65
Anthracene	ng/l	137 ± 23.8	135 ± 13	57.6	98.4	-0.06
Benzo[a]anthracene	ng/l	161 ± 18	165 ± 16	33.8	102	0.11
Benzo[a]pyrene	ng/l	152 ± 15	155 ± 15	36.5	102	0.09
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	70.5 ± 7	11.5	104	0.19
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	49.5 ± 5	18	88.1	-0.59
Benzo[k]fluoranthene	ng/l	116 ± 8.71	115 ± 11	30.2	99.1	-0.05
Chrysene	ng/l	56.3 ± 5.69	57.5 ± 6	14.7	102	0.09
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	48 ± 5	25.7	56	-1.95

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	75 ± 7.5	23.1	104	0.16
Fluorene	ng/l	186 ± 24.1	160 ± 16	26	86.1	-0.65
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	115 ± 11.5	35.9	103	0.11
Naphthalene	ng/l	168 ± 28.1	130 ± 13	35.2	77.6	-0.98
Phenanthrene	ng/l	76.4 ± 14.3	75 ± 7.5	32.1	98.1	-0.07
Pyrene	ng/l	79.4 ± 8.28	77.5 ± 7.8	12.7	97.6	-0.11



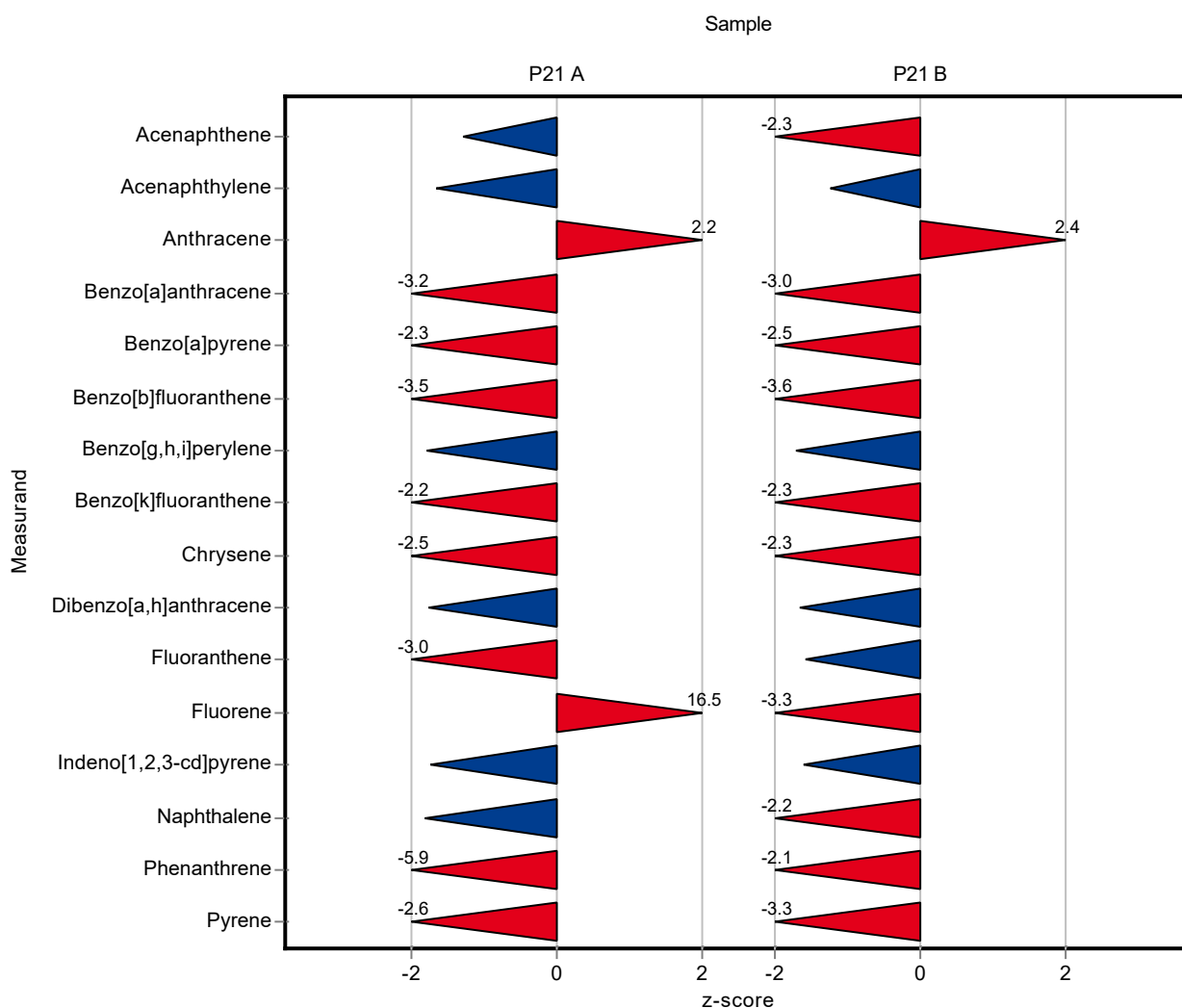
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.7 ± 2.19	2.96	75	-1.31
Acenaphthylene	ng/l	16.8 ± 1.73	10.9 ± 1.37	3.52	65	-1.67
Anthracene	ng/l	13.1 ± 1.28	19.4 ± 3.36	2.89	148	2.18
Benzo[a]anthracene	ng/l	14.4 ± 1.7	4.7 ± 1.1	3.02	32.6	-3.21
Benzo[a]pyrene	ng/l	11.1 ± 1.88	5 ± 0.62	2.66	45.1	-2.29
Benzo[b]fluoranthene	ng/l	21 ± 1.85	8.4 ± 1.78	3.58	39.9	-3.53
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	5.7 ± 0.72	4.3	42.5	-1.80
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	5.1 ± 0.69	3.16	42	-2.23
Chrysene	ng/l	20.1 ± 2.16	7.1 ± 0.85	5.22	35.4	-2.49
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	5.5 ± 0.73	3.55	46.5	-1.78
Fluoranthene	ng/l	12.5 ± 0.92	5.8 ± 1.21	2.26	46.3	-2.99
Fluorene	ng/l	13 ± 0.921	43.1 ± 9.79	1.82	331	16.50
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	4.8 ± 0.51	2.65	50.7	-1.76
Naphthalene	ng/l	28.5 ± 2.52	17.5 ± 2.57	5.99	61.4	-1.84
Phenanthrene	ng/l	14.7 ± 1.3	1.7 ± 0.21	2.2	11.6	-5.89
Pyrene	ng/l	10.9 ± 1.15	6.3 ± 1.18	1.75	57.7	-2.65

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	92.3 ± 17.3	30.9	56.7	-2.28
Acenaphthylene	ng/l	81.6 ± 12.2	44.1 ± 5.53	30.2	54	-1.24
Anthracene	ng/l	137 ± 23.8	278.4 ± 48.3	57.6	203	2.45
Benzo[a]anthracene	ng/l	161 ± 18	58.8 ± 13.8	33.8	36.5	-3.02
Benzo[a]pyrene	ng/l	152 ± 15	59.6 ± 7.28	36.5	39.2	-2.53
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	25.9 ± 5.48	11.5	38.3	-3.63
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	25.2 ± 3.2	18	44.8	-1.72
Benzo[k]fluoranthene	ng/l	116 ± 8.71	47 ± 6.34	30.2	40.5	-2.29
Chrysene	ng/l	56.3 ± 5.69	22 ± 2.63	14.7	39	-2.34
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	43 ± 5.7	25.7	50.2	-1.66

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	35.4 ± 7.36	23.1	49.1	-1.59
Fluorene	ng/l	186 ± 24.1	99.5 ± 22.6	26	53.5	-3.32
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	53.9 ± 5.71	35.9	48.1	-1.62
Naphthalene	ng/l	168 ± 28.1	91 ± 13.4	35.2	54.3	-2.17
Phenanthrene	ng/l	76.4 ± 14.3	9.3 ± 1.17	32.1	12.2	-2.09
Pyrene	ng/l	79.4 ± 8.28	38.1 ± 7.15	12.7	48	-3.25



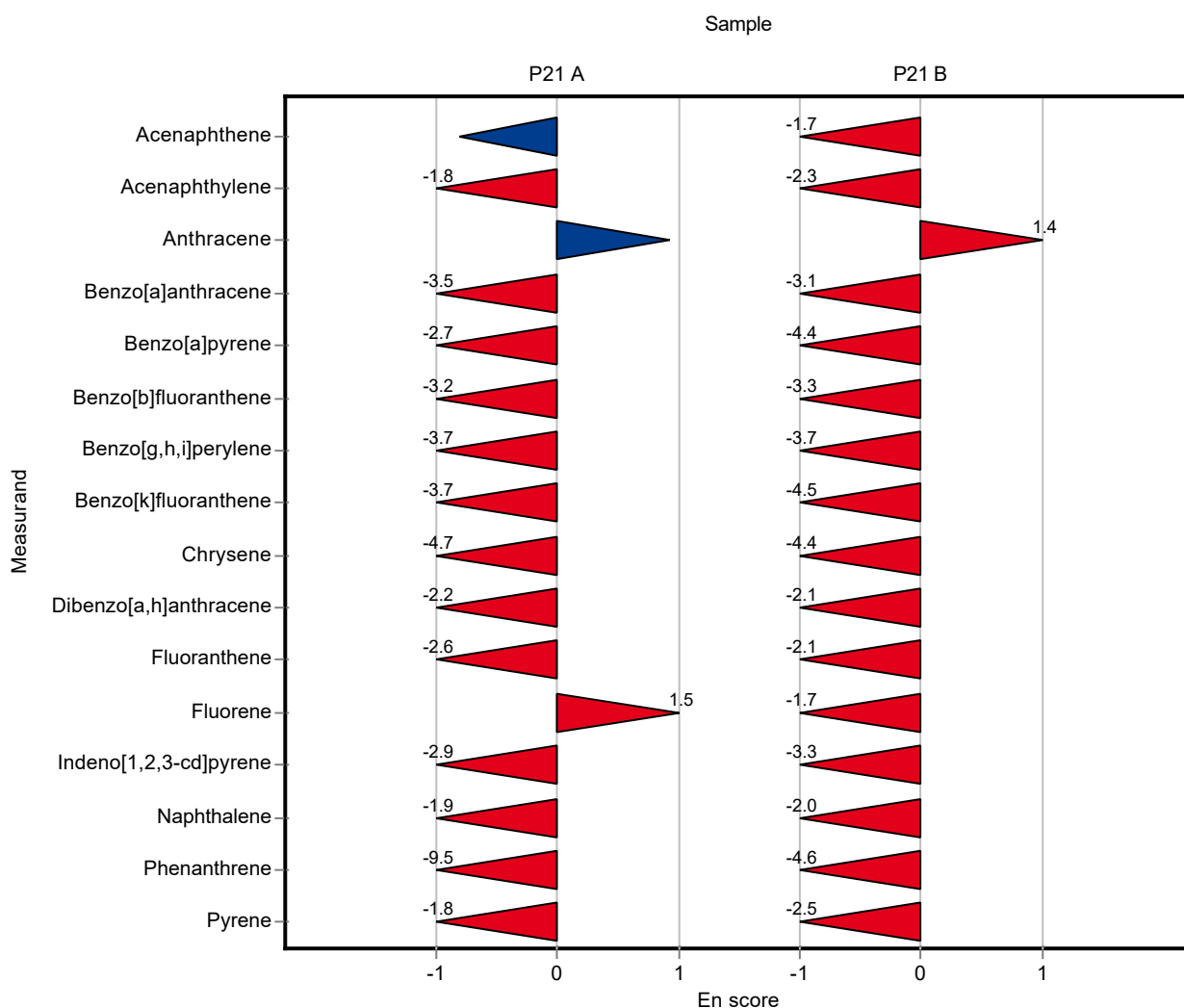
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.7 ± 2.19	2.96	75	-0.81
Acenaphthylene	ng/l	16.8 ± 1.73	10.9 ± 1.37	3.52	65	-1.81
Anthracene	ng/l	13.1 ± 1.28	19.4 ± 3.36	2.89	148	0.92
Benzo[a]anthracene	ng/l	14.4 ± 1.7	4.7 ± 1.1	3.02	32.6	-3.49
Benzo[a]pyrene	ng/l	11.1 ± 1.88	5 ± 0.62	2.66	45.1	-2.70
Benzo[b]fluoranthene	ng/l	21 ± 1.85	8.4 ± 1.78	3.58	39.9	-3.15
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	5.7 ± 0.72	4.3	42.5	-3.69
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	5.1 ± 0.69	3.16	42	-3.65
Chrysene	ng/l	20.1 ± 2.16	7.1 ± 0.85	5.22	35.4	-4.72
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	5.5 ± 0.73	3.55	46.5	-2.20
Fluoranthene	ng/l	12.5 ± 0.92	5.8 ± 1.21	2.26	46.3	-2.60
Fluorene	ng/l	13 ± 0.921	43.1 ± 9.79	1.82	331	1.54
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	4.8 ± 0.51	2.65	50.7	-2.91
Naphthalene	ng/l	28.5 ± 2.52	17.5 ± 2.57	5.99	61.4	-1.93
Phenanthrene	ng/l	14.7 ± 1.3	1.7 ± 0.21	2.2	11.6	-9.54
Pyrene	ng/l	10.9 ± 1.15	6.3 ± 1.18	1.75	57.7	-1.76

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	92.3 ± 17.3	30.9	56.7	-1.70
Acenaphthylene	ng/l	81.6 ± 12.2	44.1 ± 5.53	30.2	54	-2.28
Anthracene	ng/l	137 ± 23.8	278.4 ± 48.3	57.6	203	1.42
Benzo[a]anthracene	ng/l	161 ± 18	58.8 ± 13.8	33.8	36.5	-3.11
Benzo[a]pyrene	ng/l	152 ± 15	59.6 ± 7.28	36.5	39.2	-4.42
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	25.9 ± 5.48	11.5	38.3	-3.35
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	25.2 ± 3.2	18	44.8	-3.66
Benzo[k]fluoranthene	ng/l	116 ± 8.71	47 ± 6.34	30.2	40.5	-4.49
Chrysene	ng/l	56.3 ± 5.69	22 ± 2.63	14.7	39	-4.43
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	43 ± 5.7	25.7	50.2	-2.13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	35.4 ± 7.36	23.1	49.1	-2.07
Fluorene	ng/l	186 ± 24.1	99.5 ± 22.6	26	53.5	-1.69
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	53.9 ± 5.71	35.9	48.1	-3.33
Naphthalene	ng/l	168 ± 28.1	91 ± 13.4	35.2	54.3	-1.97
Phenanthrene	ng/l	76.4 ± 14.3	9.3 ± 1.17	32.1	12.2	-4.64
Pyrene	ng/l	79.4 ± 8.28	38.1 ± 7.15	12.7	48	-2.50



Sample: P21A

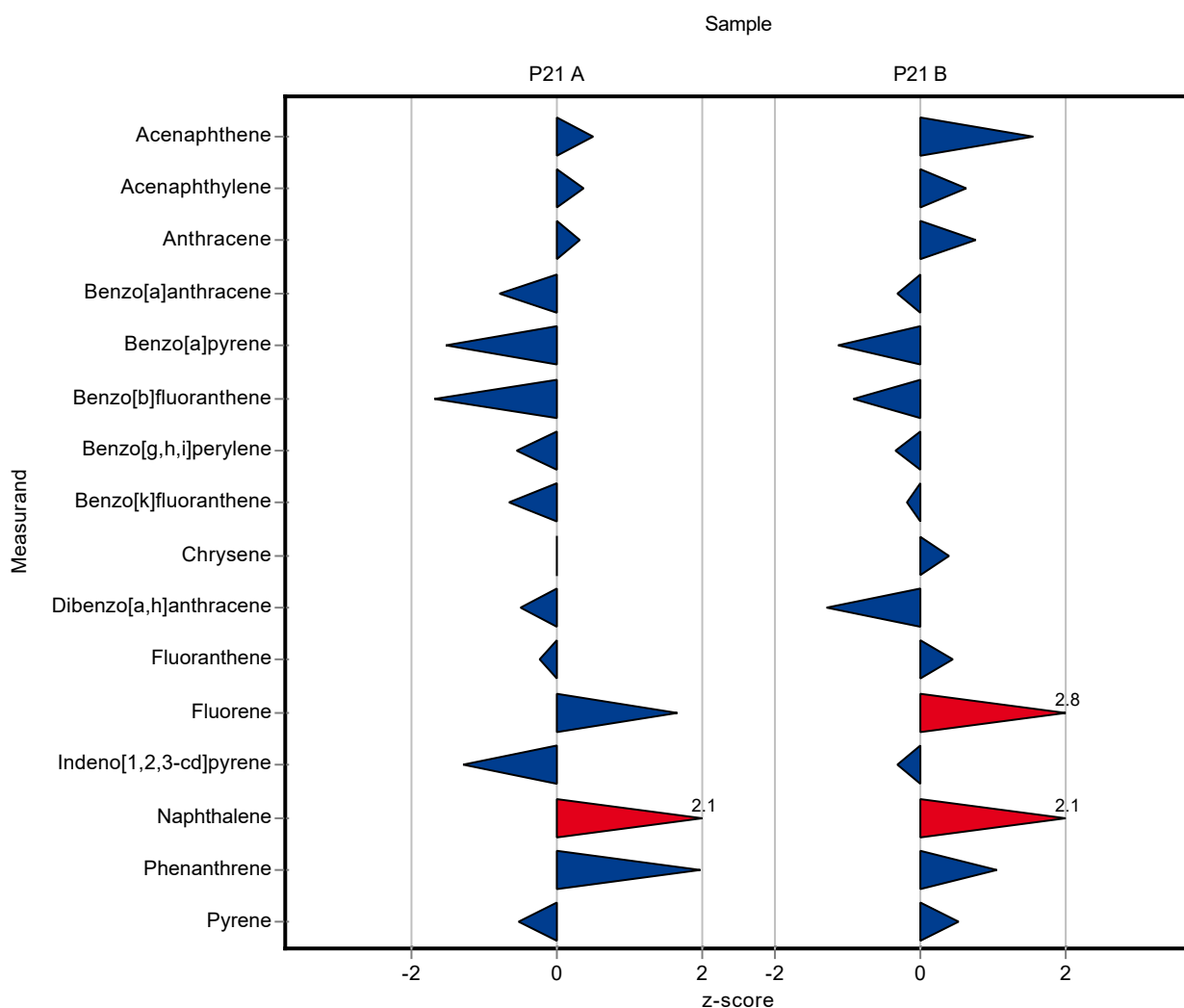
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	17 ± 1.7	2.96	109	0.47
Acenaphthylene	ng/l	16.8 ± 1.73	18 ± 1.8	3.52	107	0.35
Anthracene	ng/l	13.1 ± 1.28	14 ± 1.4	2.89	107	0.31
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 1.2	3.02	83.3	-0.79
Benzo[a]pyrene	ng/l	11.1 ± 1.88	7 ± 0.7	2.66	63.2	-1.53
Benzo[b]fluoranthene	ng/l	21 ± 1.85	15 ± 1.5	3.58	71.3	-1.69
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 1.1	4.3	82	-0.56
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10 ± 1	3.16	82.3	-0.68
Chrysene	ng/l	20.1 ± 2.16	20 ± 2	5.22	99.6	-0.02
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	10 ± 1	3.55	84.6	-0.52
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.2	2.26	95.7	-0.24
Fluorene	ng/l	13 ± 0.921	16 ± 1.6	1.82	123	1.64
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	6 ± 0.6	2.65	63.4	-1.31
Naphthalene	ng/l	28.5 ± 2.52	41 ± 4.1	5.99	144	2.08
Phenanthrene	ng/l	14.7 ± 1.3	19 ± 1.9	2.2	129	1.96
Pyrene	ng/l	10.9 ± 1.15	10 ± 1	1.75	91.5	-0.53

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	210 ± 21	30.9	129	1.53
Acenaphthylene	ng/l	81.6 ± 12.2	100 ± 10	30.2	123	0.61
Anthracene	ng/l	137 ± 23.8	180 ± 18	57.6	131	0.74
Benzo[a]anthracene	ng/l	161 ± 18	150 ± 15	33.8	93.1	-0.33
Benzo[a]pyrene	ng/l	152 ± 15	110 ± 11	36.5	72.4	-1.15
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	57 ± 5.7	11.5	84.3	-0.93
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	50 ± 5	18	89	-0.34
Benzo[k]fluoranthene	ng/l	116 ± 8.71	110 ± 11	30.2	94.8	-0.20
Chrysene	ng/l	56.3 ± 5.69	62 ± 6.2	14.7	110	0.39
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	52 ± 5.2	25.7	60.7	-1.31



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	82 ± 8.2	23.1	114	0.43
Fluorene	ng/l	186 ± 24.1	260 ± 26	26	140	2.85
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	100 ± 10	35.9	89.2	-0.34
Naphthalene	ng/l	168 ± 28.1	240 ± 24	35.2	143	2.06
Phenanthrene	ng/l	76.4 ± 14.3	110 ± 11	32.1	144	1.05
Pyrene	ng/l	79.4 ± 8.28	86 ± 8.6	12.7	108	0.52



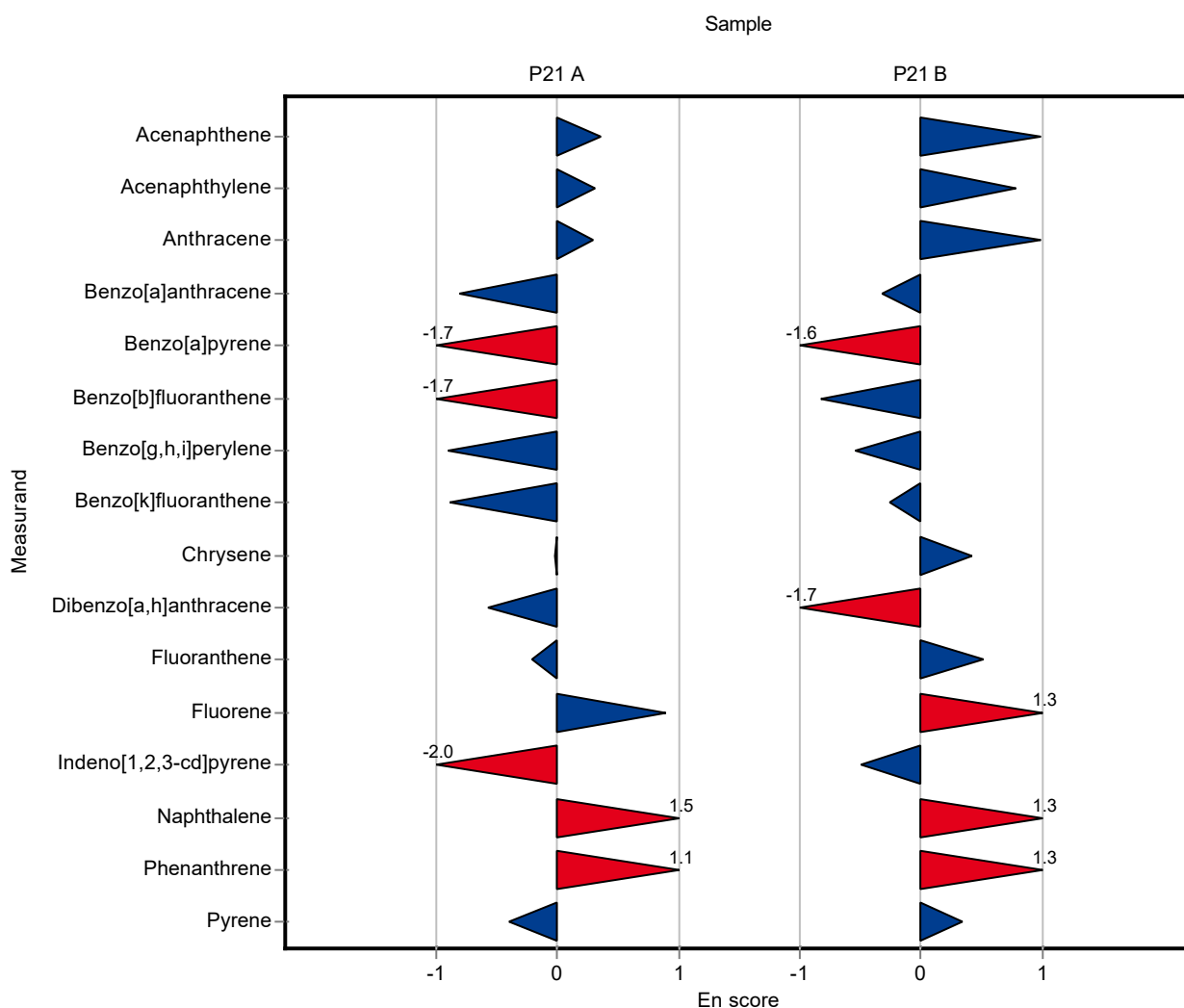
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	17 ± 1.7	2.96	109	0.35
Acenaphthylene	ng/l	16.8 ± 1.73	18 ± 1.8	3.52	107	0.31
Anthracene	ng/l	13.1 ± 1.28	14 ± 1.4	2.89	107	0.29
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 1.2	3.02	83.3	-0.82
Benzo[a]pyrene	ng/l	11.1 ± 1.88	7 ± 0.7	2.66	63.2	-1.74
Benzo[b]fluoranthene	ng/l	21 ± 1.85	15 ± 1.5	3.58	71.3	-1.71
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 1.1	4.3	82	-0.91
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10 ± 1	3.16	82.3	-0.89
Chrysene	ng/l	20.1 ± 2.16	20 ± 2	5.22	99.6	-0.02
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	10 ± 1	3.55	84.6	-0.57
Fluoranthene	ng/l	12.5 ± 0.92	12 ± 1.2	2.26	95.7	-0.21
Fluorene	ng/l	13 ± 0.921	16 ± 1.6	1.82	123	0.90
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	6 ± 0.6	2.65	63.4	-2.01
Naphthalene	ng/l	28.5 ± 2.52	41 ± 4.1	5.99	144	1.45
Phenanthrene	ng/l	14.7 ± 1.3	19 ± 1.9	2.2	129	1.07
Pyrene	ng/l	10.9 ± 1.15	10 ± 1	1.75	91.5	-0.40

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	210 ± 21	30.9	129	0.99
Acenaphthylene	ng/l	81.6 ± 12.2	100 ± 10	30.2	123	0.78
Anthracene	ng/l	137 ± 23.8	180 ± 18	57.6	131	0.99
Benzo[a]anthracene	ng/l	161 ± 18	150 ± 15	33.8	93.1	-0.32
Benzo[a]pyrene	ng/l	152 ± 15	110 ± 11	36.5	72.4	-1.57
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	57 ± 5.7	11.5	84.3	-0.83
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	50 ± 5	18	89	-0.54
Benzo[k]fluoranthene	ng/l	116 ± 8.71	110 ± 11	30.2	94.8	-0.26
Chrysene	ng/l	56.3 ± 5.69	62 ± 6.2	14.7	110	0.41
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	52 ± 5.2	25.7	60.7	-1.73

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	82 ± 8.2	23.1	114
Fluorene	ng/l	186 ± 24.1	260 ± 26	26	140
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	100 ± 10	35.9	89.2
Naphthalene	ng/l	168 ± 28.1	240 ± 24	35.2	143
Phenanthrene	ng/l	76.4 ± 14.3	110 ± 11	32.1	144
Pyrene	ng/l	79.4 ± 8.28	86 ± 8.6	12.7	108



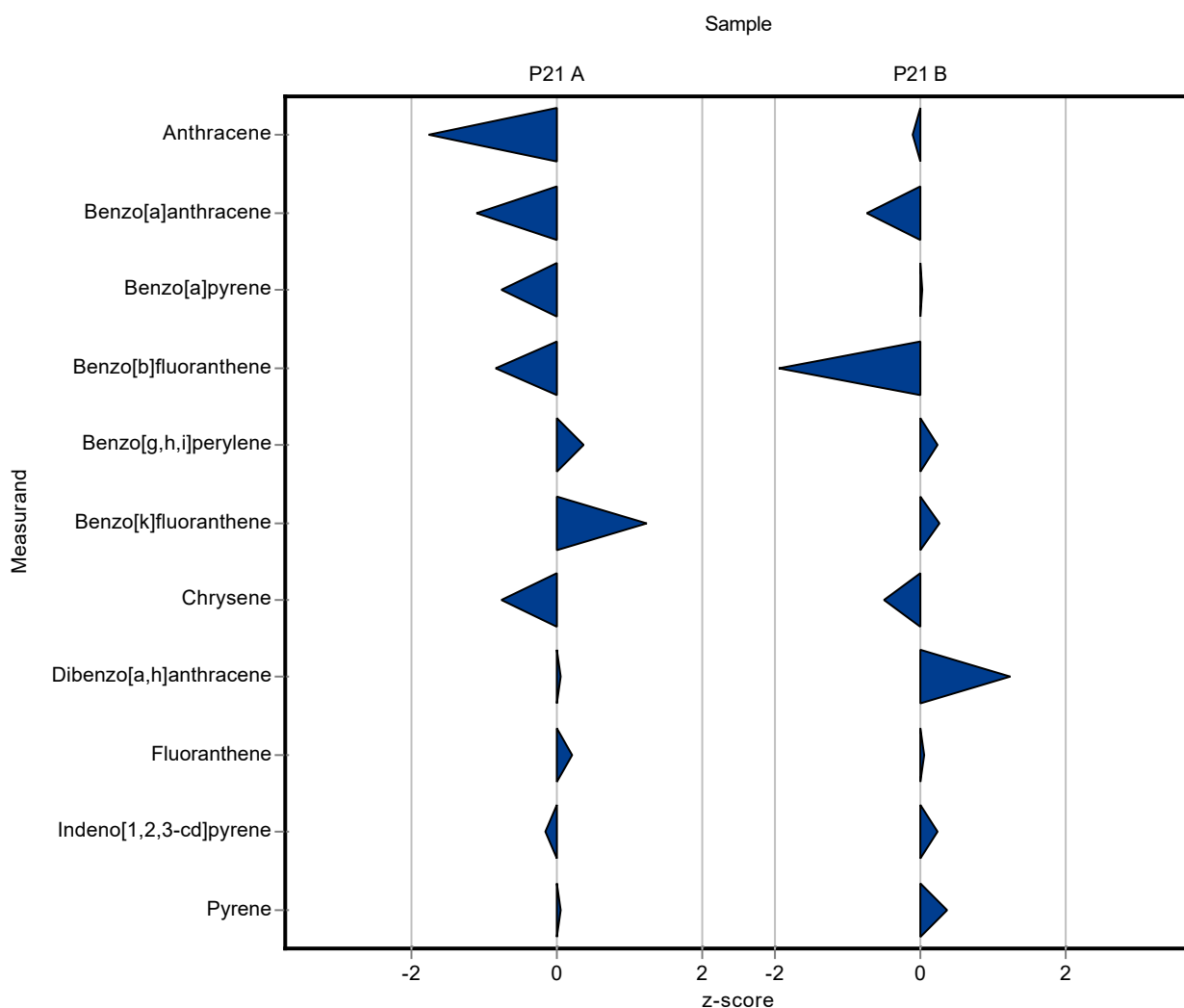
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	8 ± 3.5	2.89	61	-1.77
Benzo[a]anthracene	ng/l	14.4 ± 1.7	11 ± 4.8	3.02	76.4	-1.12
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9 ± 4	2.66	81.3	-0.78
Benzo[b]fluoranthene	ng/l	21 ± 1.85	18 ± 7.9	3.58	85.5	-0.85
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15 ± 6.6	4.3	112	0.37
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	16 ± 7	3.16	132	1.22
Chrysene	ng/l	20.1 ± 2.16	16 ± 7	5.22	79.7	-0.78
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12 ± 5.3	3.55	101	0.05
Fluoranthene	ng/l	12.5 ± 0.92	13 ± 5.7	2.26	104	0.20
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9 ± 4	2.65	95.1	-0.17
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	11 ± 4.8	1.75	101	0.04

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	130 ± 57.2	57.6	94.7	-0.13
Benzo[a]anthracene	ng/l	161 ± 18	136 ± 59.8	33.8	84.4	-0.74
Benzo[a]pyrene	ng/l	152 ± 15	152 ± 66.9	36.5	100	0.00
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	45 ± 19.8	11.5	66.5	-1.97
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	60 ± 26.4	18	107	0.21
Benzo[k]fluoranthene	ng/l	116 ± 8.71	124 ± 54.6	30.2	107	0.26
Chrysene	ng/l	56.3 ± 5.69	49 ± 21.6	14.7	87	-0.50
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	117 ± 51.5	25.7	137	1.22

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	73 ± 32.1	23.1	101	0.04
Fluorene	ng/l	186 ± 24.1	- ± -	26	-	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	120 ± 52.8	35.9	107	0.22
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-	-
Pyrene	ng/l	79.4 ± 8.28	84 ± 37	12.7	106	0.36



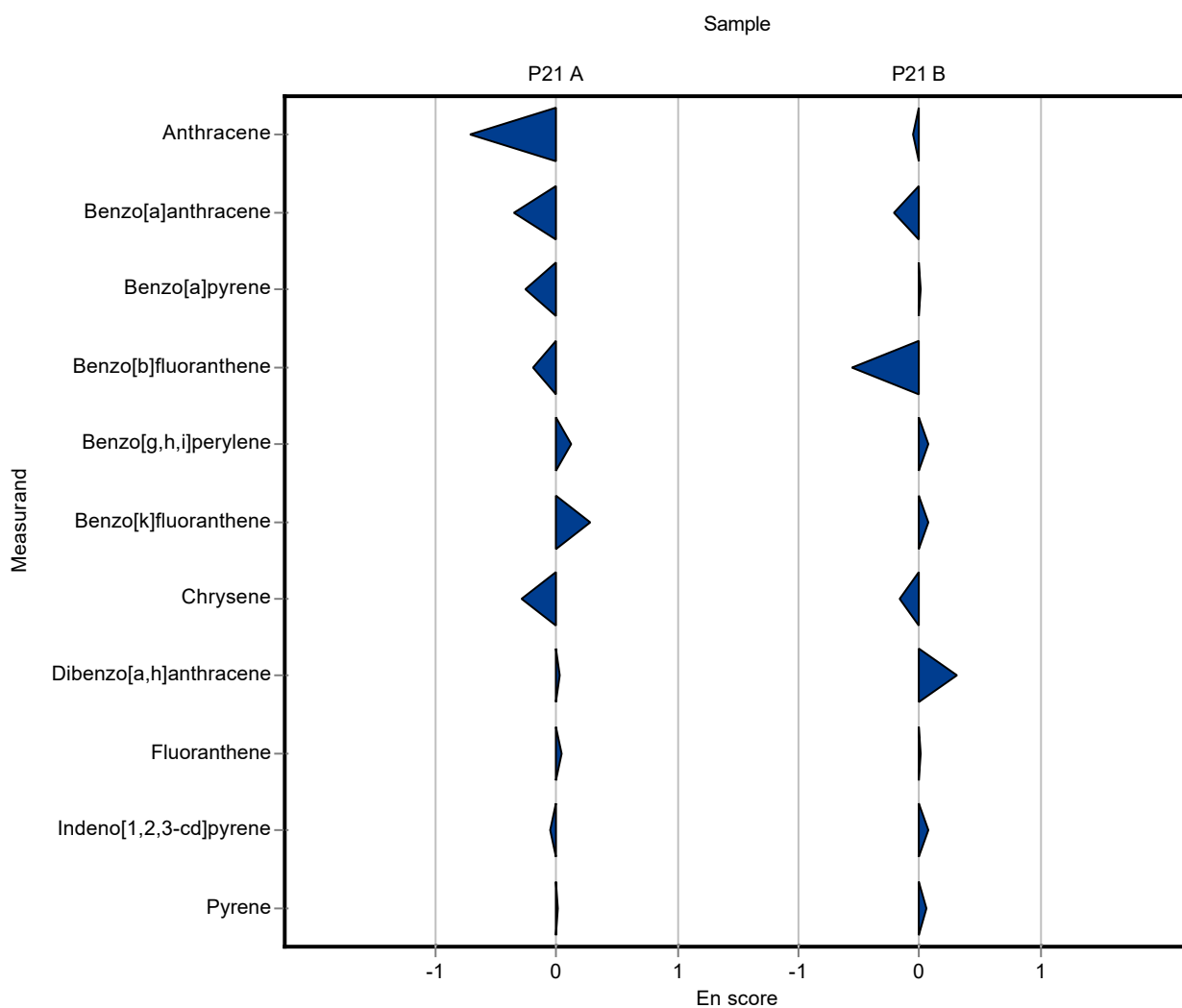
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	8 ± 3.5	2.89	61	-0.72
Benzo[a]anthracene	ng/l	14.4 ± 1.7	11 ± 4.8	3.02	76.4	-0.35
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9 ± 4	2.66	81.3	-0.25
Benzo[b]fluoranthene	ng/l	21 ± 1.85	18 ± 7.9	3.58	85.5	-0.19
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15 ± 6.6	4.3	112	0.12
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	16 ± 7	3.16	132	0.27
Chrysene	ng/l	20.1 ± 2.16	16 ± 7	5.22	79.7	-0.29
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12 ± 5.3	3.55	101	0.02
Fluoranthene	ng/l	12.5 ± 0.92	13 ± 5.7	2.26	104	0.04
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9 ± 4	2.65	95.1	-0.06
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	11 ± 4.8	1.75	101	0.01

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	130 ± 57.2	57.6	94.7	-0.06
Benzo[a]anthracene	ng/l	161 ± 18	136 ± 59.8	33.8	84.4	-0.21
Benzo[a]pyrene	ng/l	152 ± 15	152 ± 66.9	36.5	100	0.00
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	45 ± 19.8	11.5	66.5	-0.56
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	60 ± 26.4	18	107	0.07
Benzo[k]fluoranthene	ng/l	116 ± 8.71	124 ± 54.6	30.2	107	0.07
Chrysene	ng/l	56.3 ± 5.69	49 ± 21.6	14.7	87	-0.17
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	117 ± 51.5	25.7	137	0.30

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	73 ± 32.1	23.1	101	0.01
Fluorene	ng/l	186 ± 24.1	- ± -	26	-	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	120 ± 52.8	35.9	107	0.07
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-	-
Pyrene	ng/l	79.4 ± 8.28	84 ± 37	12.7	106	0.06



Sample: P21A

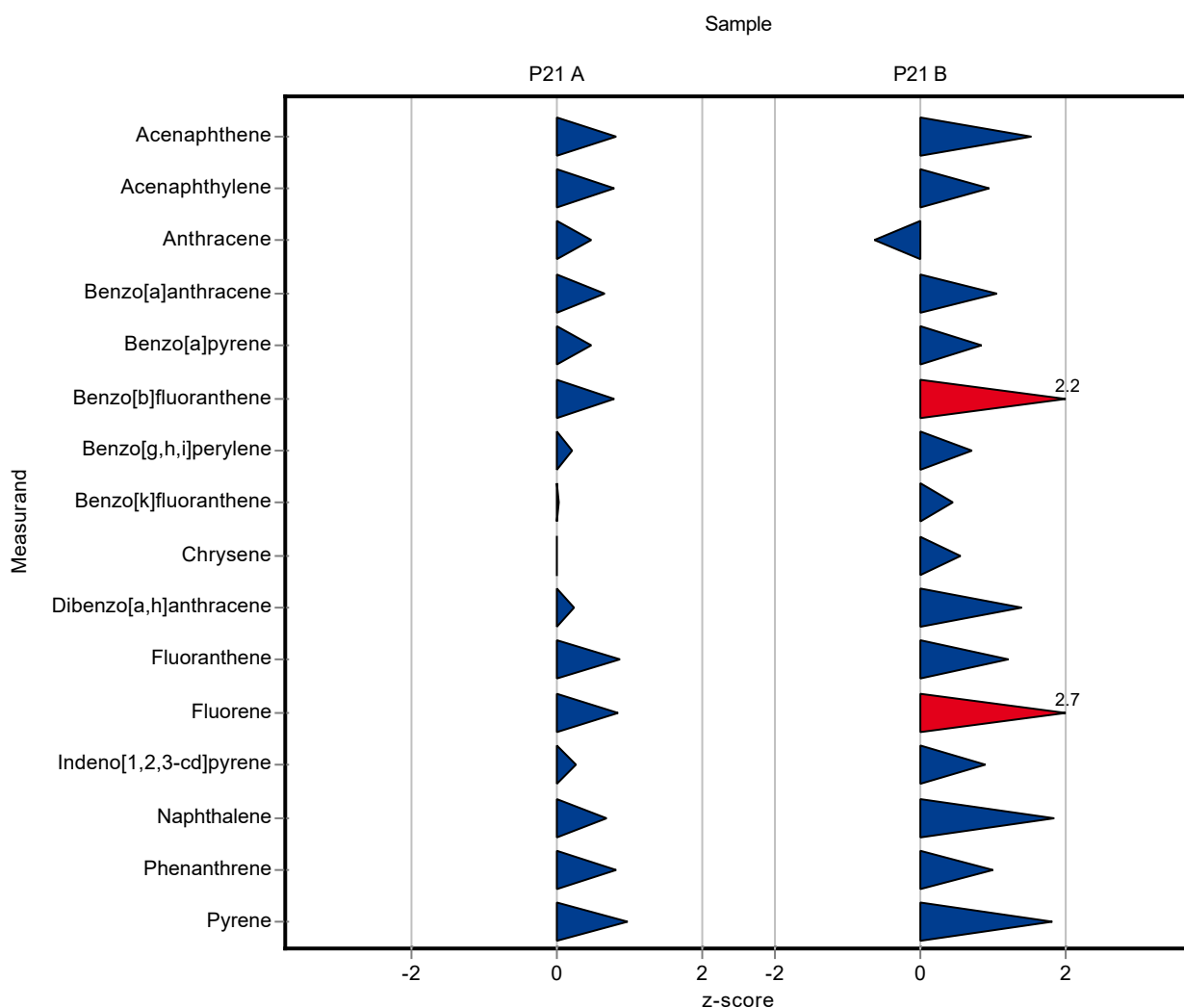
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	18 ± 2.25	2.96	115	0.81
Acenaphthylene	ng/l	16.8 ± 1.73	19.48 ± 2.435	3.52	116	0.77
Anthracene	ng/l	13.1 ± 1.28	14.41 ± 2.161	2.89	110	0.45
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.37 ± 2.456	3.02	114	0.65
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.3 ± 2.153	2.66	111	0.46
Benzo[b]fluoranthene	ng/l	21 ± 1.85	23.79 ± 4.164	3.58	113	0.77
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	14.31 ± 2.505	4.3	107	0.21
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	12.21 ± 2.136	3.16	100	0.02
Chrysene	ng/l	20.1 ± 2.16	19.96 ± 2.994	5.22	99.4	-0.02
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12.64 ± 2.212	3.55	107	0.23
Fluoranthene	ng/l	12.5 ± 0.92	14.5 ± 2.176	2.26	116	0.87
Fluorene	ng/l	13 ± 0.921	14.5 ± 1.813	1.82	111	0.82
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.15 ± 1.776	2.65	107	0.26
Naphthalene	ng/l	28.5 ± 2.52	32.55 ± 4.069	5.99	114	0.67
Phenanthrene	ng/l	14.7 ± 1.3	16.47 ± 2.47	2.2	112	0.81
Pyrene	ng/l	10.9 ± 1.15	12.59 ± 1.889	1.75	115	0.95

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	209.54 ± 26.19	30.9	129	1.52
Acenaphthylene	ng/l	81.6 ± 12.2	109.48 ± 13.69	30.2	134	0.92
Anthracene	ng/l	137 ± 23.8	99.62 ± 14.94	57.6	72.6	-0.65
Benzo[a]anthracene	ng/l	161 ± 18	196.26 ± 29.44	33.8	122	1.04
Benzo[a]pyrene	ng/l	152 ± 15	181.99 ± 31.85	36.5	120	0.82
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	93.11 ± 16.29	11.5	138	2.21
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	68.94 ± 12.06	18	123	0.71
Benzo[k]fluoranthene	ng/l	116 ± 8.71	129.51 ± 22.66	30.2	112	0.45
Chrysene	ng/l	56.3 ± 5.69	64.23 ± 9.63	14.7	114	0.54
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	120.98 ± 21.17	25.7	141	1.37



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	99.47 ± 14.92	23.1	138	1.19
Fluorene	ng/l	186 ± 24.1	257.29 ± 32.16	26	138	2.74
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	143.31 ± 25.08	35.9	128	0.87
Naphthalene	ng/l	168 ± 28.1	231.92 ± 28.99	35.2	138	1.83
Phenanthrene	ng/l	76.4 ± 14.3	107.71 ± 16.16	32.1	141	0.97
Pyrene	ng/l	79.4 ± 8.28	102.23 ± 15.34	12.7	129	1.80



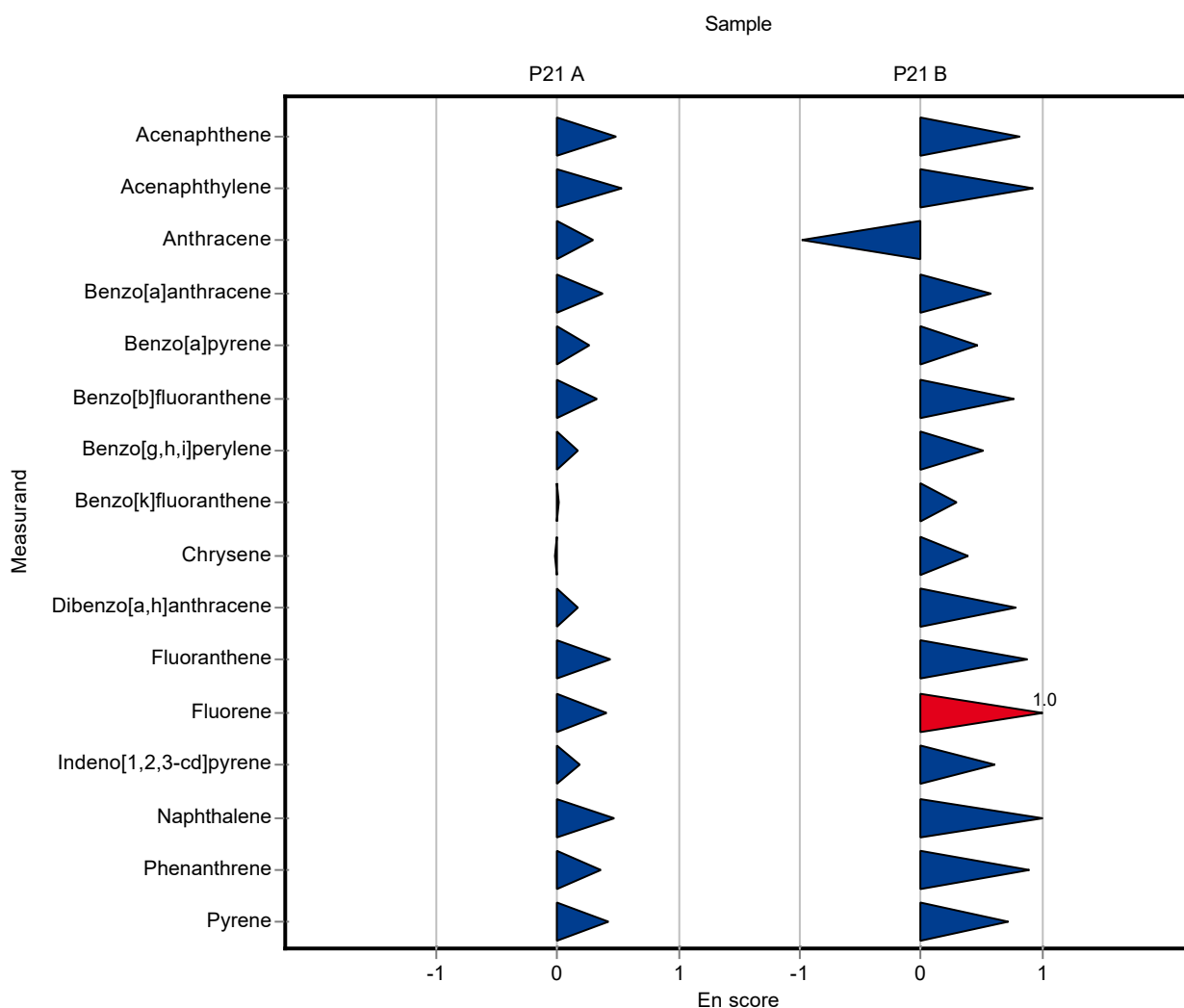
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	18 ± 2.25	2.96	115	0.49
Acenaphthylene	ng/l	16.8 ± 1.73	19.48 ± 2.435	3.52	116	0.52
Anthracene	ng/l	13.1 ± 1.28	14.41 ± 2.161	2.89	110	0.29
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.37 ± 2.456	3.02	114	0.38
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.3 ± 2.153	2.66	111	0.26
Benzo[b]fluoranthene	ng/l	21 ± 1.85	23.79 ± 4.164	3.58	113	0.32
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	14.31 ± 2.505	4.3	107	0.17
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	12.21 ± 2.136	3.16	100	0.01
Chrysene	ng/l	20.1 ± 2.16	19.96 ± 2.994	5.22	99.4	-0.02
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12.64 ± 2.212	3.55	107	0.16
Fluoranthene	ng/l	12.5 ± 0.92	14.5 ± 2.176	2.26	116	0.44
Fluorene	ng/l	13 ± 0.921	14.5 ± 1.813	1.82	111	0.40
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.15 ± 1.776	2.65	107	0.18
Naphthalene	ng/l	28.5 ± 2.52	32.55 ± 4.069	5.99	114	0.47
Phenanthrene	ng/l	14.7 ± 1.3	16.47 ± 2.47	2.2	112	0.35
Pyrene	ng/l	10.9 ± 1.15	12.59 ± 1.889	1.75	115	0.42

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	209.54 ± 26.19	30.9	129	0.82
Acenaphthylene	ng/l	81.6 ± 12.2	109.48 ± 13.69	30.2	134	0.93
Anthracene	ng/l	137 ± 23.8	99.62 ± 14.94	57.6	72.6	-0.98
Benzo[a]anthracene	ng/l	161 ± 18	196.26 ± 29.44	33.8	122	0.57
Benzo[a]pyrene	ng/l	152 ± 15	181.99 ± 31.85	36.5	120	0.46
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	93.11 ± 16.29	11.5	138	0.77
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	68.94 ± 12.06	18	123	0.52
Benzo[k]fluoranthene	ng/l	116 ± 8.71	129.51 ± 22.66	30.2	112	0.29
Chrysene	ng/l	56.3 ± 5.69	64.23 ± 9.63	14.7	114	0.39
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	120.98 ± 21.17	25.7	141	0.78

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	99.47 ± 14.92	23.1	138
Fluorene	ng/l	186 ± 24.1	257.29 ± 32.16	26	138
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	143.31 ± 25.08	35.9	128
Naphthalene	ng/l	168 ± 28.1	231.92 ± 28.99	35.2	138
Phenanthrene	ng/l	76.4 ± 14.3	107.71 ± 16.16	32.1	141
Pyrene	ng/l	79.4 ± 8.28	102.23 ± 15.34	12.7	129



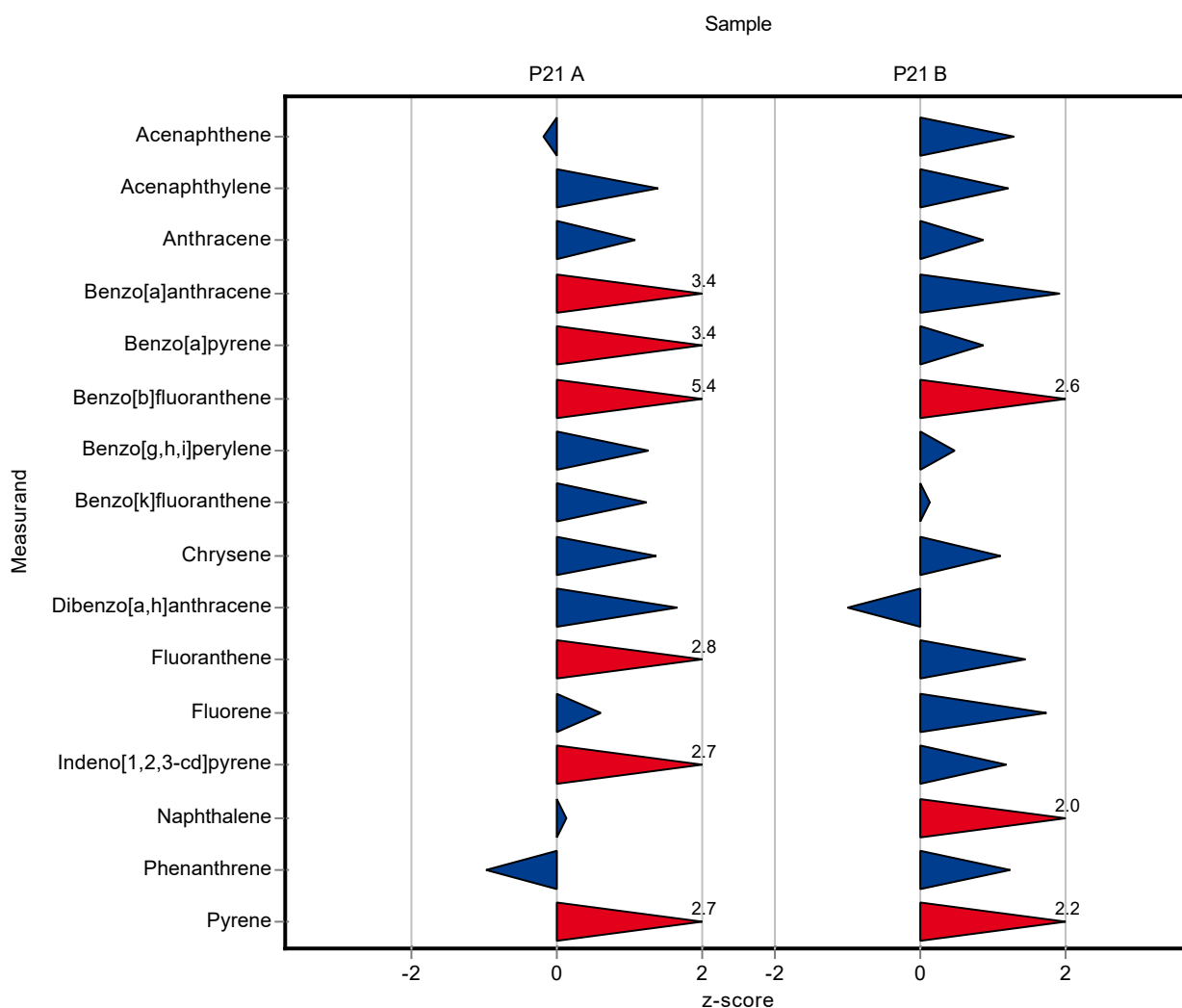
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 4.5	2.96	96.2	-0.20
Acenaphthylene	ng/l	16.8 ± 1.73	21.6 ± 6.5	3.52	129	1.37
Anthracene	ng/l	13.1 ± 1.28	16.2 ± 4.9	2.89	124	1.07
Benzo[a]anthracene	ng/l	14.4 ± 1.7	24.7 ± 7.4	3.02	172	3.41
Benzo[a]pyrene	ng/l	11.1 ± 1.88	20.1 ± 6	2.66	181	3.39
Benzo[b]fluoranthene	ng/l	21 ± 1.85	40.5 ± 12	3.58	192	5.44
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	18.8 ± 5.6	4.3	140	1.25
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	16 ± 4.8	3.16	132	1.22
Chrysene	ng/l	20.1 ± 2.16	27.1 ± 8.1	5.22	135	1.34
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	17.7 ± 5.3	3.55	150	1.66
Fluoranthene	ng/l	12.5 ± 0.92	18.9 ± 5.7	2.26	151	2.82
Fluorene	ng/l	13 ± 0.921	14.1 ± 4.2	1.82	108	0.60
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	16.5 ± 5	2.65	174	2.66
Naphthalene	ng/l	28.5 ± 2.52	29.2 ± 8.8	5.99	102	0.11
Phenanthrene	ng/l	14.7 ± 1.3	12.5 ± 3.8	2.2	85.1	-0.99
Pyrene	ng/l	10.9 ± 1.15	15.6 ± 4.7	1.75	143	2.67

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	202 ± 61	30.9	124	1.27
Acenaphthylene	ng/l	81.6 ± 12.2	118 ± 36	30.2	145	1.20
Anthracene	ng/l	137 ± 23.8	187 ± 56	57.6	136	0.86
Benzo[a]anthracene	ng/l	161 ± 18	226 ± 68	33.8	140	1.92
Benzo[a]pyrene	ng/l	152 ± 15	183 ± 55	36.5	120	0.85
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	97.6 ± 29	11.5	144	2.60
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	64.7 ± 19	18	115	0.47
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 36	30.2	103	0.13
Chrysene	ng/l	56.3 ± 5.69	72.3 ± 22	14.7	128	1.09
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	59.5 ± 18	25.7	69.4	-1.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	105 ± 31	23.1	146	1.43
Fluorene	ng/l	186 ± 24.1	231 ± 69	26	124	1.73
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	154 ± 46	35.9	137	1.17
Naphthalene	ng/l	168 ± 28.1	239 ± 72	35.2	143	2.03
Phenanthrene	ng/l	76.4 ± 14.3	116 ± 35	32.1	152	1.23
Pyrene	ng/l	79.4 ± 8.28	107 ± 33	12.7	135	2.17



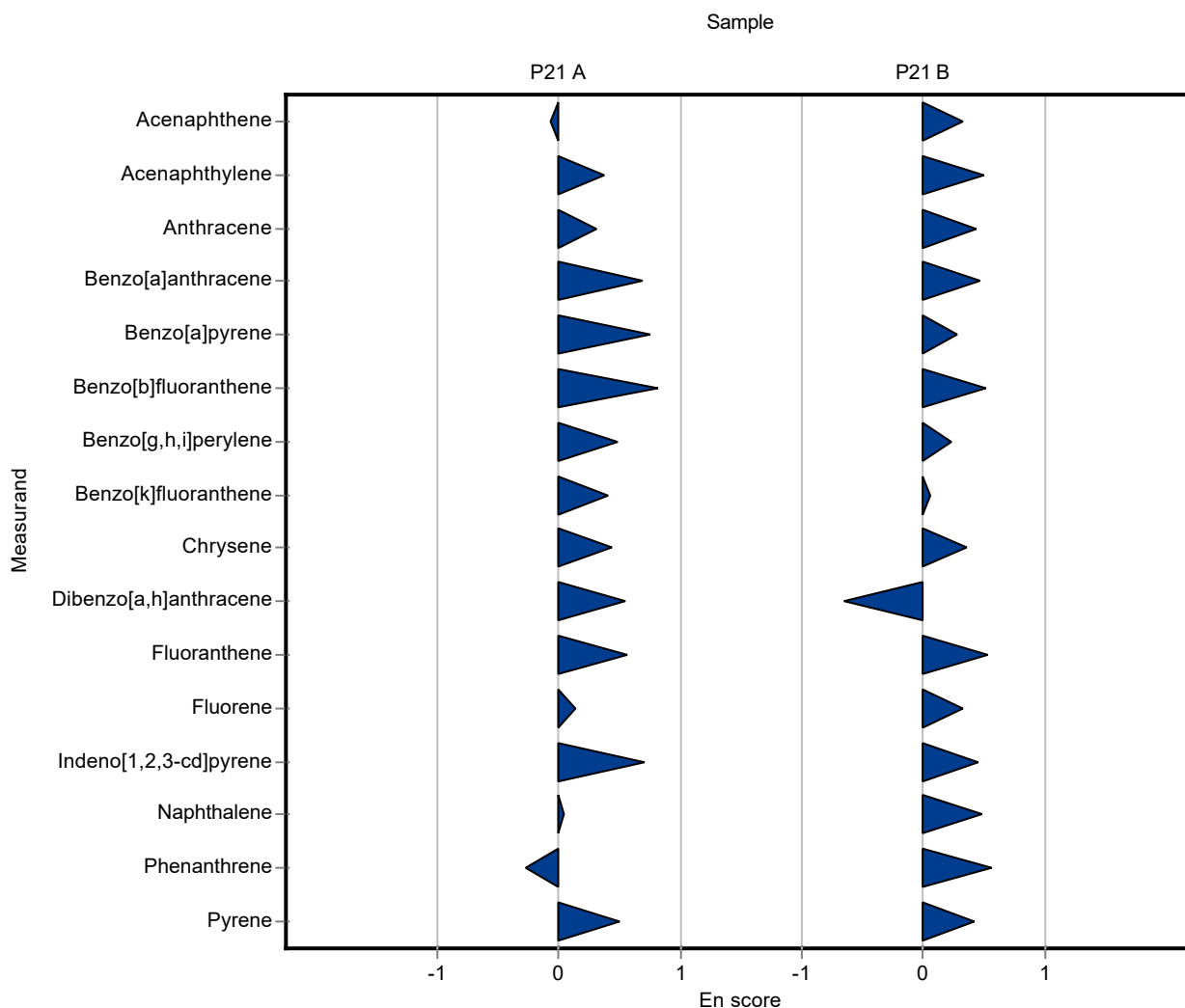
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	15 ± 4.5	2.96	96.2	-0.06
Acenaphthylene	ng/l	16.8 ± 1.73	21.6 ± 6.5	3.52	129	0.37
Anthracene	ng/l	13.1 ± 1.28	16.2 ± 4.9	2.89	124	0.31
Benzo[a]anthracene	ng/l	14.4 ± 1.7	24.7 ± 7.4	3.02	172	0.69
Benzo[a]pyrene	ng/l	11.1 ± 1.88	20.1 ± 6	2.66	181	0.74
Benzo[b]fluoranthene	ng/l	21 ± 1.85	40.5 ± 12	3.58	192	0.81
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	18.8 ± 5.6	4.3	140	0.48
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	16 ± 4.8	3.16	132	0.40
Chrysene	ng/l	20.1 ± 2.16	27.1 ± 8.1	5.22	135	0.43
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	17.7 ± 5.3	3.55	150	0.54
Fluoranthene	ng/l	12.5 ± 0.92	18.9 ± 5.7	2.26	151	0.56
Fluorene	ng/l	13 ± 0.921	14.1 ± 4.2	1.82	108	0.13
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	16.5 ± 5	2.65	174	0.70
Naphthalene	ng/l	28.5 ± 2.52	29.2 ± 8.8	5.99	102	0.04
Phenanthrene	ng/l	14.7 ± 1.3	12.5 ± 3.8	2.2	85.1	-0.28
Pyrene	ng/l	10.9 ± 1.15	15.6 ± 4.7	1.75	143	0.49

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	202 ± 61	30.9	124	0.32
Acenaphthylene	ng/l	81.6 ± 12.2	118 ± 36	30.2	145	0.50
Anthracene	ng/l	137 ± 23.8	187 ± 56	57.6	136	0.43
Benzo[a]anthracene	ng/l	161 ± 18	226 ± 68	33.8	140	0.47
Benzo[a]pyrene	ng/l	152 ± 15	183 ± 55	36.5	120	0.28
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	97.6 ± 29	11.5	144	0.51
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	64.7 ± 19	18	115	0.22
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 36	30.2	103	0.05
Chrysene	ng/l	56.3 ± 5.69	72.3 ± 22	14.7	128	0.36
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	59.5 ± 18	25.7	69.4	-0.66

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	105 ± 31	23.1	146
Fluorene	ng/l	186 ± 24.1	231 ± 69	26	124
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	154 ± 46	35.9	137
Naphthalene	ng/l	168 ± 28.1	239 ± 72	35.2	143
Phenanthrene	ng/l	76.4 ± 14.3	116 ± 35	32.1	152
Pyrene	ng/l	79.4 ± 8.28	107 ± 33	12.7	135



Sample: P21A

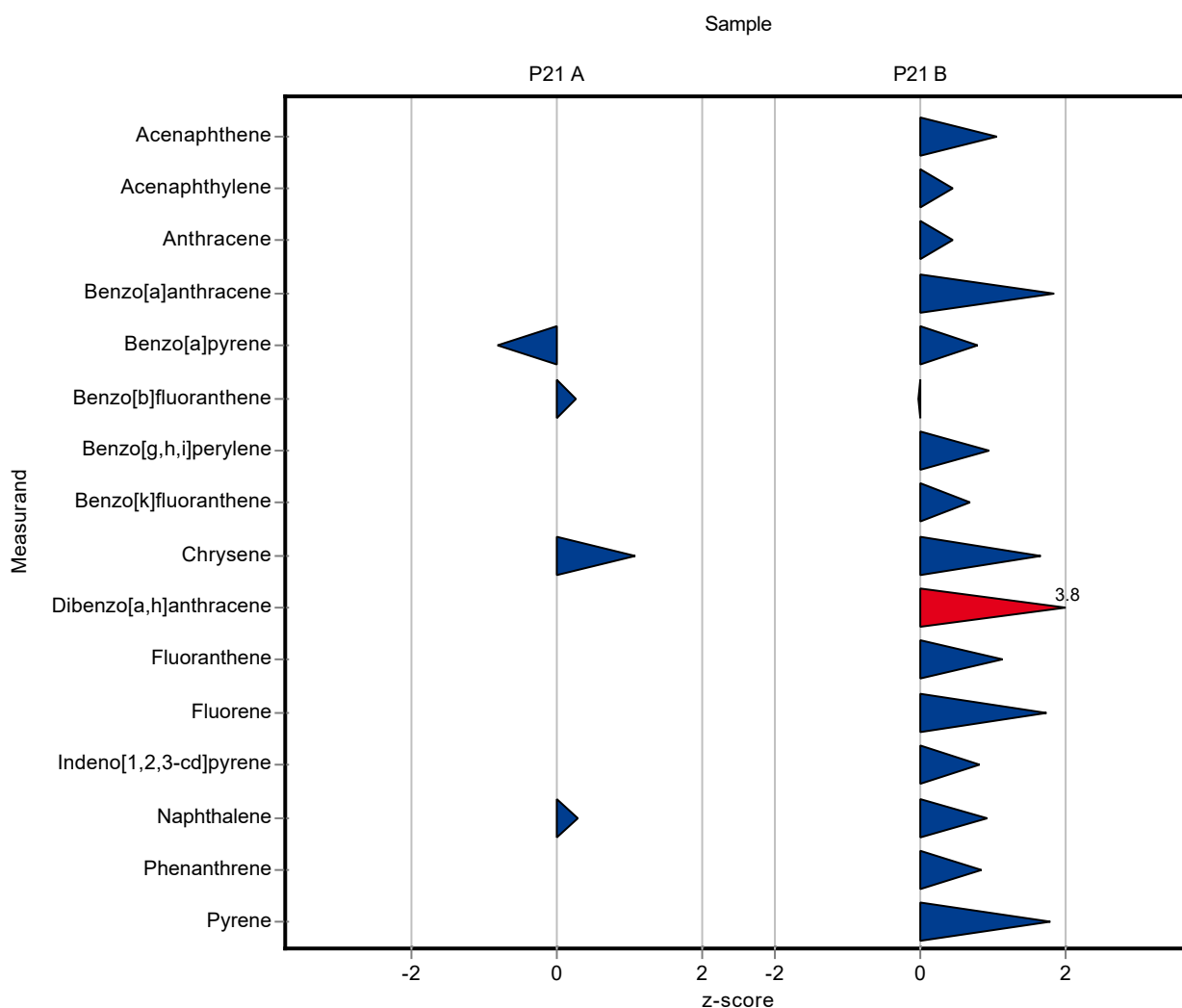
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<25 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<25 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<25 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<25 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	8.9 ± 1.8	2.66	80.3	-0.82
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.9 ± 4.4	3.58	104	0.24
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<25 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<25 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	25.7 ± 5.1	5.22	128	1.08
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<25 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<25 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<25 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<25 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	30.1 ± 6	5.99	106	0.26
Phenanthrene	ng/l	14.7 ± 1.3	<25 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<25 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	195 ± 39	30.9	120	1.05
Acenaphthylene	ng/l	81.6 ± 12.2	94.4 ± 18.9	30.2	116	0.42
Anthracene	ng/l	137 ± 23.8	163 ± 33	57.6	119	0.45
Benzo[a]anthracene	ng/l	161 ± 18	223 ± 45	33.8	138	1.83
Benzo[a]pyrene	ng/l	152 ± 15	180 ± 36	36.5	118	0.77
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	67.1 ± 13.4	11.5	99.2	-0.05
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	73 ± 14.6	18	130	0.93
Benzo[k]fluoranthene	ng/l	116 ± 8.71	136 ± 27	30.2	117	0.66
Chrysene	ng/l	56.3 ± 5.69	80.5 ± 16.1	14.7	143	1.65
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	183 ± 37	25.7	214	3.79



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	98.1 ± 19.6	23.1	136	1.13
Fluorene	ng/l	186 ± 24.1	231 ± 46	26	124	1.73
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	141 ± 28	35.9	126	0.81
Naphthalene	ng/l	168 ± 28.1	199 ± 40	35.2	119	0.90
Phenanthrene	ng/l	76.4 ± 14.3	103 ± 21	32.1	135	0.83
Pyrene	ng/l	79.4 ± 8.28	102 ± 20	12.7	128	1.78



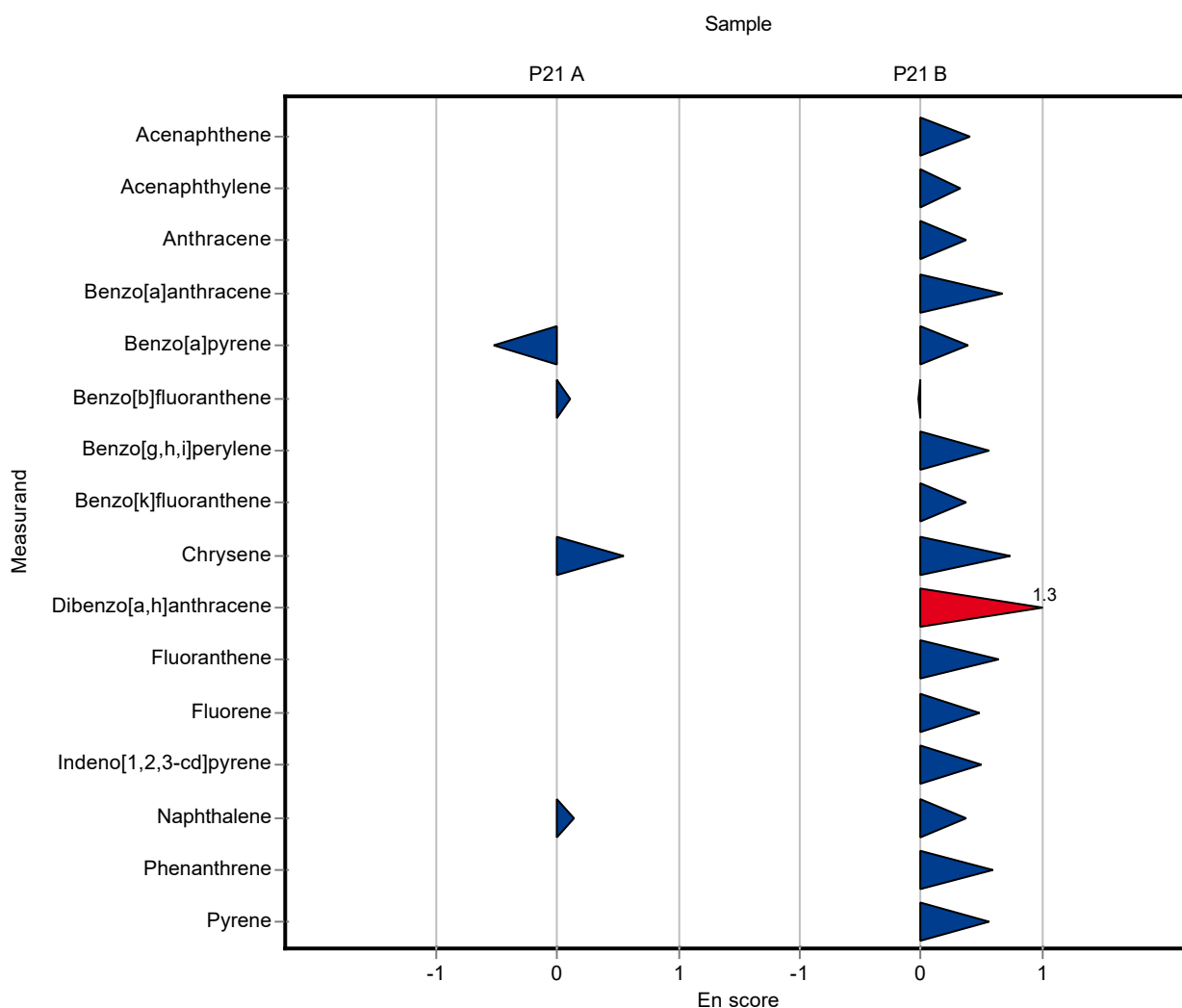
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<25 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<25 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<25 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<25 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	8.9 ± 1.8	2.66	80.3	-0.54
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.9 ± 4.4	3.58	104	0.10
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<25 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<25 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	25.7 ± 5.1	5.22	128	0.54
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<25 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<25 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<25 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<25 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	30.1 ± 6	5.99	106	0.13
Phenanthrene	ng/l	14.7 ± 1.3	<25 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<25 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	195 ± 39	30.9	120	0.40
Acenaphthylene	ng/l	81.6 ± 12.2	94.4 ± 18.9	30.2	116	0.32
Anthracene	ng/l	137 ± 23.8	163 ± 33	57.6	119	0.37
Benzo[a]anthracene	ng/l	161 ± 18	223 ± 45	33.8	138	0.68
Benzo[a]pyrene	ng/l	152 ± 15	180 ± 36	36.5	118	0.38
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	67.1 ± 13.4	11.5	99.2	-0.02
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	73 ± 14.6	18	130	0.56
Benzo[k]fluoranthene	ng/l	116 ± 8.71	136 ± 27	30.2	117	0.36
Chrysene	ng/l	56.3 ± 5.69	80.5 ± 16.1	14.7	143	0.74
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	183 ± 37	25.7	214	1.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	98.1 ± 19.6	23.1	136
Fluorene	ng/l	186 ± 24.1	231 ± 46	26	124
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	141 ± 28	35.9	126
Naphthalene	ng/l	168 ± 28.1	199 ± 40	35.2	119
Phenanthrene	ng/l	76.4 ± 14.3	103 ± 21	32.1	135
Pyrene	ng/l	79.4 ± 8.28	102 ± 20	12.7	128



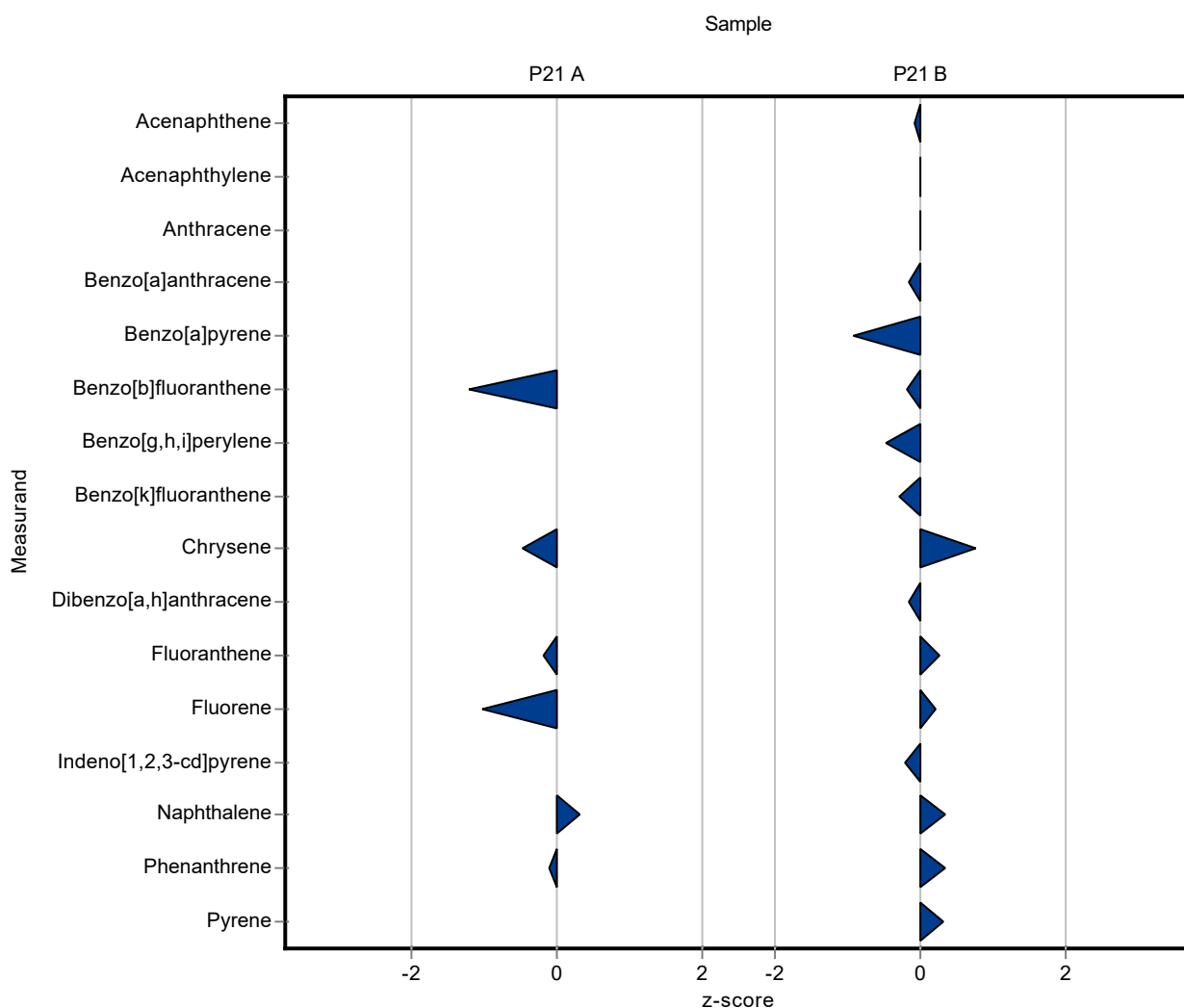
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<10 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<10 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<10 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<10 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<10 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	16.7 ± 1.22	3.58	79.3	-1.21
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<10 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<10 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	17.5 ± 1.53	5.22	87.1	-0.49
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	12.1 ± 2.48	2.26	96.5	-0.20
Fluorene	ng/l	13 ± 0.921	11.1 ± 2.73	1.82	85.3	-1.05
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	30.4 ± 1.94	5.99	107	0.31
Phenanthrene	ng/l	14.7 ± 1.3	14.4 ± 2.43	2.2	98.1	-0.13
Pyrene	ng/l	10.9 ± 1.15	<10 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	160 ± 3.39	30.9	98.4	-0.09
Acenaphthylene	ng/l	81.6 ± 12.2	81.3 ± 4.81	30.2	99.6	-0.01
Anthracene	ng/l	137 ± 23.8	136 ± 2.21	57.6	99.1	-0.02
Benzo[a]anthracene	ng/l	161 ± 18	155 ± 2.55	33.8	96.2	-0.18
Benzo[a]pyrene	ng/l	152 ± 15	118 ± 3.32	36.5	77.7	-0.93
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	65.4 ± 2.35	11.5	96.7	-0.20
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	47.3 ± 3.42	18	84.2	-0.49
Benzo[k]fluoranthene	ng/l	116 ± 8.71	107 ± 2.3	30.2	92.2	-0.30
Chrysene	ng/l	56.3 ± 5.69	67.4 ± 2.98	14.7	120	0.76
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	81.2 ± 2.23	25.7	94.8	-0.17

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	77.7 ± 4.7	23.1	108	0.24
Fluorene	ng/l	186 ± 24.1	191 ± 5.83	26	103	0.20
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	104 ± 2.31	35.9	92.8	-0.23
Naphthalene	ng/l	168 ± 28.1	179 ± 4.8	35.2	107	0.33
Phenanthrene	ng/l	76.4 ± 14.3	86.8 ± 4.64	32.1	114	0.32
Pyrene	ng/l	79.4 ± 8.28	83.4 ± 3.93	12.7	105	0.31



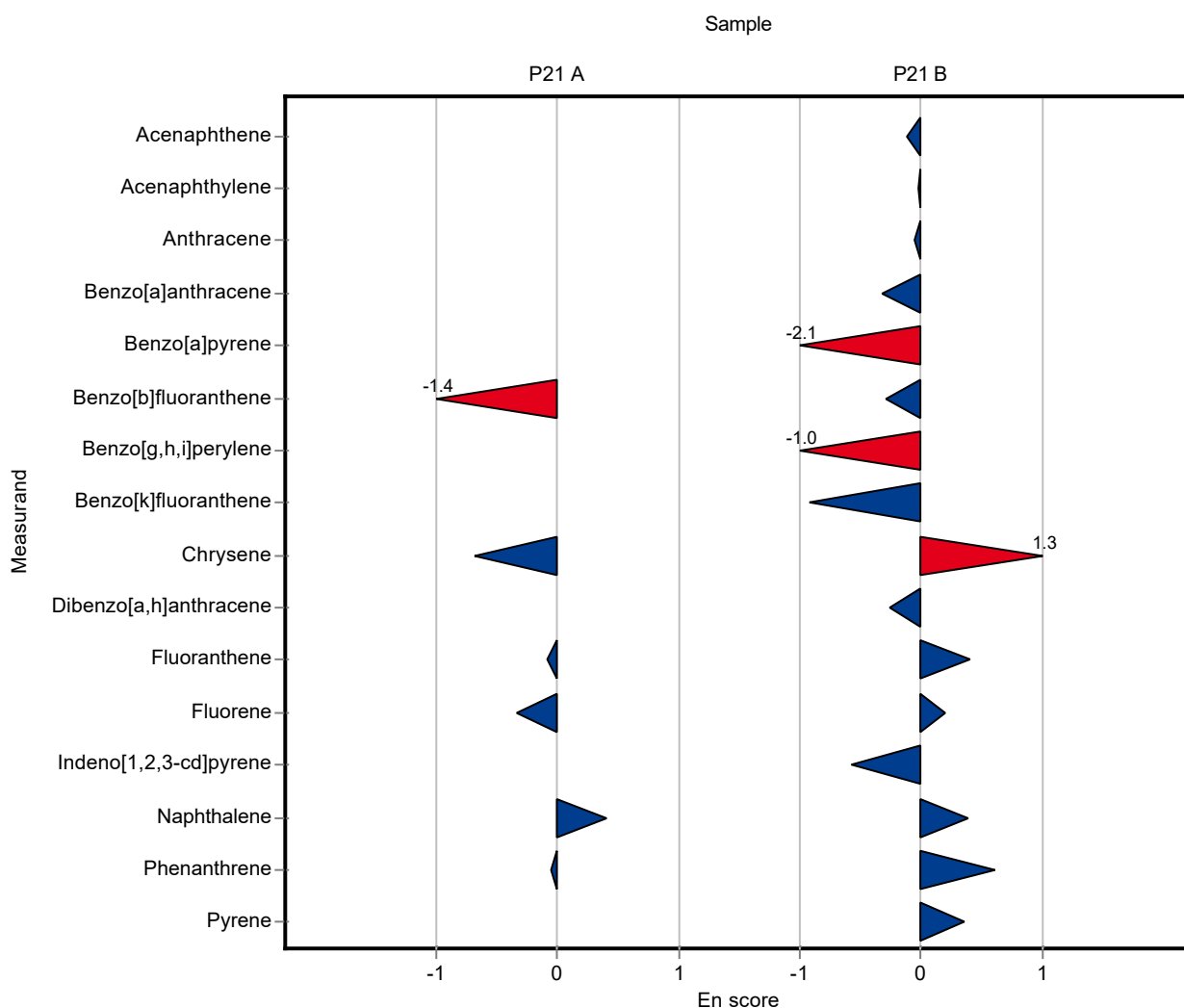
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<10 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<10 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<10 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<10 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<10 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	16.7 ± 1.22	3.58	79.3	-1.42
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<10 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<10 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	17.5 ± 1.53	5.22	87.1	-0.69
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	12.1 ± 2.48	2.26	96.5	-0.09
Fluorene	ng/l	13 ± 0.921	11.1 ± 2.73	1.82	85.3	-0.34
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	30.4 ± 1.94	5.99	107	0.41
Phenanthrene	ng/l	14.7 ± 1.3	14.4 ± 2.43	2.2	98.1	-0.06
Pyrene	ng/l	10.9 ± 1.15	<10 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	160 ± 3.39	30.9	98.4	-0.11
Acenaphthylene	ng/l	81.6 ± 12.2	81.3 ± 4.81	30.2	99.6	-0.02
Anthracene	ng/l	137 ± 23.8	136 ± 2.21	57.6	99.1	-0.05
Benzo[a]anthracene	ng/l	161 ± 18	155 ± 2.55	33.8	96.2	-0.32
Benzo[a]pyrene	ng/l	152 ± 15	118 ± 3.32	36.5	77.7	-2.07
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	65.4 ± 2.35	11.5	96.7	-0.30
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	47.3 ± 3.42	18	84.2	-1.01
Benzo[k]fluoranthene	ng/l	116 ± 8.71	107 ± 2.3	30.2	92.2	-0.92
Chrysene	ng/l	56.3 ± 5.69	67.4 ± 2.98	14.7	120	1.34
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	81.2 ± 2.23	25.7	94.8	-0.26

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	77.7 ± 4.7	23.1	108
Fluorene	ng/l	186 ± 24.1	191 ± 5.83	26	103
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	104 ± 2.31	35.9	92.8
Naphthalene	ng/l	168 ± 28.1	179 ± 4.8	35.2	107
Phenanthrene	ng/l	76.4 ± 14.3	86.8 ± 4.64	32.1	114
Pyrene	ng/l	79.4 ± 8.28	83.4 ± 3.93	12.7	105



Sample: P21A

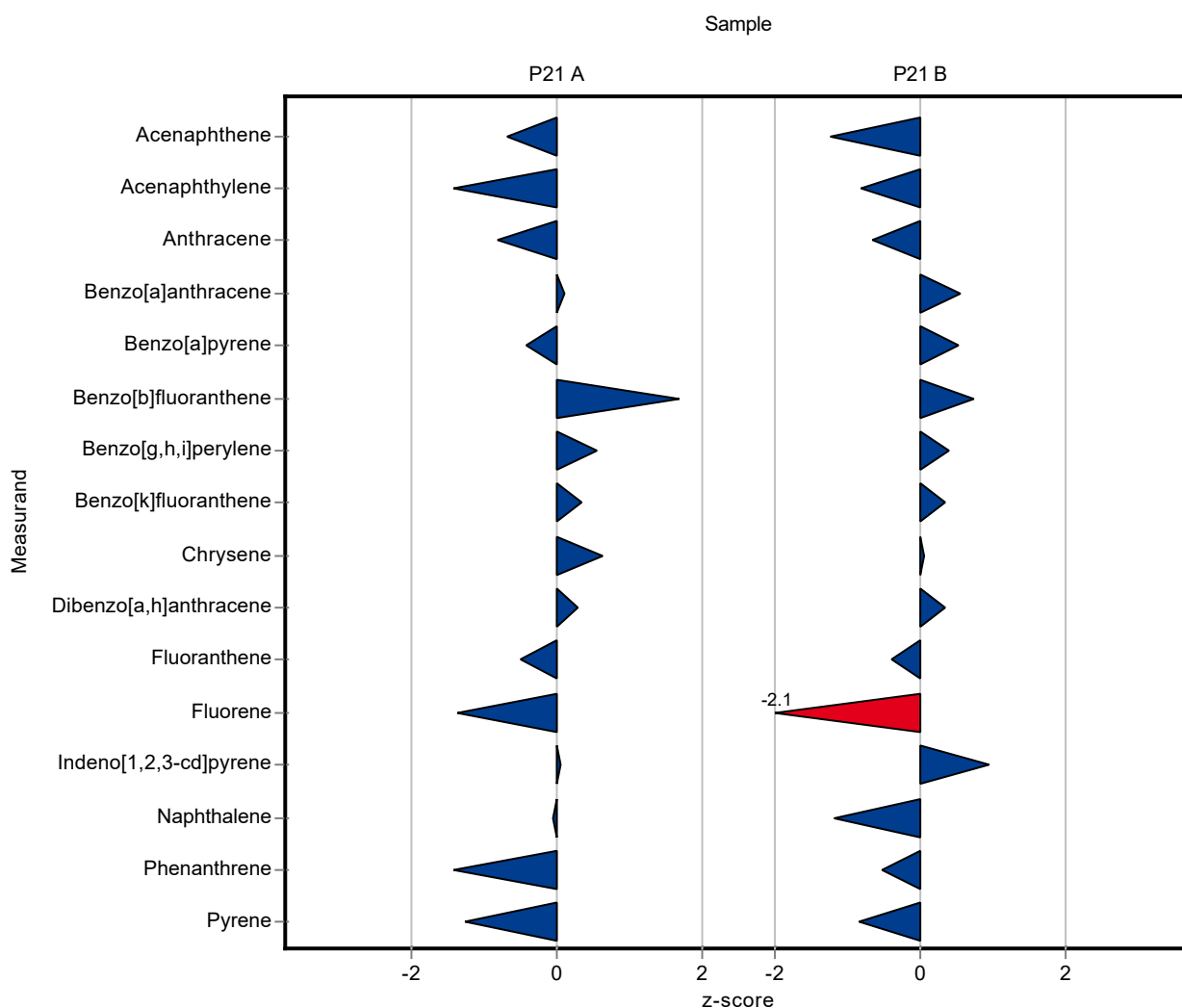
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	13.5 ± 2.5	2.96	86.6	-0.71
Acenaphthylene	ng/l	16.8 ± 1.73	11.7 ± 2.5	3.52	69.7	-1.44
Anthracene	ng/l	13.1 ± 1.28	10.7 ± 2.5	2.89	81.6	-0.84
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.7 ± 3	3.02	102	0.10
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9.89 ± 2.5	2.66	89.3	-0.45
Benzo[b]fluoranthene	ng/l	21 ± 1.85	27 ± 5	3.58	128	1.66
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.7 ± 3	4.3	117	0.53
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.2 ± 2.5	3.16	109	0.33
Chrysene	ng/l	20.1 ± 2.16	23.3 ± 5	5.22	116	0.62
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12.8 ± 2.5	3.55	108	0.27
Fluoranthene	ng/l	12.5 ± 0.92	11.4 ± 2.5	2.26	90.9	-0.51
Fluorene	ng/l	13 ± 0.921	10.5 ± 2.5	1.82	80.7	-1.38
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.57 ± 2.5	2.65	101	0.04
Naphthalene	ng/l	28.5 ± 2.52	28.2 ± 5	5.99	98.9	-0.05
Phenanthrene	ng/l	14.7 ± 1.3	11.5 ± 2.5	2.2	78.3	-1.45
Pyrene	ng/l	10.9 ± 1.15	8.71 ± 2	1.75	79.7	-1.27

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	124 ± 25	30.9	76.2	-1.25
Acenaphthylene	ng/l	81.6 ± 12.2	56.6 ± 10	30.2	69.3	-0.83
Anthracene	ng/l	137 ± 23.8	98.9 ± 20	57.6	72.1	-0.67
Benzo[a]anthracene	ng/l	161 ± 18	179 ± 30	33.8	111	0.53
Benzo[a]pyrene	ng/l	152 ± 15	171 ± 30	36.5	113	0.52
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	75.9 ± 20	11.5	112	0.72
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.2 ± 15	18	112	0.39
Benzo[k]fluoranthene	ng/l	116 ± 8.71	126 ± 25	30.2	109	0.33
Chrysene	ng/l	56.3 ± 5.69	56.8 ± 15	14.7	101	0.03
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	94 ± 20	25.7	110	0.32



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	62.6 ± 15	23.1	86.8	-0.41
Fluorene	ng/l	186 ± 24.1	132 ± 30	26	71	-2.07
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	146 ± 35	35.9	130	0.94
Naphthalene	ng/l	168 ± 28.1	125 ± 25	35.2	74.6	-1.21
Phenanthrene	ng/l	76.4 ± 14.3	58.8 ± 15	32.1	76.9	-0.55
Pyrene	ng/l	79.4 ± 8.28	68.7 ± 15	12.7	86.5	-0.84



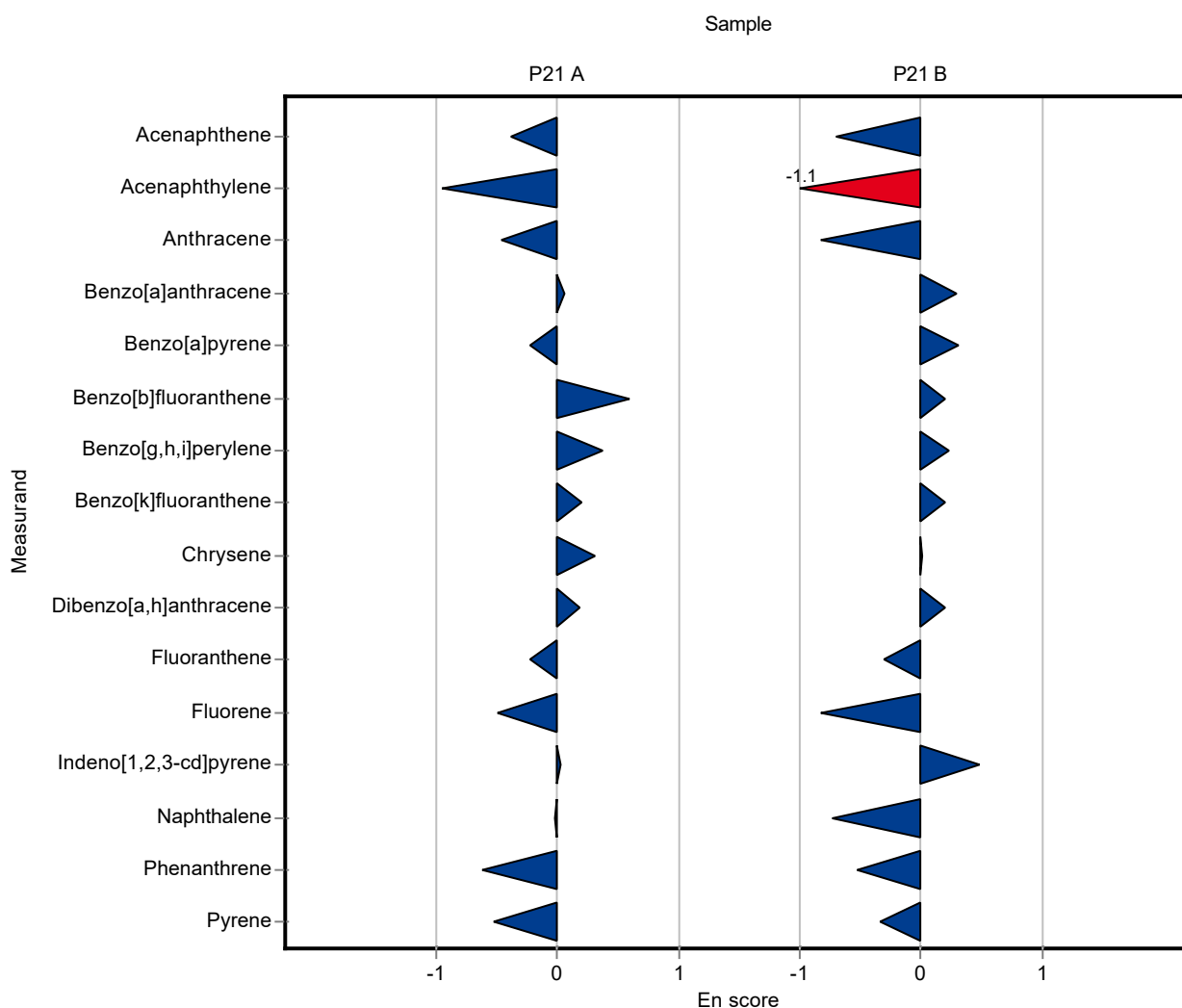
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	13.5 ± 2.5	2.96	86.6	-0.39
Acenaphthylene	ng/l	16.8 ± 1.73	11.7 ± 2.5	3.52	69.7	-0.96
Anthracene	ng/l	13.1 ± 1.28	10.7 ± 2.5	2.89	81.6	-0.47
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.7 ± 3	3.02	102	0.05
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9.89 ± 2.5	2.66	89.3	-0.22
Benzo[b]fluoranthene	ng/l	21 ± 1.85	27 ± 5	3.58	128	0.58
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.7 ± 3	4.3	117	0.37
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.2 ± 2.5	3.16	109	0.20
Chrysene	ng/l	20.1 ± 2.16	23.3 ± 5	5.22	116	0.31
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	12.8 ± 2.5	3.55	108	0.17
Fluoranthene	ng/l	12.5 ± 0.92	11.4 ± 2.5	2.26	90.9	-0.22
Fluorene	ng/l	13 ± 0.921	10.5 ± 2.5	1.82	80.7	-0.49
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9.57 ± 2.5	2.65	101	0.02
Naphthalene	ng/l	28.5 ± 2.52	28.2 ± 5	5.99	98.9	-0.03
Phenanthrene	ng/l	14.7 ± 1.3	11.5 ± 2.5	2.2	78.3	-0.62
Pyrene	ng/l	10.9 ± 1.15	8.71 ± 2	1.75	79.7	-0.53

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	124 ± 25	30.9	76.2	-0.70
Acenaphthylene	ng/l	81.6 ± 12.2	56.6 ± 10	30.2	69.3	-1.07
Anthracene	ng/l	137 ± 23.8	98.9 ± 20	57.6	72.1	-0.82
Benzo[a]anthracene	ng/l	161 ± 18	179 ± 30	33.8	111	0.29
Benzo[a]pyrene	ng/l	152 ± 15	171 ± 30	36.5	113	0.31
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	75.9 ± 20	11.5	112	0.20
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.2 ± 15	18	112	0.23
Benzo[k]fluoranthene	ng/l	116 ± 8.71	126 ± 25	30.2	109	0.20
Chrysene	ng/l	56.3 ± 5.69	56.8 ± 15	14.7	101	0.01
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	94 ± 20	25.7	110	0.19

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	62.6 ± 15	23.1	86.8 -0.30
Fluorene	ng/l	186 ± 24.1	132 ± 30	26	71 -0.83
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	146 ± 35	35.9	130 0.48
Naphthalene	ng/l	168 ± 28.1	125 ± 25	35.2	74.6 -0.74
Phenanthrene	ng/l	76.4 ± 14.3	58.8 ± 15	32.1	76.9 -0.53
Pyrene	ng/l	79.4 ± 8.28	68.7 ± 15	12.7	86.5 -0.34



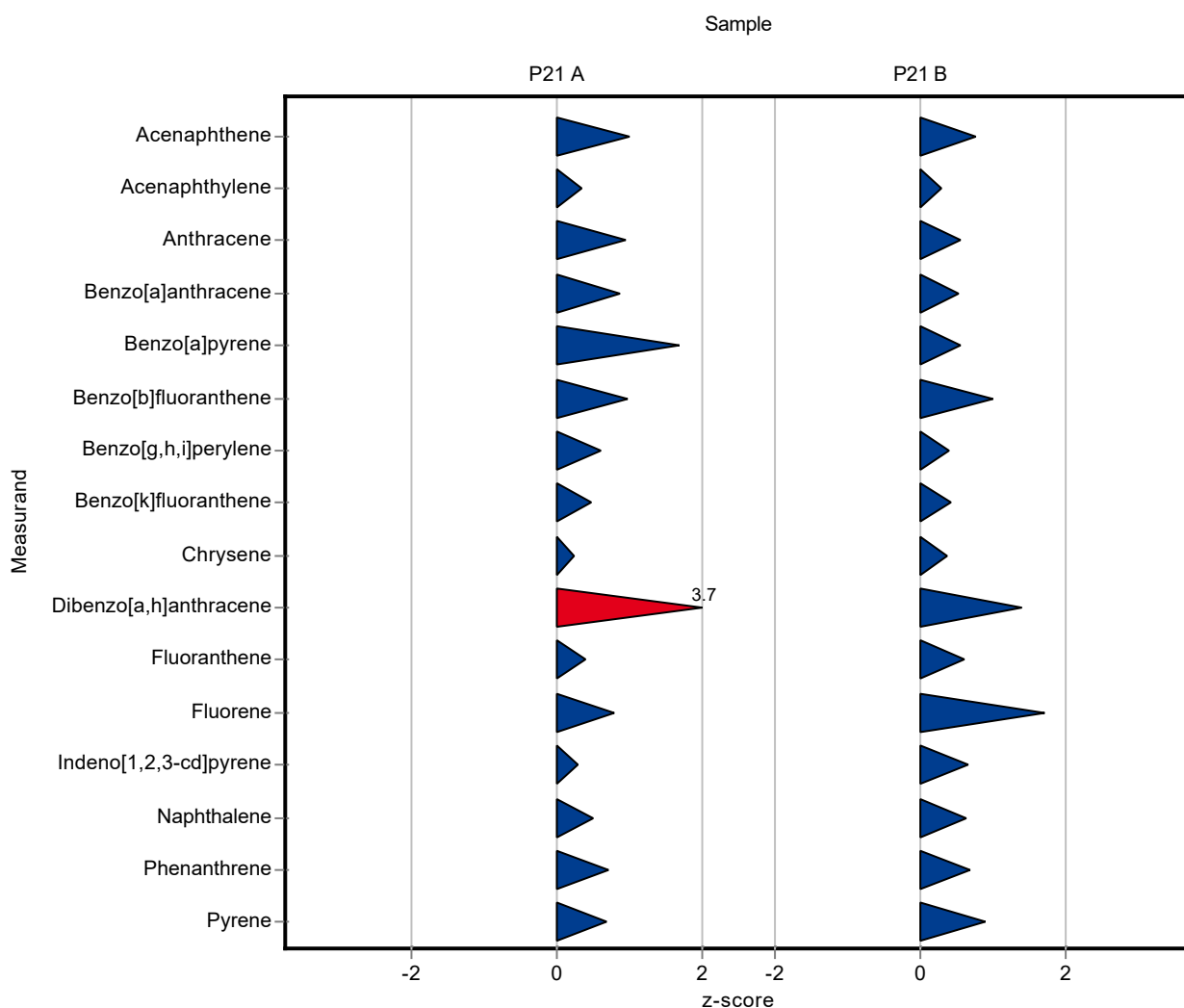
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	18.5 ± 0.071	2.96	119	0.98
Acenaphthylene	ng/l	16.8 ± 1.73	17.9 ± 0.283	3.52	107	0.32
Anthracene	ng/l	13.1 ± 1.28	15.8 ± 0.354	2.89	120	0.93
Benzo[a]anthracene	ng/l	14.4 ± 1.7	17 ± 0.354	3.02	118	0.86
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.5 ± 0.707	2.66	140	1.66
Benzo[b]fluoranthene	ng/l	21 ± 1.85	24.5 ± 0.141	3.58	116	0.96
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	16 ± 0.778	4.3	119	0.60
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.6 ± 0.071	3.16	112	0.46
Chrysene	ng/l	20.1 ± 2.16	21.3 ± 0.071	5.22	106	0.23
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	24.9 ± 1.202	3.55	211	3.68
Fluoranthene	ng/l	12.5 ± 0.92	13.4 ± 0.141	2.26	107	0.38
Fluorene	ng/l	13 ± 0.921	14.4 ± 0.071	1.82	111	0.77
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.2 ± 0.707	2.65	108	0.28
Naphthalene	ng/l	28.5 ± 2.52	31.5 ± 0.7	5.99	110	0.50
Phenanthrene	ng/l	14.7 ± 1.3	16.2 ± 0.071	2.2	110	0.69
Pyrene	ng/l	10.9 ± 1.15	12.1 ± 0.7	1.75	111	0.67

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	186 ± 7.778	30.9	114	0.76
Acenaphthylene	ng/l	81.6 ± 12.2	90.3 ± 3.323	30.2	111	0.29
Anthracene	ng/l	137 ± 23.8	168 ± 2.828	57.6	122	0.53
Benzo[a]anthracene	ng/l	161 ± 18	178 ± 0.707	33.8	111	0.50
Benzo[a]pyrene	ng/l	152 ± 15	172 ± 2.121	36.5	113	0.55
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	78.9 ± 0.495	11.5	117	0.98
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.2 ± 2.475	18	112	0.39
Benzo[k]fluoranthene	ng/l	116 ± 8.71	128 ± 1.414	30.2	110	0.40
Chrysene	ng/l	56.3 ± 5.69	61.6 ± 0.354	14.7	109	0.36
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	121 ± 1.414	25.7	141	1.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	85.8 ± 0.141	23.1	119	0.59
Fluorene	ng/l	186 ± 24.1	230 ± 10.607	26	124	1.70
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	135 ± 5.657	35.9	120	0.64
Naphthalene	ng/l	168 ± 28.1	189 ± 9.899	35.2	113	0.61
Phenanthrene	ng/l	76.4 ± 14.3	97.9 ± 2.192	32.1	128	0.67
Pyrene	ng/l	79.4 ± 8.28	90.5 ± 0.071	12.7	114	0.87



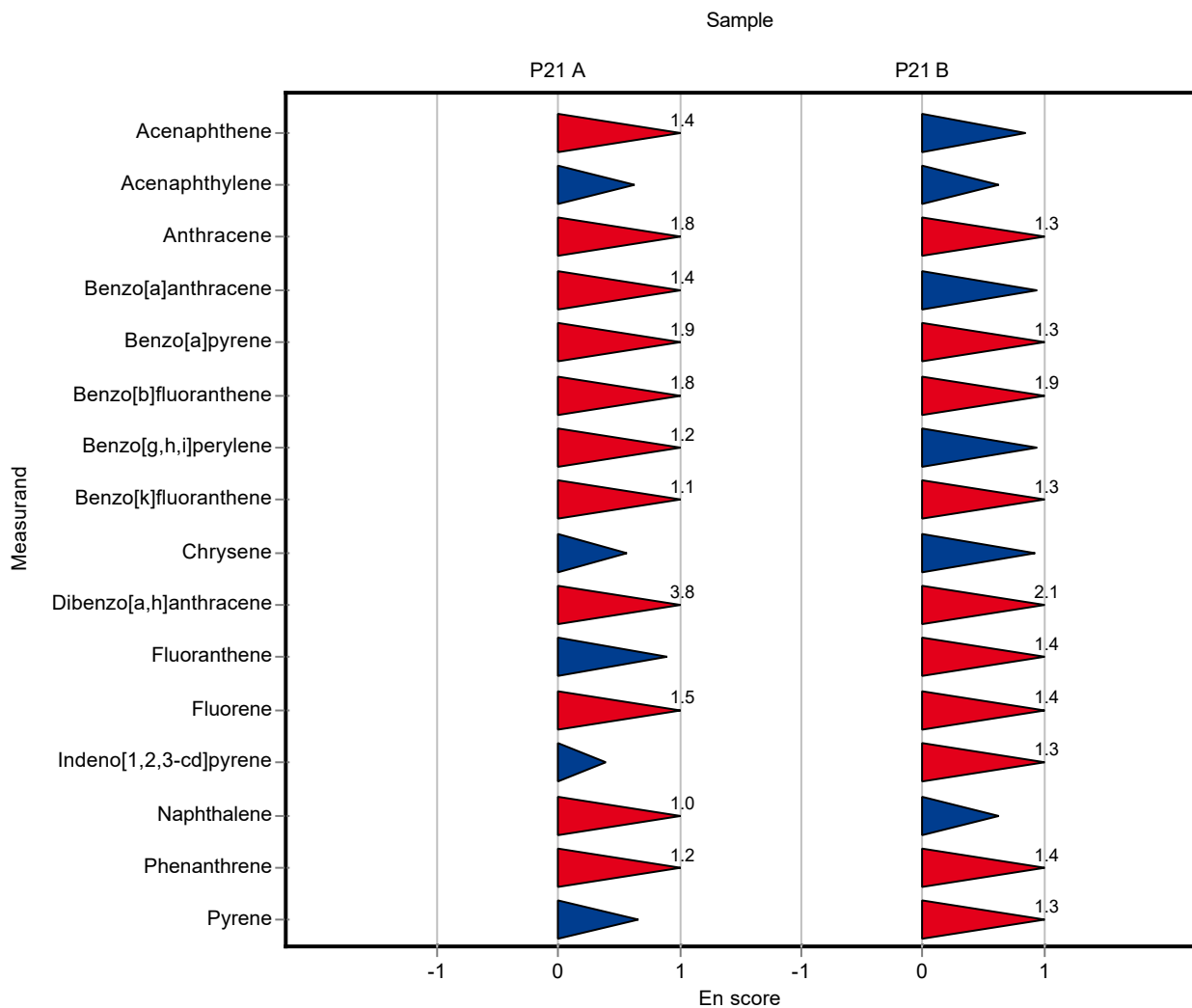
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	18.5 ± 0.071	2.96	119	1.42
Acenaphthylene	ng/l	16.8 ± 1.73	17.9 ± 0.283	3.52	107	0.62
Anthracene	ng/l	13.1 ± 1.28	15.8 ± 0.354	2.89	120	1.84
Benzo[a]anthracene	ng/l	14.4 ± 1.7	17 ± 0.354	3.02	118	1.41
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.5 ± 0.707	2.66	140	1.88
Benzo[b]fluoranthene	ng/l	21 ± 1.85	24.5 ± 0.141	3.58	116	1.84
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	16 ± 0.778	4.3	119	1.19
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.6 ± 0.071	3.16	112	1.06
Chrysene	ng/l	20.1 ± 2.16	21.3 ± 0.071	5.22	106	0.56
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	24.9 ± 1.202	3.55	211	3.79
Fluoranthene	ng/l	12.5 ± 0.92	13.4 ± 0.141	2.26	107	0.89
Fluorene	ng/l	13 ± 0.921	14.4 ± 0.071	1.82	111	1.50
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	10.2 ± 0.707	2.65	108	0.39
Naphthalene	ng/l	28.5 ± 2.52	31.5 ± 0.7	5.99	110	1.03
Phenanthrene	ng/l	14.7 ± 1.3	16.2 ± 0.071	2.2	110	1.16
Pyrene	ng/l	10.9 ± 1.15	12.1 ± 0.7	1.75	111	0.65

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	186 ± 7.778	30.9	114	0.85
Acenaphthylene	ng/l	81.6 ± 12.2	90.3 ± 3.323	30.2	111	0.62
Anthracene	ng/l	137 ± 23.8	168 ± 2.828	57.6	122	1.26
Benzo[a]anthracene	ng/l	161 ± 18	178 ± 0.707	33.8	111	0.94
Benzo[a]pyrene	ng/l	152 ± 15	172 ± 2.121	36.5	113	1.29
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	78.9 ± 0.495	11.5	117	1.86
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.2 ± 2.475	18	112	0.94
Benzo[k]fluoranthene	ng/l	116 ± 8.71	128 ± 1.414	30.2	110	1.30
Chrysene	ng/l	56.3 ± 5.69	61.6 ± 0.354	14.7	109	0.92
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	121 ± 1.414	25.7	141	2.11

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	85.8 ± 0.141	23.1	119
Fluorene	ng/l	186 ± 24.1	230 ± 10.607	26	124
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	135 ± 5.657	35.9	120
Naphthalene	ng/l	168 ± 28.1	189 ± 9.899	35.2	113
Phenanthrene	ng/l	76.4 ± 14.3	97.9 ± 2.192	32.1	128
Pyrene	ng/l	79.4 ± 8.28	90.5 ± 0.071	12.7	114



Sample: P21A

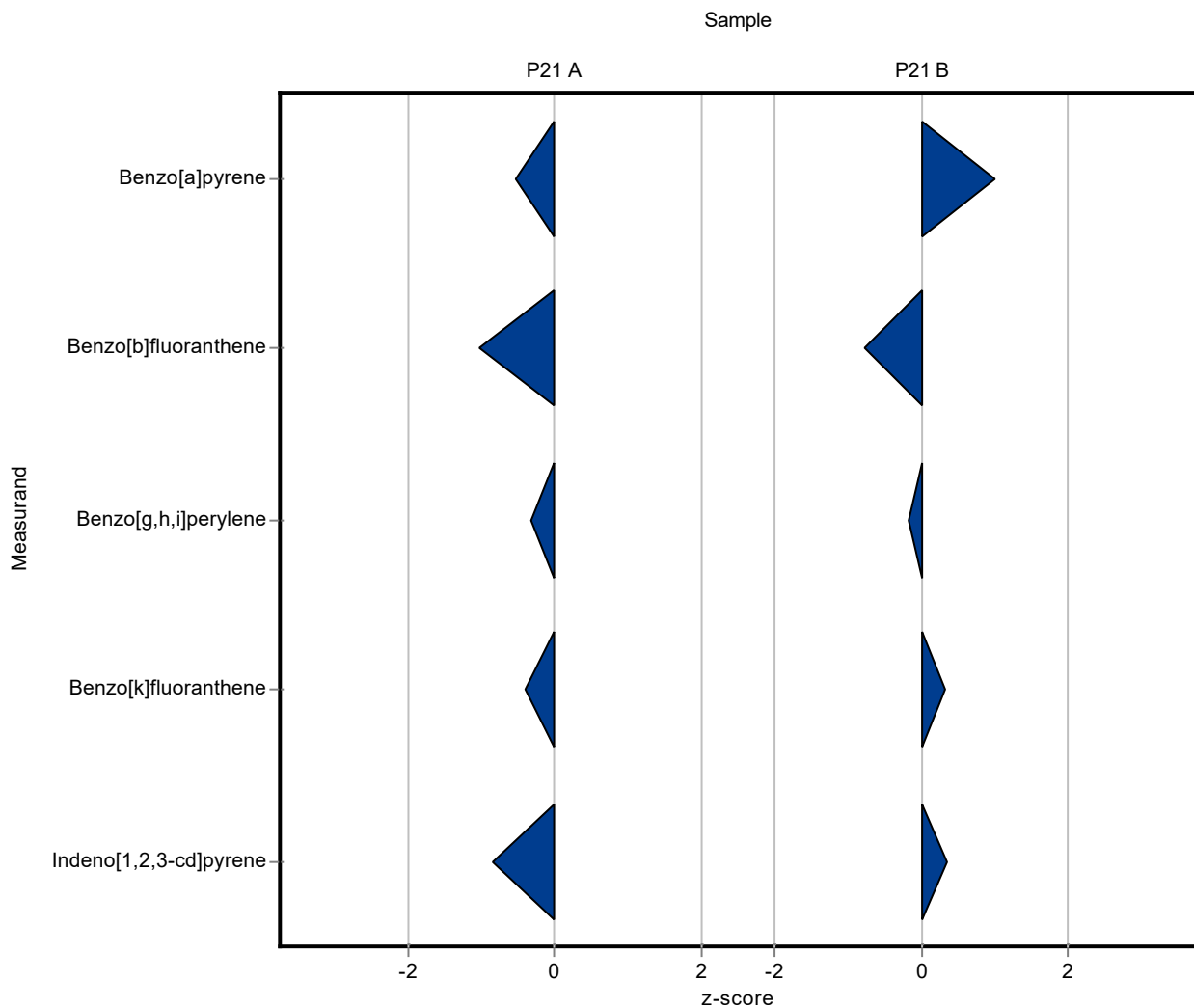
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	- ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	- ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9.67 ± 1.75	2.66	87.3	-0.53
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.32 ± 2.57	3.58	82.3	-1.04
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	12.08 ± 2.87	4.3	90	-0.31
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.85 ± 2.32	3.16	89.3	-0.41
Chrysene	ng/l	20.1 ± 2.16	- ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	- ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	- ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	7.19 ± 2.02	2.65	76	-0.86
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	- ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	188.24 ± 34.07	36.5	124	1.00
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	58.88 ± 8.74	11.5	87	-0.76
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	52.96 ± 12.6	18	94.2	-0.18
Benzo[k]fluoranthene	ng/l	116 ± 8.71	125.8 ± 26.86	30.2	108	0.32
Chrysene	ng/l	56.3 ± 5.69	- ± -	14.7	-	-
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	- ± -	25.7	-	-



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	124.29 ± 34.93	35.9	111
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



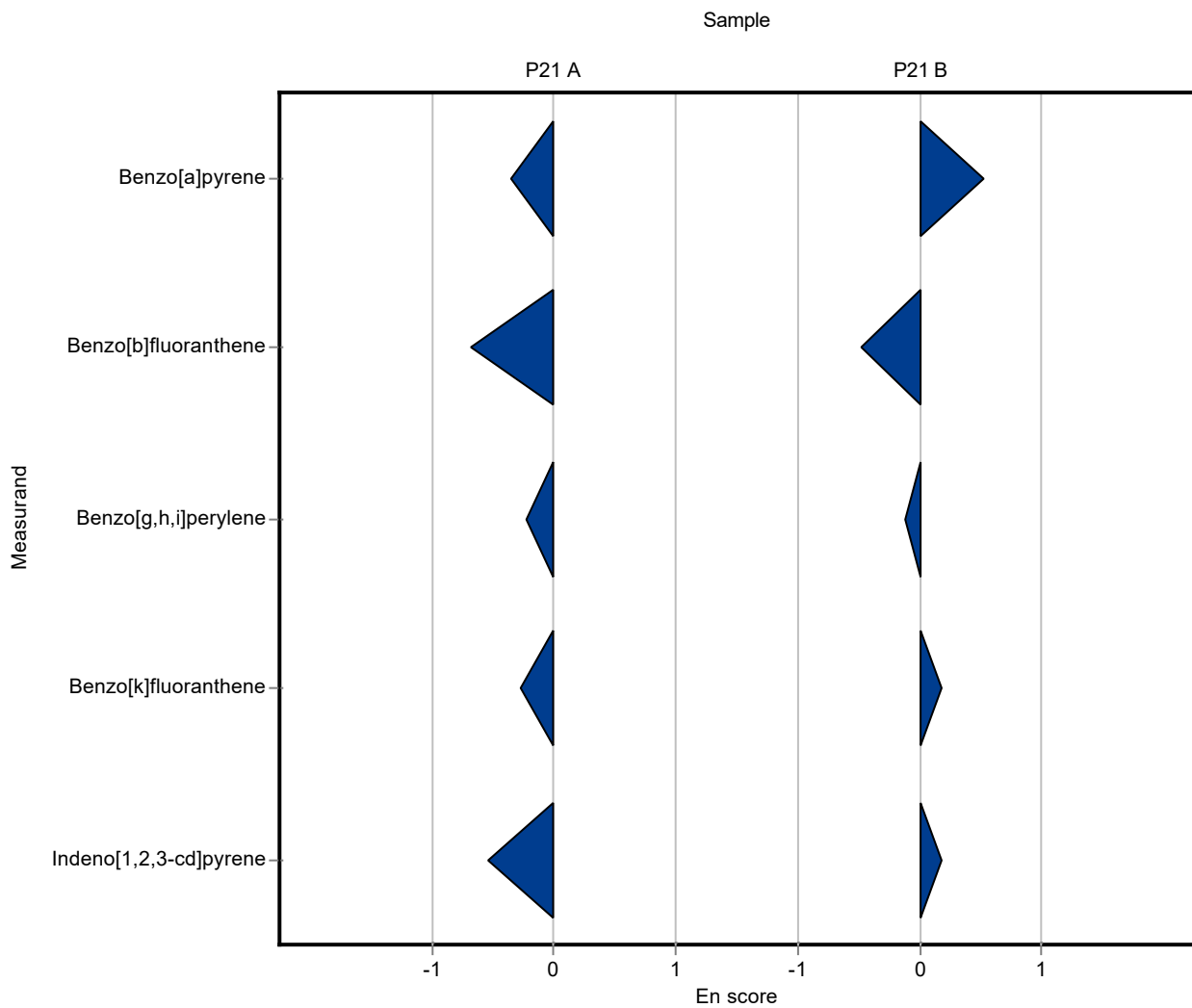
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	- ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	- ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	9.67 ± 1.75	2.66	87.3	-0.35
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.32 ± 2.57	3.58	82.3	-0.68
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	12.08 ± 2.87	4.3	90	-0.23
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.85 ± 2.32	3.16	89.3	-0.27
Chrysene	ng/l	20.1 ± 2.16	- ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	- ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	- ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	7.19 ± 2.02	2.65	76	-0.54
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	- ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	188.24 ± 34.07	36.5	124	0.52
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	58.88 ± 8.74	11.5	87	-0.47
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	52.96 ± 12.6	18	94.2	-0.13
Benzo[k]fluoranthene	ng/l	116 ± 8.71	125.8 ± 26.86	30.2	108	0.18
Chrysene	ng/l	56.3 ± 5.69	- ± -	14.7	-	-
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	- ± -	25.7	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	124.29 ± 34.93	35.9	111
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



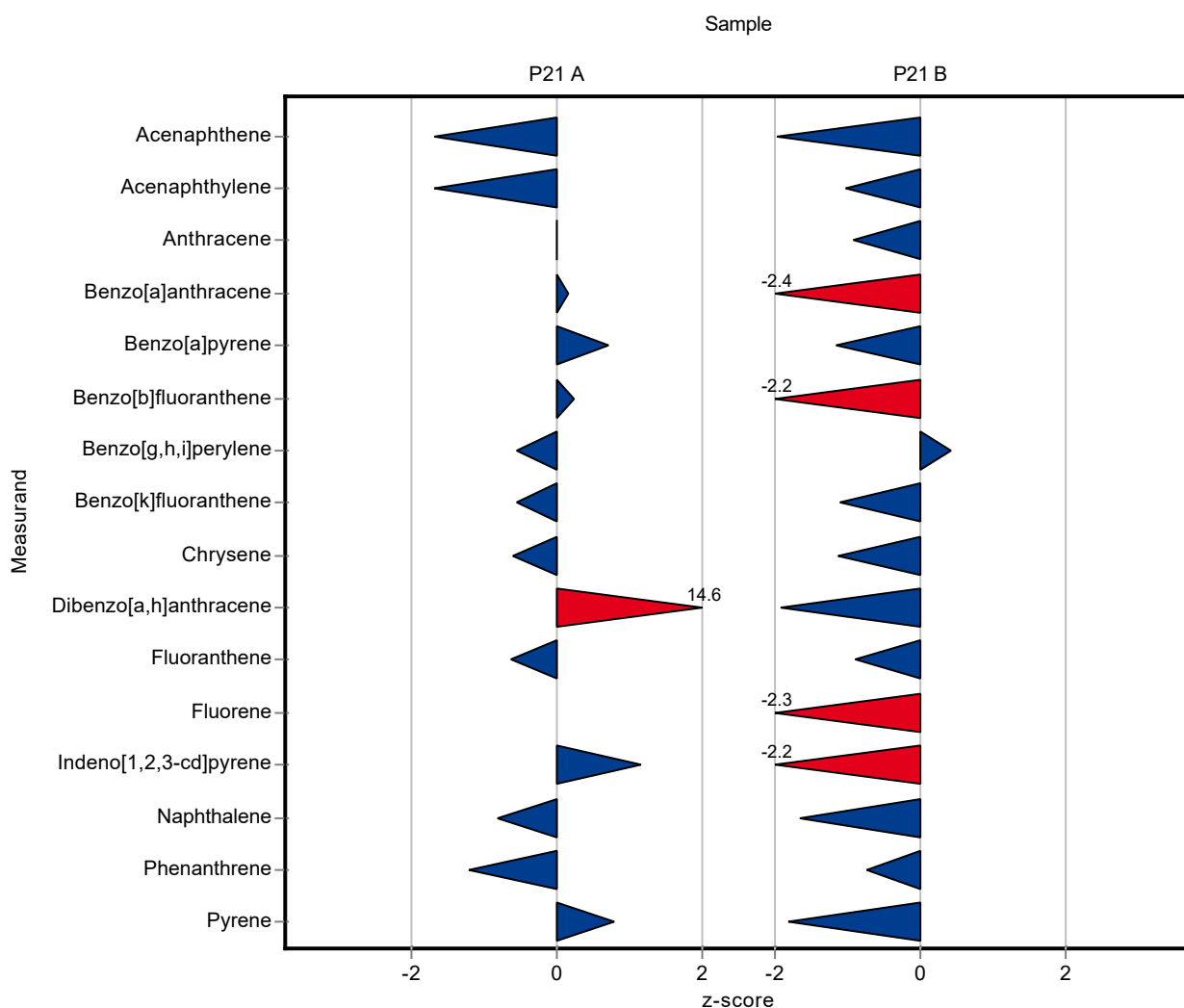
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	10.6 ± 2.1	2.96	68	-1.69
Acenaphthylene	ng/l	16.8 ± 1.73	10.8 ± 2.2	3.52	64.4	-1.70
Anthracene	ng/l	13.1 ± 1.28	13.1 ± 2.6	2.89	99.9	-0.01
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.8 ± 3	3.02	103	0.13
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.9 ± 2.6	2.66	116	0.69
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.8 ± 4.4	3.58	104	0.21
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 2.2	4.3	82	-0.56
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.4 ± 2.1	3.16	85.6	-0.56
Chrysene	ng/l	20.1 ± 2.16	16.8 ± 3.4	5.22	83.7	-0.63
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	63.7 ± 12.7	3.55	539	14.60
Fluoranthene	ng/l	12.5 ± 0.92	11.1 ± 2.2	2.26	88.5	-0.64
Fluorene	ng/l	13 ± 0.921	<10 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	12.5 ± 2.5	2.65	132	1.15
Naphthalene	ng/l	28.5 ± 2.52	23.5 ± 4.7	5.99	82.4	-0.84
Phenanthrene	ng/l	14.7 ± 1.3	12 ± 2.4	2.2	81.7	-1.22
Pyrene	ng/l	10.9 ± 1.15	12.3 ± 2.5	1.75	113	0.79

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	101.3 ± 20.3	30.9	62.3	-1.99
Acenaphthylene	ng/l	81.6 ± 12.2	50.1 ± 10	30.2	61.4	-1.04
Anthracene	ng/l	137 ± 23.8	84.1 ± 16.8	57.6	61.3	-0.92
Benzo[a]anthracene	ng/l	161 ± 18	79.9 ± 16	33.8	49.6	-2.40
Benzo[a]pyrene	ng/l	152 ± 15	109.2 ± 21.8	36.5	71.9	-1.17
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	42.7 ± 8.5	11.5	63.1	-2.17
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.5 ± 12.7	18	113	0.41
Benzo[k]fluoranthene	ng/l	116 ± 8.71	82.4 ± 16.5	30.2	71	-1.12
Chrysene	ng/l	56.3 ± 5.69	39.4 ± 7.9	14.7	69.9	-1.16
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	35.9 ± 7.2	25.7	41.9	-1.94

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	51.1 ± 10.2	23.1	70.9	-0.91
Fluorene	ng/l	186 ± 24.1	126.8 ± 25.4	26	68.2	-2.27
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	31.7 ± 6.3	35.9	28.3	-2.24
Naphthalene	ng/l	168 ± 28.1	108.7 ± 21.7	35.2	64.9	-1.67
Phenanthrene	ng/l	76.4 ± 14.3	52.3 ± 10.5	32.1	68.4	-0.75
Pyrene	ng/l	79.4 ± 8.28	56.2 ± 11.2	12.7	70.8	-1.83



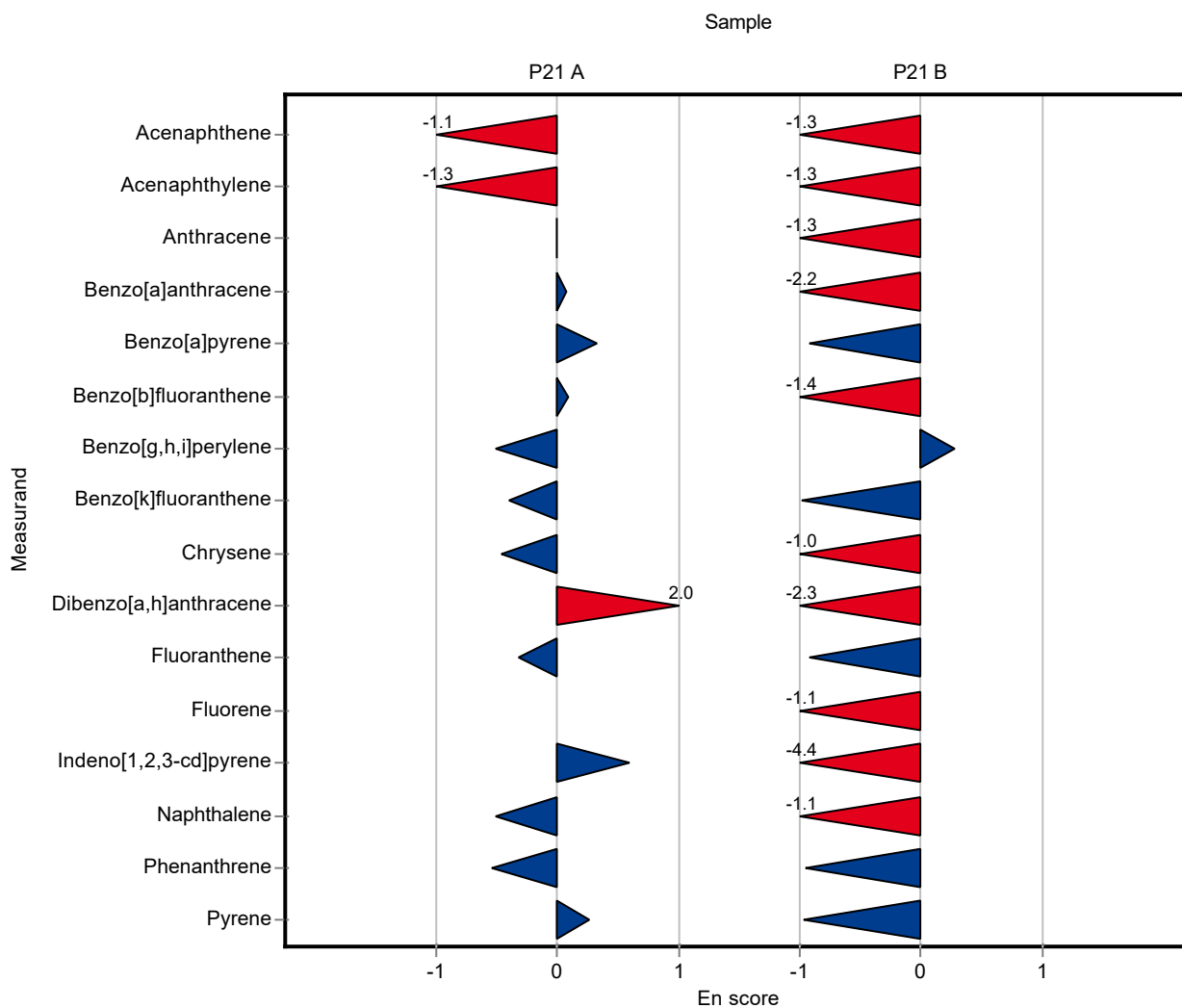
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	10.6 ± 2.1	2.96	68	-1.07
Acenaphthylene	ng/l	16.8 ± 1.73	10.8 ± 2.2	3.52	64.4	-1.26
Anthracene	ng/l	13.1 ± 1.28	13.1 ± 2.6	2.89	99.9	0.00
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.8 ± 3	3.02	103	0.06
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12.9 ± 2.6	2.66	116	0.33
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.8 ± 4.4	3.58	104	0.08
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 2.2	4.3	82	-0.52
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	10.4 ± 2.1	3.16	85.6	-0.40
Chrysene	ng/l	20.1 ± 2.16	16.8 ± 3.4	5.22	83.7	-0.46
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	63.7 ± 12.7	3.55	539	2.03
Fluoranthene	ng/l	12.5 ± 0.92	11.1 ± 2.2	2.26	88.5	-0.32
Fluorene	ng/l	13 ± 0.921	<10 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	12.5 ± 2.5	2.65	132	0.59
Naphthalene	ng/l	28.5 ± 2.52	23.5 ± 4.7	5.99	82.4	-0.52
Phenanthrene	ng/l	14.7 ± 1.3	12 ± 2.4	2.2	81.7	-0.54
Pyrene	ng/l	10.9 ± 1.15	12.3 ± 2.5	1.75	113	0.27

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	101.3 ± 20.3	30.9	62.3	-1.32
Acenaphthylene	ng/l	81.6 ± 12.2	50.1 ± 10	30.2	61.4	-1.34
Anthracene	ng/l	137 ± 23.8	84.1 ± 16.8	57.6	61.3	-1.29
Benzo[a]anthracene	ng/l	161 ± 18	79.9 ± 16	33.8	49.6	-2.21
Benzo[a]pyrene	ng/l	152 ± 15	109.2 ± 21.8	36.5	71.9	-0.93
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	42.7 ± 8.5	11.5	63.1	-1.38
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.5 ± 12.7	18	113	0.28
Benzo[k]fluoranthene	ng/l	116 ± 8.71	82.4 ± 16.5	30.2	71	-0.99
Chrysene	ng/l	56.3 ± 5.69	39.4 ± 7.9	14.7	69.9	-1.01
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	35.9 ± 7.2	25.7	41.9	-2.27

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	51.1 ± 10.2	23.1	70.9 -0.93
Fluorene	ng/l	186 ± 24.1	126.8 ± 25.4	26	68.2 -1.05
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	31.7 ± 6.3	35.9	28.3 -4.40
Naphthalene	ng/l	168 ± 28.1	108.7 ± 21.7	35.2	64.9 -1.14
Phenanthrene	ng/l	76.4 ± 14.3	52.3 ± 10.5	32.1	68.4 -0.95
Pyrene	ng/l	79.4 ± 8.28	56.2 ± 11.2	12.7	70.8 -0.97



Sample: P21A

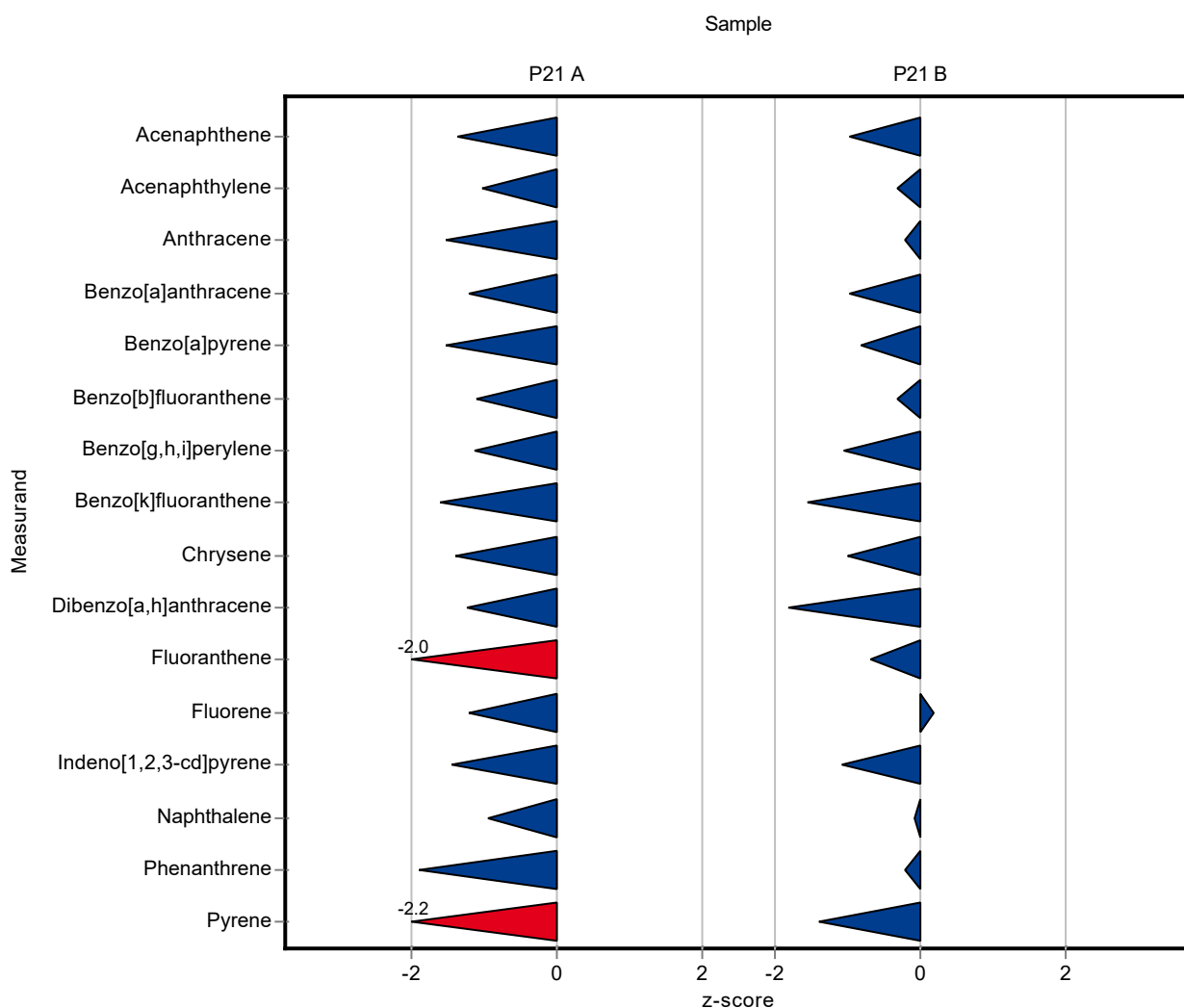
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.5 ± 2.877	2.96	73.7	-1.38
Acenaphthylene	ng/l	16.8 ± 1.73	13.1 ± 3.532	3.52	78.1	-1.04
Anthracene	ng/l	13.1 ± 1.28	8.68 ± 1.91	2.89	66.2	-1.54
Benzo[a]anthracene	ng/l	14.4 ± 1.7	10.7 ± 1.933	3.02	74.3	-1.22
Benzo[a]pyrene	ng/l	11.1 ± 1.88	6.99 ± 1.049	2.66	63.1	-1.54
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.03 ± 3.406	3.58	80.9	-1.12
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	8.47 ± 2.455	4.3	63.1	-1.15
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	7.01 ± 1.682	3.16	57.7	-1.63
Chrysene	ng/l	20.1 ± 2.16	12.7 ± 2.293	5.22	63.2	-1.41
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	7.35 ± 1.25	3.55	62.1	-1.26
Fluoranthene	ng/l	12.5 ± 0.92	8.01 ± 1.842	2.26	63.9	-2.01
Fluorene	ng/l	13 ± 0.921	10.8 ± 1.938	1.82	83	-1.21
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	5.62 ± 1.011	2.65	59.4	-1.45
Naphthalene	ng/l	28.5 ± 2.52	22.8 ± 5.475	5.99	79.9	-0.95
Phenanthrene	ng/l	14.7 ± 1.3	10.5 ± 2.092	2.2	71.5	-1.90
Pyrene	ng/l	10.9 ± 1.15	7.15 ± 1.858	1.75	65.4	-2.16

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	132 ± 32.877	30.9	81.2	-0.99
Acenaphthylene	ng/l	81.6 ± 12.2	71.5 ± 19.311	30.2	87.6	-0.34
Anthracene	ng/l	137 ± 23.8	124 ± 27.251	57.6	90.4	-0.23
Benzo[a]anthracene	ng/l	161 ± 18	128 ± 22.951	33.8	79.5	-0.98
Benzo[a]pyrene	ng/l	152 ± 15	122 ± 18.227	36.5	80.3	-0.82
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	63.9 ± 12.781	11.5	94.5	-0.33
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	37 ± 10.732	18	65.8	-1.07
Benzo[k]fluoranthene	ng/l	116 ± 8.71	68.9 ± 16.531	30.2	59.4	-1.56
Chrysene	ng/l	56.3 ± 5.69	41.6 ± 7.488	14.7	73.8	-1.01
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	38.8 ± 6.589	25.7	45.3	-1.82



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	56.3 ± 12.943	23.1	78.1	-0.69
Fluorene	ng/l	186 ± 24.1	190 ± 34.154	26	102	0.16
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	72.8 ± 13.098	35.9	64.9	-1.10
Naphthalene	ng/l	168 ± 28.1	164 ± 39.327	35.2	97.9	-0.10
Phenanthrene	ng/l	76.4 ± 14.3	68.9 ± 13.787	32.1	90.1	-0.23
Pyrene	ng/l	79.4 ± 8.28	61.5 ± 15.985	12.7	77.4	-1.41



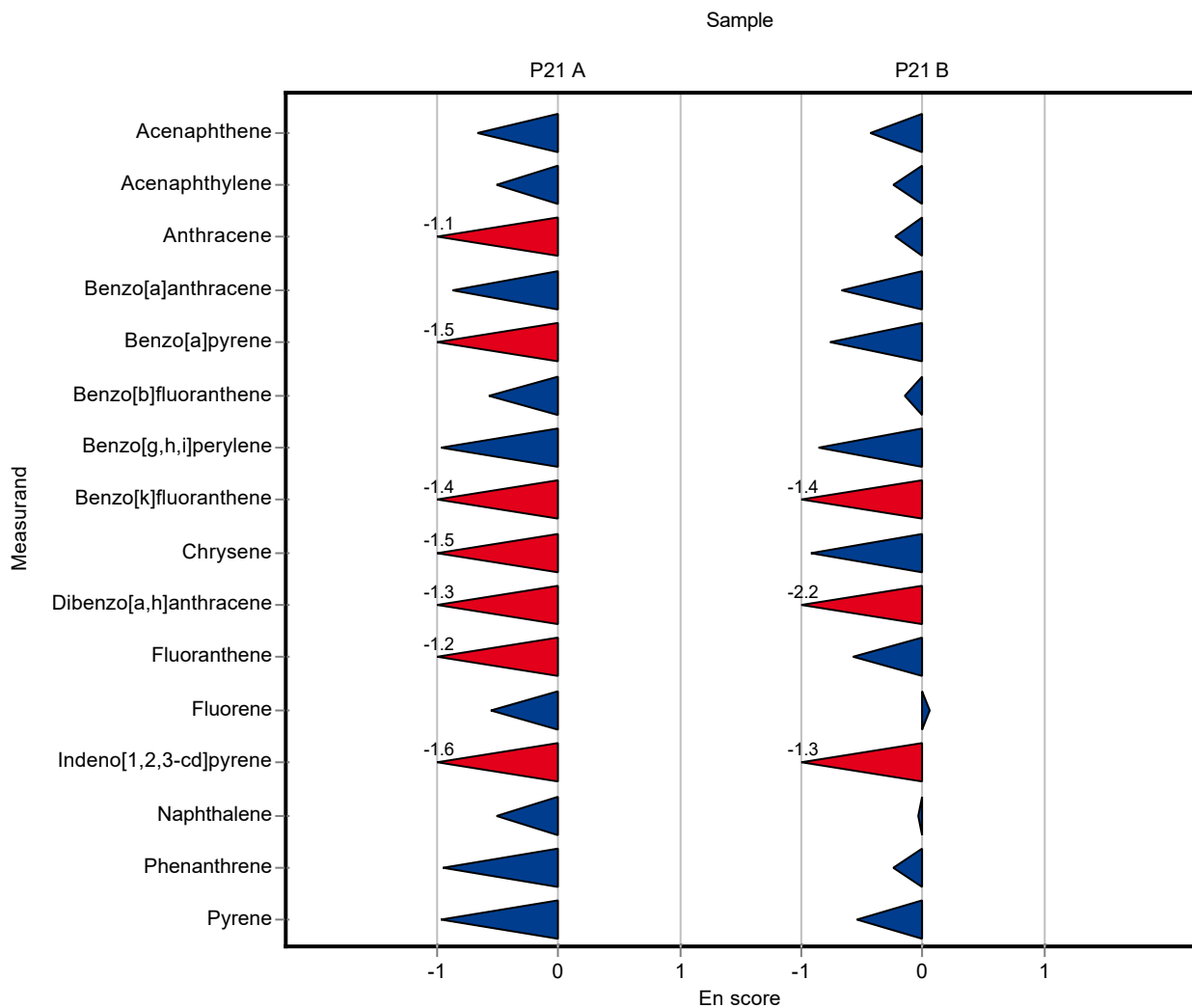
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.5 ± 2.877	2.96	73.7	-0.67
Acenaphthylene	ng/l	16.8 ± 1.73	13.1 ± 3.532	3.52	78.1	-0.51
Anthracene	ng/l	13.1 ± 1.28	8.68 ± 1.91	2.89	66.2	-1.10
Benzo[a]anthracene	ng/l	14.4 ± 1.7	10.7 ± 1.933	3.02	74.3	-0.88
Benzo[a]pyrene	ng/l	11.1 ± 1.88	6.99 ± 1.049	2.66	63.1	-1.45
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17.03 ± 3.406	3.58	80.9	-0.57
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	8.47 ± 2.455	4.3	63.1	-0.96
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	7.01 ± 1.682	3.16	57.7	-1.42
Chrysene	ng/l	20.1 ± 2.16	12.7 ± 2.293	5.22	63.2	-1.46
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	7.35 ± 1.25	3.55	62.1	-1.27
Fluoranthene	ng/l	12.5 ± 0.92	8.01 ± 1.842	2.26	63.9	-1.19
Fluorene	ng/l	13 ± 0.921	10.8 ± 1.938	1.82	83	-0.55
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	5.62 ± 1.011	2.65	59.4	-1.62
Naphthalene	ng/l	28.5 ± 2.52	22.8 ± 5.475	5.99	79.9	-0.51
Phenanthrene	ng/l	14.7 ± 1.3	10.5 ± 2.092	2.2	71.5	-0.95
Pyrene	ng/l	10.9 ± 1.15	7.15 ± 1.858	1.75	65.4	-0.97

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	132 ± 32.877	30.9	81.2	-0.44
Acenaphthylene	ng/l	81.6 ± 12.2	71.5 ± 19.311	30.2	87.6	-0.25
Anthracene	ng/l	137 ± 23.8	124 ± 27.251	57.6	90.4	-0.22
Benzo[a]anthracene	ng/l	161 ± 18	128 ± 22.951	33.8	79.5	-0.67
Benzo[a]pyrene	ng/l	152 ± 15	122 ± 18.227	36.5	80.3	-0.76
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	63.9 ± 12.781	11.5	94.5	-0.14
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	37 ± 10.732	18	65.8	-0.87
Benzo[k]fluoranthene	ng/l	116 ± 8.71	68.9 ± 16.531	30.2	59.4	-1.38
Chrysene	ng/l	56.3 ± 5.69	41.6 ± 7.488	14.7	73.8	-0.92
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	38.8 ± 6.589	25.7	45.3	-2.22

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	56.3 ± 12.943	23.1	78.1	-0.57
Fluorene	ng/l	186 ± 24.1	190 ± 34.154	26	102	0.06
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	72.8 ± 13.098	35.9	64.9	-1.34
Naphthalene	ng/l	168 ± 28.1	164 ± 39.327	35.2	97.9	-0.04
Phenanthrene	ng/l	76.4 ± 14.3	68.9 ± 13.787	32.1	90.1	-0.24
Pyrene	ng/l	79.4 ± 8.28	61.5 ± 15.985	12.7	77.4	-0.54



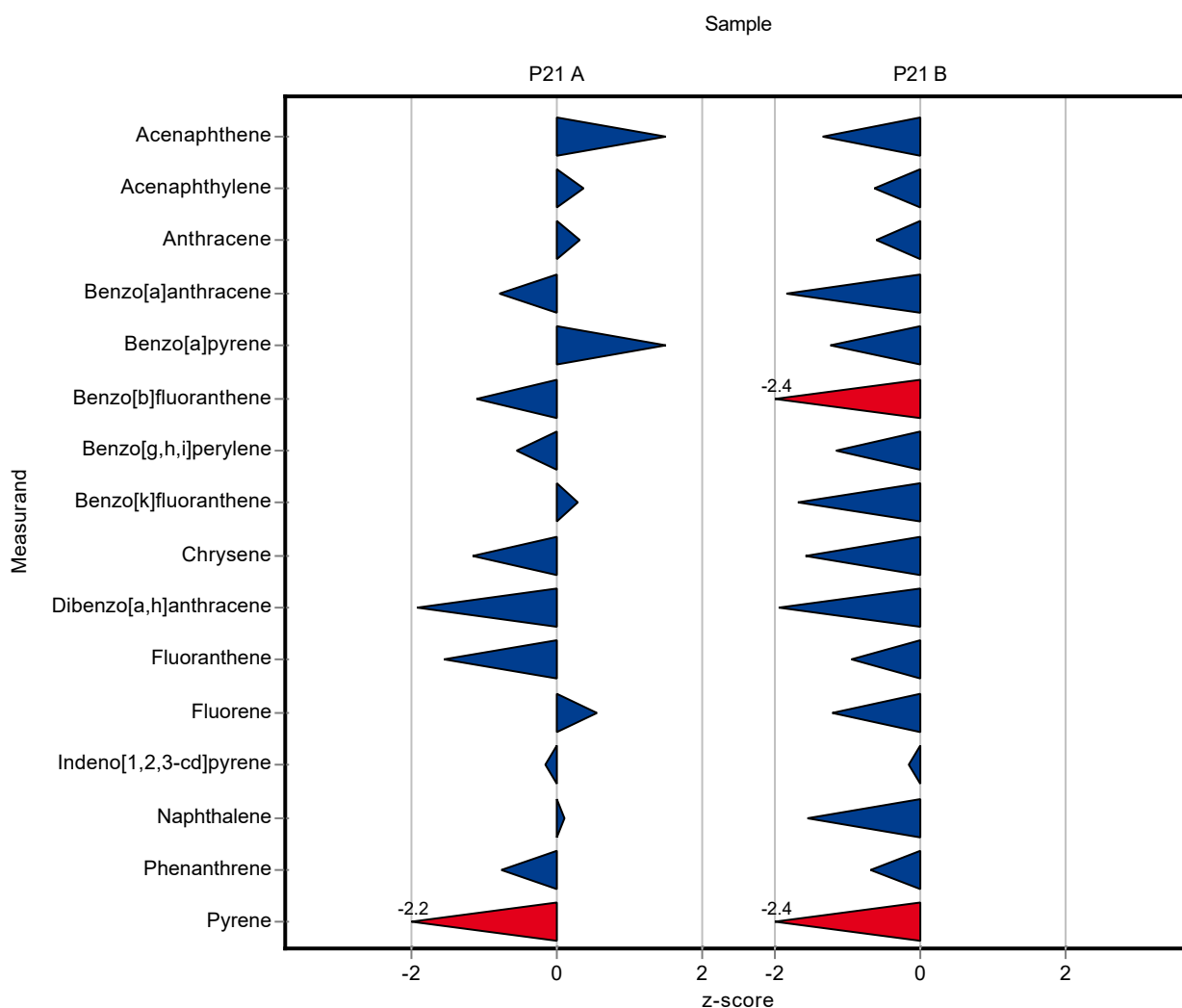
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	20 ± 1.3	2.96	128	1.49
Acenaphthylene	ng/l	16.8 ± 1.73	18 ± 1.1	3.52	107	0.35
Anthracene	ng/l	13.1 ± 1.28	14 ± 1.6	2.89	107	0.31
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 0.89	3.02	83.3	-0.79
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15 ± 1.3	2.66	135	1.48
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17 ± 0.95	3.58	80.8	-1.13
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 0.91	4.3	82	-0.56
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13 ± 0.94	3.16	107	0.27
Chrysene	ng/l	20.1 ± 2.16	14 ± 1.1	5.22	69.7	-1.16
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	5 ± 0.4	3.55	42.3	-1.92
Fluoranthene	ng/l	12.5 ± 0.92	9 ± 0.89	2.26	71.8	-1.57
Fluorene	ng/l	13 ± 0.921	14 ± 0.93	1.82	108	0.55
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9 ± 0.71	2.65	95.1	-0.17
Naphthalene	ng/l	28.5 ± 2.52	29 ± 2.2	5.99	102	0.08
Phenanthrene	ng/l	14.7 ± 1.3	13 ± 1.6	2.2	88.5	-0.77
Pyrene	ng/l	10.9 ± 1.15	7 ± 0.62	1.75	64.1	-2.25

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	121 ± 7.5	30.9	74.4	-1.35
Acenaphthylene	ng/l	81.6 ± 12.2	62 ± 3.9	30.2	76	-0.65
Anthracene	ng/l	137 ± 23.8	101 ± 11	57.6	73.6	-0.63
Benzo[a]anthracene	ng/l	161 ± 18	98 ± 7.3	33.8	60.9	-1.86
Benzo[a]pyrene	ng/l	152 ± 15	106 ± 9.3	36.5	69.8	-1.26
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	40 ± 2.2	11.5	59.1	-2.40
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	35 ± 2.9	18	62.3	-1.18
Benzo[k]fluoranthene	ng/l	116 ± 8.71	65 ± 4.7	30.2	56	-1.69
Chrysene	ng/l	56.3 ± 5.69	33 ± 2.6	14.7	58.6	-1.59
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	35 ± 2.8	25.7	40.8	-1.97

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	50 ± 5	23.1	69.3	-0.96
Fluorene	ng/l	186 ± 24.1	154 ± 10	26	82.9	-1.22
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	106 ± 8.3	35.9	94.6	-0.17
Naphthalene	ng/l	168 ± 28.1	112 ± 8.7	35.2	66.9	-1.58
Phenanthrene	ng/l	76.4 ± 14.3	54 ± 6.5	32.1	70.6	-0.70
Pyrene	ng/l	79.4 ± 8.28	49 ± 4.3	12.7	61.7	-2.39



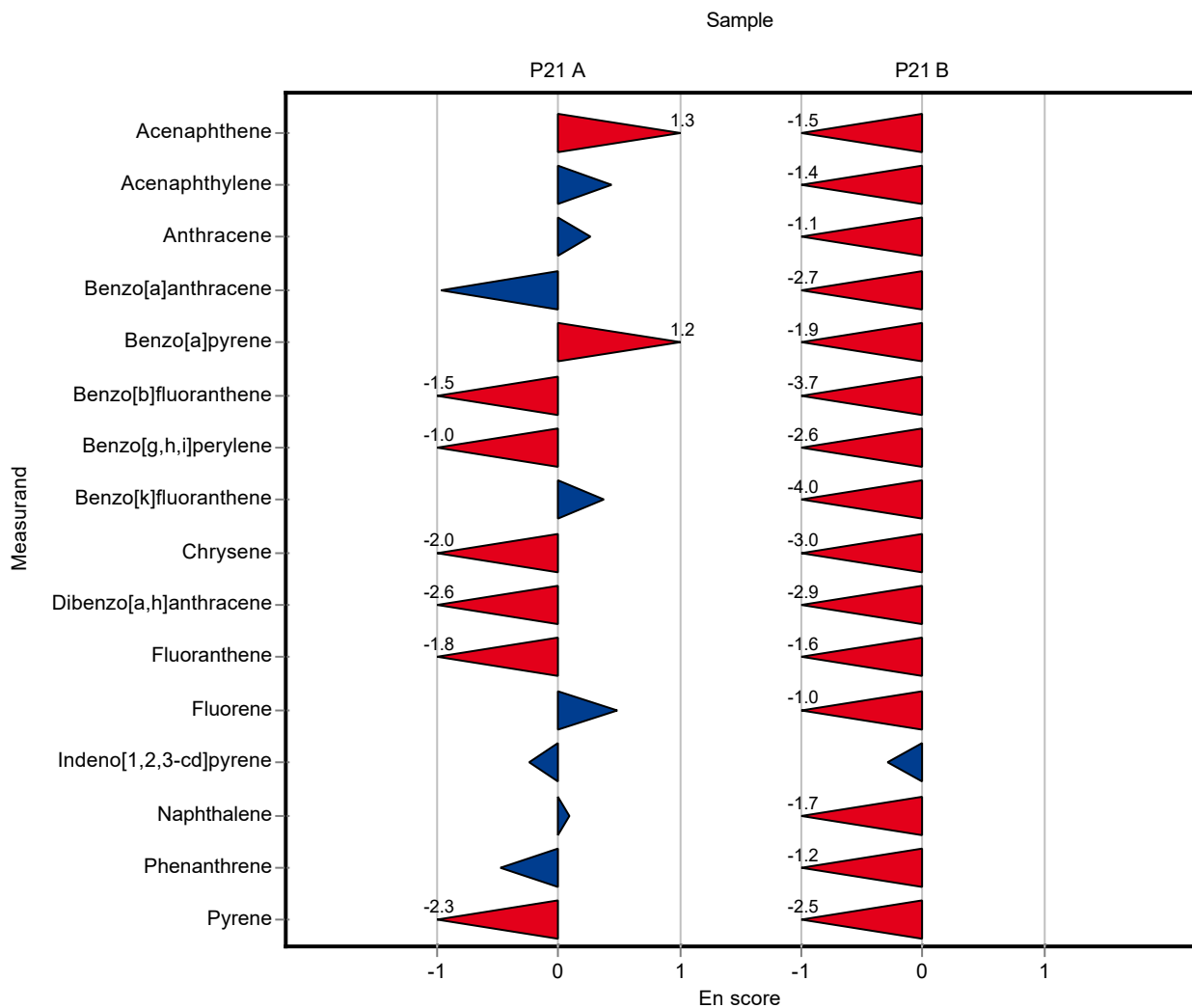
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	20 ± 1.3	2.96	128	1.33
Acenaphthylene	ng/l	16.8 ± 1.73	18 ± 1.1	3.52	107	0.44
Anthracene	ng/l	13.1 ± 1.28	14 ± 1.6	2.89	107	0.26
Benzo[a]anthracene	ng/l	14.4 ± 1.7	12 ± 0.89	3.02	83.3	-0.98
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15 ± 1.3	2.66	135	1.22
Benzo[b]fluoranthene	ng/l	21 ± 1.85	17 ± 0.95	3.58	80.8	-1.52
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	11 ± 0.91	4.3	82	-1.02
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13 ± 0.94	3.16	107	0.36
Chrysene	ng/l	20.1 ± 2.16	14 ± 1.1	5.22	69.7	-1.97
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	5 ± 0.4	3.55	42.3	-2.63
Fluoranthene	ng/l	12.5 ± 0.92	9 ± 0.89	2.26	71.8	-1.77
Fluorene	ng/l	13 ± 0.921	14 ± 0.93	1.82	108	0.48
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	9 ± 0.71	2.65	95.1	-0.25
Naphthalene	ng/l	28.5 ± 2.52	29 ± 2.2	5.99	102	0.09
Phenanthrene	ng/l	14.7 ± 1.3	13 ± 1.6	2.2	88.5	-0.49
Pyrene	ng/l	10.9 ± 1.15	7 ± 0.62	1.75	64.1	-2.32

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	121 ± 7.5	30.9	74.4	-1.53
Acenaphthylene	ng/l	81.6 ± 12.2	62 ± 3.9	30.2	76	-1.35
Anthracene	ng/l	137 ± 23.8	101 ± 11	57.6	73.6	-1.12
Benzo[a]anthracene	ng/l	161 ± 18	98 ± 7.3	33.8	60.9	-2.72
Benzo[a]pyrene	ng/l	152 ± 15	106 ± 9.3	36.5	69.8	-1.92
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	40 ± 2.2	11.5	59.1	-3.73
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	35 ± 2.9	18	62.3	-2.64
Benzo[k]fluoranthene	ng/l	116 ± 8.71	65 ± 4.7	30.2	56	-3.99
Chrysene	ng/l	56.3 ± 5.69	33 ± 2.6	14.7	58.6	-3.03
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	35 ± 2.8	25.7	40.8	-2.91

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	50 ± 5	23.1	69.3	-1.57
Fluorene	ng/l	186 ± 24.1	154 ± 10	26	82.9	-1.02
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	106 ± 8.3	35.9	94.6	-0.29
Naphthalene	ng/l	168 ± 28.1	112 ± 8.7	35.2	66.9	-1.68
Phenanthrene	ng/l	76.4 ± 14.3	54 ± 6.5	32.1	70.6	-1.16
Pyrene	ng/l	79.4 ± 8.28	49 ± 4.3	12.7	61.7	-2.55



Sample: P21A

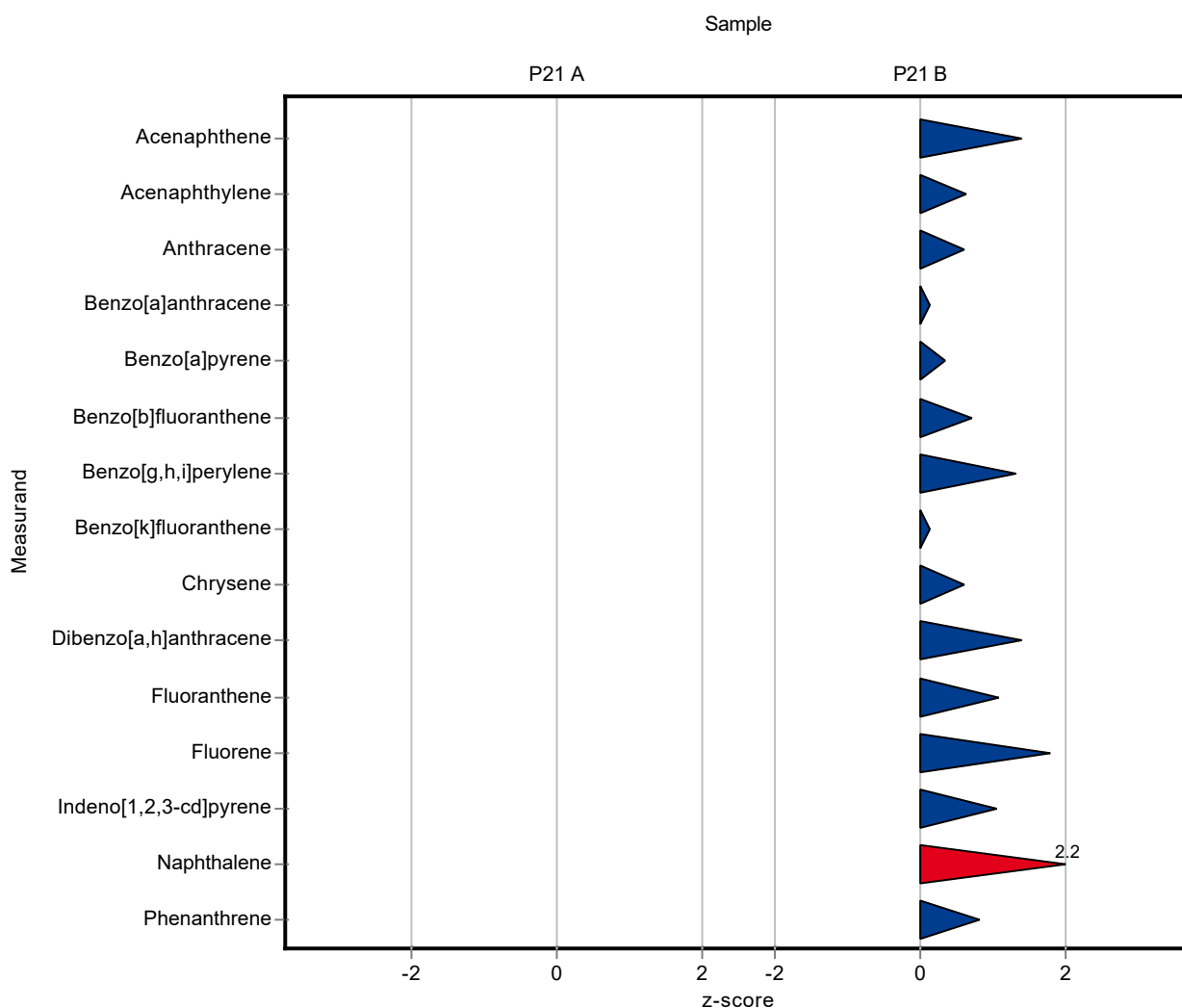
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<50 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<50 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<50 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<50 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<50 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<50 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<50 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<50 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<50 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<50 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<50 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<50 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<50 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<50 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<50 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<50 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	205.3 ± 10	30.9	126	1.38
Acenaphthylene	ng/l	81.6 ± 12.2	100.5 ± 10	30.2	123	0.63
Anthracene	ng/l	137 ± 23.8	171.9 ± 10	57.6	125	0.60
Benzo[a]anthracene	ng/l	161 ± 18	164.8 ± 10	33.8	102	0.11
Benzo[a]pyrene	ng/l	152 ± 15	163.8 ± 10	36.5	108	0.33
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	75.6 ± 10	11.5	112	0.69
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	79.5 ± 10	18	141	1.30
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 10	30.2	103	0.13
Chrysene	ng/l	56.3 ± 5.69	65.1 ± 10	14.7	116	0.60
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	120.9 ± 10	25.7	141	1.37



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	96.8 ± 10	23.1	134	1.07
Fluorene	ng/l	186 ± 24.1	232.1 ± 10	26	125	1.78
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	149.3 ± 10	35.9	133	1.04
Naphthalene	ng/l	168 ± 28.1	243.4 ± 10	35.2	145	2.16
Phenanthrene	ng/l	76.4 ± 14.3	101.9 ± 10	32.1	133	0.79
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-	-



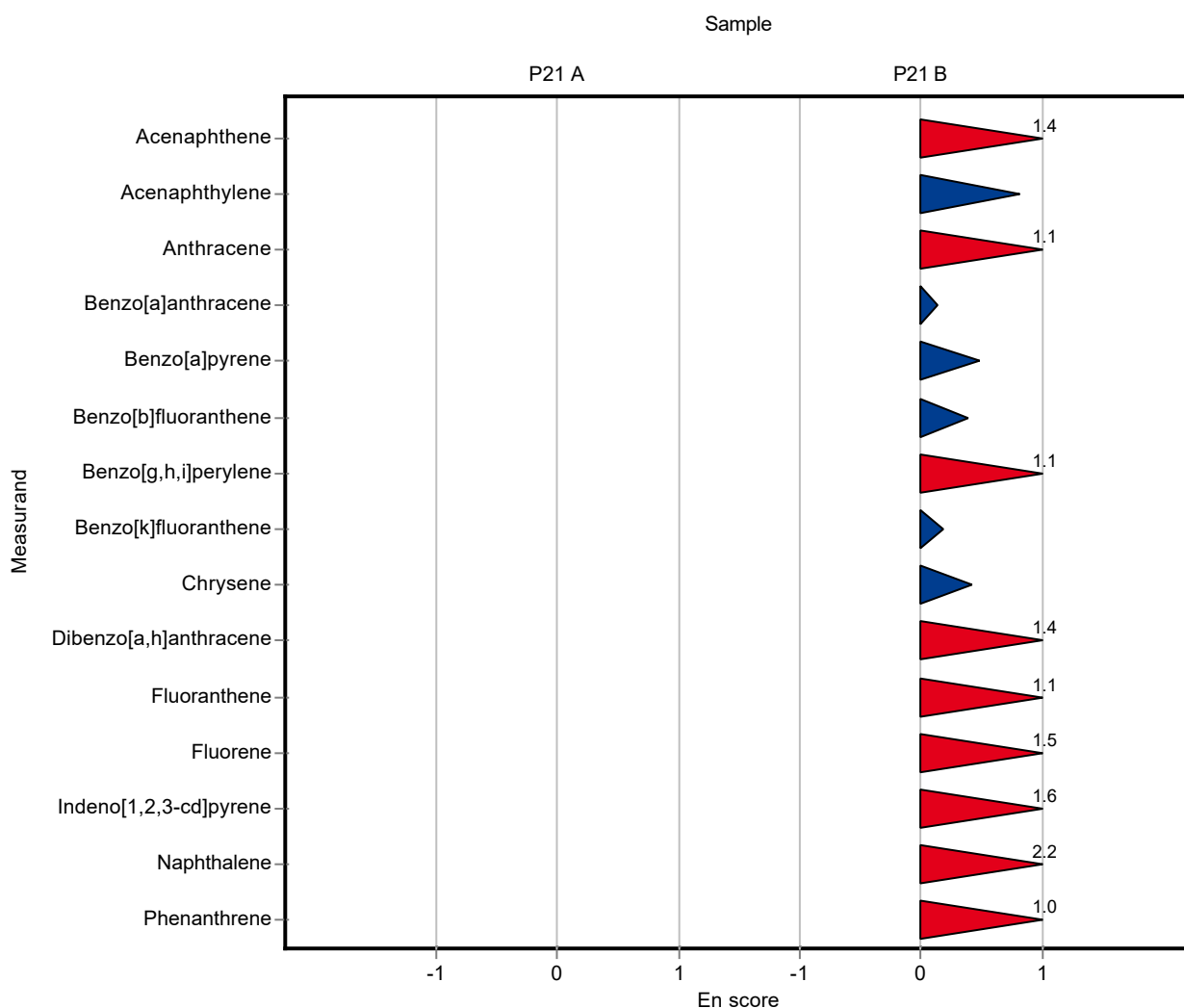
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<50 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<50 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<50 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<50 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<50 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<50 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<50 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<50 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<50 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<50 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<50 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<50 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<50 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<50 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<50 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<50 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	205.3 ± 10	30.9	126	1.41
Acenaphthylene	ng/l	81.6 ± 12.2	100.5 ± 10	30.2	123	0.81
Anthracene	ng/l	137 ± 23.8	171.9 ± 10	57.6	125	1.12
Benzo[a]anthracene	ng/l	161 ± 18	164.8 ± 10	33.8	102	0.14
Benzo[a]pyrene	ng/l	152 ± 15	163.8 ± 10	36.5	108	0.47
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	75.6 ± 10	11.5	112	0.38
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	79.5 ± 10	18	141	1.12
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 10	30.2	103	0.18
Chrysene	ng/l	56.3 ± 5.69	65.1 ± 10	14.7	116	0.42
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	120.9 ± 10	25.7	141	1.36

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	96.8 ± 10	23.1	1.11
Fluorene	ng/l	186 ± 24.1	232.1 ± 10	26	1.48
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	149.3 ± 10	35.9	1.55
Naphthalene	ng/l	168 ± 28.1	243.4 ± 10	35.2	2.20
Phenanthrene	ng/l	76.4 ± 14.3	101.9 ± 10	32.1	1.04
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



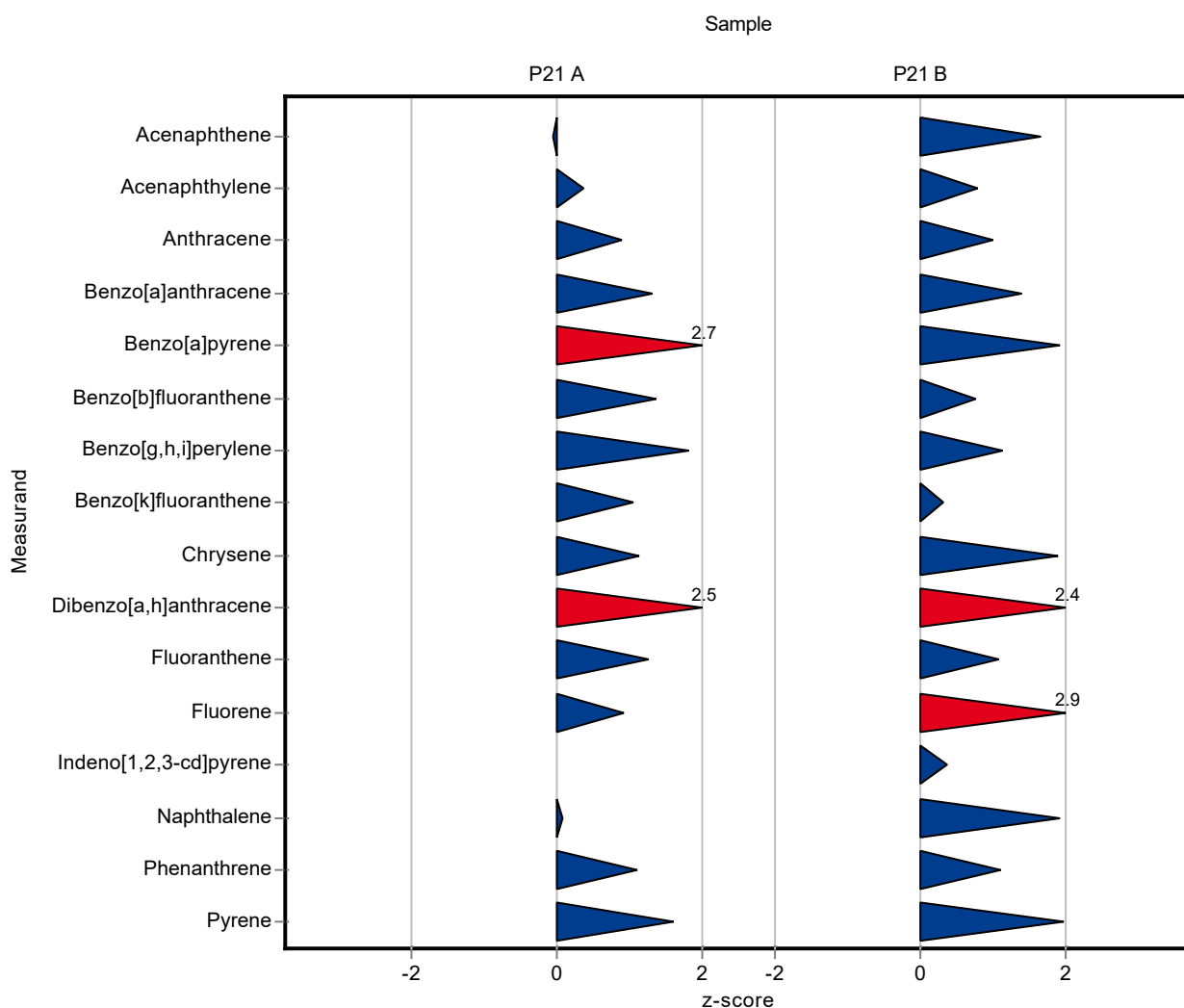
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	15.43 ± 4.63	2.96	99	-0.06
Acenaphthylene	ng/l	16.8 ± 1.73	18.07 ± 5.42	3.52	108	0.37
Anthracene	ng/l	13.1 ± 1.28	15.68 ± 4.7	2.89	120	0.89
Benzo[a]anthracene	ng/l	14.4 ± 1.7	18.37 ± 5.51	3.02	128	1.31
Benzo[a]pyrene	ng/l	11.1 ± 1.88	18.29 ± 15.73	2.66	165	2.71
Benzo[b]fluoranthene	ng/l	21 ± 1.85	25.88 ± 7.76	3.58	123	1.35
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	21.17 ± 6.35	4.3	158	1.80
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	15.47 ± 4.64	3.16	127	1.05
Chrysene	ng/l	20.1 ± 2.16	25.92 ± 7.78	5.22	129	1.12
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	20.8 ± 6.24	3.55	176	2.53
Fluoranthene	ng/l	12.5 ± 0.92	15.38 ± 4.61	2.26	123	1.26
Fluorene	ng/l	13 ± 0.921	14.68 ± 4.4	1.82	113	0.92
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	28.88 ± 8.66	5.99	101	0.06
Phenanthrene	ng/l	14.7 ± 1.3	17.07 ± 5.12	2.2	116	1.08
Pyrene	ng/l	10.9 ± 1.15	13.69 ± 4.11	1.75	125	1.58

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	213.4 ± 64.02	30.9	131	1.64
Acenaphthylene	ng/l	81.6 ± 12.2	105.39 ± 31.62	30.2	129	0.79
Anthracene	ng/l	137 ± 23.8	194.68 ± 58.41	57.6	142	1.00
Benzo[a]anthracene	ng/l	161 ± 18	207.52 ± 62.26	33.8	129	1.37
Benzo[a]pyrene	ng/l	152 ± 15	221.54 ± 190.53	36.5	146	1.91
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	76.16 ± 22.85	11.5	113	0.74
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	76.48 ± 22.94	18	136	1.13
Benzo[k]fluoranthene	ng/l	116 ± 8.71	124.96 ± 37.49	30.2	108	0.29
Chrysene	ng/l	56.3 ± 5.69	83.8 ± 25.14	14.7	149	1.87
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	147.85 ± 44.35	25.7	173	2.42

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	96.98 ± 29.09	23.1	134
Fluorene	ng/l	186 ± 24.1	261.98 ± 78.59	26	141
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	125.23 ± 37.57	35.9	112
Naphthalene	ng/l	168 ± 28.1	234.93 ± 70.48	35.2	140
Phenanthrene	ng/l	76.4 ± 14.3	111.32 ± 33.4	32.1	146
Pyrene	ng/l	79.4 ± 8.28	104.47 ± 31.34	12.7	132



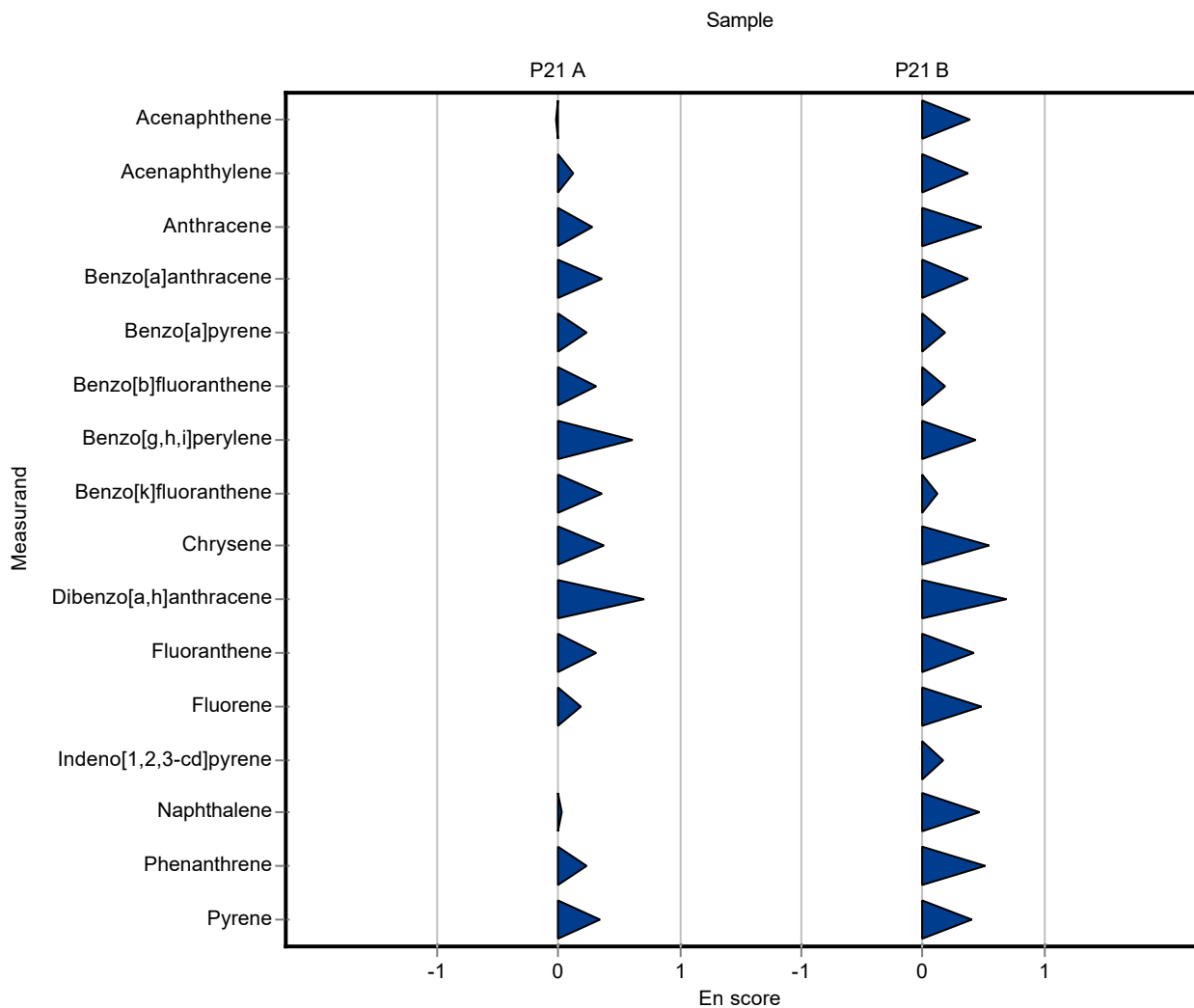
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	15.43 ± 4.63	2.96	99	-0.02
Acenaphthylene	ng/l	16.8 ± 1.73	18.07 ± 5.42	3.52	108	0.12
Anthracene	ng/l	13.1 ± 1.28	15.68 ± 4.7	2.89	120	0.27
Benzo[a]anthracene	ng/l	14.4 ± 1.7	18.37 ± 5.51	3.02	128	0.36
Benzo[a]pyrene	ng/l	11.1 ± 1.88	18.29 ± 15.73	2.66	165	0.23
Benzo[b]fluoranthene	ng/l	21 ± 1.85	25.88 ± 7.76	3.58	123	0.31
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	21.17 ± 6.35	4.3	158	0.61
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	15.47 ± 4.64	3.16	127	0.35
Chrysene	ng/l	20.1 ± 2.16	25.92 ± 7.78	5.22	129	0.37
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	20.8 ± 6.24	3.55	176	0.70
Fluoranthene	ng/l	12.5 ± 0.92	15.38 ± 4.61	2.26	123	0.31
Fluorene	ng/l	13 ± 0.921	14.68 ± 4.4	1.82	113	0.19
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	28.88 ± 8.66	5.99	101	0.02
Phenanthrene	ng/l	14.7 ± 1.3	17.07 ± 5.12	2.2	116	0.23
Pyrene	ng/l	10.9 ± 1.15	13.69 ± 4.11	1.75	125	0.33

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	213.4 ± 64.02	30.9	131	0.39
Acenaphthylene	ng/l	81.6 ± 12.2	105.39 ± 31.62	30.2	129	0.37
Anthracene	ng/l	137 ± 23.8	194.68 ± 58.41	57.6	142	0.48
Benzo[a]anthracene	ng/l	161 ± 18	207.52 ± 62.26	33.8	129	0.37
Benzo[a]pyrene	ng/l	152 ± 15	221.54 ± 190.53	36.5	146	0.18
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	76.16 ± 22.85	11.5	113	0.18
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	76.48 ± 22.94	18	136	0.44
Benzo[k]fluoranthene	ng/l	116 ± 8.71	124.96 ± 37.49	30.2	108	0.12
Chrysene	ng/l	56.3 ± 5.69	83.8 ± 25.14	14.7	149	0.54
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	147.85 ± 44.35	25.7	173	0.69

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	96.98 ± 29.09	23.1	134
Fluorene	ng/l	186 ± 24.1	261.98 ± 78.59	26	141
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	125.23 ± 37.57	35.9	112
Naphthalene	ng/l	168 ± 28.1	234.93 ± 70.48	35.2	140
Phenanthrene	ng/l	76.4 ± 14.3	111.32 ± 33.4	32.1	146
Pyrene	ng/l	79.4 ± 8.28	104.47 ± 31.34	12.7	132



Sample: P21A

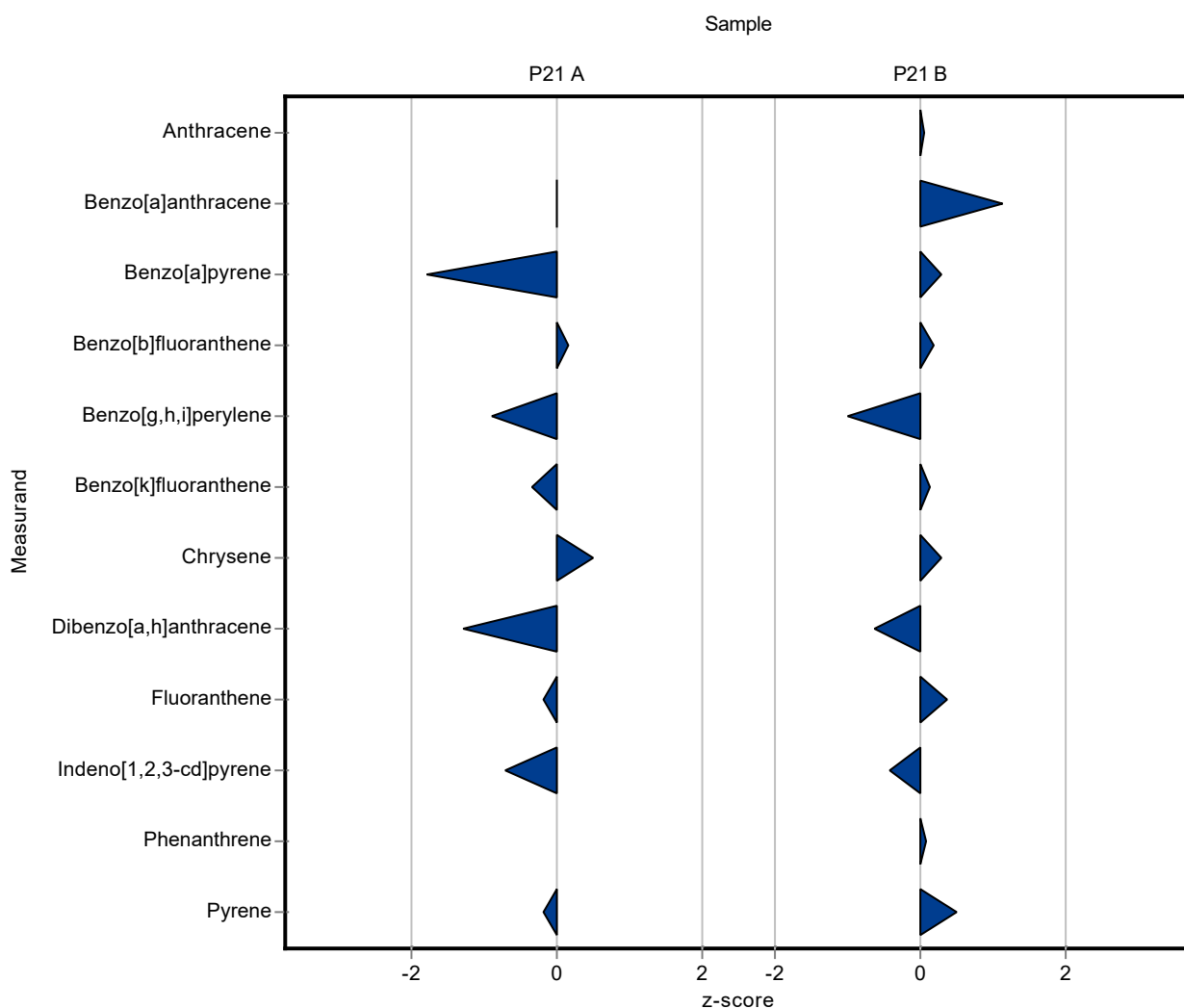
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<50 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.4 ± 6.3	3.02	100	0.00
Benzo[a]pyrene	ng/l	11.1 ± 1.88	6.27 ± 2.76	2.66	56.6	-1.81
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.6 ± 9.5	3.58	103	0.15
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	9.55 ± 4.2	4.3	71.1	-0.90
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11 ± 4.8	3.16	90.5	-0.36
Chrysene	ng/l	20.1 ± 2.16	22.6 ± 9.9	5.22	113	0.48
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	7.25 ± 3.19	3.55	61.3	-1.29
Fluoranthene	ng/l	12.5 ± 0.92	12.1 ± 5.3	2.26	96.5	-0.20
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	7.55 ± 3.32	2.65	79.8	-0.72
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<50 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	10.6 ± 4.7	1.75	97	-0.19

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	140 ± 62	57.6	102	0.05
Benzo[a]anthracene	ng/l	161 ± 18	199 ± 88	33.8	124	1.12
Benzo[a]pyrene	ng/l	152 ± 15	162 ± 71	36.5	107	0.28
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	69.5 ± 30.6	11.5	103	0.16
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	38.1 ± 16.8	18	67.8	-1.01
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 53	30.2	103	0.13
Chrysene	ng/l	56.3 ± 5.69	60.5 ± 26.6	14.7	107	0.28
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	69.1 ± 30.4	25.7	80.6	-0.65



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	80.5 ± 35.4	23.1	112	0.36
Fluorene	ng/l	186 ± 24.1	- ± -	26	-	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	96.5 ± 42.5	35.9	86.1	-0.43
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-	-
Phenanthrene	ng/l	76.4 ± 14.3	78.2 ± 34.4	32.1	102	0.05
Pyrene	ng/l	79.4 ± 8.28	85.5 ± 37.6	12.7	108	0.48



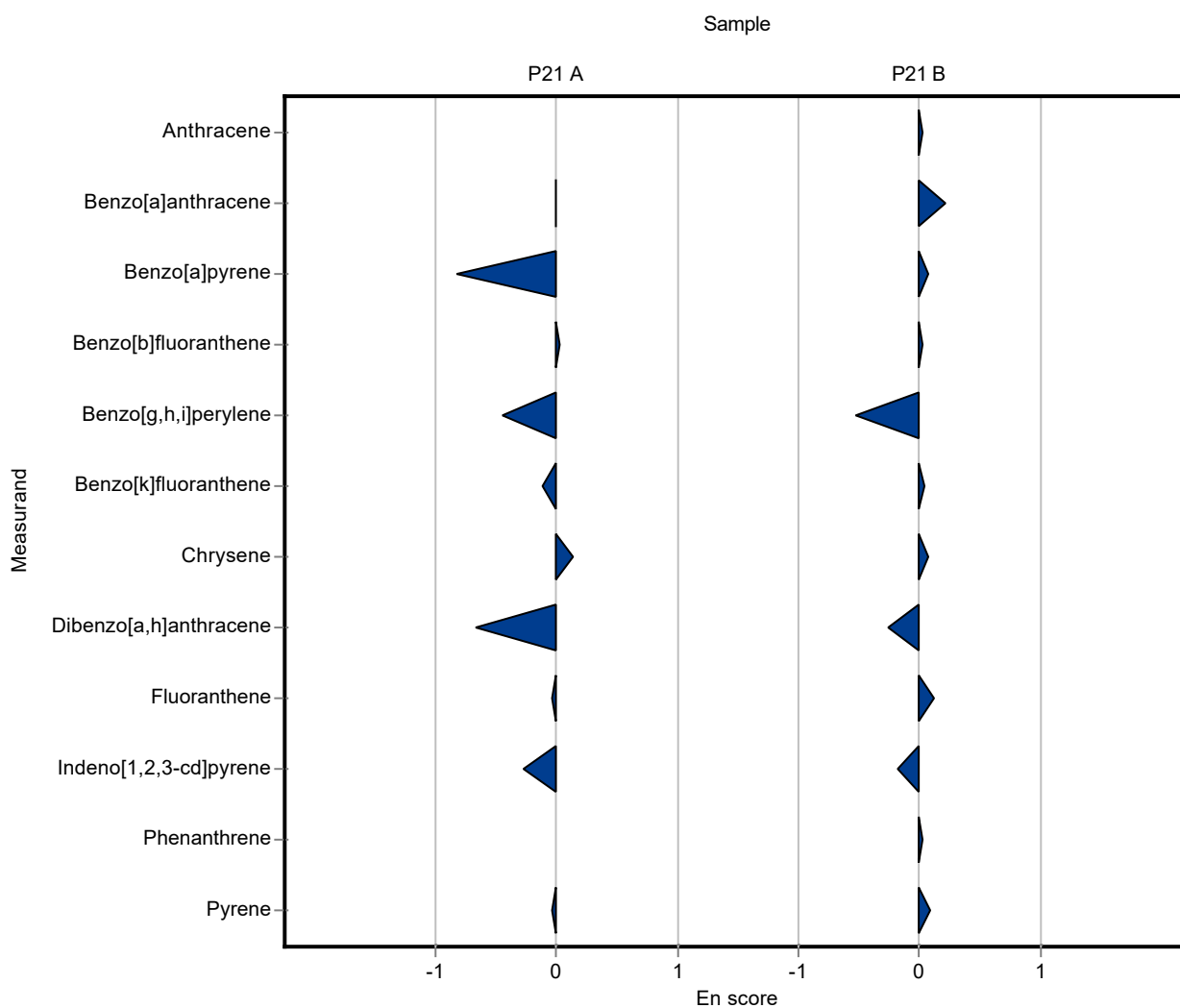
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<50 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	14.4 ± 6.3	3.02	100	0.00
Benzo[a]pyrene	ng/l	11.1 ± 1.88	6.27 ± 2.76	2.66	56.6	-0.82
Benzo[b]fluoranthene	ng/l	21 ± 1.85	21.6 ± 9.5	3.58	103	0.03
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	9.55 ± 4.2	4.3	71.1	-0.45
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	11 ± 4.8	3.16	90.5	-0.12
Chrysene	ng/l	20.1 ± 2.16	22.6 ± 9.9	5.22	113	0.13
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	7.25 ± 3.19	3.55	61.3	-0.67
Fluoranthene	ng/l	12.5 ± 0.92	12.1 ± 5.3	2.26	96.5	-0.04
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	7.55 ± 3.32	2.65	79.8	-0.28
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<50 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	10.6 ± 4.7	1.75	97	-0.03

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	140 ± 62	57.6	102	0.02
Benzo[a]anthracene	ng/l	161 ± 18	199 ± 88	33.8	124	0.21
Benzo[a]pyrene	ng/l	152 ± 15	162 ± 71	36.5	107	0.07
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	69.5 ± 30.6	11.5	103	0.03
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	38.1 ± 16.8	18	67.8	-0.53
Benzo[k]fluoranthene	ng/l	116 ± 8.71	120 ± 53	30.2	103	0.04
Chrysene	ng/l	56.3 ± 5.69	60.5 ± 26.6	14.7	107	0.08
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	69.1 ± 30.4	25.7	80.6	-0.26

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	80.5 ± 35.4	23.1	112
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	96.5 ± 42.5	35.9	86.1
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	78.2 ± 34.4	32.1	102
Pyrene	ng/l	79.4 ± 8.28	85.5 ± 37.6	12.7	108



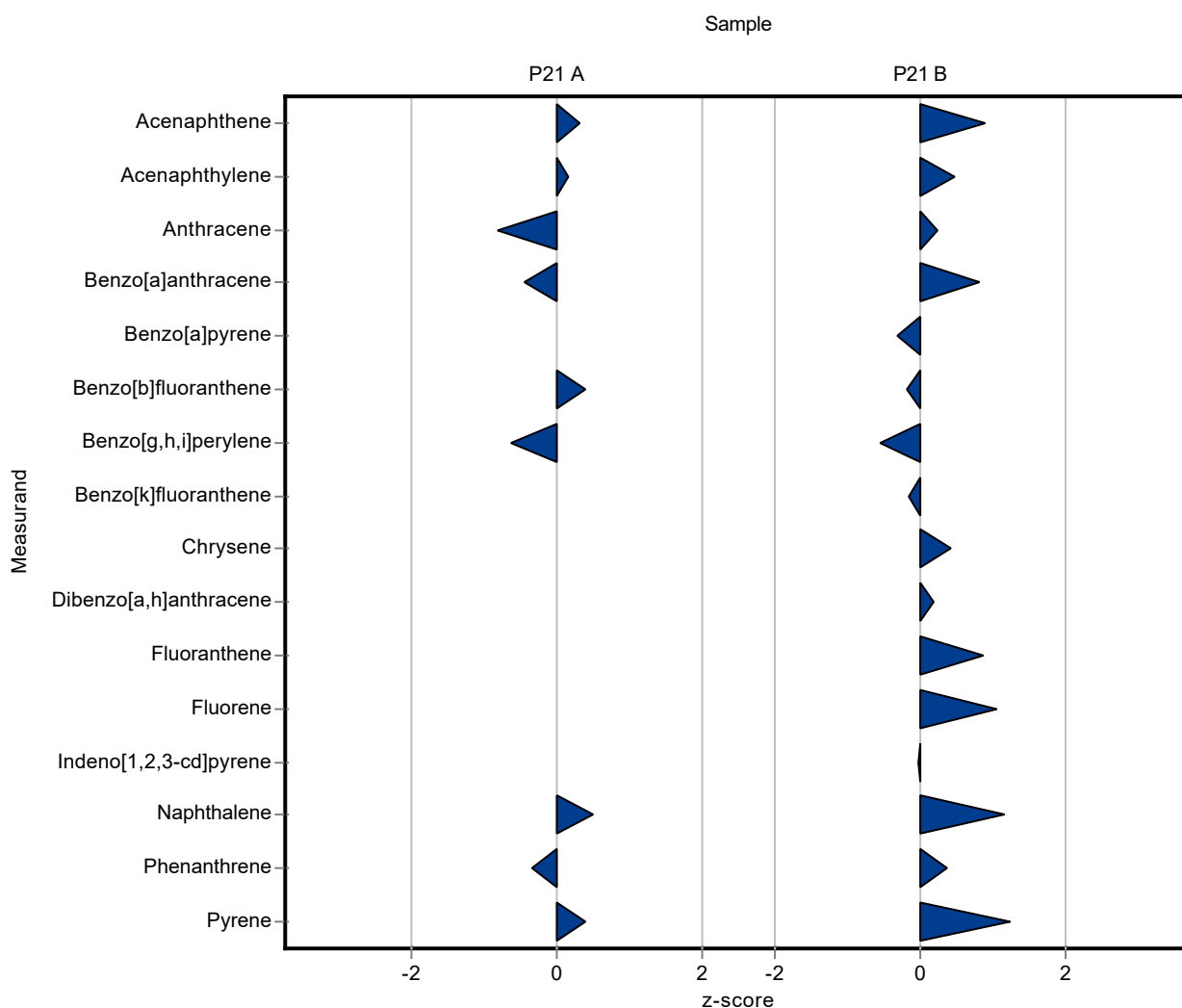
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	16.5 ± 0.61	2.96	106	0.31
Acenaphthylene	ng/l	16.8 ± 1.73	17.3 ± 0.5	3.52	103	0.15
Anthracene	ng/l	13.1 ± 1.28	10.7 ± 0.77	2.89	81.6	-0.84
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13 ± 0.24	3.02	90.3	-0.46
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	22.4 ± 1.85	3.58	106	0.38
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	10.7 ± 1.82	4.3	79.7	-0.63
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<30 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	31.5 ± 1.05	5.99	110	0.50
Phenanthrene	ng/l	14.7 ± 1.3	13.9 ± 0.5	2.2	94.7	-0.36
Pyrene	ng/l	10.9 ± 1.15	11.6 ± 0.4	1.75	106	0.39

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	190.1 ± 4.48	30.9	117	0.89
Acenaphthylene	ng/l	81.6 ± 12.2	95.2 ± 0.66	30.2	117	0.45
Anthracene	ng/l	137 ± 23.8	149.4 ± 2.3	57.6	109	0.21
Benzo[a]anthracene	ng/l	161 ± 18	188.4 ± 4.09	33.8	117	0.81
Benzo[a]pyrene	ng/l	152 ± 15	139.8 ± 3.19	36.5	92	-0.33
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	65.3 ± 0.75	11.5	96.5	-0.20
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.2 ± 2.97	18	82.2	-0.56
Benzo[k]fluoranthene	ng/l	116 ± 8.71	110.9 ± 2.03	30.2	95.5	-0.17
Chrysene	ng/l	56.3 ± 5.69	62.5 ± 1.58	14.7	111	0.42
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	90.3 ± 3.05	25.7	105	0.18

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	91.6 ± 3.18	23.1	127	0.84
Fluorene	ng/l	186 ± 24.1	213.2 ± 5.16	26	115	1.05
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	110.8 ± 4.34	35.9	98.8	-0.04
Naphthalene	ng/l	168 ± 28.1	208 ± 8.22	35.2	124	1.15
Phenanthrene	ng/l	76.4 ± 14.3	88.2 ± 1.57	32.1	115	0.37
Pyrene	ng/l	79.4 ± 8.28	94.8 ± 3.29	12.7	119	1.21



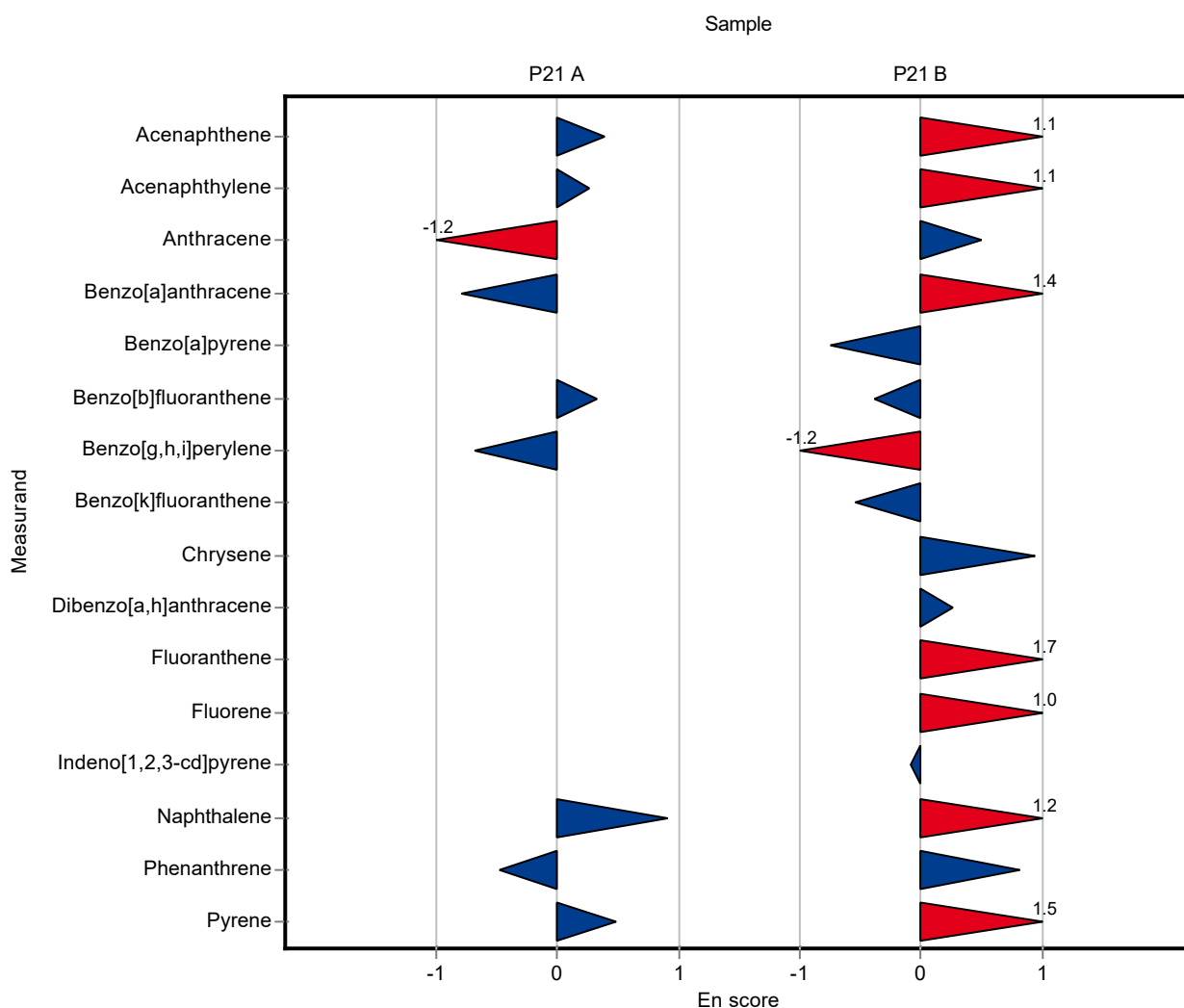
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	16.5 ± 0.61	2.96	106	0.38
Acenaphthylene	ng/l	16.8 ± 1.73	17.3 ± 0.5	3.52	103	0.26
Anthracene	ng/l	13.1 ± 1.28	10.7 ± 0.77	2.89	81.6	-1.21
Benzo[a]anthracene	ng/l	14.4 ± 1.7	13 ± 0.24	3.02	90.3	-0.80
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	22.4 ± 1.85	3.58	106	0.33
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	10.7 ± 1.82	4.3	79.7	-0.69
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<30 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<10 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<10 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	31.5 ± 1.05	5.99	110	0.91
Phenanthrene	ng/l	14.7 ± 1.3	13.9 ± 0.5	2.2	94.7	-0.48
Pyrene	ng/l	10.9 ± 1.15	11.6 ± 0.4	1.75	106	0.48

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	190.1 ± 4.48	30.9	117	1.12
Acenaphthylene	ng/l	81.6 ± 12.2	95.2 ± 0.66	30.2	117	1.10
Anthracene	ng/l	137 ± 23.8	149.4 ± 2.3	57.6	109	0.50
Benzo[a]anthracene	ng/l	161 ± 18	188.4 ± 4.09	33.8	117	1.39
Benzo[a]pyrene	ng/l	152 ± 15	139.8 ± 3.19	36.5	92	-0.74
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	65.3 ± 0.75	11.5	96.5	-0.38
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	46.2 ± 2.97	18	82.2	-1.23
Benzo[k]fluoranthene	ng/l	116 ± 8.71	110.9 ± 2.03	30.2	95.5	-0.54
Chrysene	ng/l	56.3 ± 5.69	62.5 ± 1.58	14.7	111	0.95
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	90.3 ± 3.05	25.7	105	0.26

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	91.6 ± 3.18	23.1	127
Fluorene	ng/l	186 ± 24.1	213.2 ± 5.16	26	115
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	110.8 ± 4.34	35.9	98.8
Naphthalene	ng/l	168 ± 28.1	208 ± 8.22	35.2	124
Phenanthrene	ng/l	76.4 ± 14.3	88.2 ± 1.57	32.1	115
Pyrene	ng/l	79.4 ± 8.28	94.8 ± 3.29	12.7	119



Sample: P21A

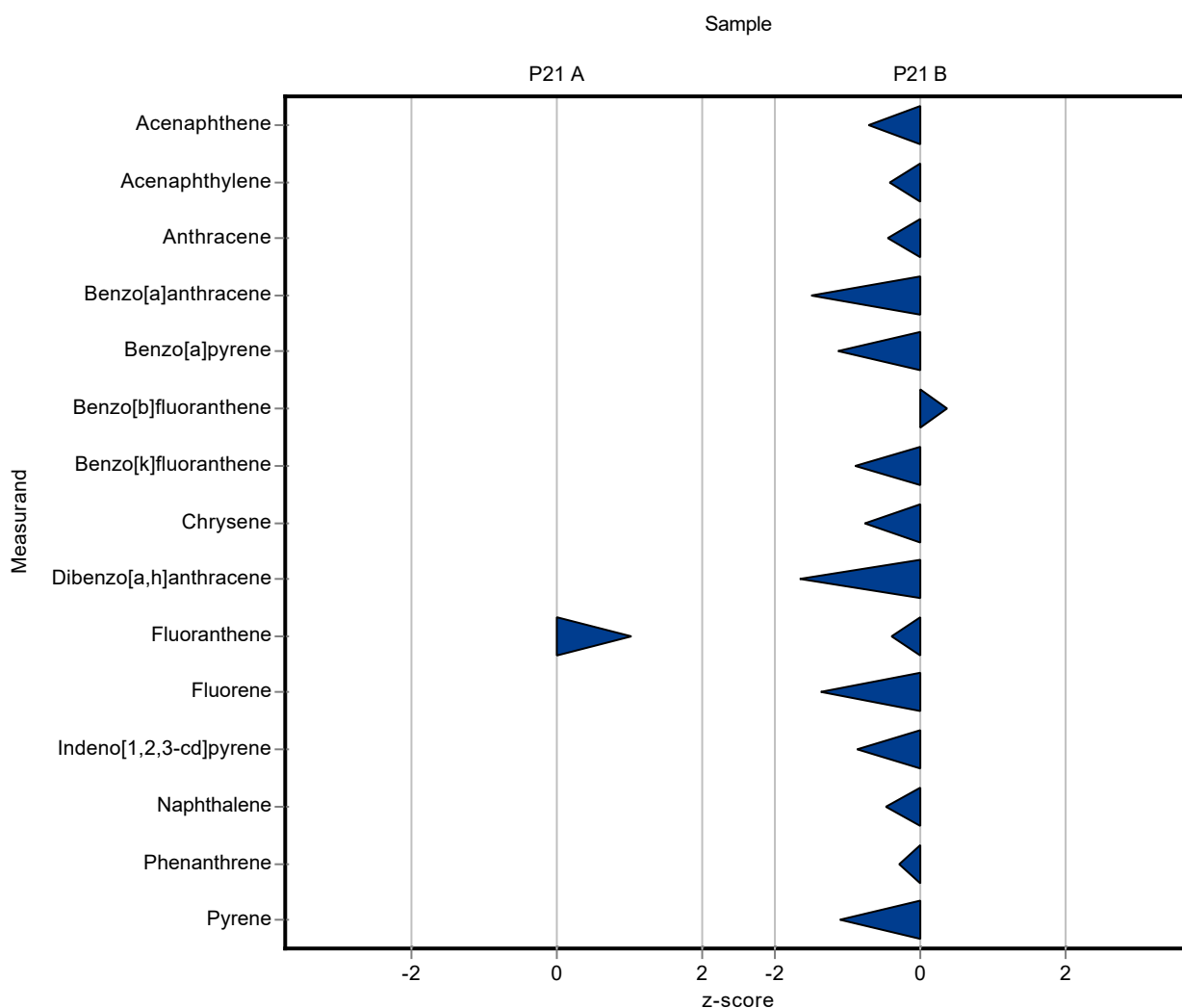
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<39 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<31 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<54 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<56 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<21 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<38 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<47 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<58 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<41 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<41 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	14.8 ± 2.9	2.26	118	1.00
Fluorene	ng/l	13 ± 0.921	<38 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<52 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<37 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<21 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<50 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	140 ± 24	30.9	86.1	-0.73
Acenaphthylene	ng/l	81.6 ± 12.2	68.6 ± 23.5	30.2	84	-0.43
Anthracene	ng/l	137 ± 23.8	110 ± 13.5	57.6	80.2	-0.47
Benzo[a]anthracene	ng/l	161 ± 18	110 ± 16.5	33.8	68.3	-1.51
Benzo[a]pyrene	ng/l	152 ± 15	110 ± 11	36.5	72.4	-1.15
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	71.6 ± 23	11.5	106	0.34
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	<47 (LOQ) ± -	18	-	-
Benzo[k]fluoranthene	ng/l	116 ± 8.71	88.7 ± 15	30.2	76.4	-0.91
Chrysene	ng/l	56.3 ± 5.69	45.1 ± 14.5	14.7	80	-0.77
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	42.6 ± 11	25.7	49.7	-1.68



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	62.4 ± 19.5	23.1	86.5	-0.42
Fluorene	ng/l	186 ± 24.1	150 ± 16	26	80.7	-1.38
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	80.7 ± 14	35.9	72	-0.88
Naphthalene	ng/l	168 ± 28.1	150 ± 23	35.2	89.6	-0.50
Phenanthrene	ng/l	76.4 ± 14.3	66.7 ± 21	32.1	87.3	-0.30
Pyrene	ng/l	79.4 ± 8.28	65.3 ± 21.5	12.7	82.2	-1.11



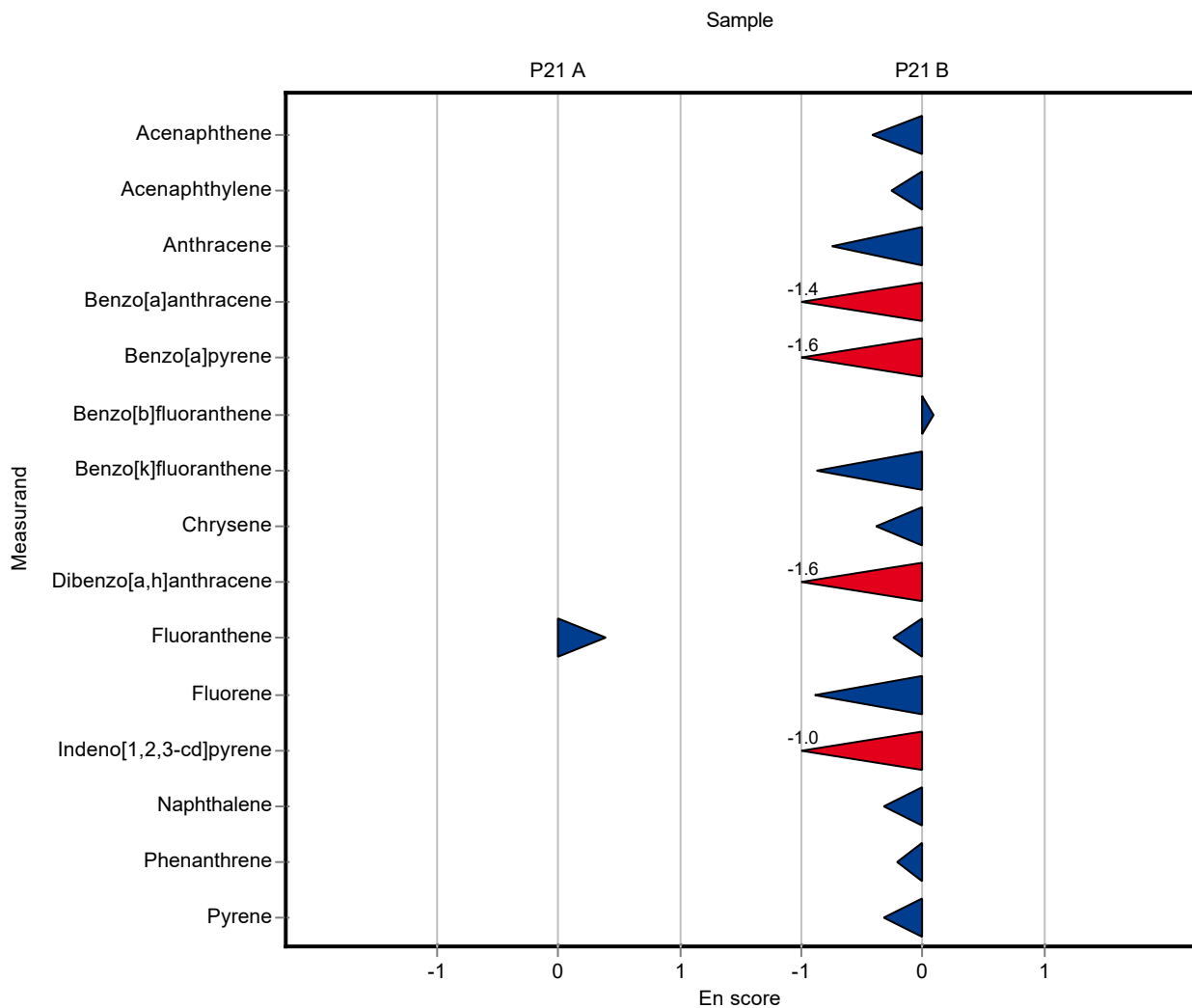
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<39 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<31 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<54 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<56 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<21 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<38 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<47 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<58 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<41 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<41 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	14.8 ± 2.9	2.26	118	0.39
Fluorene	ng/l	13 ± 0.921	<38 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<52 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<37 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<21 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<50 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	140 ± 24	30.9	86.1	-0.43
Acenaphthylene	ng/l	81.6 ± 12.2	68.6 ± 23.5	30.2	84	-0.27
Anthracene	ng/l	137 ± 23.8	110 ± 13.5	57.6	80.2	-0.76
Benzo[a]anthracene	ng/l	161 ± 18	110 ± 16.5	33.8	68.3	-1.36
Benzo[a]pyrene	ng/l	152 ± 15	110 ± 11	36.5	72.4	-1.57
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	71.6 ± 23	11.5	106	0.09
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	<47 (LOQ) ± -	18	-	-
Benzo[k]fluoranthene	ng/l	116 ± 8.71	88.7 ± 15	30.2	76.4	-0.88
Chrysene	ng/l	56.3 ± 5.69	45.1 ± 14.5	14.7	80	-0.38
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	42.6 ± 11	25.7	49.7	-1.57

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	62.4 ± 19.5	23.1	86.5 -0.24
Fluorene	ng/l	186 ± 24.1	150 ± 16	26	80.7 -0.90
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	80.7 ± 14	35.9	72 -1.01
Naphthalene	ng/l	168 ± 28.1	150 ± 23	35.2	89.6 -0.33
Phenanthrene	ng/l	76.4 ± 14.3	66.7 ± 21	32.1	87.3 -0.22
Pyrene	ng/l	79.4 ± 8.28	65.3 ± 21.5	12.7	82.2 -0.32



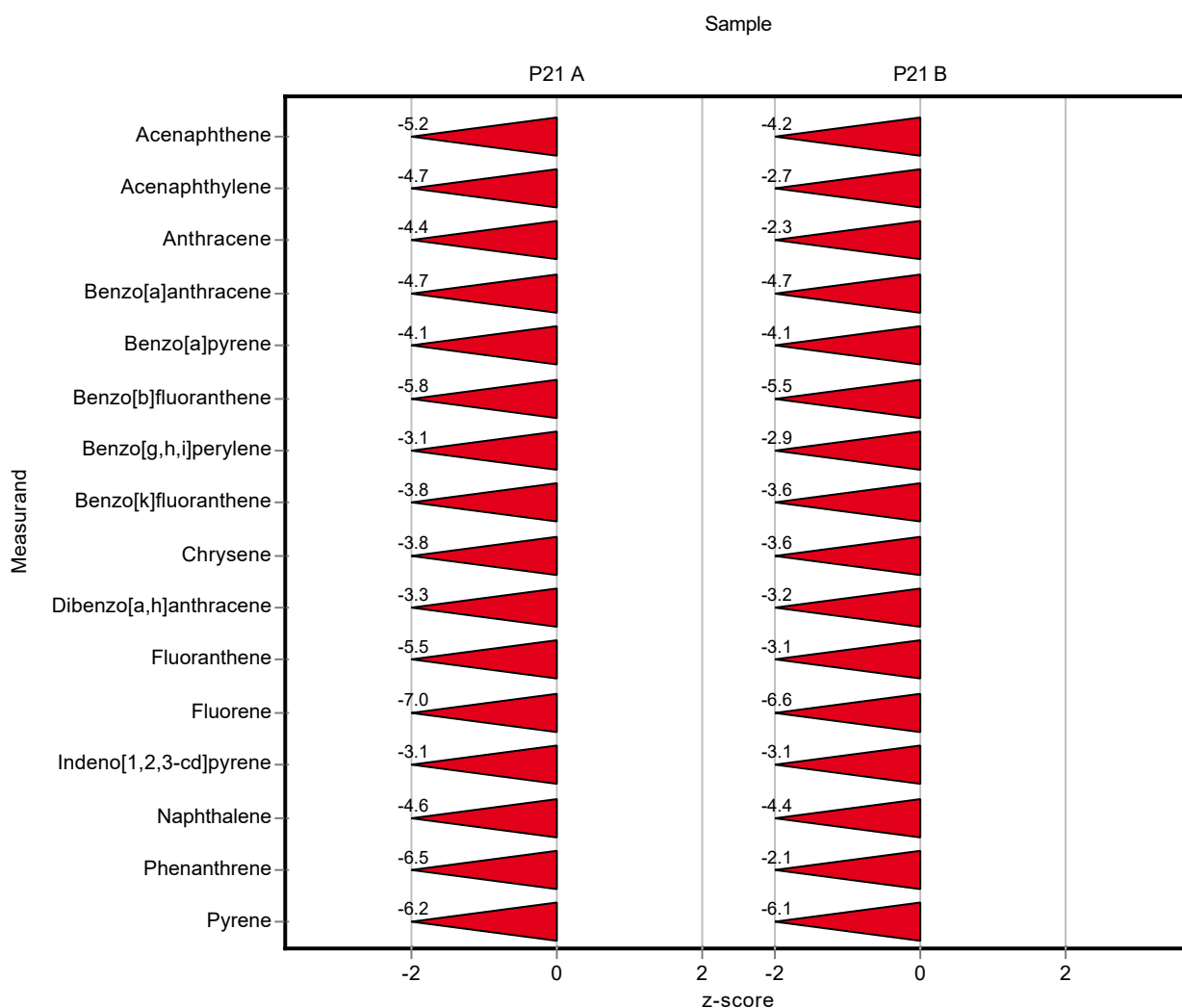
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	0.27 ± 0.01	2.96	1.73	-5.17
Acenaphthylene	ng/l	16.8 ± 1.73	0.298 ± 0.01	3.52	1.78	-4.68
Anthracene	ng/l	13.1 ± 1.28	0.281 ± 0.01	2.89	2.14	-4.45
Benzo[a]anthracene	ng/l	14.4 ± 1.7	0.164 ± 0.01	3.02	1.14	-4.71
Benzo[a]pyrene	ng/l	11.1 ± 1.88	0.128 ± 0.011	2.66	1.16	-4.12
Benzo[b]fluoranthene	ng/l	21 ± 1.85	0.206 ± 0.012	3.58	0.979	-5.82
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	0.114 ± 0.009	4.3	0.849	-3.10
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	0.116 ± 0.01	3.16	0.954	-3.81
Chrysene	ng/l	20.1 ± 2.16	0.216 ± 0.01	5.22	1.08	-3.80
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	0.122 ± 0.01	3.55	1.03	-3.30
Fluoranthene	ng/l	12.5 ± 0.92	0.158 ± 0.01	2.26	1.26	-5.49
Fluorene	ng/l	13 ± 0.921	0.24 ± 0.01	1.82	1.85	-7.01
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	1.153 ± 0.0108	2.65	12.2	-3.14
Naphthalene	ng/l	28.5 ± 2.52	0.68 ± 0.01	5.99	2.38	-4.65
Phenanthrene	ng/l	14.7 ± 1.3	0.281 ± 0.01	2.2	1.91	-6.54
Pyrene	ng/l	10.9 ± 1.15	0.14 ± 0.01	1.75	1.28	-6.17

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	33.5 ± 0.01	30.9	20.6	-4.18
Acenaphthylene	ng/l	81.6 ± 12.2	1.06 ± 0.01	30.2	1.3	-2.67
Anthracene	ng/l	137 ± 23.8	6.23 ± 0.01	57.6	4.54	-2.27
Benzo[a]anthracene	ng/l	161 ± 18	3.46 ± 0.01	33.8	2.15	-4.66
Benzo[a]pyrene	ng/l	152 ± 15	4.1 ± 0.011	36.5	2.7	-4.05
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	4.4 ± 0.012	11.5	6.5	-5.50
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	3.57 ± 0.0093	18	6.35	-2.93
Benzo[k]fluoranthene	ng/l	116 ± 8.71	8.17 ± 0.01	30.2	7.04	-3.58
Chrysene	ng/l	56.3 ± 5.69	4.11 ± 0.01	14.7	7.29	-3.57
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	4.59 ± 0.01	25.7	5.36	-3.15

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	1.033 ± 0.01	23.1	1.43
Fluorene	ng/l	186 ± 24.1	14.96 ± 0.01	26	8.05
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	0.35 ± 0.0108	35.9	0.312
Naphthalene	ng/l	168 ± 28.1	13.3 ± 0.01	35.2	7.94
Phenanthrene	ng/l	76.4 ± 14.3	7.84 ± 0.01	32.1	10.3
Pyrene	ng/l	79.4 ± 8.28	1.733 ± 0.01	12.7	2.18



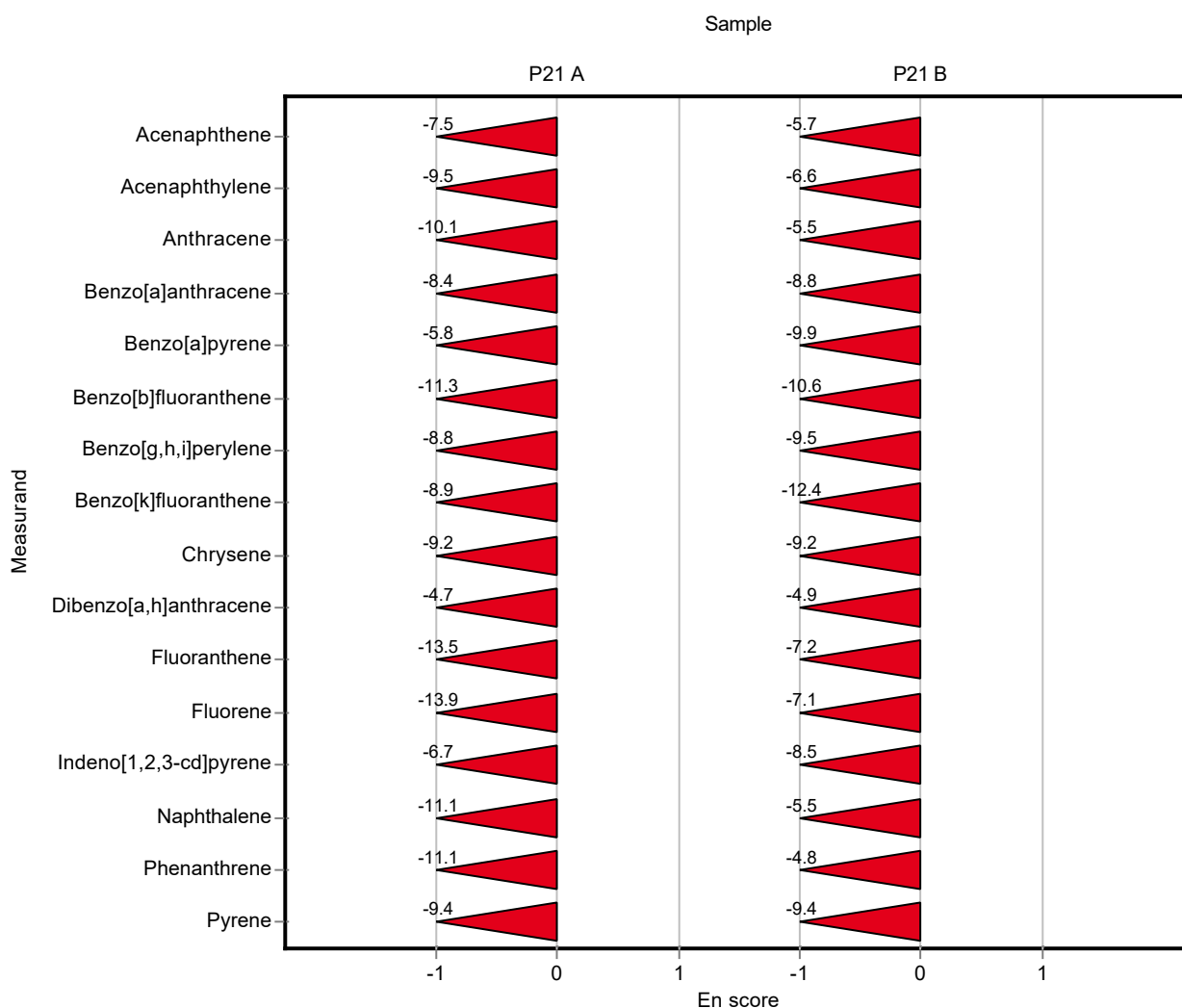
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	0.27 ± 0.01	2.96	1.73	-7.53
Acenaphthylene	ng/l	16.8 ± 1.73	0.298 ± 0.01	3.52	1.78	-9.51
Anthracene	ng/l	13.1 ± 1.28	0.281 ± 0.01	2.89	2.14	-10.10
Benzo[a]anthracene	ng/l	14.4 ± 1.7	0.164 ± 0.01	3.02	1.14	-8.40
Benzo[a]pyrene	ng/l	11.1 ± 1.88	0.128 ± 0.011	2.66	1.16	-5.82
Benzo[b]fluoranthene	ng/l	21 ± 1.85	0.206 ± 0.012	3.58	0.979	-11.30
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	0.114 ± 0.009	4.3	0.849	-8.78
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	0.116 ± 0.01	3.16	0.954	-8.92
Chrysene	ng/l	20.1 ± 2.16	0.216 ± 0.01	5.22	1.08	-9.19
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	0.122 ± 0.01	3.55	1.03	-4.74
Fluoranthene	ng/l	12.5 ± 0.92	0.158 ± 0.01	2.26	1.26	-13.50
Fluorene	ng/l	13 ± 0.921	0.24 ± 0.01	1.82	1.85	-13.90
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	1.153 ± 0.0108	2.65	12.2	-6.72
Naphthalene	ng/l	28.5 ± 2.52	0.68 ± 0.01	5.99	2.38	-11.10
Phenanthrene	ng/l	14.7 ± 1.3	0.281 ± 0.01	2.2	1.91	-11.10
Pyrene	ng/l	10.9 ± 1.15	0.14 ± 0.01	1.75	1.28	-9.39

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	33.5 ± 0.01	30.9	20.6	-5.66
Acenaphthylene	ng/l	81.6 ± 12.2	1.06 ± 0.01	30.2	1.3	-6.59
Anthracene	ng/l	137 ± 23.8	6.23 ± 0.01	57.6	4.54	-5.51
Benzo[a]anthracene	ng/l	161 ± 18	3.46 ± 0.01	33.8	2.15	-8.78
Benzo[a]pyrene	ng/l	152 ± 15	4.1 ± 0.011	36.5	2.7	-9.85
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	4.4 ± 0.012	11.5	6.5	-10.60
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	3.57 ± 0.0093	18	6.35	-9.51
Benzo[k]fluoranthene	ng/l	116 ± 8.71	8.17 ± 0.01	30.2	7.04	-12.40
Chrysene	ng/l	56.3 ± 5.69	4.11 ± 0.01	14.7	7.29	-9.18
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	4.59 ± 0.01	25.7	5.36	-4.92

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	1.033 ± 0.01	23.1	1.43
Fluorene	ng/l	186 ± 24.1	14.96 ± 0.01	26	8.05
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	0.35 ± 0.0108	35.9	0.312
Naphthalene	ng/l	168 ± 28.1	13.3 ± 0.01	35.2	7.94
Phenanthrene	ng/l	76.4 ± 14.3	7.84 ± 0.01	32.1	10.3
Pyrene	ng/l	79.4 ± 8.28	1.733 ± 0.01	12.7	2.18



Sample: P21A

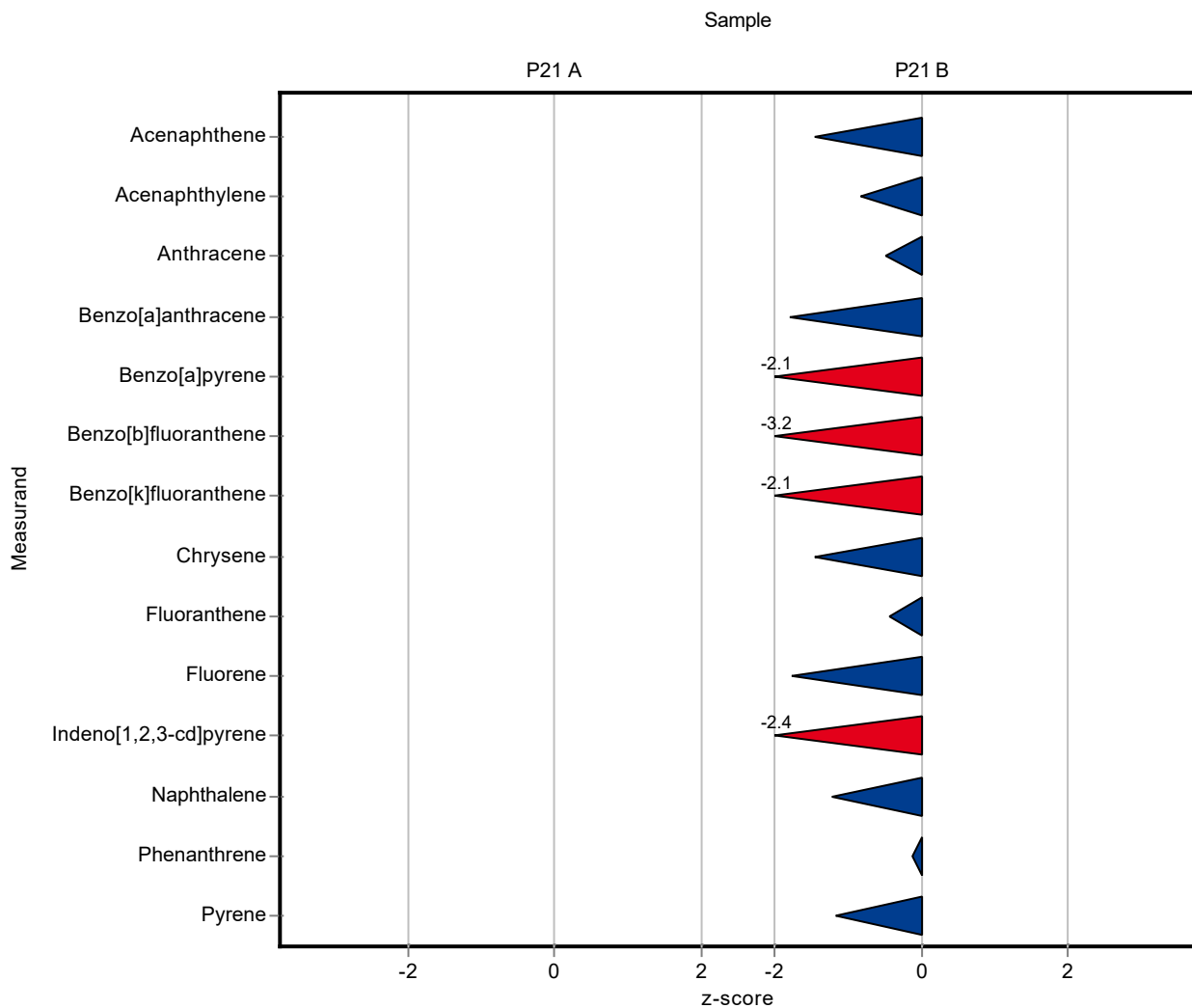
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<20 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<20 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<20 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<20 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<20 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<20 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<20 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<20 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<20 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<20 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<20 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	118.1 ± 11.8	30.9	72.6	-1.44
Acenaphthylene	ng/l	81.6 ± 12.2	56.5 ± 5.7	30.2	69.2	-0.83
Anthracene	ng/l	137 ± 23.8	109 ± 10.9	57.6	79.4	-0.49
Benzo[a]anthracene	ng/l	161 ± 18	100.4 ± 10	33.8	62.3	-1.79
Benzo[a]pyrene	ng/l	152 ± 15	74.8 ± 7.5	36.5	49.2	-2.12
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	31.3 ± 3.1	11.5	46.3	-3.16
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	<20 (LOQ) ± -	18	-	-
Benzo[k]fluoranthene	ng/l	116 ± 8.71	53.3 ± 5.3	30.2	45.9	-2.08
Chrysene	ng/l	56.3 ± 5.69	35.1 ± 3.5	14.7	62.3	-1.45
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	<20 (LOQ) ± -	25.7	-	-



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	61.8 ± 6.2	23.1	85.7	-0.45
Fluorene	ng/l	186 ± 24.1	140.1 ± 14	26	75.4	-1.76
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	25.1 ± 2.5	35.9	22.4	-2.43
Naphthalene	ng/l	168 ± 28.1	124.5 ± 12.5	35.2	74.3	-1.22
Phenanthrene	ng/l	76.4 ± 14.3	72.8 ± 7.3	32.1	95.2	-0.11
Pyrene	ng/l	79.4 ± 8.28	64.5 ± 6.4	12.7	81.2	-1.17



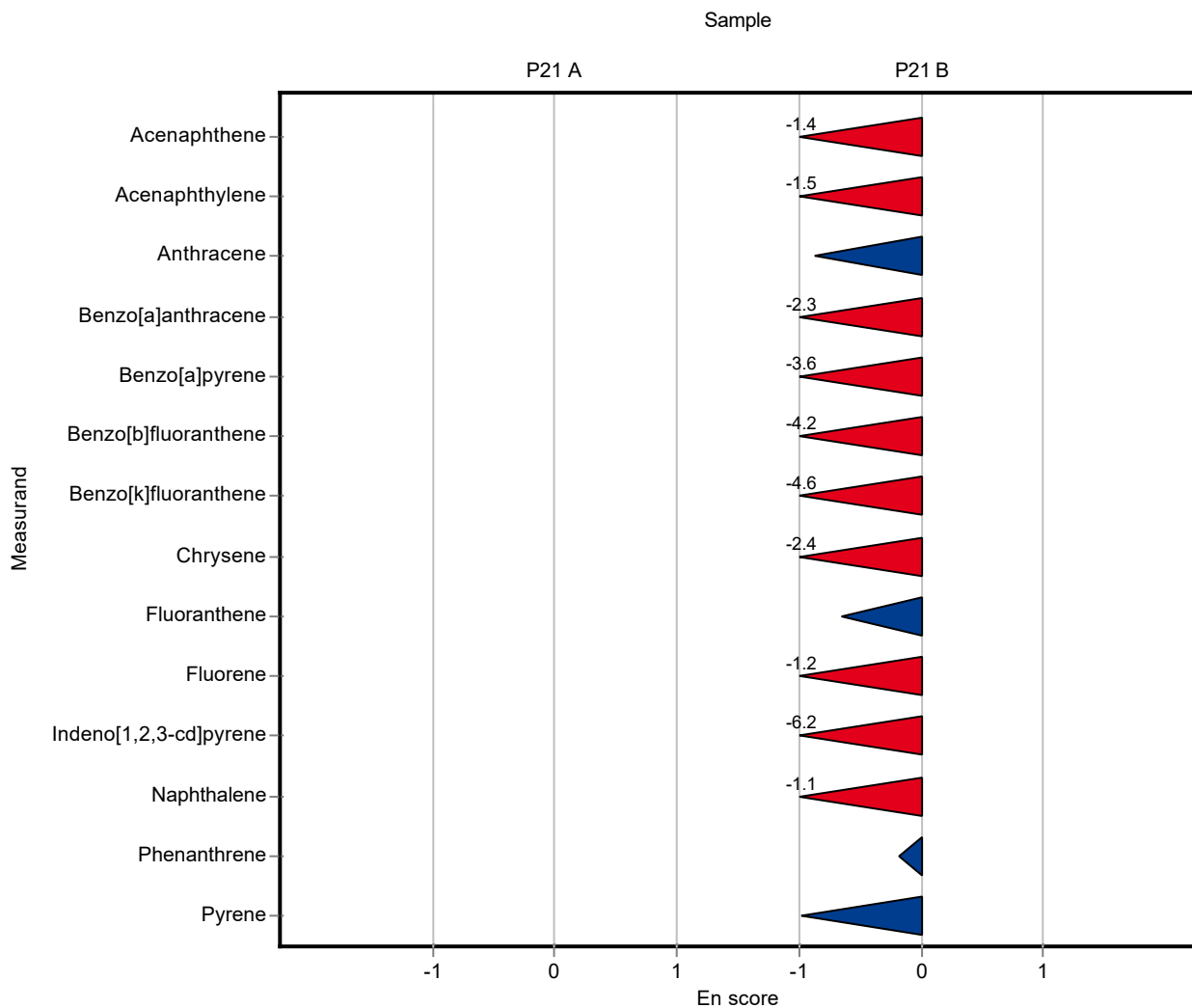
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<20 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	<20 (LOQ) ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<20 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<20 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<20 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<20 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<20 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<20 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	<20 (LOQ) ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	<20 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<20 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	118.1 ± 11.8	30.9	72.6	-1.36
Acenaphthylene	ng/l	81.6 ± 12.2	56.5 ± 5.7	30.2	69.2	-1.50
Anthracene	ng/l	137 ± 23.8	109 ± 10.9	57.6	79.4	-0.88
Benzo[a]anthracene	ng/l	161 ± 18	100.4 ± 10	33.8	62.3	-2.26
Benzo[a]pyrene	ng/l	152 ± 15	74.8 ± 7.5	36.5	49.2	-3.64
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	31.3 ± 3.1	11.5	46.3	-4.22
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	<20 (LOQ) ± -	18	-	-
Benzo[k]fluoranthene	ng/l	116 ± 8.71	53.3 ± 5.3	30.2	45.9	-4.58
Chrysene	ng/l	56.3 ± 5.69	35.1 ± 3.5	14.7	62.3	-2.36
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	<20 (LOQ) ± -	25.7	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	61.8 ± 6.2	23.1	85.7	-0.65
Fluorene	ng/l	186 ± 24.1	140.1 ± 14	26	75.4	-1.24
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	25.1 ± 2.5	35.9	22.4	-6.16
Naphthalene	ng/l	168 ± 28.1	124.5 ± 12.5	35.2	74.3	-1.14
Phenanthrene	ng/l	76.4 ± 14.3	72.8 ± 7.3	32.1	95.2	-0.18
Pyrene	ng/l	79.4 ± 8.28	64.5 ± 6.4	12.7	81.2	-0.98



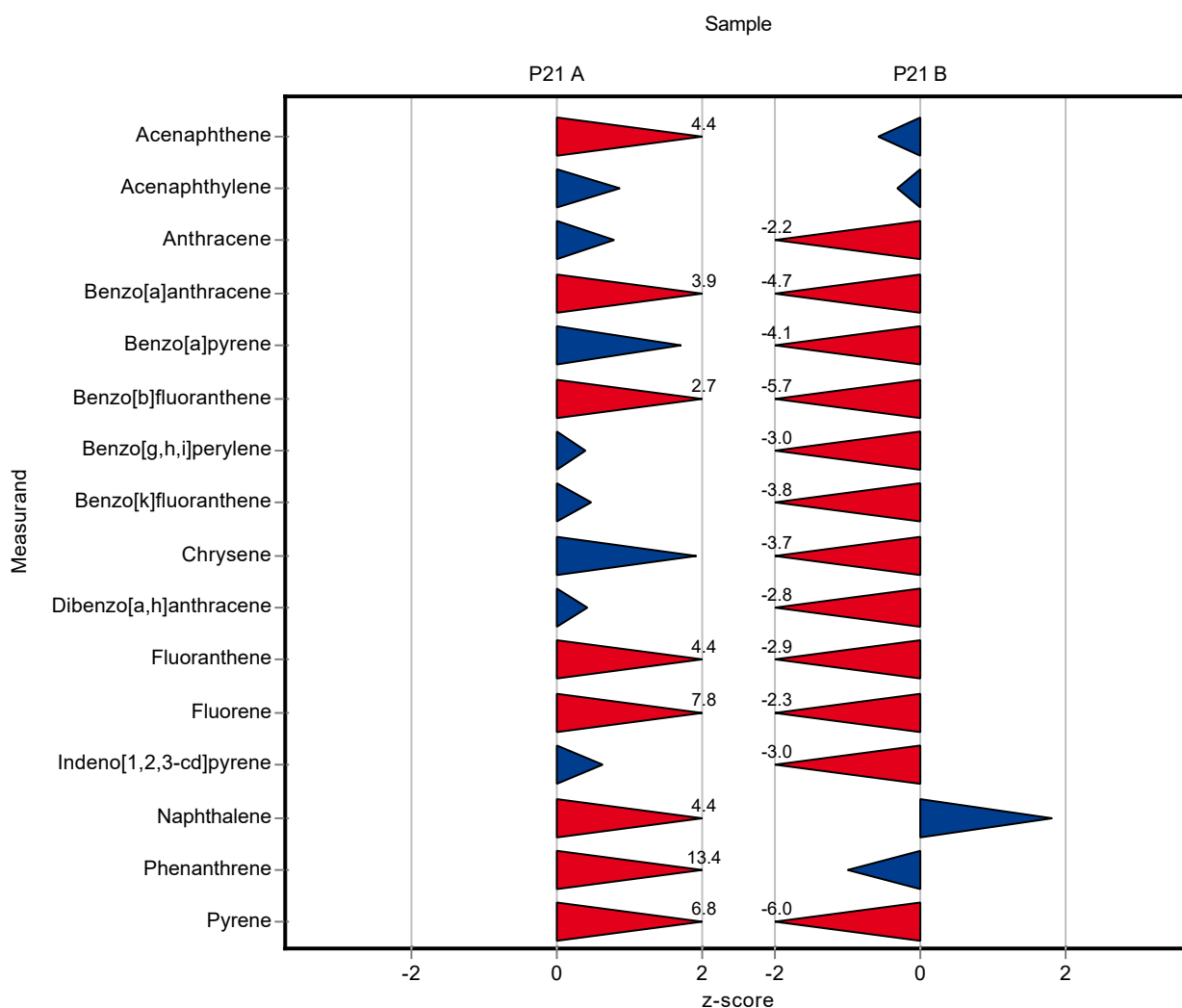
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	28.65 ± 8.11	2.96	184	4.41
Acenaphthylene	ng/l	16.8 ± 1.73	19.76 ± 11.05	3.52	118	0.85
Anthracene	ng/l	13.1 ± 1.28	15.38 ± 3.41	2.89	117	0.78
Benzo[a]anthracene	ng/l	14.4 ± 1.7	26.25 ± 4.02	3.02	182	3.92
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.6 ± 2.26	2.66	141	1.70
Benzo[b]fluoranthene	ng/l	21 ± 1.85	30.7 ± 5.83	3.58	146	2.70
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.08 ± 2.58	4.3	112	0.39
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.65 ± 2.28	3.16	112	0.47
Chrysene	ng/l	20.1 ± 2.16	30.01 ± 4.32	5.22	149	1.90
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.28 ± 3.85	3.55	112	0.41
Fluoranthene	ng/l	12.5 ± 0.92	22.5 ± 2.48	2.26	179	4.41
Fluorene	ng/l	13 ± 0.921	27.23 ± 7.57	1.82	209	7.81
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.07 ± 1.96	2.65	117	0.61
Naphthalene	ng/l	28.5 ± 2.52	55.08 ± 28.09	5.99	193	4.43
Phenanthrene	ng/l	14.7 ± 1.3	44.15 ± 6.62	2.2	301	13.40
Pyrene	ng/l	10.9 ± 1.15	22.87 ± 2.79	1.75	209	6.83

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	144.25 ± 40.82	30.9	88.7	-0.59
Acenaphthylene	ng/l	81.6 ± 12.2	72.03 ± 40.26	30.2	88.3	-0.32
Anthracene	ng/l	137 ± 23.8	10.35 ± 2.3	57.6	7.54	-2.20
Benzo[a]anthracene	ng/l	161 ± 18	2.7 ± 0.41	33.8	1.68	-4.68
Benzo[a]pyrene	ng/l	152 ± 15	2.24 ± 0.32	36.5	1.47	-4.11
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	2.13 ± 0.4	11.5	3.15	-5.70
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	2.37 ± 0.41	18	4.22	-2.99
Benzo[k]fluoranthene	ng/l	116 ± 8.71	2.48 ± 0.41	30.2	2.14	-3.76
Chrysene	ng/l	56.3 ± 5.69	2.18 ± 0.31	14.7	3.87	-3.70
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	13.24 ± 3.84	25.7	15.5	-2.82

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	5.76 ± 0.63	23.1	7.99	-2.88
Fluorene	ng/l	186 ± 24.1	125.72 ± 34.95	26	67.6	-2.31
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	3.85 ± 0.68	35.9	3.43	-3.02
Naphthalene	ng/l	168 ± 28.1	231.29 ± 117.96	35.2	138	1.81
Phenanthrene	ng/l	76.4 ± 14.3	43.8 ± 6.57	32.1	57.3	-1.02
Pyrene	ng/l	79.4 ± 8.28	3.6 ± 0.44	12.7	4.53	-5.97



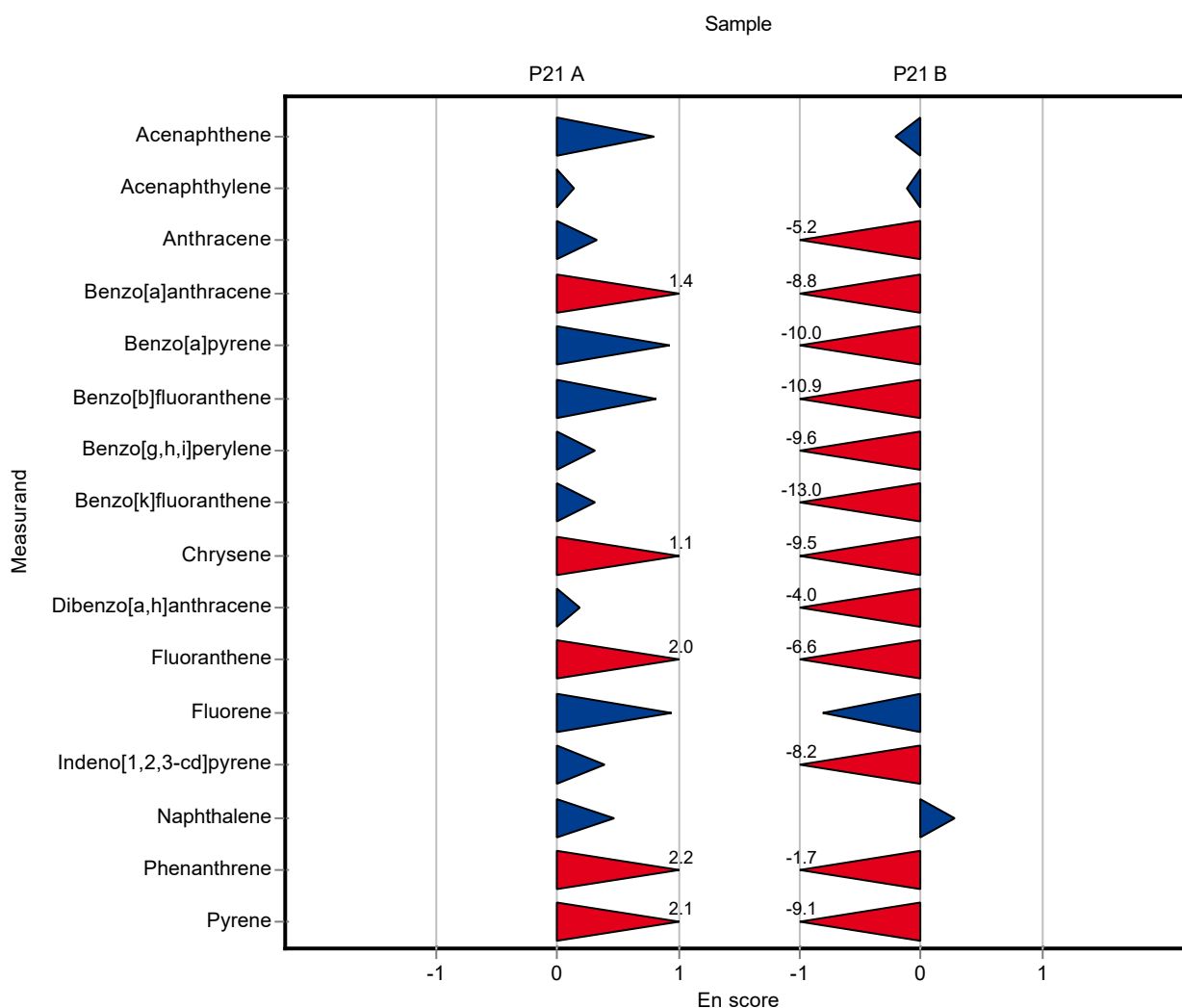
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	28.65 ± 8.11	2.96	184	0.80
Acenaphthylene	ng/l	16.8 ± 1.73	19.76 ± 11.05	3.52	118	0.14
Anthracene	ng/l	13.1 ± 1.28	15.38 ± 3.41	2.89	117	0.33
Benzo[a]anthracene	ng/l	14.4 ± 1.7	26.25 ± 4.02	3.02	182	1.44
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.6 ± 2.26	2.66	141	0.92
Benzo[b]fluoranthene	ng/l	21 ± 1.85	30.7 ± 5.83	3.58	146	0.82
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.08 ± 2.58	4.3	112	0.31
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.65 ± 2.28	3.16	112	0.31
Chrysene	ng/l	20.1 ± 2.16	30.01 ± 4.32	5.22	149	1.11
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.28 ± 3.85	3.55	112	0.18
Fluoranthene	ng/l	12.5 ± 0.92	22.5 ± 2.48	2.26	179	1.97
Fluorene	ng/l	13 ± 0.921	27.23 ± 7.57	1.82	209	0.94
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.07 ± 1.96	2.65	117	0.39
Naphthalene	ng/l	28.5 ± 2.52	55.08 ± 28.09	5.99	193	0.47
Phenanthrene	ng/l	14.7 ± 1.3	44.15 ± 6.62	2.2	301	2.21
Pyrene	ng/l	10.9 ± 1.15	22.87 ± 2.79	1.75	209	2.10

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	144.25 ± 40.82	30.9	88.7	-0.22
Acenaphthylene	ng/l	81.6 ± 12.2	72.03 ± 40.26	30.2	88.3	-0.12
Anthracene	ng/l	137 ± 23.8	10.35 ± 2.3	57.6	7.54	-5.24
Benzo[a]anthracene	ng/l	161 ± 18	2.7 ± 0.41	33.8	1.68	-8.81
Benzo[a]pyrene	ng/l	152 ± 15	2.24 ± 0.32	36.5	1.47	-9.97
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	2.13 ± 0.4	11.5	3.15	-10.90
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	2.37 ± 0.41	18	4.22	-9.63
Benzo[k]fluoranthene	ng/l	116 ± 8.71	2.48 ± 0.41	30.2	2.14	-13.00
Chrysene	ng/l	56.3 ± 5.69	2.18 ± 0.31	14.7	3.87	-9.47
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	13.24 ± 3.84	25.7	15.5	-3.98

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score	
Fluoranthene	ng/l	72.1 ± 9.92	5.76 ± 0.63	23.1	7.99	-6.64
Fluorene	ng/l	186 ± 24.1	125.72 ± 34.95	26	67.6	-0.81
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	3.85 ± 0.68	35.9	3.43	-8.15
Naphthalene	ng/l	168 ± 28.1	231.29 ± 117.96	35.2	138	0.27
Phenanthrene	ng/l	76.4 ± 14.3	43.8 ± 6.57	32.1	57.3	-1.68
Pyrene	ng/l	79.4 ± 8.28	3.6 ± 0.44	12.7	4.53	-9.10



Sample: P21A

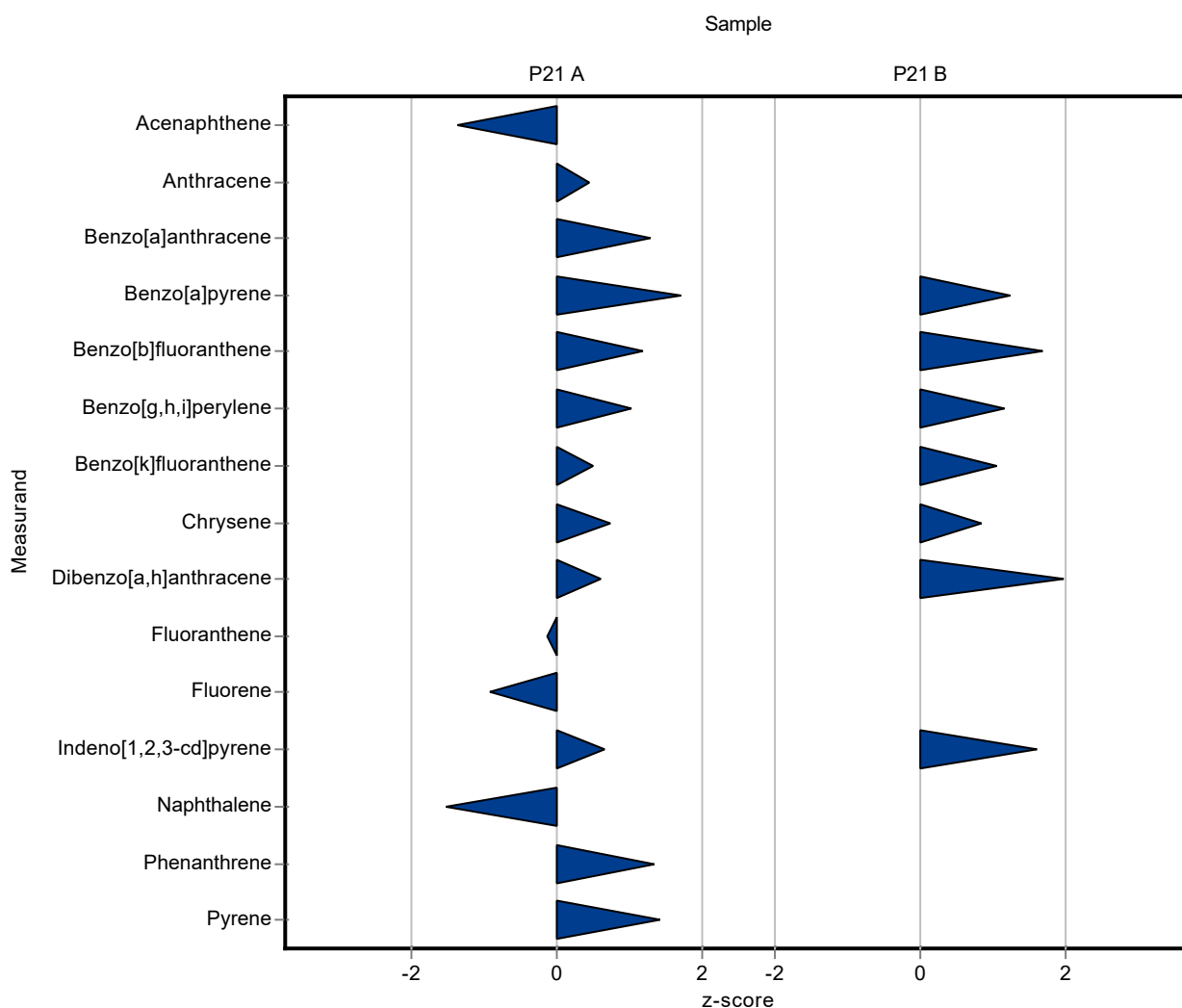
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.5 ± 2.9	2.96	73.7	-1.38
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	14.4 ± 3.6	2.89	110	0.45
Benzo[a]anthracene	ng/l	14.4 ± 1.7	18.3 ± 4.6	3.02	127	1.29
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.6 ± 3.9	2.66	141	1.70
Benzo[b]fluoranthene	ng/l	21 ± 1.85	25.2 ± 6.3	3.58	120	1.16
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	17.8 ± 4.4	4.3	133	1.02
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.7 ± 3.4	3.16	113	0.49
Chrysene	ng/l	20.1 ± 2.16	23.9 ± 6	5.22	119	0.73
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.9 ± 3.5	3.55	118	0.58
Fluoranthene	ng/l	12.5 ± 0.92	12.2 ± 3	2.26	97.3	-0.15
Fluorene	ng/l	13 ± 0.921	11.3 ± 2.8	1.82	86.9	-0.94
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.2 ± 2.8	2.65	118	0.66
Naphthalene	ng/l	28.5 ± 2.52	19.3 ± 4.8	5.99	67.7	-1.54
Phenanthrene	ng/l	14.7 ± 1.3	17.6 ± 4.4	2.2	120	1.32
Pyrene	ng/l	10.9 ± 1.15	13.4 ± 3.4	1.75	123	1.42

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	196.9 ± 49.2	36.5	130	1.23
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	86.8 ± 21.7	11.5	128	1.67
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	77 ± 19.2	18	137	1.16
Benzo[k]fluoranthene	ng/l	116 ± 8.71	147.6 ± 36.9	30.2	127	1.04
Chrysene	ng/l	56.3 ± 5.69	68.4 ± 17.1	14.7	121	0.82
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	136 ± 34	25.7	159	1.96



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	169.1 ± 42.3	35.9	1.59
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



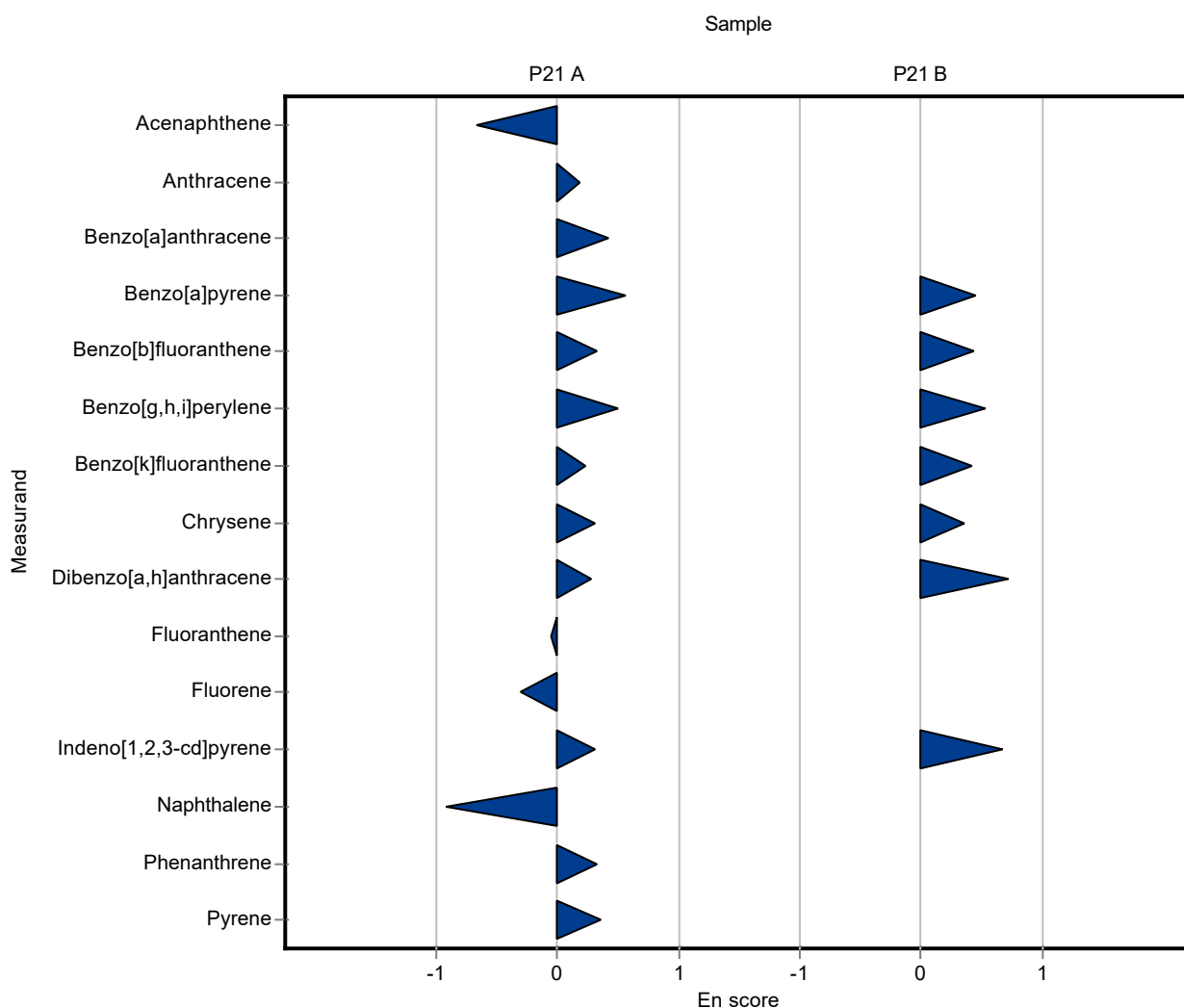
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	11.5 ± 2.9	2.96	73.7	-0.67
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	14.4 ± 3.6	2.89	110	0.18
Benzo[a]anthracene	ng/l	14.4 ± 1.7	18.3 ± 4.6	3.02	127	0.42
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.6 ± 3.9	2.66	141	0.56
Benzo[b]fluoranthene	ng/l	21 ± 1.85	25.2 ± 6.3	3.58	120	0.33
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	17.8 ± 4.4	4.3	133	0.49
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	13.7 ± 3.4	3.16	113	0.22
Chrysene	ng/l	20.1 ± 2.16	23.9 ± 6	5.22	119	0.31
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13.9 ± 3.5	3.55	118	0.28
Fluoranthene	ng/l	12.5 ± 0.92	12.2 ± 3	2.26	97.3	-0.06
Fluorene	ng/l	13 ± 0.921	11.3 ± 2.8	1.82	86.9	-0.30
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.2 ± 2.8	2.65	118	0.30
Naphthalene	ng/l	28.5 ± 2.52	19.3 ± 4.8	5.99	67.7	-0.93
Phenanthrene	ng/l	14.7 ± 1.3	17.6 ± 4.4	2.2	120	0.33
Pyrene	ng/l	10.9 ± 1.15	13.4 ± 3.4	1.75	123	0.36

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	196.9 ± 49.2	36.5	130	0.45
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	86.8 ± 21.7	11.5	128	0.44
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	77 ± 19.2	18	137	0.54
Benzo[k]fluoranthene	ng/l	116 ± 8.71	147.6 ± 36.9	30.2	127	0.42
Chrysene	ng/l	56.3 ± 5.69	68.4 ± 17.1	14.7	121	0.35
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	136 ± 34	25.7	159	0.72

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	169.1 ± 42.3	35.9	151
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



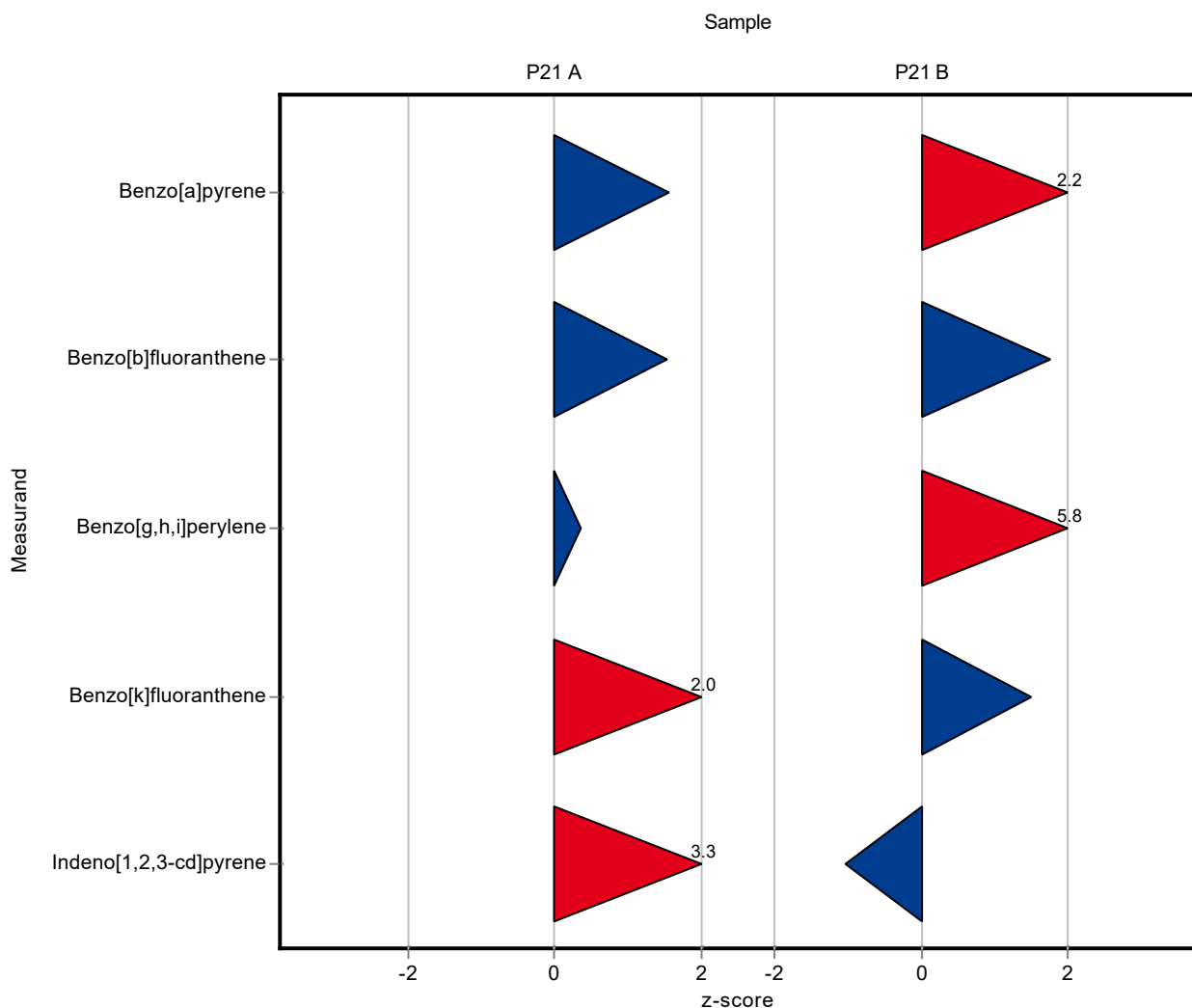
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	- ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	- ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.2 ± 1.52	2.66	137	1.55
Benzo[b]fluoranthene	ng/l	21 ± 1.85	26.5 ± 2.65	3.58	126	1.52
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15 ± 1.5	4.3	112	0.37
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	18.5 ± 1.85	3.16	152	2.01
Chrysene	ng/l	20.1 ± 2.16	- ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	- ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	- ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	18.3 ± 1.83	2.65	193	3.33
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	- ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	231 ± 23.1	36.5	152	2.17
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	88 ± 8.8	11.5	130	1.77
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	160.75 ± 16.1	18	286	5.81
Benzo[k]fluoranthene	ng/l	116 ± 8.71	161.25 ± 16.1	30.2	139	1.50
Chrysene	ng/l	56.3 ± 5.69	- ± -	14.7	-	-
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	- ± -	25.7	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	74.75 ± 7.5	35.9	66.7
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



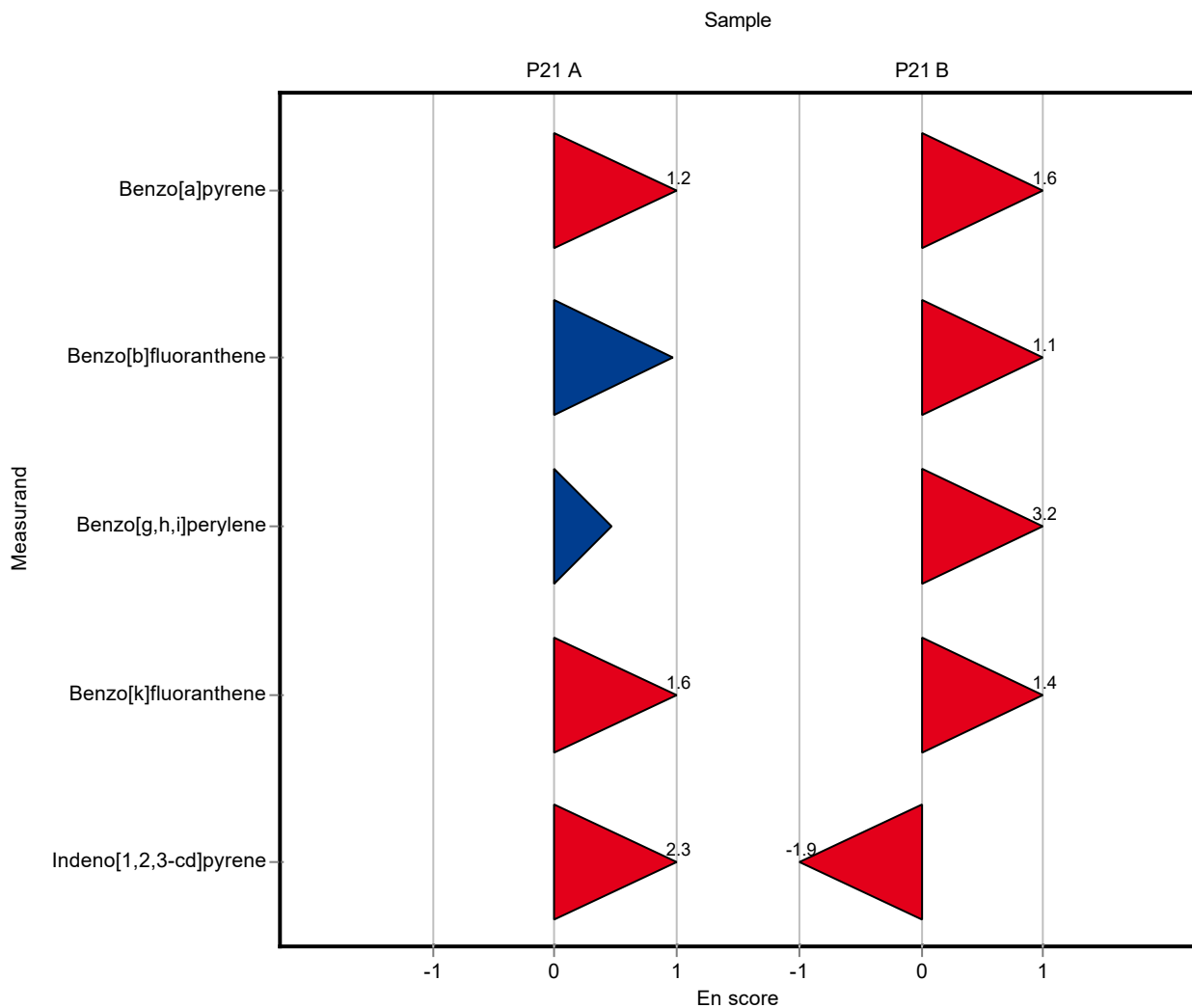
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	- ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	- ± -	3.52	-	-
Anthracene	ng/l	13.1 ± 1.28	- ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	- ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	15.2 ± 1.52	2.66	137	1.15
Benzo[b]fluoranthene	ng/l	21 ± 1.85	26.5 ± 2.65	3.58	126	0.97
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15 ± 1.5	4.3	112	0.47
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	18.5 ± 1.85	3.16	152	1.61
Chrysene	ng/l	20.1 ± 2.16	- ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	- ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	- ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	- ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	18.3 ± 1.83	2.65	193	2.29
Naphthalene	ng/l	28.5 ± 2.52	- ± -	5.99	-	-
Phenanthrene	ng/l	14.7 ± 1.3	- ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	- ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	- ± -	30.9	-	-
Acenaphthylene	ng/l	81.6 ± 12.2	- ± -	30.2	-	-
Anthracene	ng/l	137 ± 23.8	- ± -	57.6	-	-
Benzo[a]anthracene	ng/l	161 ± 18	- ± -	33.8	-	-
Benzo[a]pyrene	ng/l	152 ± 15	231 ± 23.1	36.5	152	1.63
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	88 ± 8.8	11.5	130	1.10
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	160.75 ± 16.1	18	286	3.20
Benzo[k]fluoranthene	ng/l	116 ± 8.71	161.25 ± 16.1	30.2	139	1.35
Chrysene	ng/l	56.3 ± 5.69	- ± -	14.7	-	-
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	- ± -	25.7	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	- ± -	23.1	-
Fluorene	ng/l	186 ± 24.1	- ± -	26	-
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	74.75 ± 7.5	35.9	66.7
Naphthalene	ng/l	168 ± 28.1	- ± -	35.2	-
Phenanthrene	ng/l	76.4 ± 14.3	- ± -	32.1	-
Pyrene	ng/l	79.4 ± 8.28	- ± -	12.7	-



Sample: P21A

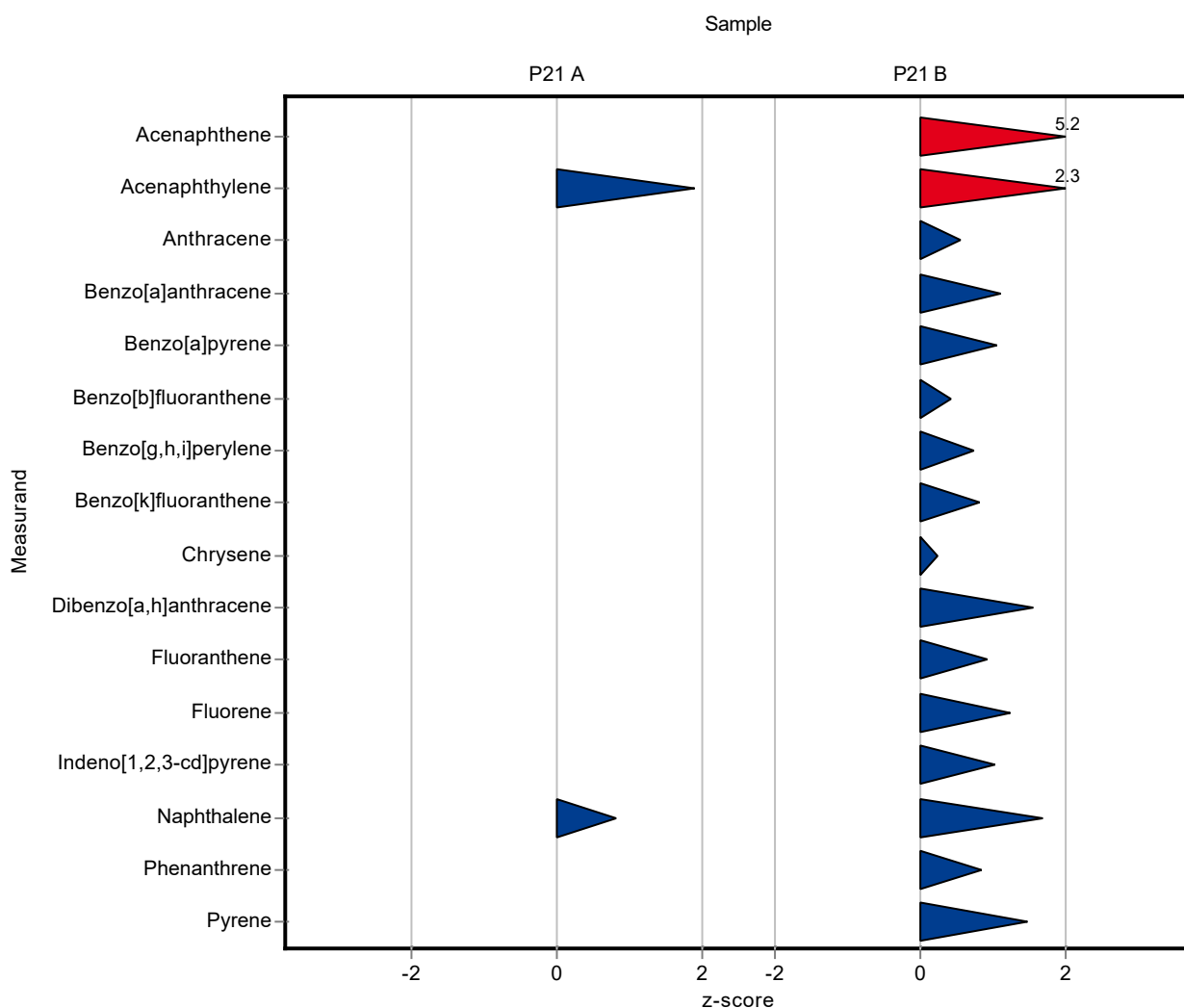
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	<20 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	23.4 ± 2.3	3.52	139	1.88
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<20 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<20 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<20 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<20 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<20 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<20 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	33.4 ± 3.3	5.99	117	0.81
Phenanthrene	ng/l	14.7 ± 1.3	<20 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<20 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	323 ± 32	30.9	199	5.19
Acenaphthylene	ng/l	81.6 ± 12.2	152 ± 15	30.2	186	2.33
Anthracene	ng/l	137 ± 23.8	168 ± 17	57.6	122	0.53
Benzo[a]anthracene	ng/l	161 ± 18	198 ± 20	33.8	123	1.09
Benzo[a]pyrene	ng/l	152 ± 15	190 ± 19	36.5	125	1.04
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	72.3 ± 7.2	11.5	107	0.41
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	69.4 ± 6.9	18	123	0.73
Benzo[k]fluoranthene	ng/l	116 ± 8.71	140 ± 14	30.2	121	0.79
Chrysene	ng/l	56.3 ± 5.69	59.6 ± 6	14.7	106	0.22
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	125 ± 13	25.7	146	1.53



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Fluoranthene	ng/l	72.1 ± 9.92	93 ± 9.3	23.1	129	0.91
Fluorene	ng/l	186 ± 24.1	218 ± 22	26	117	1.23
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	148 ± 15	35.9	132	1.00
Naphthalene	ng/l	168 ± 28.1	226 ± 23	35.2	135	1.66
Phenanthrene	ng/l	76.4 ± 14.3	103 ± 10	32.1	135	0.83
Pyrene	ng/l	79.4 ± 8.28	98.1 ± 9.8	12.7	124	1.47



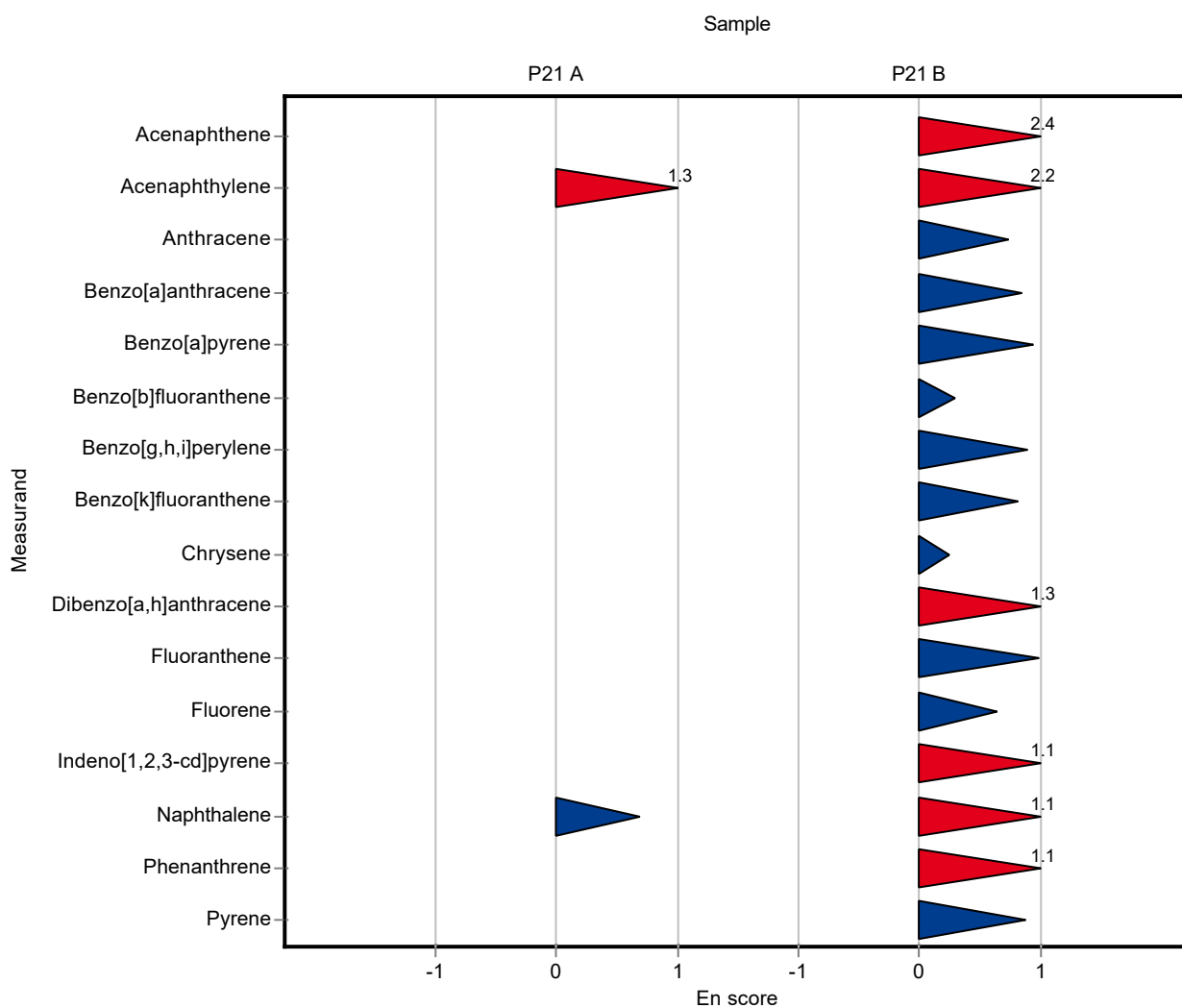
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	<20 (LOQ) ± -	2.96	-	-
Acenaphthylene	ng/l	16.8 ± 1.73	23.4 ± 2.3	3.52	139	1.35
Anthracene	ng/l	13.1 ± 1.28	<20 (LOQ) ± -	2.89	-	-
Benzo[a]anthracene	ng/l	14.4 ± 1.7	<20 (LOQ) ± -	3.02	-	-
Benzo[a]pyrene	ng/l	11.1 ± 1.88	<20 (LOQ) ± -	2.66	-	-
Benzo[b]fluoranthene	ng/l	21 ± 1.85	<20 (LOQ) ± -	3.58	-	-
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	<20 (LOQ) ± -	4.3	-	-
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	<20 (LOQ) ± -	3.16	-	-
Chrysene	ng/l	20.1 ± 2.16	<20 (LOQ) ± -	5.22	-	-
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	<20 (LOQ) ± -	3.55	-	-
Fluoranthene	ng/l	12.5 ± 0.92	<20 (LOQ) ± -	2.26	-	-
Fluorene	ng/l	13 ± 0.921	<20 (LOQ) ± -	1.82	-	-
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	<20 (LOQ) ± -	2.65	-	-
Naphthalene	ng/l	28.5 ± 2.52	33.4 ± 3.3	5.99	117	0.69
Phenanthrene	ng/l	14.7 ± 1.3	<20 (LOQ) ± -	2.2	-	-
Pyrene	ng/l	10.9 ± 1.15	<20 (LOQ) ± -	1.75	-	-

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	323 ± 32	30.9	199	2.36
Acenaphthylene	ng/l	81.6 ± 12.2	152 ± 15	30.2	186	2.17
Anthracene	ng/l	137 ± 23.8	168 ± 17	57.6	122	0.74
Benzo[a]anthracene	ng/l	161 ± 18	198 ± 20	33.8	123	0.84
Benzo[a]pyrene	ng/l	152 ± 15	190 ± 19	36.5	125	0.93
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	72.3 ± 7.2	11.5	107	0.30
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	69.4 ± 6.9	18	123	0.89
Benzo[k]fluoranthene	ng/l	116 ± 8.71	140 ± 14	30.2	121	0.82
Chrysene	ng/l	56.3 ± 5.69	59.6 ± 6	14.7	106	0.24
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	125 ± 13	25.7	146	1.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	93 ± 9.3	23.1	129
Fluorene	ng/l	186 ± 24.1	218 ± 22	26	117
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	148 ± 15	35.9	132
Naphthalene	ng/l	168 ± 28.1	226 ± 23	35.2	135
Phenanthrene	ng/l	76.4 ± 14.3	103 ± 10	32.1	135
Pyrene	ng/l	79.4 ± 8.28	98.1 ± 9.8	12.7	124



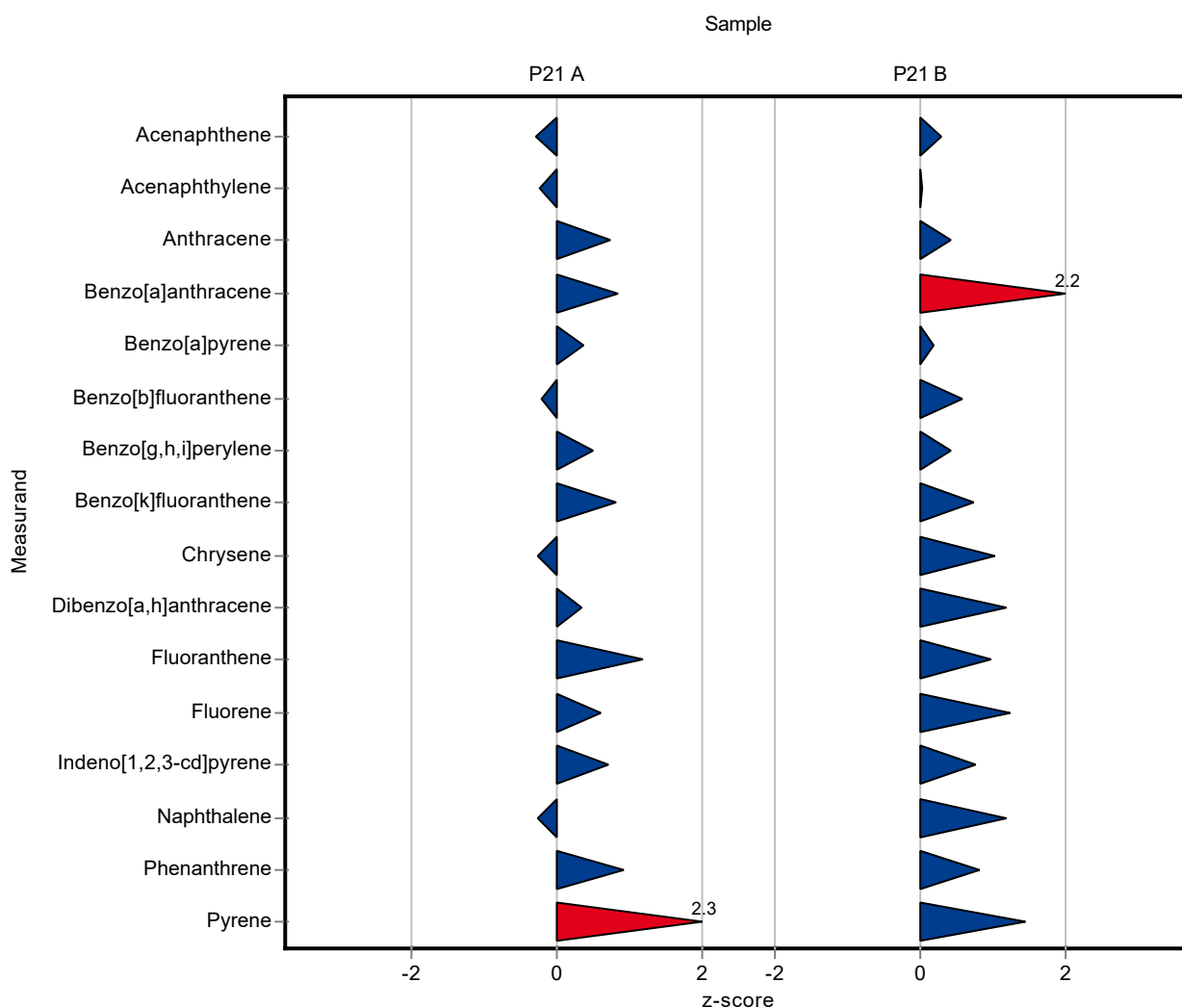
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	15.6 ± 2.03	14.7 ± 2.32	2.96	94.3	-0.30
Acenaphthylene	ng/l	16.8 ± 1.73	15.9 ± 2.11	3.52	94.8	-0.25
Anthracene	ng/l	13.1 ± 1.28	15.2 ± 1.85	2.89	116	0.72
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.9 ± 2.32	3.02	117	0.83
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12 ± 1.34	2.66	108	0.35
Benzo[b]fluoranthene	ng/l	21 ± 1.85	20.2 ± 2.75	3.58	96	-0.24
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.5 ± 2.3	4.3	115	0.48
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	14.7 ± 1.56	3.16	121	0.81
Chrysene	ng/l	20.1 ± 2.16	18.6 ± 2.57	5.22	92.6	-0.28
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13 ± 1.66	3.55	110	0.33
Fluoranthene	ng/l	12.5 ± 0.92	15.2 ± 1.93	2.26	121	1.18
Fluorene	ng/l	13 ± 0.921	14.1 ± 2.12	1.82	108	0.60
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.3 ± 1.68	2.65	119	0.69
Naphthalene	ng/l	28.5 ± 2.52	26.8 ± 3.16	5.99	94	-0.29
Phenanthrene	ng/l	14.7 ± 1.3	16.7 ± 2.1	2.2	114	0.92
Pyrene	ng/l	10.9 ± 1.15	15 ± 1.74	1.75	137	2.33

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Acenaphthene	ng/l	163 ± 22.8	171 ± 27.01	30.9	105	0.27
Acenaphthylene	ng/l	81.6 ± 12.2	82 ± 10.9	30.2	100	0.01
Anthracene	ng/l	137 ± 23.8	161 ± 19.64	57.6	117	0.41
Benzo[a]anthracene	ng/l	161 ± 18	235 ± 32.2	33.8	146	2.19
Benzo[a]pyrene	ng/l	152 ± 15	158 ± 17.7	36.5	104	0.17
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	74 ± 10.1	11.5	109	0.55
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.5 ± 9.33	18	113	0.41
Benzo[k]fluoranthene	ng/l	116 ± 8.71	138 ± 14.63	30.2	119	0.73
Chrysene	ng/l	56.3 ± 5.69	71 ± 9.8	14.7	126	1.00
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	116 ± 14.85	25.7	135	1.18

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	z-Score	
Fluoranthene	ng/l	72.1 ± 9.92	94.1 ± 11.95	23.1	130	0.95
Fluorene	ng/l	186 ± 24.1	218 ± 32.7	26	117	1.23
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	139 ± 20.7	35.9	124	0.75
Naphthalene	ng/l	168 ± 28.1	209 ± 24.7	35.2	125	1.18
Phenanthrene	ng/l	76.4 ± 14.3	102 ± 12.85	32.1	133	0.80
Pyrene	ng/l	79.4 ± 8.28	97.7 ± 11.33	12.7	123	1.44



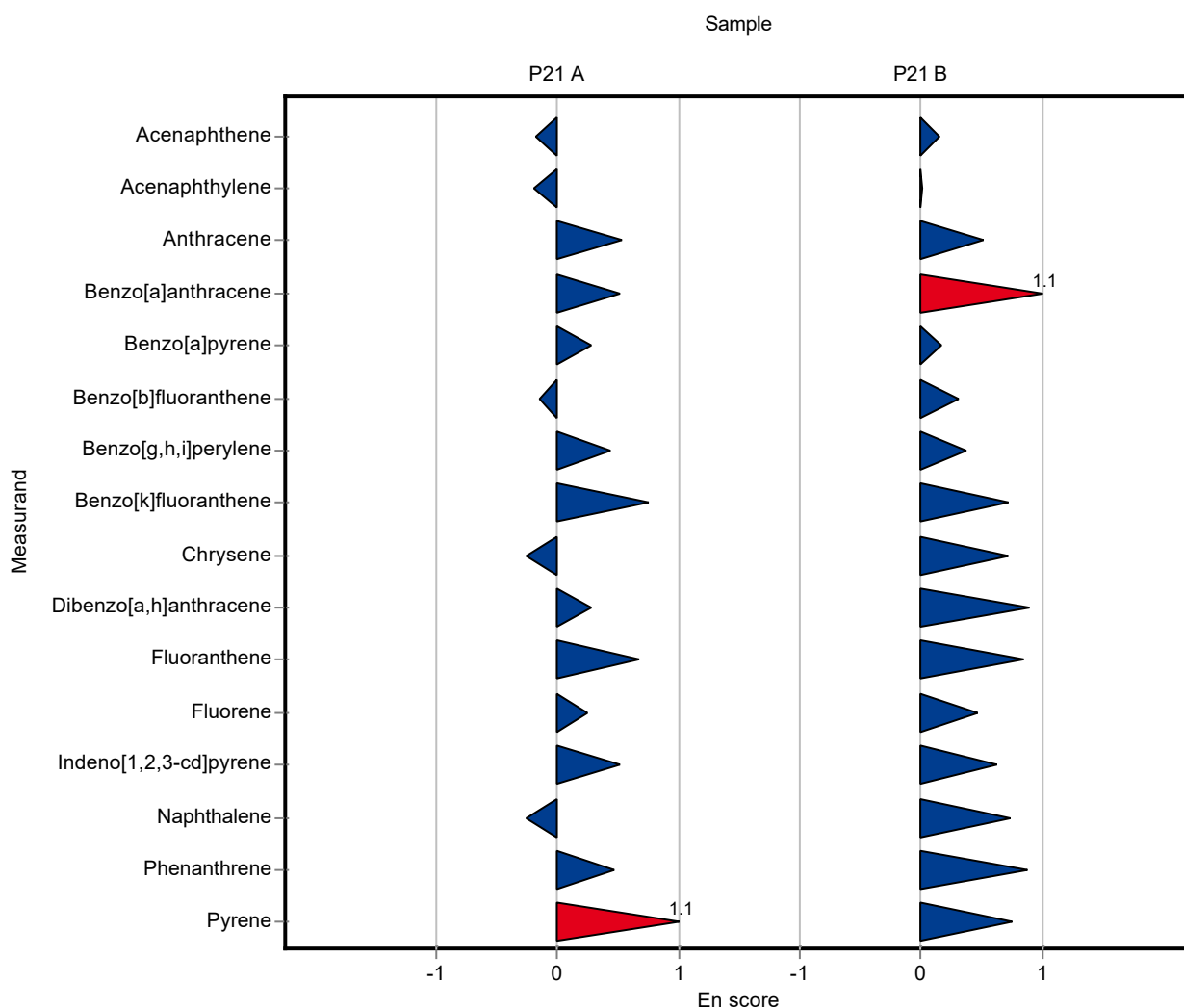
Sample: P21A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	15.6 ± 2.03	14.7 ± 2.32	2.96	94.3	-0.18
Acenaphthylene	ng/l	16.8 ± 1.73	15.9 ± 2.11	3.52	94.8	-0.19
Anthracene	ng/l	13.1 ± 1.28	15.2 ± 1.85	2.89	116	0.53
Benzo[a]anthracene	ng/l	14.4 ± 1.7	16.9 ± 2.32	3.02	117	0.51
Benzo[a]pyrene	ng/l	11.1 ± 1.88	12 ± 1.34	2.66	108	0.28
Benzo[b]fluoranthene	ng/l	21 ± 1.85	20.2 ± 2.75	3.58	96	-0.15
Benzo[g,h,i]perylene	ng/l	13.4 ± 1.52	15.5 ± 2.3	4.3	115	0.43
Benzo[k]fluoranthene	ng/l	12.2 ± 1.35	14.7 ± 1.56	3.16	121	0.75
Chrysene	ng/l	20.1 ± 2.16	18.6 ± 2.57	5.22	92.6	-0.27
Dibenzo[a,h]anthracene	ng/l	11.8 ± 2.47	13 ± 1.66	3.55	110	0.28
Fluoranthene	ng/l	12.5 ± 0.92	15.2 ± 1.93	2.26	121	0.67
Fluorene	ng/l	13 ± 0.921	14.1 ± 2.12	1.82	108	0.25
Indeno[1,2,3-cd]pyrene	ng/l	9.46 ± 1.24	11.3 ± 1.68	2.65	119	0.51
Naphthalene	ng/l	28.5 ± 2.52	26.8 ± 3.16	5.99	94	-0.25
Phenanthrene	ng/l	14.7 ± 1.3	16.7 ± 2.1	2.2	114	0.46
Pyrene	ng/l	10.9 ± 1.15	15 ± 1.74	1.75	137	1.11

Sample: P21B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Acenaphthene	ng/l	163 ± 22.8	171 ± 27.01	30.9	105	0.14
Acenaphthylene	ng/l	81.6 ± 12.2	82 ± 10.9	30.2	100	0.02
Anthracene	ng/l	137 ± 23.8	161 ± 19.64	57.6	117	0.52
Benzo[a]anthracene	ng/l	161 ± 18	235 ± 32.2	33.8	146	1.11
Benzo[a]pyrene	ng/l	152 ± 15	158 ± 17.7	36.5	104	0.16
Benzo[b]fluoranthene	ng/l	67.6 ± 5.97	74 ± 10.1	11.5	109	0.30
Benzo[g,h,i]perylene	ng/l	56.2 ± 5.53	63.5 ± 9.33	18	113	0.38
Benzo[k]fluoranthene	ng/l	116 ± 8.71	138 ± 14.63	30.2	119	0.72
Chrysene	ng/l	56.3 ± 5.69	71 ± 9.8	14.7	126	0.72
Dibenzo[a,h]anthracene	ng/l	85.7 ± 16.5	116 ± 14.85	25.7	135	0.89

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
Fluoranthene	ng/l	72.1 ± 9.92	94.1 ± 11.95	23.1	130
Fluorene	ng/l	186 ± 24.1	218 ± 32.7	26	117
Indeno[1,2,3-cd]pyrene	ng/l	112 ± 13.2	139 ± 20.7	35.9	124
Naphthalene	ng/l	168 ± 28.1	209 ± 24.7	35.2	125
Phenanthrene	ng/l	76.4 ± 14.3	102 ± 12.85	32.1	133
Pyrene	ng/l	79.4 ± 8.28	97.7 ± 11.33	12.7	123



## E9. Methodenübersicht / Overview of methods

LabCode	Sample	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene
LC0001	P21A			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0002	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21A	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21A	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21A			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0010	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21A				
LC0017	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21A	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21A	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21A			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21A	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21A	EN ISO 17993/HPLC-FLD; (F18)		EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0029	P21A				
LC0030	P21A	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;



LabCode	Sample	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene
LC0001	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0002	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21A	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21A	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0010	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0017	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21A	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21A	GC-MS; BAFU	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21A	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0029	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0030	P21A	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;

LabCode	Sample	Chrysene	Dibenzof[a,h]anthracene	Fluoranthene	Fluorene
LC0001	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0002	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21A	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21A	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0010	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21A				
LC0017	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21A	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21A	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21A	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0023	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21A	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0029	P21A				
LC0030	P21A	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;

LabCode	Sample	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
LC0001	P21A	Method 5080; APAT CNR-IRSA			Method 5080; APAT CNR-IRSA
LC0002	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21A	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21A	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21A	Method 5080; APAT CNR-IRSA			Method 5080; APAT CNR-IRSA
LC0010	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21A	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21A	DIN 38407-39/GC-MS;			
LC0017	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21A	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21A	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21A	Method 5080; APAT CNR-IRSA		Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21A	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21A	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21A	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21A	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0029	P21A	DIN 38407-39/GC-MS; (F39)			
LC0030	P21A	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21A	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;

LabCode	Sample	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene
LC0001	P21B			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0002	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21B	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21B	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21B			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0010	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21B				
LC0017	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21B	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21B	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21B			Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21B	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21B				
LC0029	P21B				
LC0030	P21B	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;

LabCode	Sample	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene
LC0001	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0002	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21B	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21B	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0010	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0017	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21B	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21B	GC-MS; BAFU	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21B	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0029	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0030	P21B	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;

LabCode	Sample	Chrysene	Dibenzof[a,h]anthracene	Fluoranthene	Fluorene
LC0001	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0002	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21B	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21B	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0010	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21B				
LC0017	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21B	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21B	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21B	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA	
LC0023	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21B	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)		
LC0029	P21B				
LC0030	P21B	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;



LabCode	Sample	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
LC0001	P21B	Method 5080; APAT CNR-IRSA			Method 5080; APAT CNR-IRSA
LC0002	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0003	P21B	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)	EN ISO 17993/HPLC-FLD; (F18)
LC0004	P21B	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)	ISO 28540/GC-MS; (F40)
LC0005	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0006	P21B	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)	EN ISO 17993/HPLC-FLD; (HPLC-DAD/FLD)
LC0007	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0008	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0009	P21B	Method 5080; APAT CNR-IRSA			Method 5080; APAT CNR-IRSA
LC0010	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0011	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0012	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0013	P21B	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;	EN ISO 17993/HPLC-FLD;
LC0014	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0015	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0016	P21B	DIN 38407-39/GC-MS;			
LC0017	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0018	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0019	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0020	P21B	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM	GC-MS; SIM
LC0021	P21B	GC-MS; house method	GC-MS; house method	GC-MS; house method	GC-MS; house method
LC0022	P21B	Method 5080; APAT CNR-IRSA		Method 5080; APAT CNR-IRSA	Method 5080; APAT CNR-IRSA
LC0023	P21B	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)	DIN 38407-39/GC-MS; (F39)
LC0024	P21B	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;	DIN 38407-39/GC-MS;
LC0025	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0026	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;
LC0027	P21B	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39	GC-MS; DIN 38407-39
LC0028	P21B	EN ISO 17993/HPLC-FLD; (F18)			
LC0029	P21B	DIN 38407-39/GC-MS; (F39)			
LC0030	P21B	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)	EN ISO 17993/ÖN L1200 HPLC-FLD; (EN ISO 17993 8.1)
LC0031	P21B	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;	ISO 28540/GC-MS;