

**Proficiency Testing Scheme für die
Umweltanalytik
CBL11 Chlorierte Kohlenwasserstoffe (CKW)
und BTEX & C5–C10**

**Proficiency Testing Scheme for
Environmental Analysis
CBL11 Chlorinated hydrocarbons (CHC) and
BTEX & C5–C10**

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Inhaltsverzeichnis / Table of Contents

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

E5. Annotations on tables and charts	26
E5.1. Information and abbreviations in tables	26
E5.2. Graphical presentation of results	28
E6. Summary	31
E6.1. Table of assigned values	31
E6.2. Summary of results, after removal of outliers.....	32
E7. Parameterorientierte Auswertung / Parameter oriented report.....	34
E8. Labororientierte Auswertung / Laboratory oriented report.....	108
E9. Methodenübersicht / Overview of methods	199

D1. Beschreibung des Ringversuchs

D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 23
- Anzahl der übermittelten Datensätze: 23
- Probenversand: 23.09.2025
- Einsendeschluss der Daten: 21.10.2025

Beim Ringversuch CBL11 bestand die Möglichkeit, an den Teilen CL12 (CKW) und/oder BL13 (BTEX & C5–C10) teilzunehmen.

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

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

D1.2. Beschreibung der Prüfgegenstände

Als Probe wurde jeweils ein mit zertifiziertem Kalibriergas beladenes Aktivkohleröhrchen versandt. Zusätzlich wurde ein unbeladenes Röhrchen zur Blindwertbestimmung beigelegt. Die Beladung der Röhrchen erfolgte in zwei Serien (CL12 und BL13). Es wurde ein definiertes Volumen des Kalibriergases der Firma Air Liquide mit einer Pumpe über Orbo 32S Aktivkohleröhrchen (Supelco) gesaugt. Die verwendeten Kalibriergase enthielten zum einen die Substanzen cis-1,2-Dichlorethen, trans-1,2-Dichlorethen, Trichlormethan, 1,1,1-Trichlorethan, Trichlorethen, Tetrachlormethan und Tetrachlorethen (CL12) und zum anderen Benzol, Ethylbenzol, o-Xylol, Summe von m- und p-Xylol, Toluol, n-Pentan, n-Hexan, n-Heptan, n-Oktan, n-Nonan und n-Dekan (BL13). Die Beladung der Röhrchen erfolgte über ein Y-Stück im drucklosen Zustand. Der eingestellte Pumpenfluss wurde sowohl vor als auch nach der Beladung der Aktivkohleröhrchen kontrolliert. Das Beladen der Röhrchen erfolgte am 17.09.2025. Die Proben wurden bis zum Versand bei -80 °C gelagert und am 23.09.2025 verschickt.

Jedes teilnehmende Labor erhielt je nach Anmeldung:

- 1 beladenes Aktivkohleröhrchen Probe CL12 und/oder
- 1 beladenes Aktivkohleröhrchen Probe BL13
- sowie 1 unbeladenes Aktivkohleröhrchen (Blindwert) pro Probe

D1.3. Anweisungen für die Teilnehmenden

Aus Stabilitätsgründen wurde empfohlen bis spätestens 01.10.2025 mit den Analysen zu beginnen.

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

D1.4. Kontrollanalytik zur Bewertung der Homogenität

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

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

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

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

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

D1.5. Trendtest zur Bewertung der Stabilität

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

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

D1.6. Ermittlung des zugewiesenen Wertes

Die Ergebnisse der Analysen mussten spätestens bis zum 21.10.2025 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

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

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

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

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

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

D2. Kriterien der Leistungsbewertung

D2.1. Leistungskriterium z-Score

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

Die Ermittlung der z-Scores erfolgte gemäß nachfolgender Formel:

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

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
<i>Kriterium</i>	Vergleichsstandardabweichung berechnet aus den Statistiken für Proben der vorangegangenen Runden im Zeitraum 2015 bis 2023 (RSDpooled) bzw. aus den ausreißerbereinigten Ergebnissen der Teilnehmenden (sR) des aktuellen Ringversuchs. In begründeten Fällen (z.B. Ergebnisse Realproben nahe an Mindestbestimmungsgrenze oder regulatorischer Vorgaben) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

D2.2. Leistungskriterium E_n-Score

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

Die Ermittlung der E_n-Scores erfolgte gemäß nachfolgender Formel:

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

Dabei ist:

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

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

Interpretation der z-Scores:

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

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

Interpretation der E_n-Scores:

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

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

D3. Darstellung und Interpretation der Messergebnisse

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

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

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

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

D4. Anmerkungen zur Auswertung

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

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

Als Ergebnis einer Langzeitauswertung von Ringversuchen von 2015 bis 2023 in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Probe CBL11 / BL13

Parameter n-Hexan, n-Heptan, n-Oktan, n-Nonan, n-Dekan, Benzol, Toluol, Ethylbenzol, o-Xylol, Summe m-Xylol und p-Xylol: Bei diesen Parametern erfolgte die Berechnung der Scores nach D2. Bei n-Nonan wurde als Kriterium 15 % für die Bewertung gewählt (aufgerundet).

n-Pentan: Die auf Basis der Ergebnisse der Teilnehmenden berechneten Sollwerte lagen außerhalb der Messunsicherheit des Kontrollwertes und es war über das Kontrolllabor keine Rückführbarkeit möglich. Der zugewiesene Wert wurde daher über die ausreißerbereinigten Mittelwerte aus der Gruppe der akkreditierten Teilnehmenden berechnet.

Probe CBL11 / CL12

Parameter cis-1,2-Dichlorethen, trans-1,2-Dichlorethen, Trichlormethan, 1,1,1-Trichlorethan, Trichlorethen, Tetrachlormethan und Tetrachlorethen: Bei allen Parametern erfolgte die Berechnung der Scores nach D2. Bei Tetrachlorethen wurde

als Kriterium 29 % für die Bewertung gewählt (aktuelle vR, gerundet auf 2 sign. Stellen). Bei trans-1,2-Dichlorethen wurden 15 % als Kriterium gewählt (aufgerundet).

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. hier µg/Röhrchen)
Zugewiesener Wert	Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen)
U (k=2)	erweiterte Unsicherheit (k=2) des zugewiesenen Wertes, (angegeben auf 3 signifikante Stellen)
Kriterium	Vorgabewert zur Ermittlung des z-Scores in der angegebenen Einheit (angegeben auf 3 signifikante Stellen)
Kriterium [%]	Vorgabewert zur Ermittlung des z-Scores in % des zugewiesenen Wertes (angegeben auf 2 signifikante Stellen)
Mittelwert	Ausreißerbereinigter Mittelwert über die Ergebnisse der Teilnehmenden (angegeben auf 3 signifikante Stellen)
VB (99%)	99 % Vertrauensbereich (angegeben auf 3 signifikante Stellen)
Minimum	Minimales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
Maximum	Maximales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
sR	Vergleichsstandardabweichung, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
vR	relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen)
Kontrollwert ± U (k=2)	Mittelwert der Kontrollmessungen des Veranstalters ± erweiterte Ergebnisunsicherheit des Kontrollwertes (jeweils angegeben auf 3 signifikante Stellen)
Laborcode	anonymisierte, eindeutige Kennung des teilnehmenden Labors im jeweiligen Ringversuch

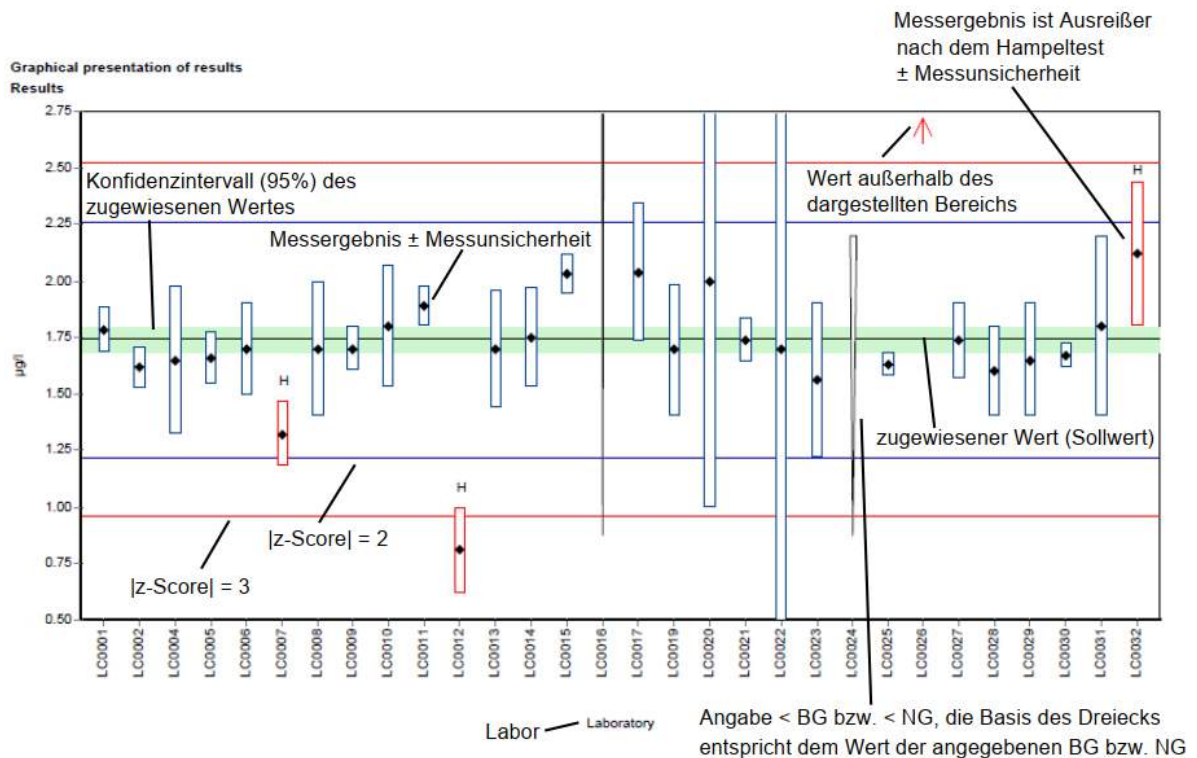
Messwert	einzelne(r) Messwert(e) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
Messergebnis	Für die Bewertung herangezogenes Ergebnis lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt). Bei Eignungsprüfungsrounds mit Vorgabe von unabhängigen Mehrfachbestimmungen,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

	Messergebnis bewertet, welches diesen Median um mehr als 100 % übersteigt.
Standardabweichung	Vergleichsstandardabweichung berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
rel. Standardabweichung	relative Vergleichsstandardabweichung in %, berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)
n	Anzahl der Messergebnisse
*	Kennzeichnung für Hinweise zur Erläuterung

D5.2. Graphische Darstellung der Ergebnisse

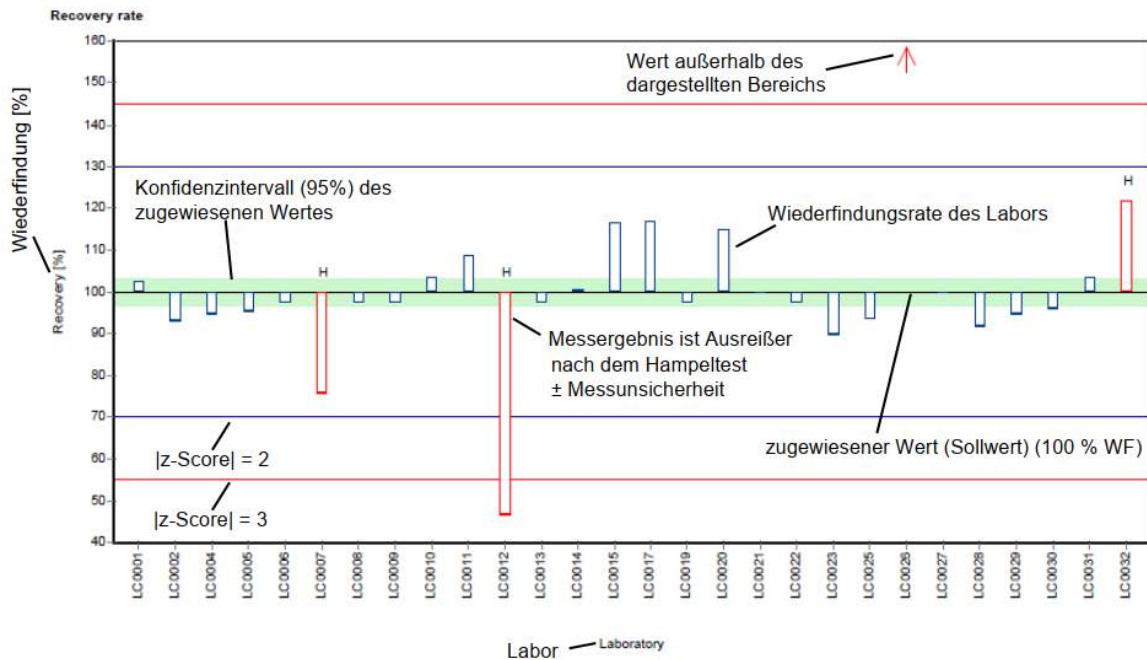
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

Beispieldiagramm: Messwerte



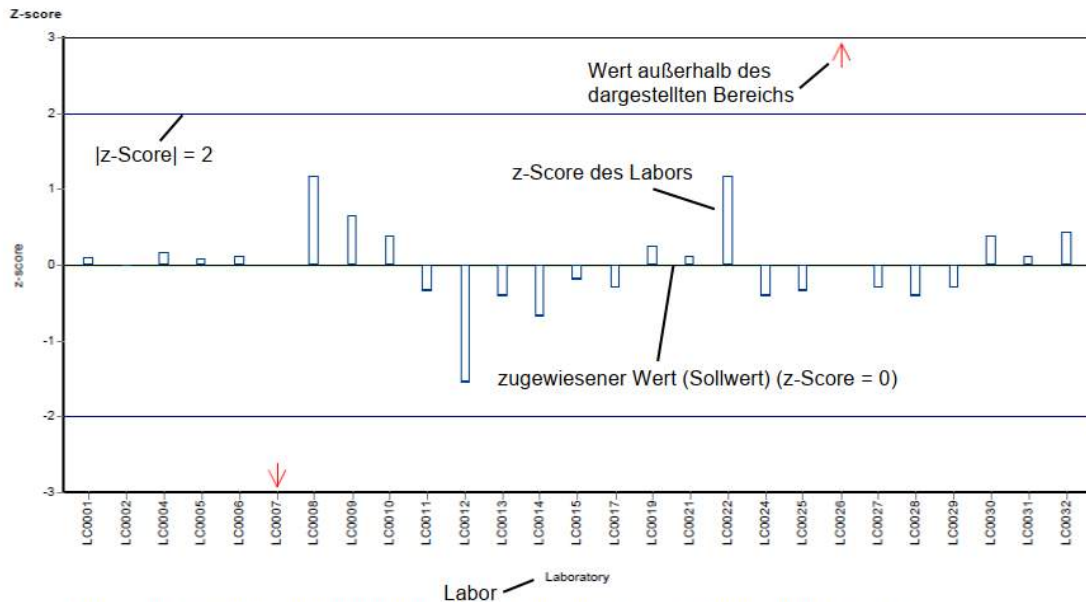
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



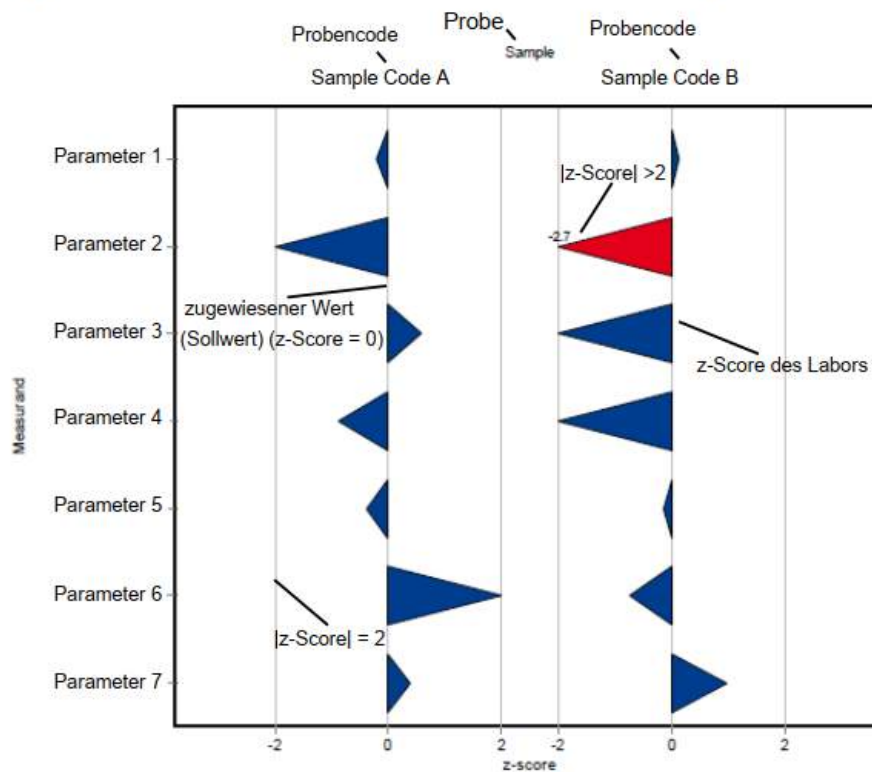
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score

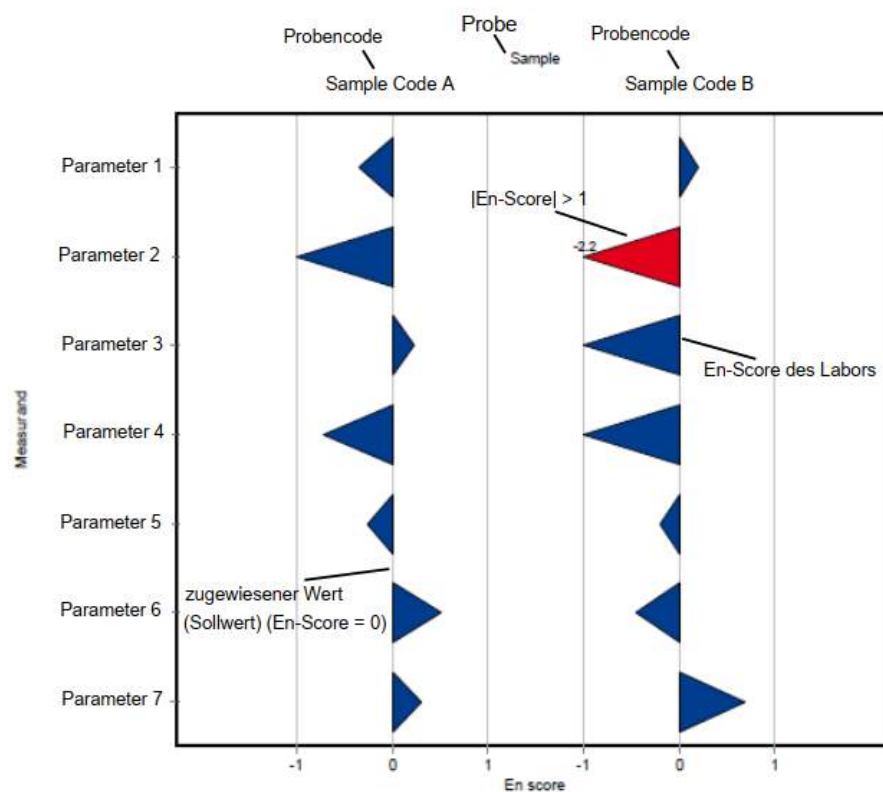


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score (labororientierte Auswertung)



Beispieldiagramm: En-Score (labororientierte Auswertung)



D6. Zusammenfassung

D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener Wert	±	U (k=2)	Kriterium	Kriterium [%]
1,1,1-Trichlorethan	CL12 - CKW	µg/Röhrchen	5.35	±	0.284	0.856	16
Benzol	BL13 - BTEX & C5-C10	µg/Röhrchen	4.66	±	0.33	0.699	15
cis-1,2-Dichlorethen	CL12 - CKW	µg/Röhrchen	3.86	±	0.227	1.43	37
Ethylbenzol	BL13 - BTEX & C5-C10	µg/Röhrchen	3.95	±	0.214	0.711	18
n-Dekan	BL13 - BTEX & C5-C10	µg/Röhrchen	1.95	±	0.231	0.408	21
n-Heptan	BL13 - BTEX & C5-C10	µg/Röhrchen	6.16	±	0.421	1.11	18
n-Hexan	BL13 - BTEX & C5-C10	µg/Röhrchen	6.33	±	0.621	1.01	16
n-Nonan	BL13 - BTEX & C5-C10	µg/Röhrchen	3.97	±	0.271	0.595	15
n-Oktan	BL13 - BTEX & C5-C10	µg/Röhrchen	5.37	±	0.273	0.913	17
n-Pentan	BL13 - BTEX & C5-C10	µg/Röhrchen	6	±	0.812	1.8	30
o-Xylol	BL13 - BTEX & C5-C10	µg/Röhrchen	3.5	±	0.218	0.63	18
Summe von m-Xylol und p-Xylol	BL13 - BTEX & C5-C10	µg/Röhrchen	7.24	±	0.498	1.38	19
Tetrachlorethen	CL12 - CKW	µg/Röhrchen	3.66	±	0.543	1.06	29
Tetrchlormethan	CL12 - CKW	µg/Röhrchen	6.32	±	0.385	0.948	15
Toluol	BL13 - BTEX & C5-C10	µg/Röhrchen	4.48	±	0.261	0.672	15
trans-1,2-Dichlorethen	CL12 - CKW	µg/Röhrchen	4.14	±	0.203	0.621	15
Trichlorethen	CL12 - CKW	µg/Röhrchen	4.49	±	0.313	1.12	25
Trichlormethan	CL12 - CKW	µg/Röhrchen	4.64	±	0.213	0.649	14

D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
1,1,1-Trichlorethan	CL12 - CKW	15	1	µg/Röhrchen	5.35	± 0.426	4.32	6.08	0.549	10
Benzol	BL13 - BTEX & C5-C10	20	2	µg/Röhrchen	4.66	± 0.495	3.01	5.62	0.738	16
cis-1,2-Dichlorethen	CL12 - CKW	13	3	µg/Röhrchen	3.86	± 0.341	3.1	4.55	0.41	11
Ethylbenzol	BL13 - BTEX & C5-C10	19	3	µg/Röhrchen	3.95	± 0.321	3.13	4.63	0.467	12
n-Dekan	BL13 - BTEX & C5-C10	12	0	µg/Röhrchen	1.95	± 0.346	1.28	2.57	0.4	21
n-Heptan	BL13 - BTEX & C5-C10	12	0	µg/Röhrchen	6.16	± 0.631	5.1	7.68	0.729	12
n-Hexan	BL13 - BTEX & C5-C10	12	0	µg/Röhrchen	6.33	± 0.931	4.07	7.72	1.08	17
n-Nonan	BL13 - BTEX & C5-C10	12	0	µg/Röhrchen	3.97	± 0.407	3.32	4.86	0.47	12
n-Oktan	BL13 - BTEX & C5-C10	14	0	µg/Röhrchen	5.37	± 0.409	4.58	6.48	0.51	9.5
n-Pentan	BL13 - BTEX & C5-C10	9	1	µg/Röhrchen	6.01	± 0.945	4.53	7.87	0.945	16
o-Xylol	BL13 - BTEX & C5-C10	19	3	µg/Röhrchen	3.5	± 0.327	2.57	4.5	0.475	14
Summe von m-Xylol und p-Xylol	BL13 - BTEX & C5-C10	19	3	µg/Röhrchen	7.24	± 0.747	4.52	9.02	1.09	15
Tetrachlorethen	CL12 - CKW	15	1	µg/Röhrchen	3.66	± 0.815	1.97	5.2	1.05	29
Tetrachlormethan	CL12 - CKW	13	2	µg/Röhrchen	6.32	± 0.577	5.23	7.76	0.694	11
Toluol	BL13 - BTEX & C5-C10	19	3	µg/Röhrchen	4.48	± 0.391	3.28	5.45	0.568	13

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
trans-1,2-Dichlorethen	CL12 - CKW	11	5	µg/Röhrchen	4.14	± 0.305	3.41	4.48	0.337	8.2
Trichlorethen	CL12 - CKW	15	1	µg/Röhrchen	4.49	± 0.469	3.52	5.69	0.606	13
Trichlormethan	CL12 - CKW	14	2	µg/Röhrchen	4.64	± 0.32	3.91	5.18	0.399	8.6

E1. Description of the proficiency test

E1.1. Design and implementation

- Number of registrations: 23
- Number of submitted data records: 23
- Dispatch of samples: September 23rd, 2025
- Closing date for submission of data: October 21st, 2025

For the interlaboratory comparison test CBL11 the participants could participate in CL12 (CHC) and/or BL13 (BTEX & C5–C10).

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

An activated charcoal tube loaded with certified calibration gas was prepared. In addition, an unloaded activated charcoal tube was made available to determine the blank value. The tubes were loaded in two series (CL12 and BL13). A defined volume of the calibration gas from Air Liquide was loaded on Orbo 32S activated charcoal tubes (Supelco) with a pump. The calibration gases contained the substances cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloromethane, 1,1,1-trichloroethane, trichloroethene, tetrachloromethane and tetrachloroethene for CL12 and the substances benzene, ethylbenzene, o-xylene, sum of m- and p-xylene, toluene, n-pentane, n-hexane, n-heptane, n-octane, n-nonane and n-decane for BL13. The tubes were loaded using a Y-piece under pressure-less condition. The set flow of the pump was checked before and after loading of the activated charcoal tubes.

The tubes were loaded on September, 17th 2025. The samples were stored at -80 °C and dispatched on September, 23rd 2025.

Each participant received (depending on the registration):

- 1 loaded activated charcoal tube sample CL12 and/or
- 1 loaded activated charcoal tube sample BL13
- and 1 unloaded charcoal tube (blank value) per each sample

E1.3. Instructions for the participants

For reasons of stability, it was recommended to start the analysis by the 01st of October 2025 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 loading of activated charcoal tubes, 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 sample were transferred to the laboratory for control testing.

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

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

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

E1.5. Trend test for stability evaluation

The 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 tubes were loaded for the proficiency test: No systematic trends could be identified.

According to data obtained from previous rounds and based on the trend test evaluation of the current round, the stability of the test items for proficiency testing 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 21st of October 2025. 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 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 samples from 2015 to 2023 (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 samples A and B are available) Where justified (e.g. results for samples are close to minimum quantification limit or in case of regulatory requirements) the criteria is defined by expert judgement and the procedure is clearly described in section E4 of the report.

E2.2. Performance criterion E_n-Score

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

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

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

In this context,

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

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

Interpretation of z-Scores:

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

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

Interpretation of E_n-Scores:

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

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

E3. Representation and interpretation of measurement results

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

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

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

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

E4. Explanatory notes

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

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

As a result of a long-term evaluation of proficiency testing rounds between 2015 and 2023 in real samples, evaluation criteria (RSDpool) were calculated.

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

Sample CBL11 / BL13

Parameters n-hexane, n-heptane, n-octane, n-nonane, n-decane, benzene, toluene, ethylbenzene, o-xylene, sum of m- and p-xylene: Scores for all listed parameters were calculated according to E2. For n-nonane 15 % were chosen as criterion for assessment (rounded up).

Parameter n-pentane: The assigned values calculated based on the participants' results were outside of the measurement uncertainty of the control test 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.

Sample CBL11 / CL12

Parameters cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloromethane, 1,1,1-trichloroethane, trichloroethene, tetrachloromethane and tetrachloroethene: Scores for all listed parameters were calculated according to E2. For tetrachloroethene a criterion of 29 % was chosen for assessment (vR of current proficiency testing, rounded up to 2 sign. digits). For trans-1,2-dichloroethene 15 % were defined as assessment criterion (rounded up).

E5. Annotations on tables and charts

E5.1. Information and abbreviations in tables

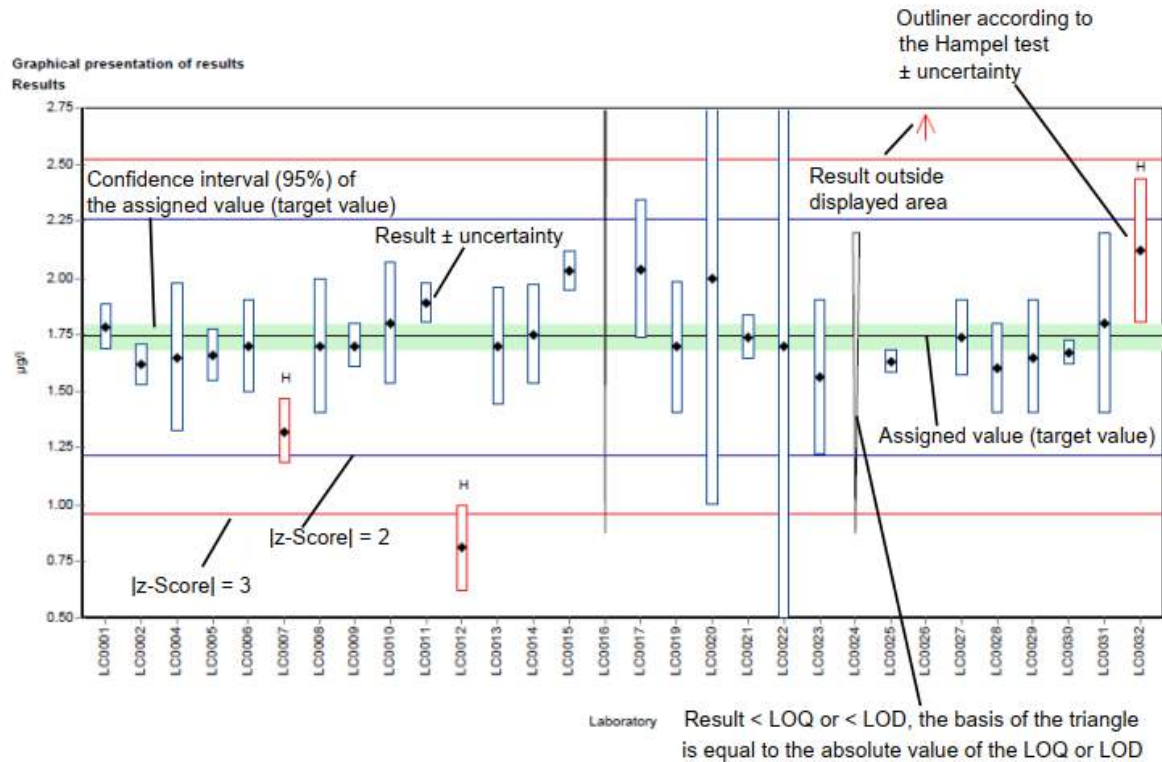
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/tube)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified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

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

E5.2. Graphical presentation of results

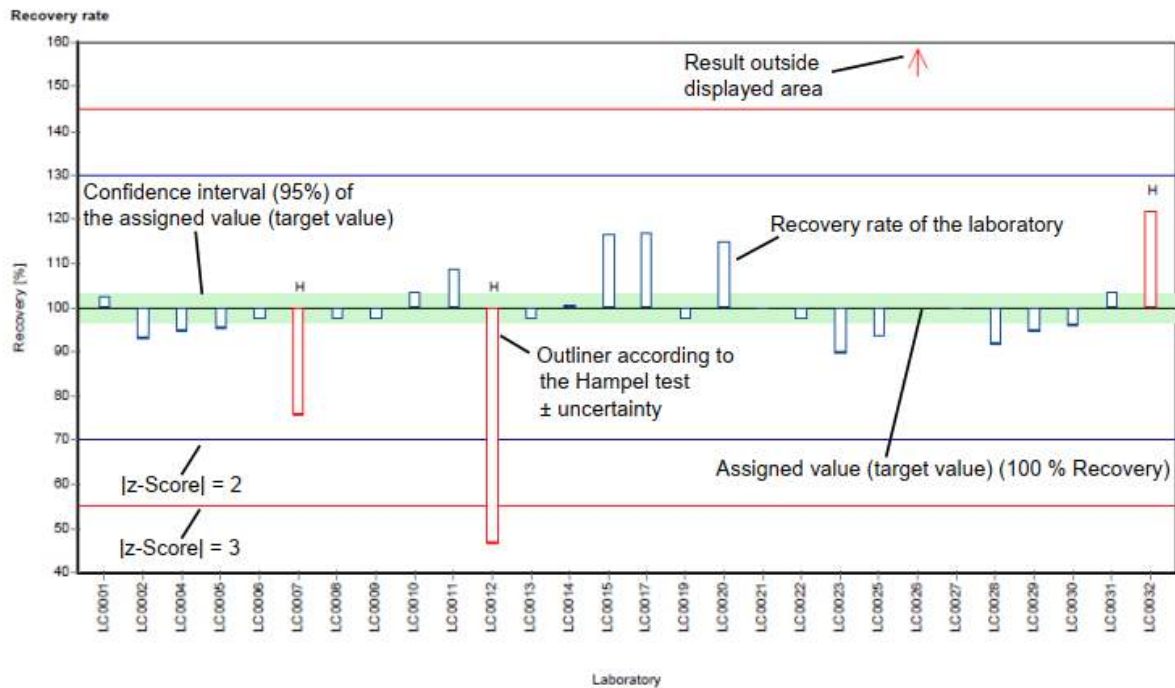
The graphic representation in the report is explained below by means of commented example diagrams:

Example chart: Results



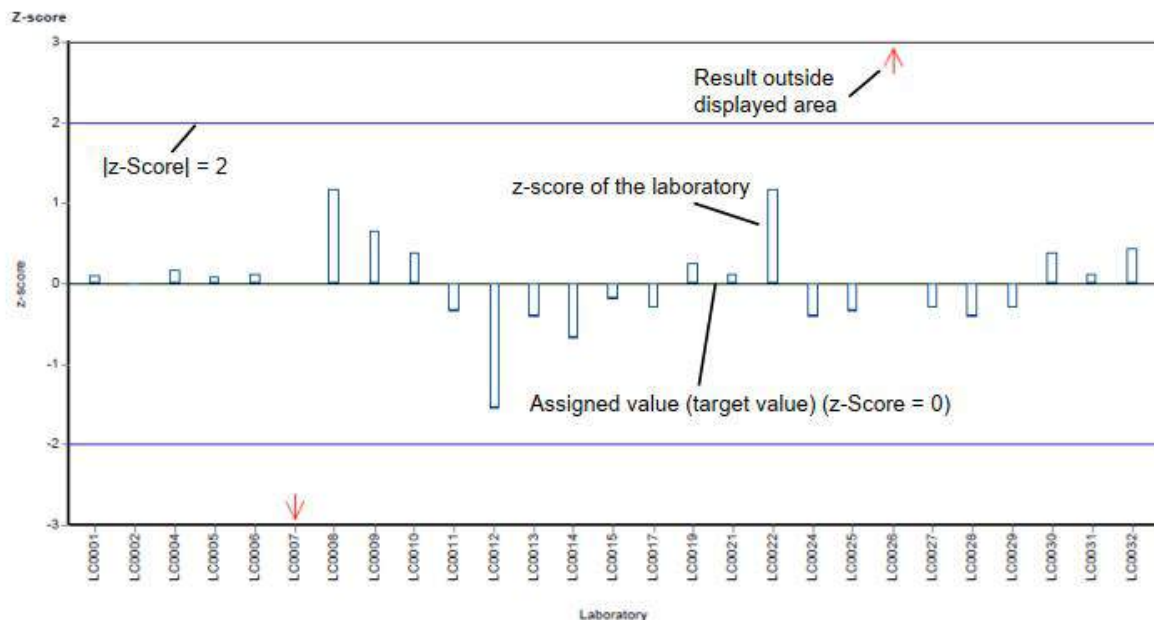
Different analysis methods are represented with different colors.

Example chart: Recovery



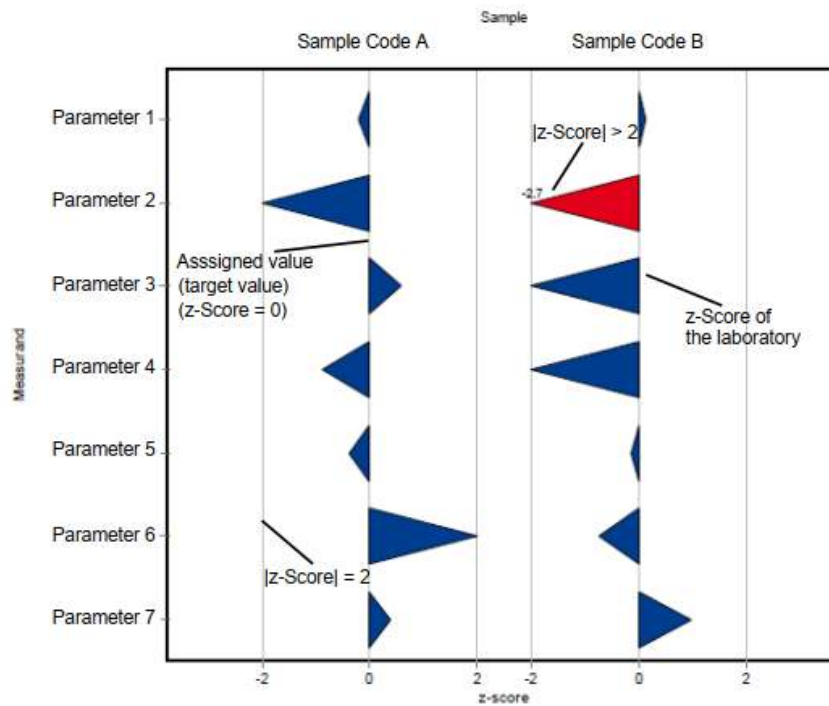
Different analysis methods are represented with different colors.

Example chart: z-Score

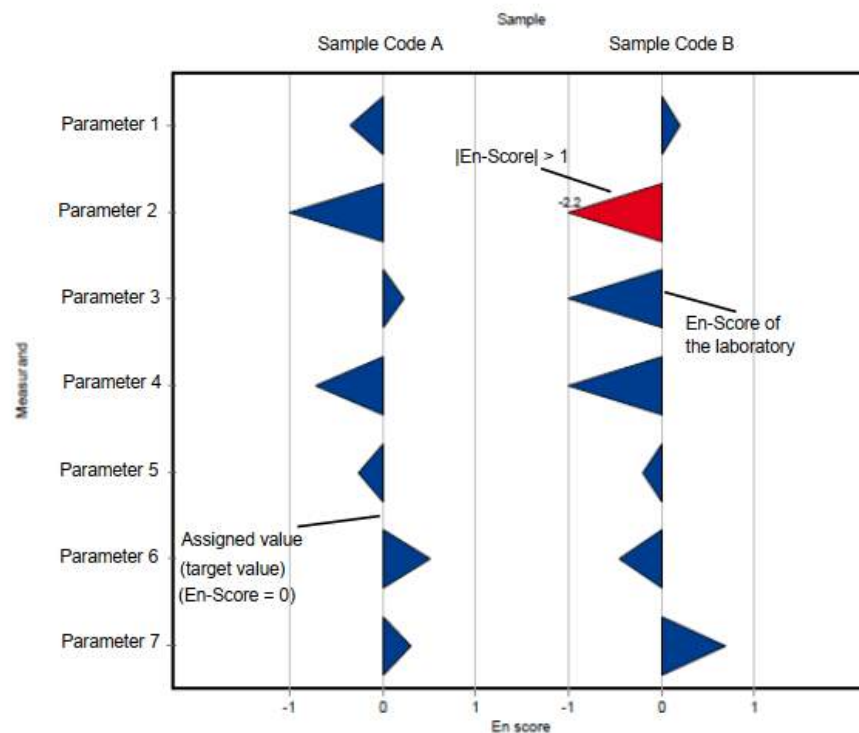


Different analysis methods are represented with different colors.

Example chart: z-Score (laboratory oriented report)



Example chart: En-Score (laboratory oriented report)



E6. Summary

E6.1. Table of assigned values

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
1,1,1-Trichloroethane	CL12 - CHC	µg/tube	5.35	±	0.284	0.856	16
Benzene	BL13 - BTEX & C5-C10	µg/tube	4.66	±	0.33	0.699	15
cis-1,2-Dichloroethene	CL12 - CHC	µg/tube	3.86	±	0.227	1.43	37
Ethylbenzene	BL13 - BTEX & C5-C10	µg/tube	3.95	±	0.214	0.711	18
n-Decane	BL13 - BTEX & C5-C10	µg/tube	1.95	±	0.231	0.408	21
n-Heptane	BL13 - BTEX & C5-C10	µg/tube	6.16	±	0.421	1.11	18
n-Hexane	BL13 - BTEX & C5-C10	µg/tube	6.33	±	0.621	1.01	16
n-Nonane	BL13 - BTEX & C5-C10	µg/tube	3.97	±	0.271	0.595	15
n-Octane	BL13 - BTEX & C5-C10	µg/tube	5.37	±	0.273	0.913	17
n-Pentane	BL13 - BTEX & C5-C10	µg/tube	6	±	0.812	1.8	30
o-Xylene	BL13 - BTEX & C5-C10	µg/tube	3.5	±	0.218	0.63	18
Sum of m-Xylene and p-Xylene	BL13 - BTEX & C5-C10	µg/tube	7.24	±	0.498	1.38	19
Tetrachloroethene	CL12 - CHC	µg/tube	3.66	±	0.543	1.06	29
Tetrachloromethane	CL12 - CHC	µg/tube	6.32	±	0.385	0.948	15
Toluene	BL13 - BTEX & C5-C10	µg/tube	4.48	±	0.261	0.672	15
trans-1,2-Dichloroethene	CL12 - CHC	µg/tube	4.14	±	0.203	0.621	15
Trichloroethene	CL12 - CHC	µg/tube	4.49	±	0.313	1.12	25
Trichloromethane	CL12 - CHC	µg/tube	4.64	±	0.213	0.649	14

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 [%]
1,1,1-Trichloroethane	CL12 - CHC	15	1	µg/tube	5.35	±	0.426	4.32	6.08	0.549	10
Benzene	BL13 - BTEX & C5-C10	20	2	µg/tube	4.66	±	0.495	3.01	5.62	0.738	16
cis-1,2-Dichloroethene	CL12 - CHC	13	3	µg/tube	3.86	±	0.341	3.1	4.55	0.41	11
Ethylbenzene	BL13 - BTEX & C5-C10	19	3	µg/tube	3.95	±	0.321	3.13	4.63	0.467	12
n-Decane	BL13 - BTEX & C5-C10	12	0	µg/tube	1.95	±	0.346	1.28	2.57	0.4	21
n-Heptane	BL13 - BTEX & C5-C10	12	0	µg/tube	6.16	±	0.631	5.1	7.68	0.729	12
n-Hexane	BL13 - BTEX & C5-C10	12	0	µg/tube	6.33	±	0.931	4.07	7.72	1.08	17
n-Nonane	BL13 - BTEX & C5-C10	12	0	µg/tube	3.97	±	0.407	3.32	4.86	0.47	12
n-Octane	BL13 - BTEX & C5-C10	14	0	µg/tube	5.37	±	0.409	4.58	6.48	0.51	9.5
n-Pentane	BL13 - BTEX & C5-C10	9	1	µg/tube	6.01	±	0.945	4.53	7.87	0.945	16
o-Xylene	BL13 - BTEX & C5-C10	19	3	µg/tube	3.5	±	0.327	2.57	4.5	0.475	14
Sum of m-Xylene and p-Xylene	BL13 - BTEX & C5-C10	19	3	µg/tube	7.24	±	0.747	4.52	9.02	1.09	15
Tetrachloroethene	CL12 - CHC	15	1	µg/tube	3.66	±	0.815	1.97	5.2	1.05	29
Tetrachloromethane	CL12 - CHC	13	2	µg/tube	6.32	±	0.577	5.23	7.76	0.694	11
Toluene	BL13 - BTEX & C5-C10	19	3	µg/tube	4.48	±	0.391	3.28	5.45	0.568	13

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	±	CI (99%)	Minimum	Maximum	sR	vR [%]
trans-1,2-Dichloroethene	CL12 - CHC	11	5	µg/tube	4.14	±	0.305	3.41	4.48	0.337	8.2
Trichloroethene	CL12 - CHC	15	1	µg/tube	4.49	±	0.469	3.52	5.69	0.606	13
Trichloromethane	CL12 - CHC	14	2	µg/tube	4.64	±	0.32	3.91	5.18	0.399	8.6

E7. Parameterorientierte Auswertung / Parameter oriented report

1,1,1-Trichloroethane	35
Benzene	39
cis-1,2-Dichloroethene.....	43
Ethylbenzene	47
n-Decane	51
n-Heptane.....	55
n-Hexane	59
n-Nonane	63
n-Octane	67
n-Pentane	71
o-Xylene	75
Sum of m-Xylene and p-Xylene	79
Tetrachloroethene	83
Tetrachloromethane	87
Toluene.....	91
trans-1,2-Dichloroethene	95
Trichloroethene.....	99
Trichloromethane.....	103

Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: 1,1,1-Trichloroethane

Parameter oriented report

CL12 - CHC

1,1,1-Trichloroethane

Unit	µg/tube
Assigned value ± U (k=2)	5.35 ± 0.284
Criterion	0.856 (16 %)
Minimum - Maximum	4.32 - 6.08
Control test value ± U (k=2)	4.97 ± 1.45

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	5.37	0.48	100	0.02	
LC0003	5.36	1.1	100	0.01	
LC0005	6.08	1.22	114	0.85	
LC0006	5.64	2.8	105	0.34	
LC0008	67.3	4.7	1260	72.33	H
LC0009	5.006	0.343	93.5	-0.4	
LC0010	4.77	0.48	89.1	-0.68	
LC0011	6.05	1.09	113	0.81	
LC0012	5.35	1.4	100	0.00	
LC0013	4.32	0.302	80.7	-1.21	
LC0014	5.057	1.01	94.5	-0.35	
LC0016	4.48	1.03	83.7	-1.02	
LC0017	5.797	1.7	108	0.52	
LC0018	5.7	1.1	106	0.41	
LC0019	5.3	1.33	99	-0.06	
LC0023	6.01	1.2	112	0.77	

Characteristics of parameter

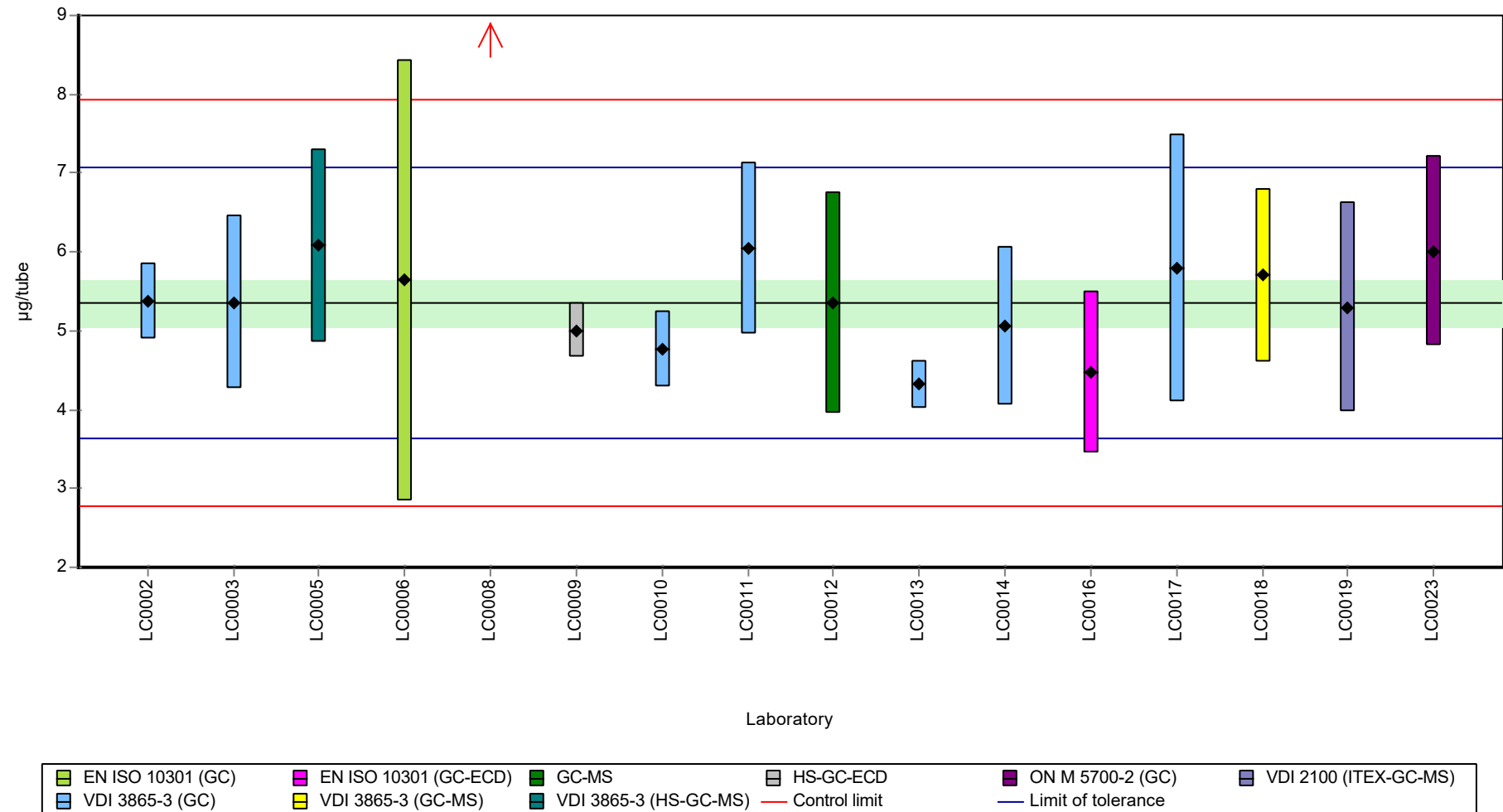
	all results	without outliers	Unit
Mean ± CI (99%)	9.22 ± 11.6	5.35 ± 0.426	µg/tube
Minimum	4.32	4.32	µg/tube
Maximum	67.3	6.08	µg/tube
Standard deviation	15.5	0.549	µg/tube
rel. standard deviation	168	10.3	%
n	16	15	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: 1,1,1-Trichloroethane

Graphical presentation of results

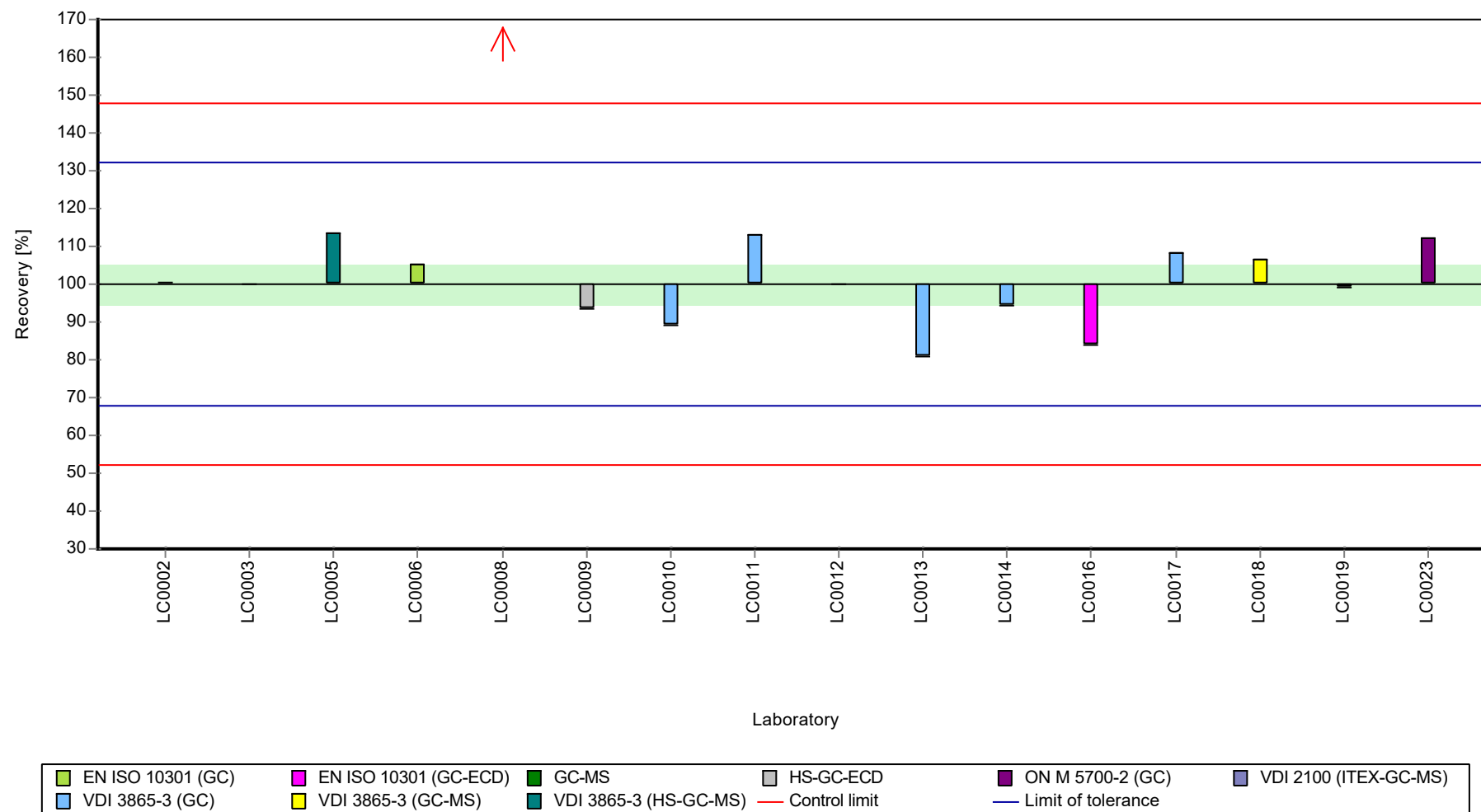
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: 1,1,1-Trichloroethane

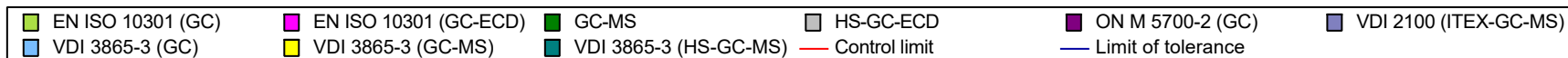
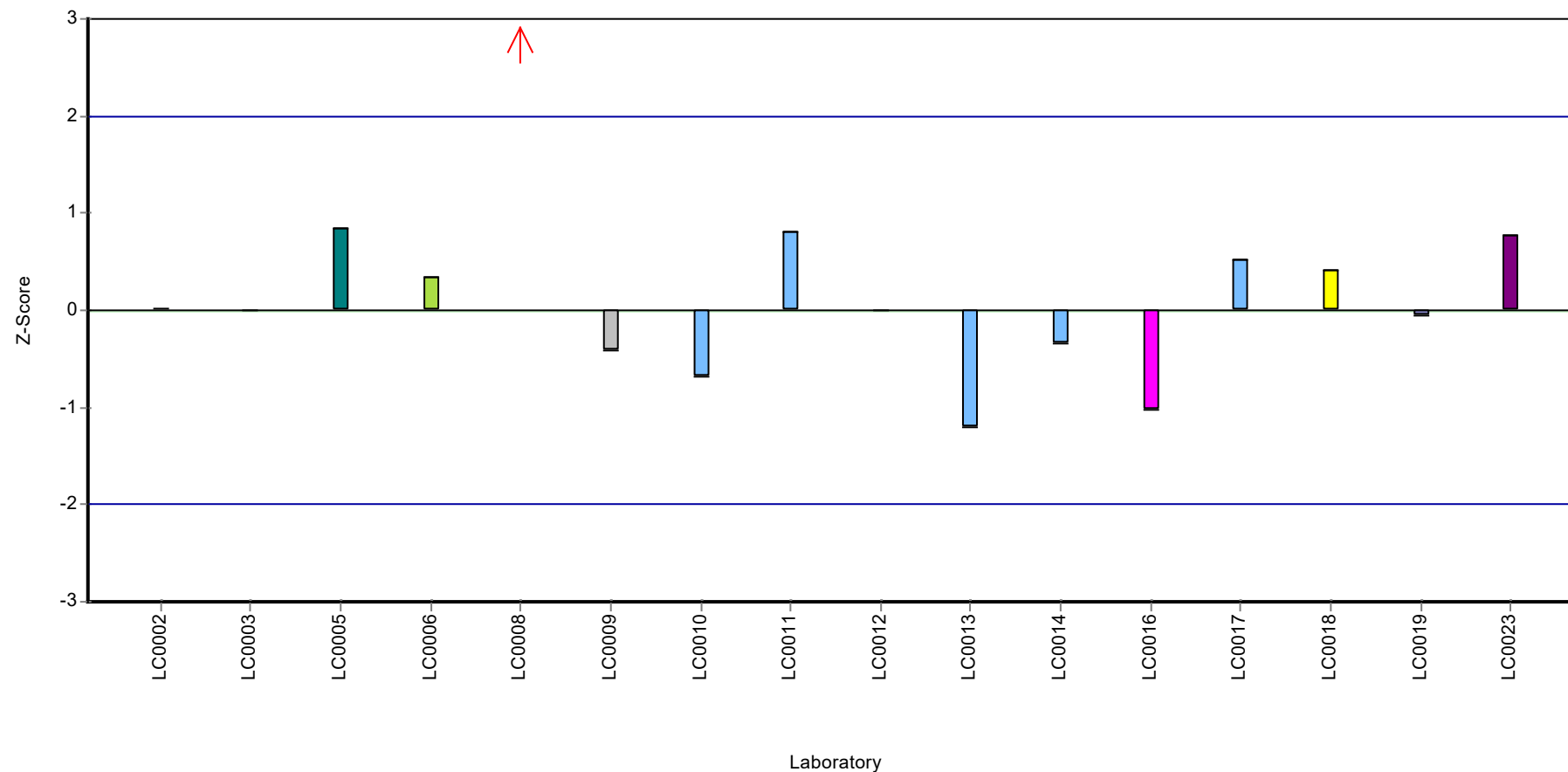
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: 1,1,1-Trichloroethane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: Benzene

Parameter oriented report

BL13 - BTEX & C5-C10

Benzene

Unit	µg/tube
Assigned value ± U (k=2)	4.66 ± 0.33
Criterion	0.699 (15 %)
Minimum - Maximum	3.01 - 5.62
Control test value ± U (k=2)	4.73 ± 1.12

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.52	1.36	97.1	-0.2	
LC0002	5.39	0.49	116	1.05	
LC0003	4.35	0.65	93.4	-0.44	
LC0004	5.027	0.437	108	0.53	
LC0005	5.13	0.51	110	0.68	
LC0006	3.01	1.5	64.6	-2.36	
LC0007	4.68	0.26	100	0.03	
LC0008	47.4	3.1	1020	61.18	H
LC0009	4.594	0.458	98.6	-0.09	
LC0010	4.27	0.64	91.7	-0.55	
LC0011	5.48	1.21	118	1.18	
LC0012	5.55	1	119	1.28	
LC0013	4.86	0.486	104	0.29	
LC0014	4.456	0.89	95.7	-0.29	
LC0015	0.902	0.1	19.4	-5.38	H
LC0016	5.62	1.25	121	1.38	
LC0017	4.91	1.3	105	0.36	
LC0018	3.26	0.65	70	-2	
LC0019	4.68	1.17	100	0.03	
LC0020	5.0347	0.7552	108	0.54	
LC0021	3.3458	0.5022	71.8	-1.88	
LC0022	4.98	0.25	107	0.46	

Characteristics of parameter

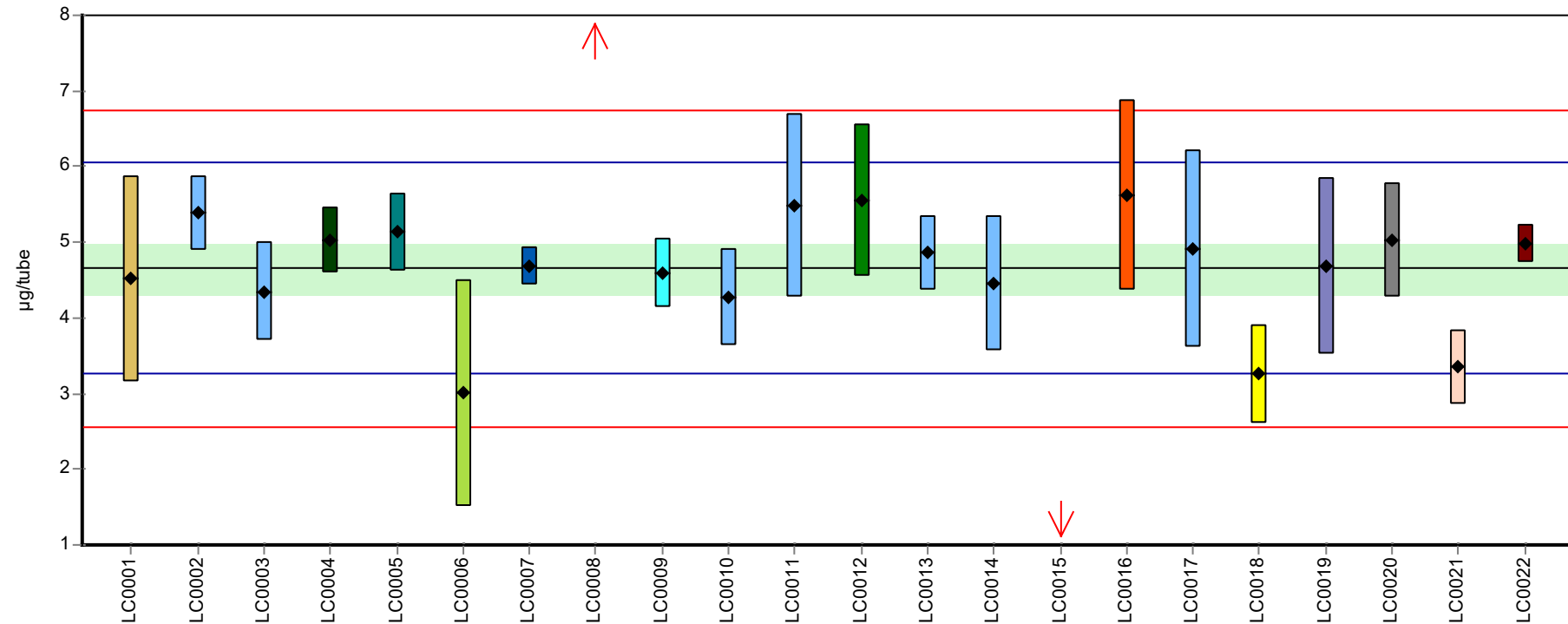
	all results	without outliers	Unit
Mean ± CI (99%)	6.43 ± 5.89	4.66 ± 0.495	µg/tube
Minimum	0.902	3.01	µg/tube
Maximum	47.4	5.62	µg/tube
Standard deviation	9.21	0.738	µg/tube
rel. standard deviation	143	15.8	%
n	22	20	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

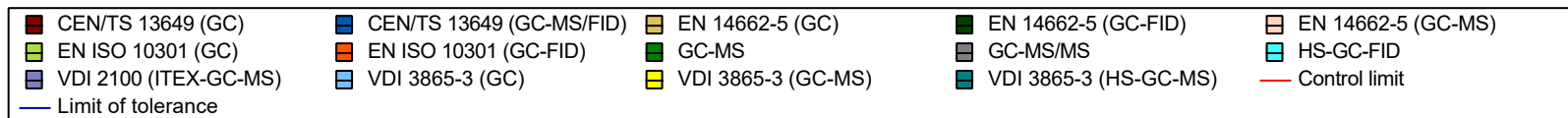
Sample: BL13, Parameter: Benzene

Graphical presentation of results

Results



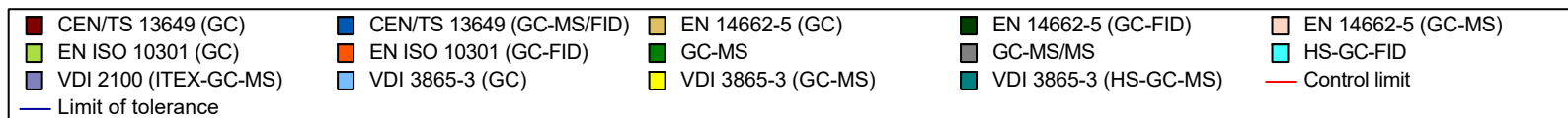
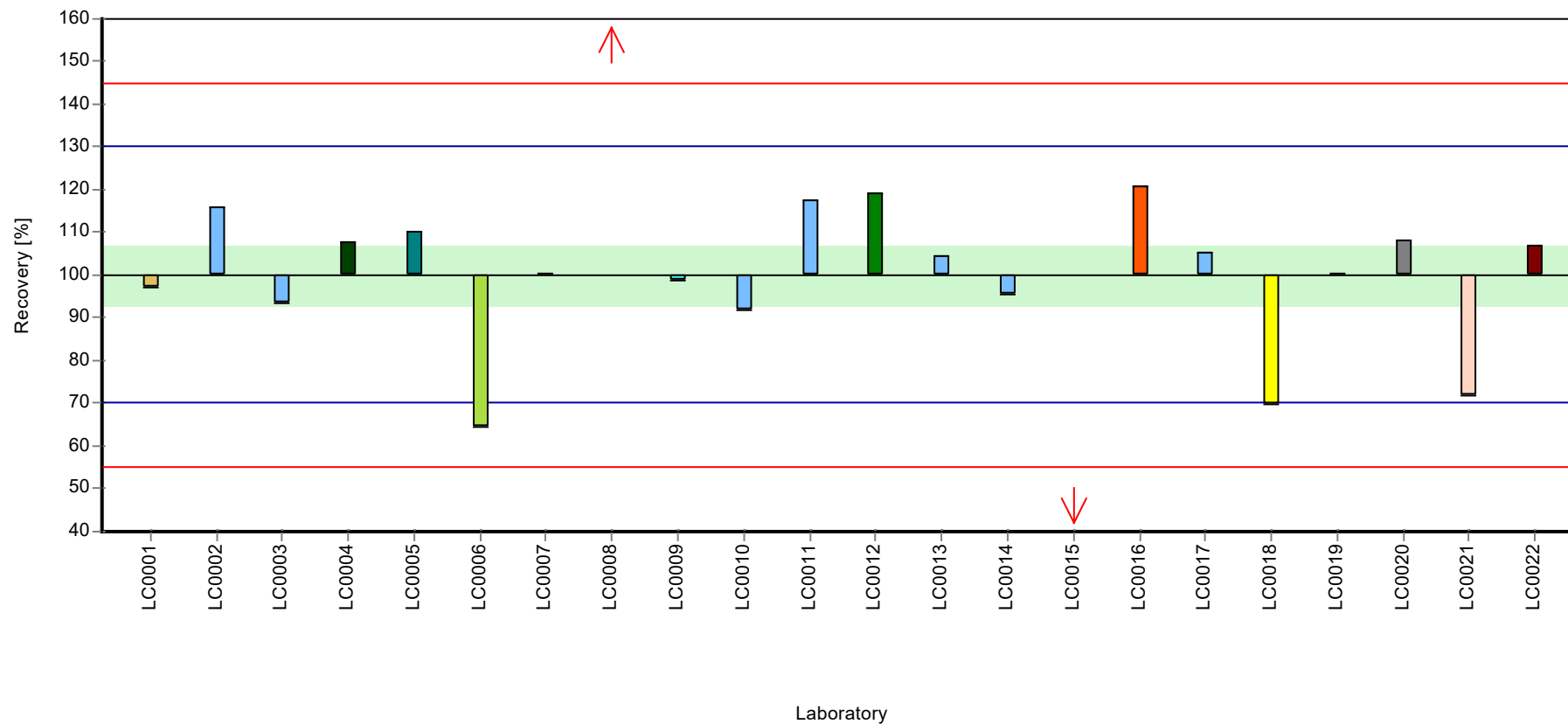
Laboratory



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Benzene

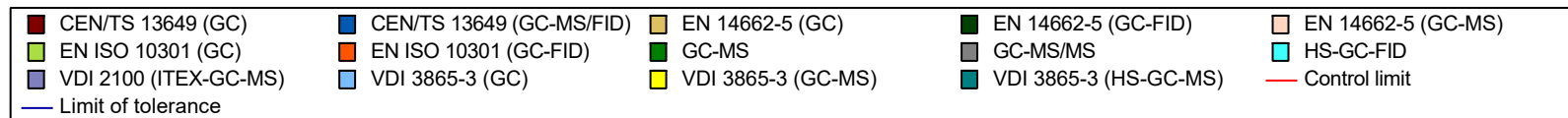
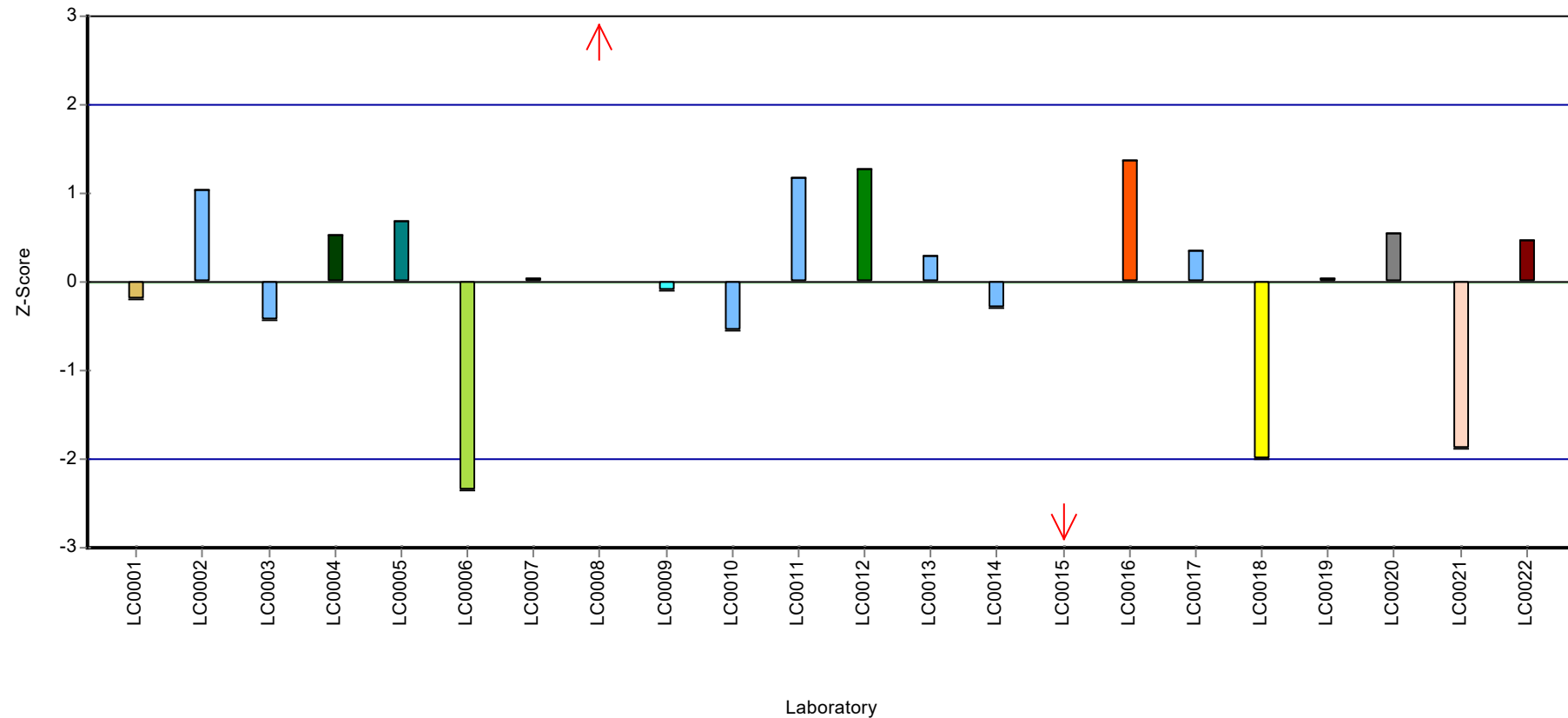
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Benzene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: cis-1,2-Dichloroethene

Parameter oriented report

CL12 - CHC

cis-1,2-Dichloroethene

Unit	µg/tube
Assigned value ± U (k=2)	3.86 ± 0.227
Criterion	1.43 (37 %)
Minimum - Maximum	3.1 - 4.55
Control test value ± U (k=2)	3.68 ± 1.08

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	4.05	0.36	105	0.13	
LC0003	3.97	0.87	103	0.08	
LC0005	4.07	0.41	105	0.15	
LC0006	3.14	1.55	81.3	-0.5	
LC0008	43.9	3.2	1140	28.03	H
LC0009	2.668	0.157	69.1	-0.83	H
LC0010	3.94	0.39	102	0.06	
LC0011	4.55	1	118	0.48	
LC0012	3.7	0.94	95.8	-0.11	
LC0013	3.101	0.217	80.3	-0.53	
LC0014	3.768	0.75	97.6	-0.06	
LC0016	2.57	0.72	66.6	-0.9	H
LC0017	4.386	0.9	114	0.37	
LC0018	3.97	0.79	103	0.08	
LC0019	3.72	0.93	96.4	-0.1	
LC0023	3.82	0.76	99	-0.03	

Characteristics of parameter

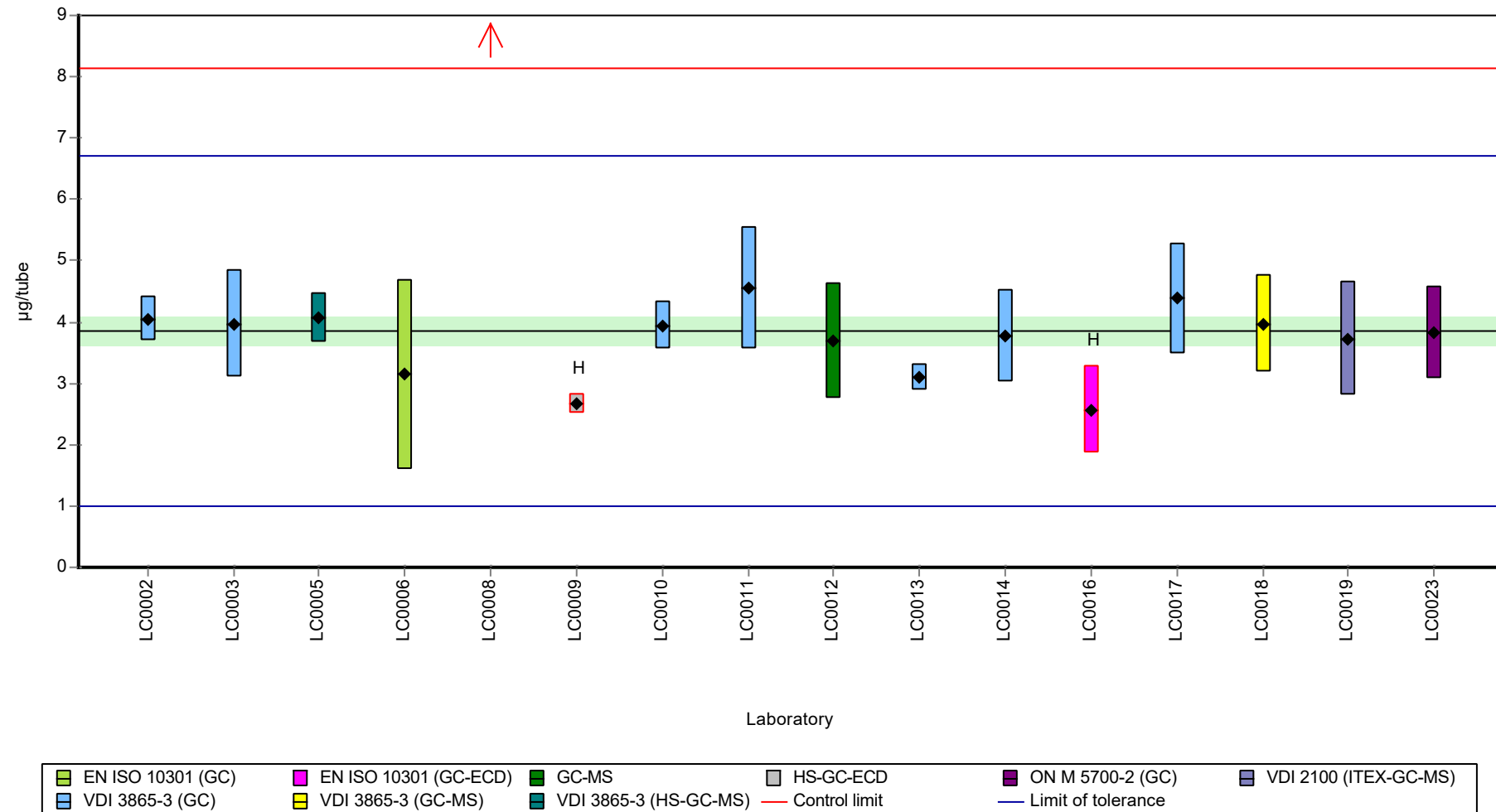
	all results	without outliers	Unit
Mean ± CI (99%)	6.21 ± 7.55	3.86 ± 0.341	µg/tube
Minimum	2.57	3.1	µg/tube
Maximum	43.9	4.55	µg/tube
Standard deviation	10.1	0.41	µg/tube
rel. standard deviation	162	10.6	%
n	16	13	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: cis-1,2-Dichloroethene

Graphical presentation of results

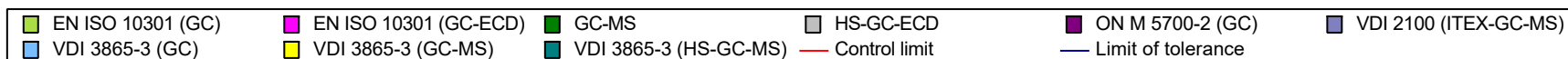
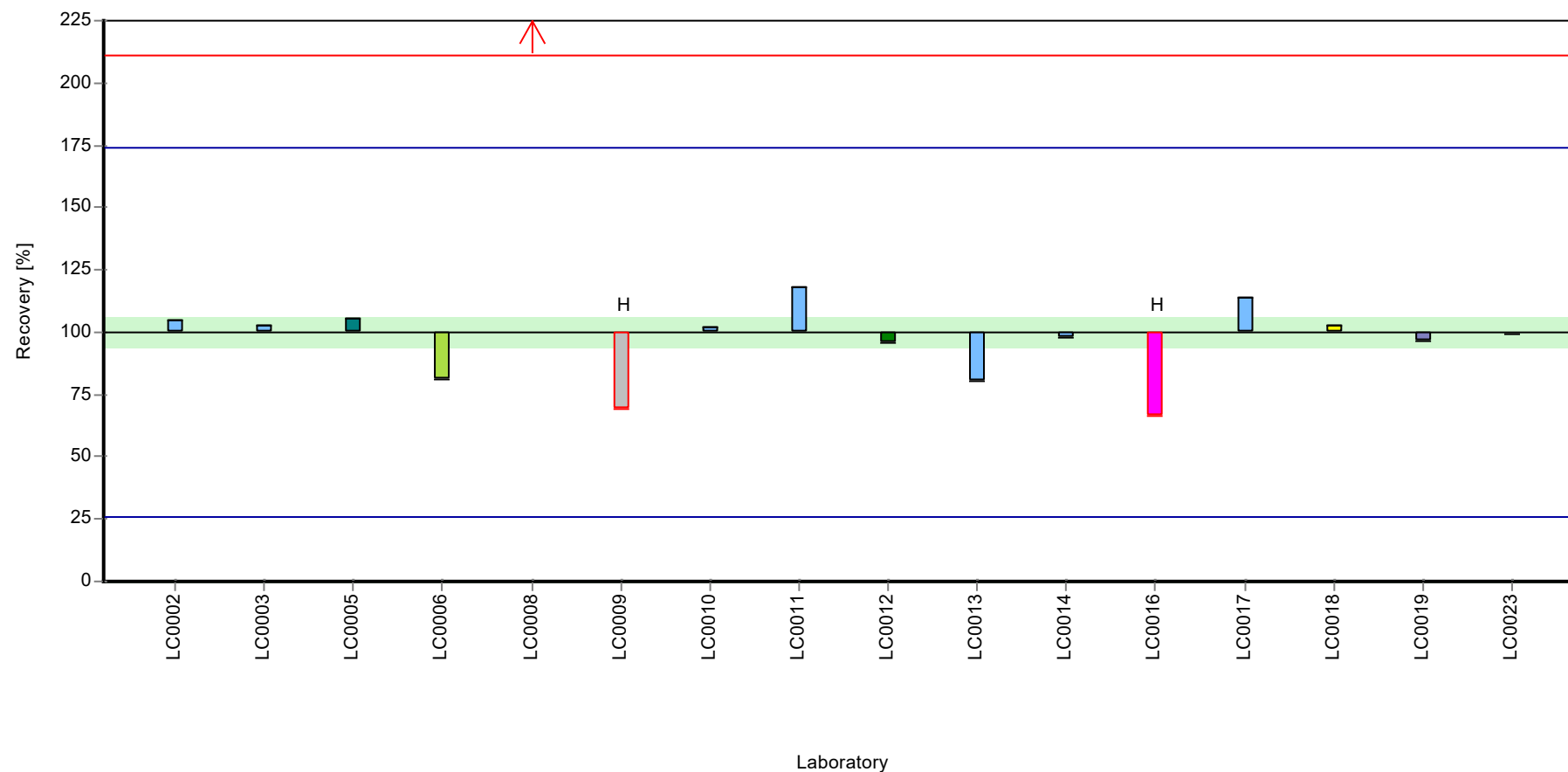
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: cis-1,2-Dichloroethene

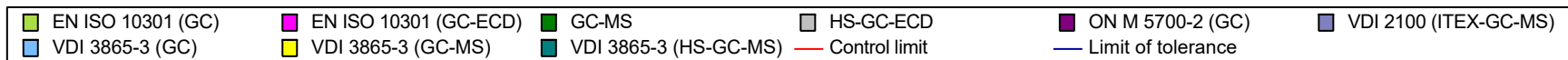
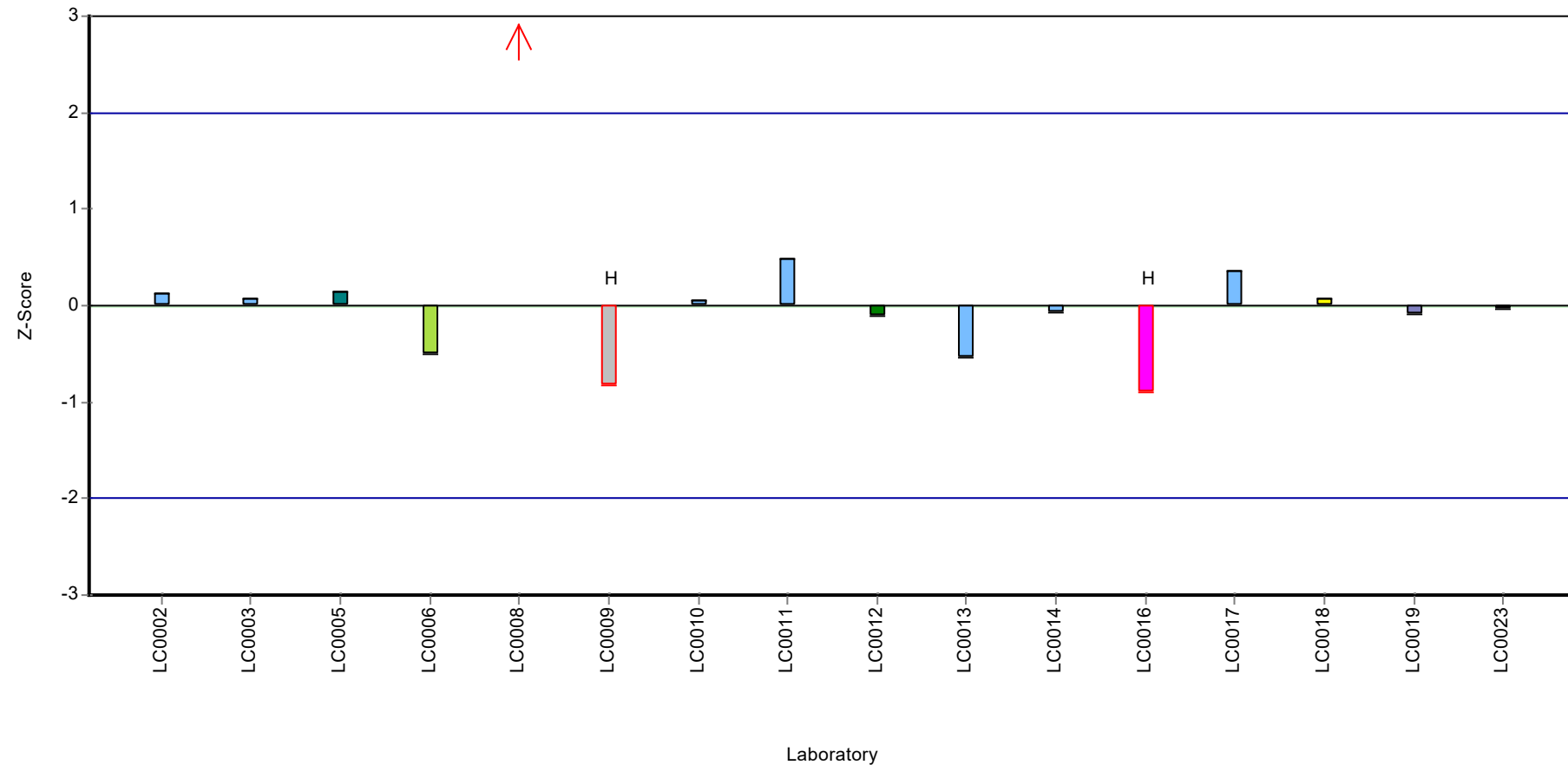
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: cis-1,2-Dichloroethene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: Ethylbenzene

Parameter oriented report

BL13 - BTEX & C5-C10

Ethylbenzene

Unit	µg/tube
Assigned value ± U (k=2)	3.95 ± 0.214
Criterion	0.711 (18 %)
Minimum - Maximum	3.13 - 4.63
Control test value ± U (k=2)	3.93 ± 0.93

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.71	1.11	93.9	-0.34	
LC0002	4.34	0.39	110	0.55	
LC0003	3.46	0.73	87.6	-0.69	
LC0004	4.28	0.479	108	0.46	
LC0005	4.36	0.65	110	0.58	
LC0006	6.99	3.5	177	4.28	H
LC0007	4.28	0.21	108	0.46	
LC0008	35	2.9	886	43.67	H
LC0009	3.452	0.177	87.4	-0.7	
LC0010	3.6	0.36	91.1	-0.49	
LC0011	4.53	1.04	115	0.82	
LC0012	3.65	0.73	92.4	-0.42	
LC0013	4.034	0.403	102	0.12	
LC0014	4.072	0.81	103	0.17	
LC0015	0.947	0.098	24	-4.22	H
LC0016	4.63	1.01	117	0.96	
LC0017	3.877	0.8	98.2	-0.1	
LC0018	3.68	0.74	93.2	-0.38	
LC0019	3.15	0.79	79.7	-1.13	
LC0020	4.3925	0.6589	111	0.62	
LC0021	3.132	0.3347	79.3	-1.15	
LC0022	4.42	0.25	112	0.66	

Characteristics of parameter

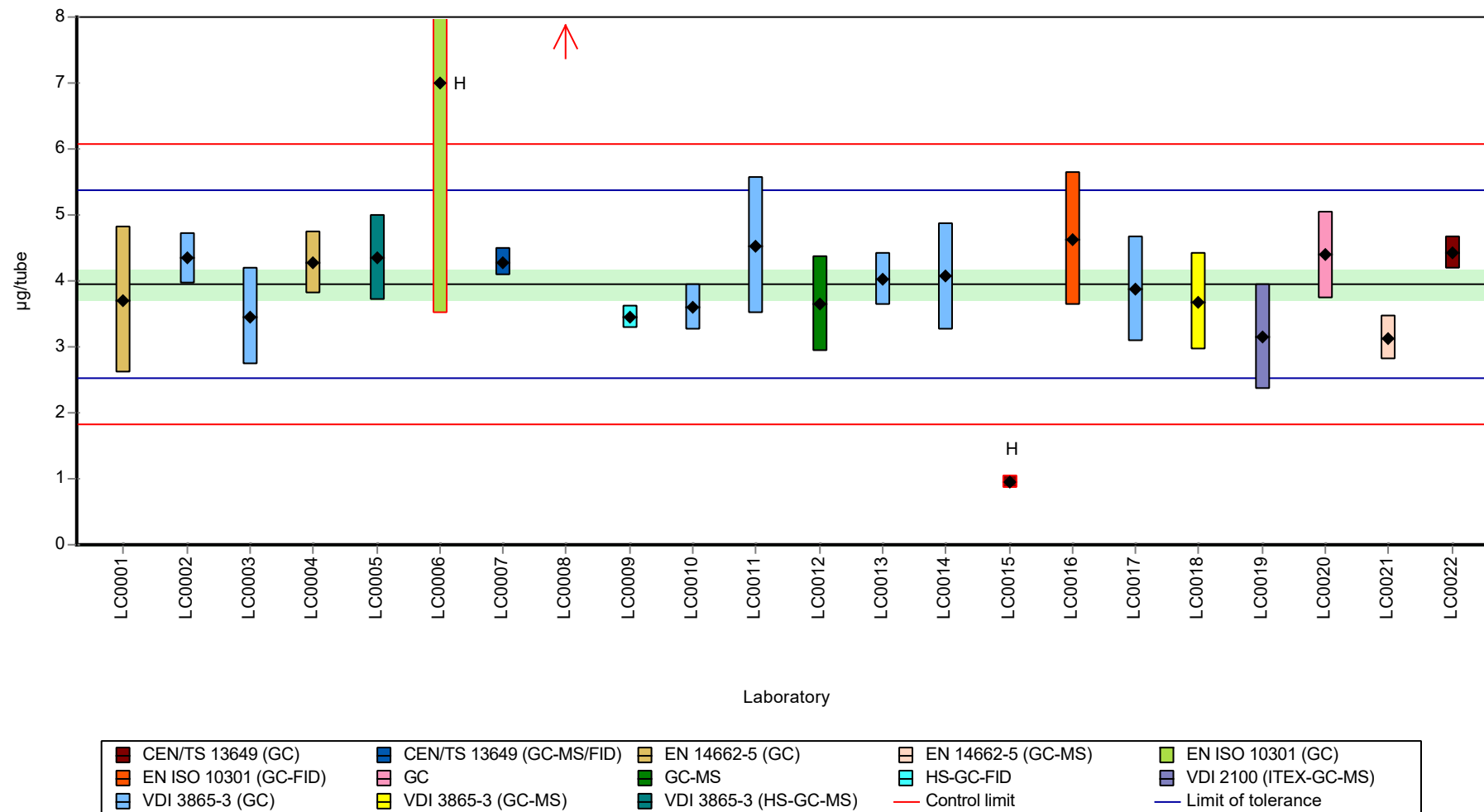
	all results	without outliers	Unit
Mean ± CI (99%)	5.36 ± 4.28	3.95 ± 0.321	µg/tube
Minimum	0.947	3.13	µg/tube
Maximum	35	4.63	µg/tube
Standard deviation	6.7	0.467	µg/tube
rel. standard deviation	125	11.8	%
n	22	19	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Ethylbenzene

Graphical presentation of results

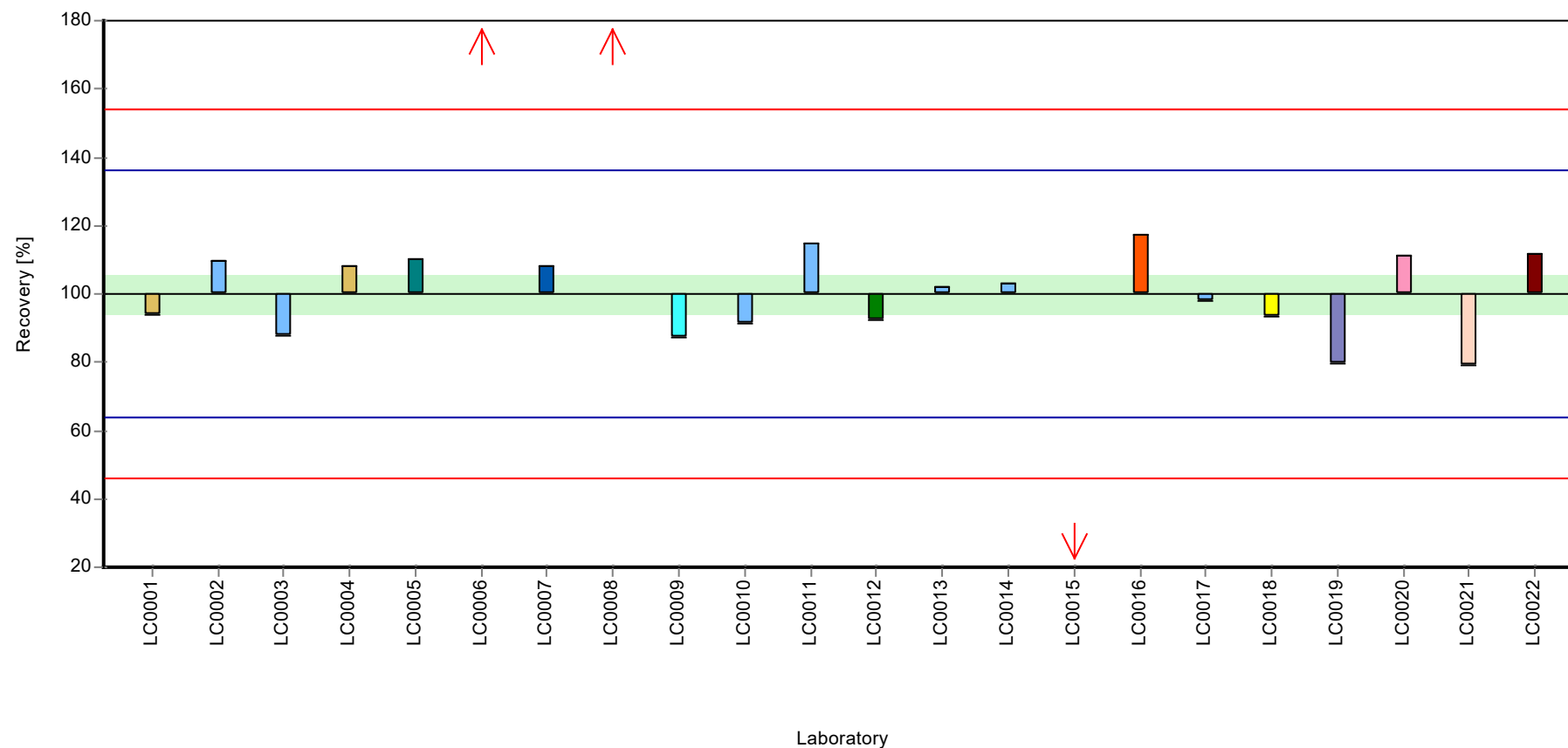
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Ethylbenzene

Recovery rate

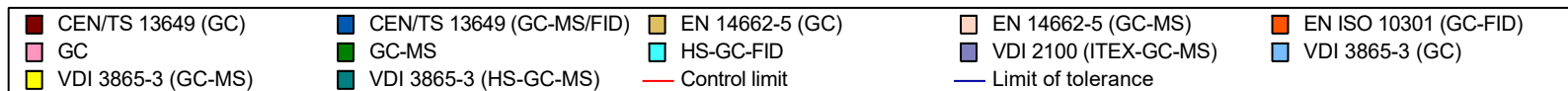
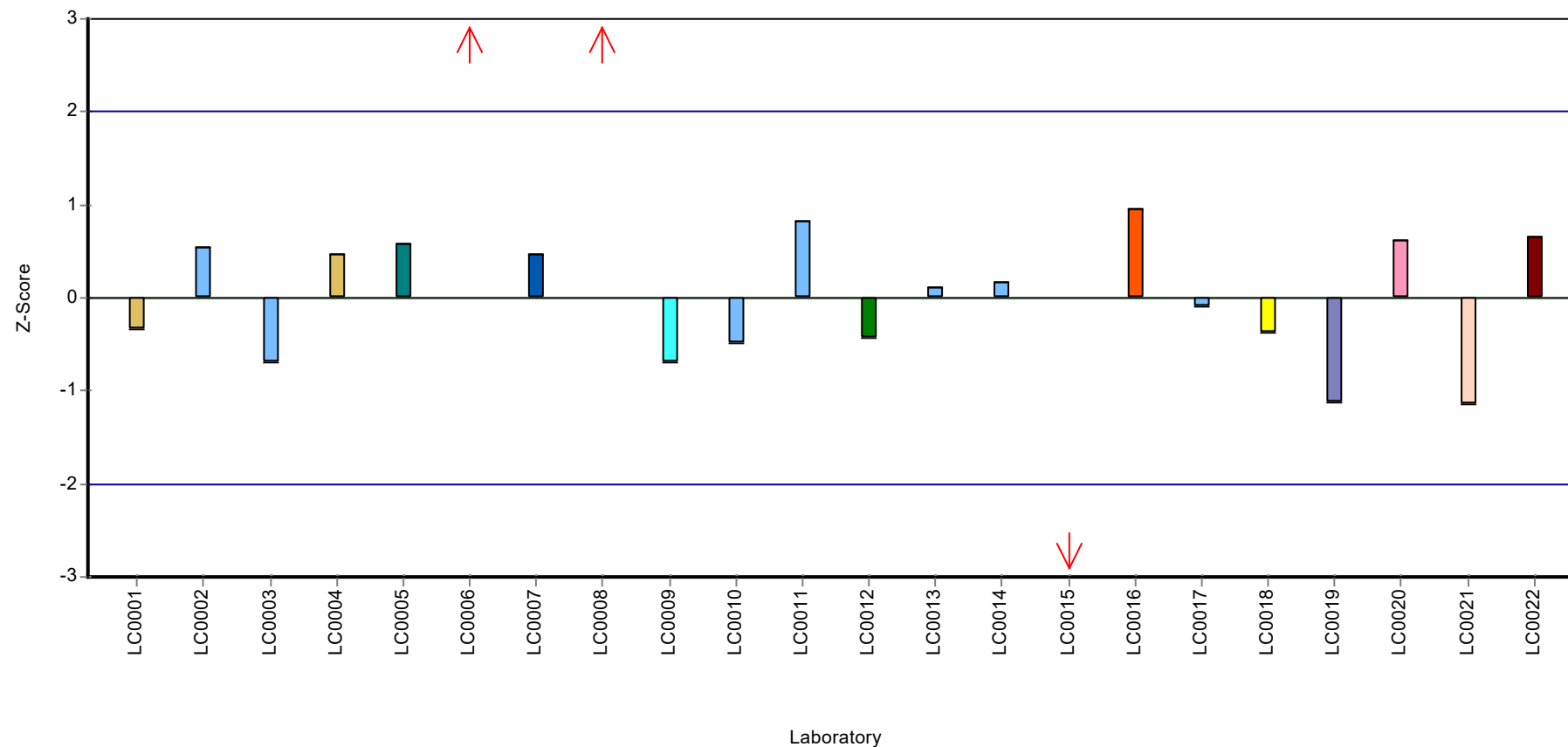


CEN/TS 13649 (GC)	CEN/TS 13649 (GC-MS/FID)	EN 14662-5 (GC)	EN 14662-5 (GC-MS)	EN ISO 10301 (GC-FID)
GC	GC-MS	HS-GC-FID	VDI 2100 (ITEX-GC-MS)	VDI 3865-3 (GC)
VDI 3865-3 (GC-MS)	VDI 3865-3 (HS-GC-MS)	Control limit	Limit of tolerance	

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Ethylbenzene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Decane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Decane

Unit	µg/tube
Assigned value ± U (k=2)	1.95 ± 0.231
Criterion	0.408 (21 %)
Minimum - Maximum	1.28 - 2.57
Control test value ± U (k=2)	1.87 ± 0.5

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.21	0.28	114	0.65	
LC0003	1.87	0.34	96.1	-0.18	
LC0004	-	-	-	-	
LC0005	1.28	0.26	65.8	-1.63	
LC0006	-	-	-	-	
LC0007	2.5	0.25	129	1.36	
LC0008	-	-	-	-	
LC0009	2.156	0.151	111	0.52	
LC0010	-	-	-	-	
LC0011	2.19	0.77	113	0.6	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	1.708	0.34	87.8	-0.58	
LC0015	-	-	-	-	
LC0016	2.06	0.24	106	0.28	
LC0017	1.51	0.2	77.6	-1.07	
LC0018	-	-	-	-	
LC0019	1.63	0.41	83.8	-0.77	
LC0020	2.5675	0.3851	132	1.52	
LC0021	-	-	-	-	
LC0022	1.66	0.08	85.3	-0.7	

Characteristics of parameter

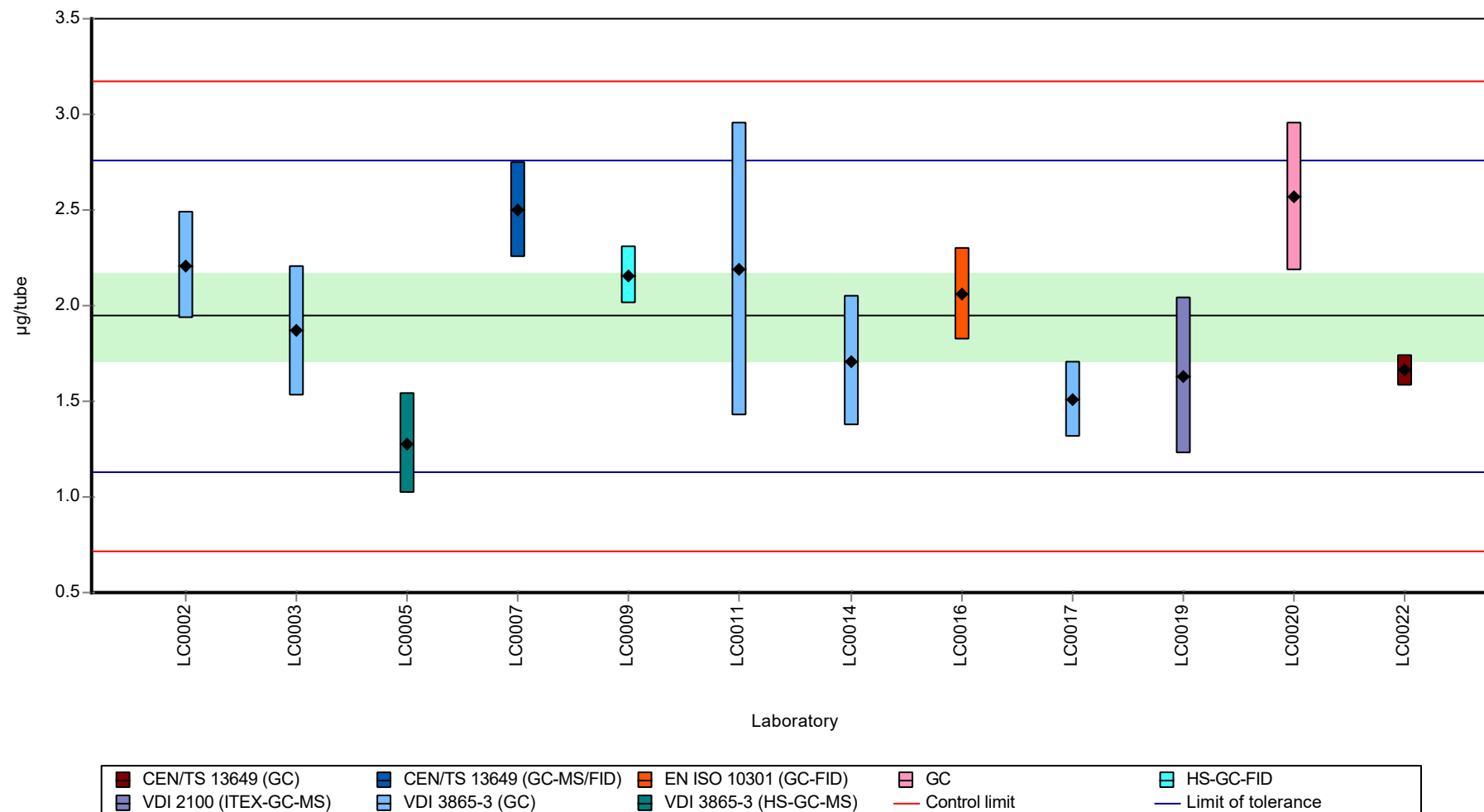
	all results	w ithout outliers	Unit
Mean ± CI (99%)	1.95 ± 0.346	1.95 ± 0.346	µg/tube
Minimum	1.28	1.28	µg/tube
Maximum	2.57	2.57	µg/tube
Standard deviation	0.4	0.4	µg/tube
rel. standard deviation	20.5	20.5	%
n	12	12	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Decane

Graphical presentation of results

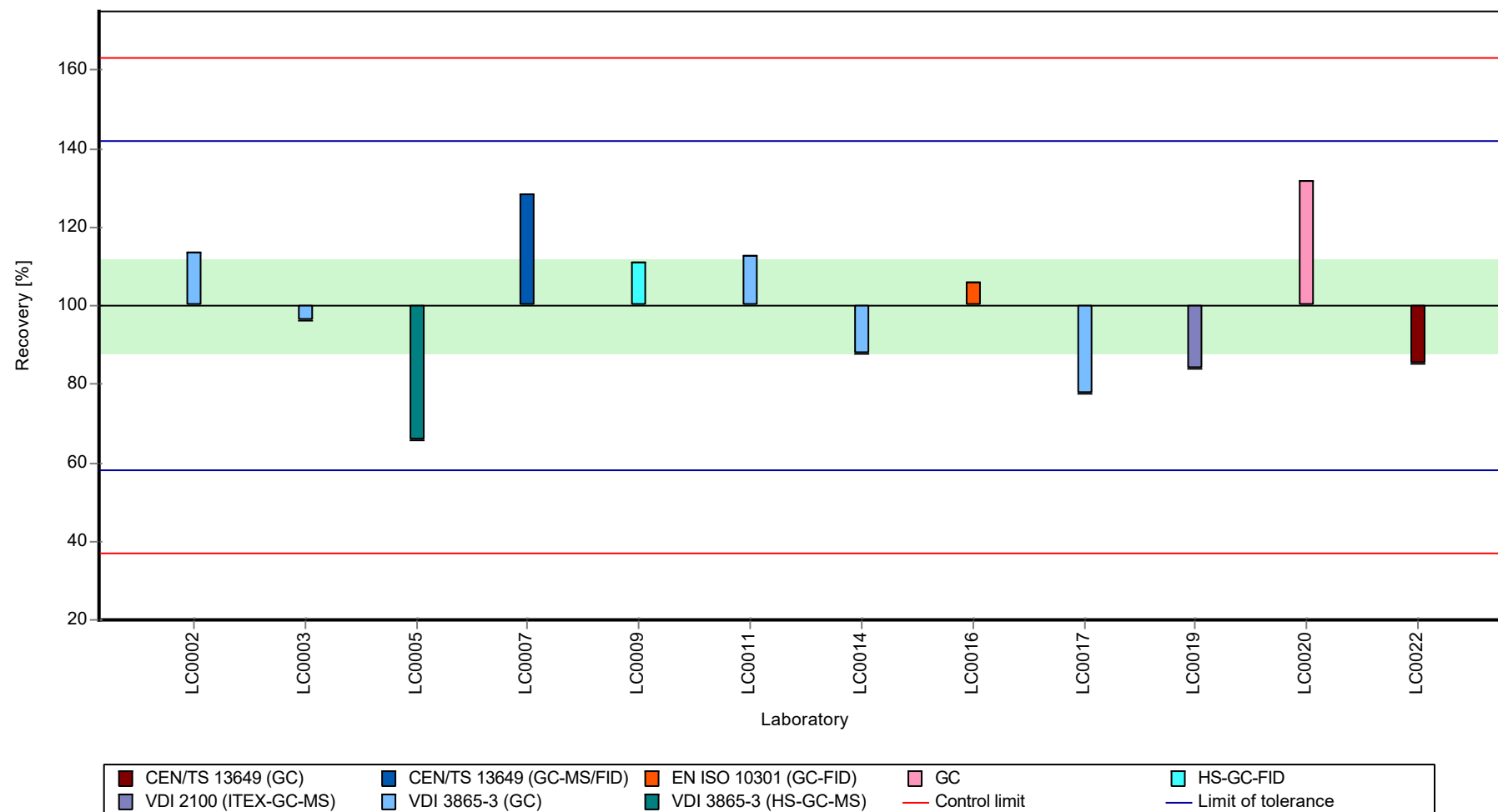
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Decane

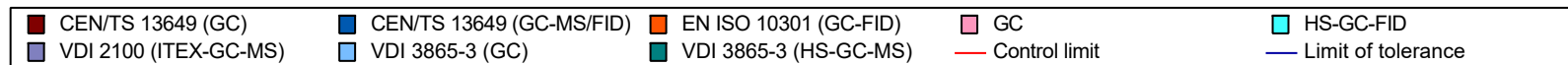
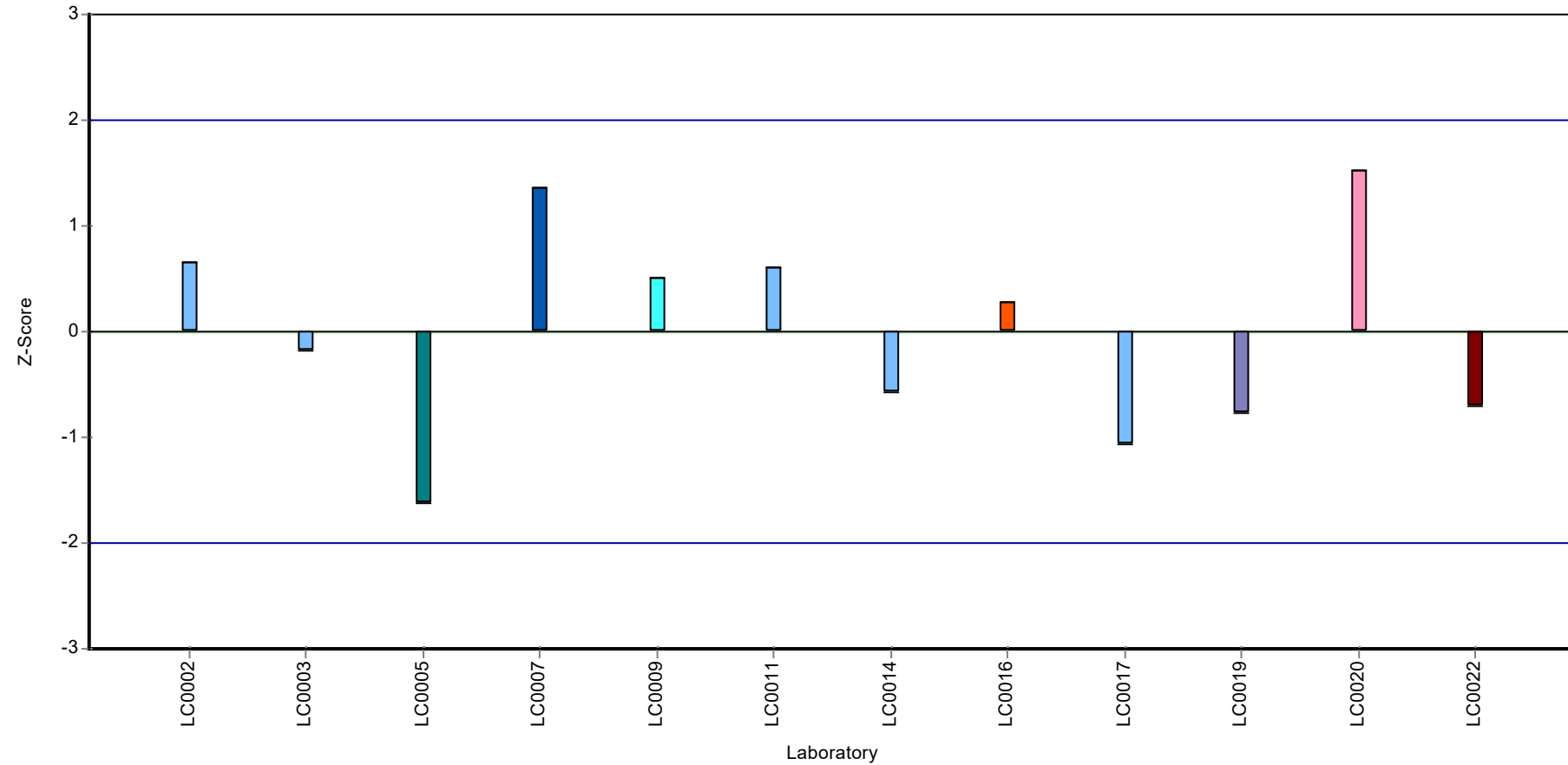
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Decane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Heptane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Heptane

Unit	µg/tube
Assigned value ± U (k=2)	6.16 ± 0.421
Criterion	1.11 (18 %)
Minimum - Maximum	5.1 - 7.68
Control test value ± U (k=2)	6.42 ± 1.72

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.68	0.69	125	1.37	
LC0003	5.62	1.5	91.2	-0.49	
LC0004	-	-	-	-	
LC0005	6.49	0.97	105	0.3	
LC0006	-	-	-	-	
LC0007	5.5	0.55	89.3	-0.6	
LC0008	-	-	-	-	
LC0009	6.242	0.457	101	0.07	
LC0010	5.1	0.77	82.8	-0.96	
LC0011	6.52	1.83	106	0.32	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	5.597	1.12	90.9	-0.51	
LC0015	-	-	-	-	
LC0016	6.66	0.63	108	0.45	
LC0017	6.928	0.8	112	0.69	
LC0018	-	-	-	-	
LC0019	5.88	1.47	95.4	-0.25	
LC0020	5.71	0.8565	92.7	-0.41	
LC0021	-	-	-	-	
LC0022	-	-	-	-	

Characteristics of parameter

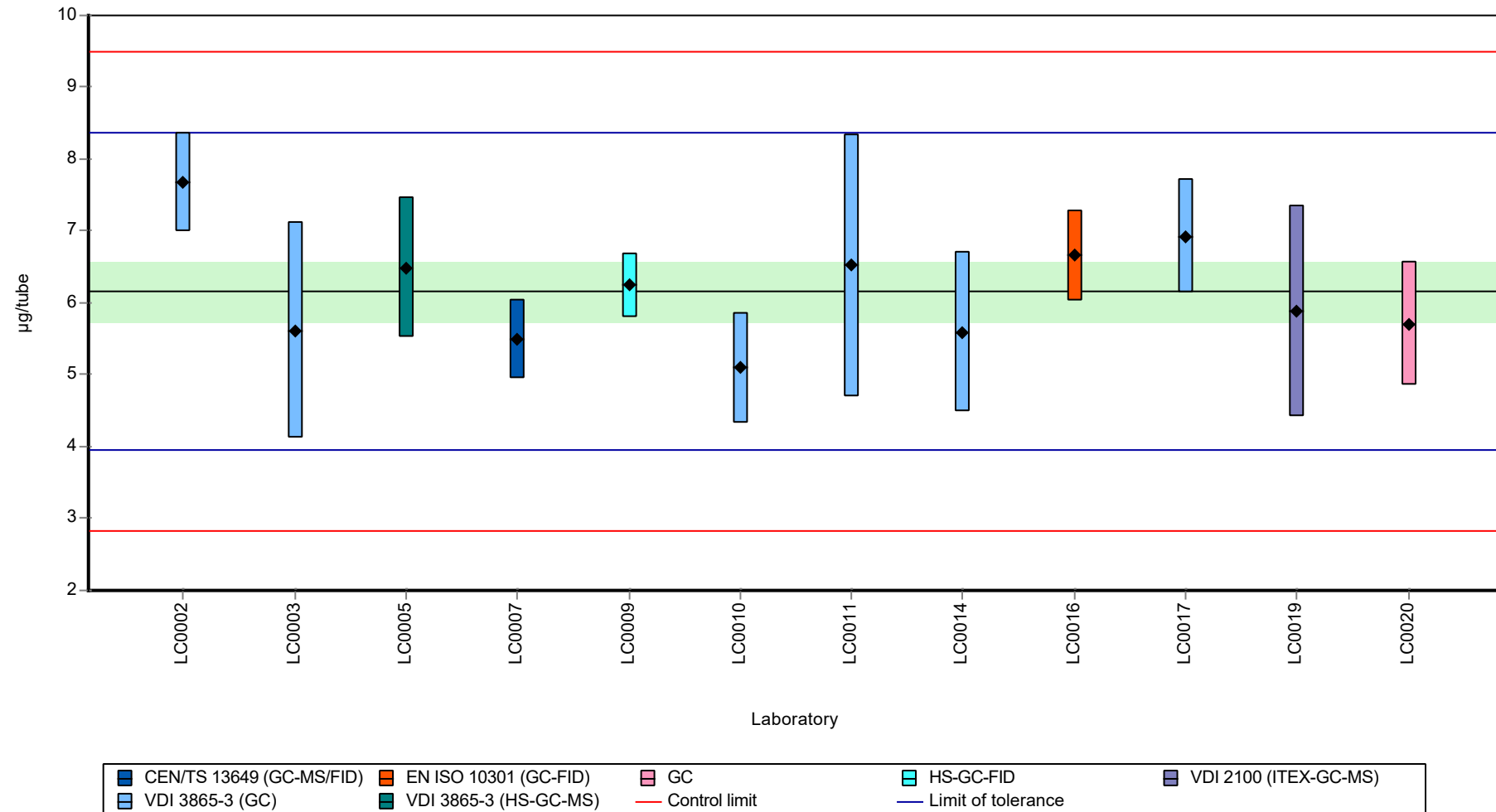
	all results	without outliers	Unit
Mean ± CI (99%)	6.16 ± 0.631	6.16 ± 0.631	µg/tube
Minimum	5.1	5.1	µg/tube
Maximum	7.68	7.68	µg/tube
Standard deviation	0.729	0.729	µg/tube
rel. standard deviation	11.8	11.8	%
n	12	12	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Heptane

Graphical presentation of results

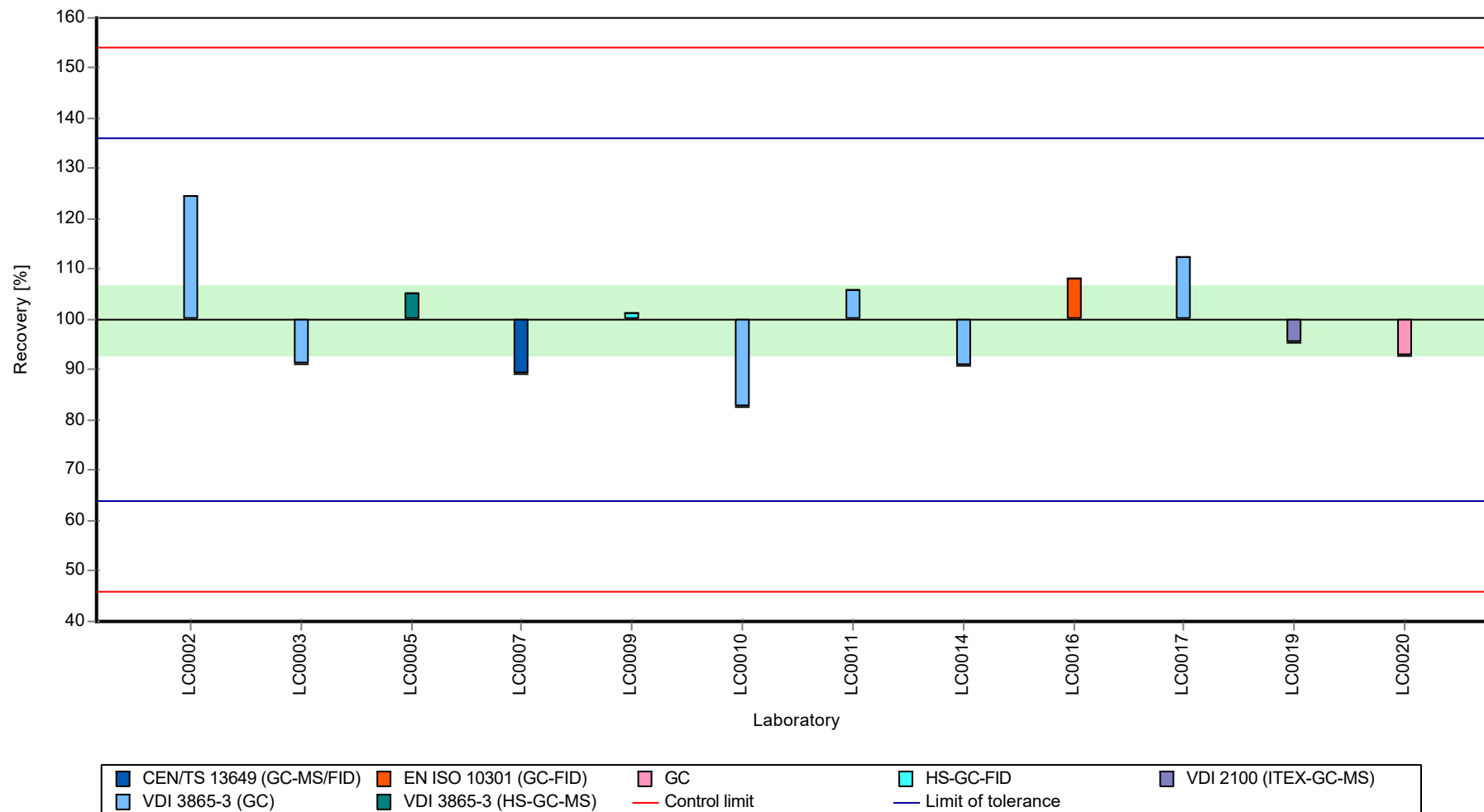
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Heptane

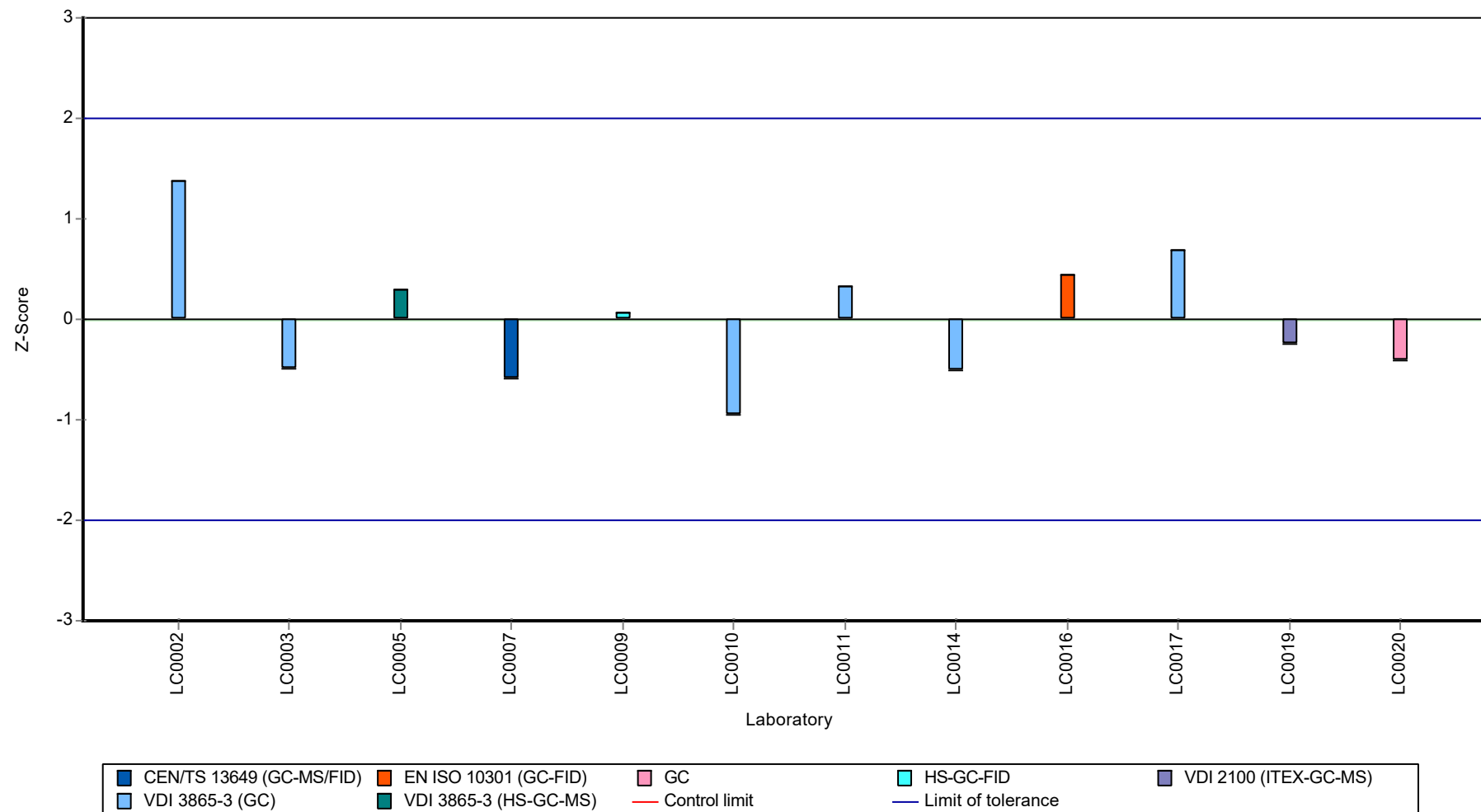
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Heptane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Hexane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Hexane

Unit	µg/tube
Assigned value ± U (k=2)	6.33 ± 0.621
Criterion	1.01 (16 %)
Minimum - Maximum	4.07 - 7.72
Control test value ± U (k=2)	6.44 ± 1.72

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.72	0.7	122	1.37	
LC0003	5.79	2.1	91.4	-0.54	
LC0004	-	-	-	-	
LC0005	6.7	1	106	0.36	
LC0006	-	-	-	-	
LC0007	5.85	0.59	92.3	-0.48	
LC0008	-	-	-	-	
LC0009	7.368	0.817	116	1.02	
LC0010	5.64	1.13	89	-0.69	
LC0011	7.33	2.64	116	0.98	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	4.073	0.81	64.3	-2.23	
LC0015	-	-	-	-	
LC0016	6.51	0.68	103	0.17	
LC0017	7.616	0.8	120	1.26	
LC0018	-	-	-	-	
LC0019	5.82	1.45	91.9	-0.51	
LC0020	5.6	0.84	88.4	-0.72	
LC0021	-	-	-	-	
LC0022	-	-	-	-	

Characteristics of parameter

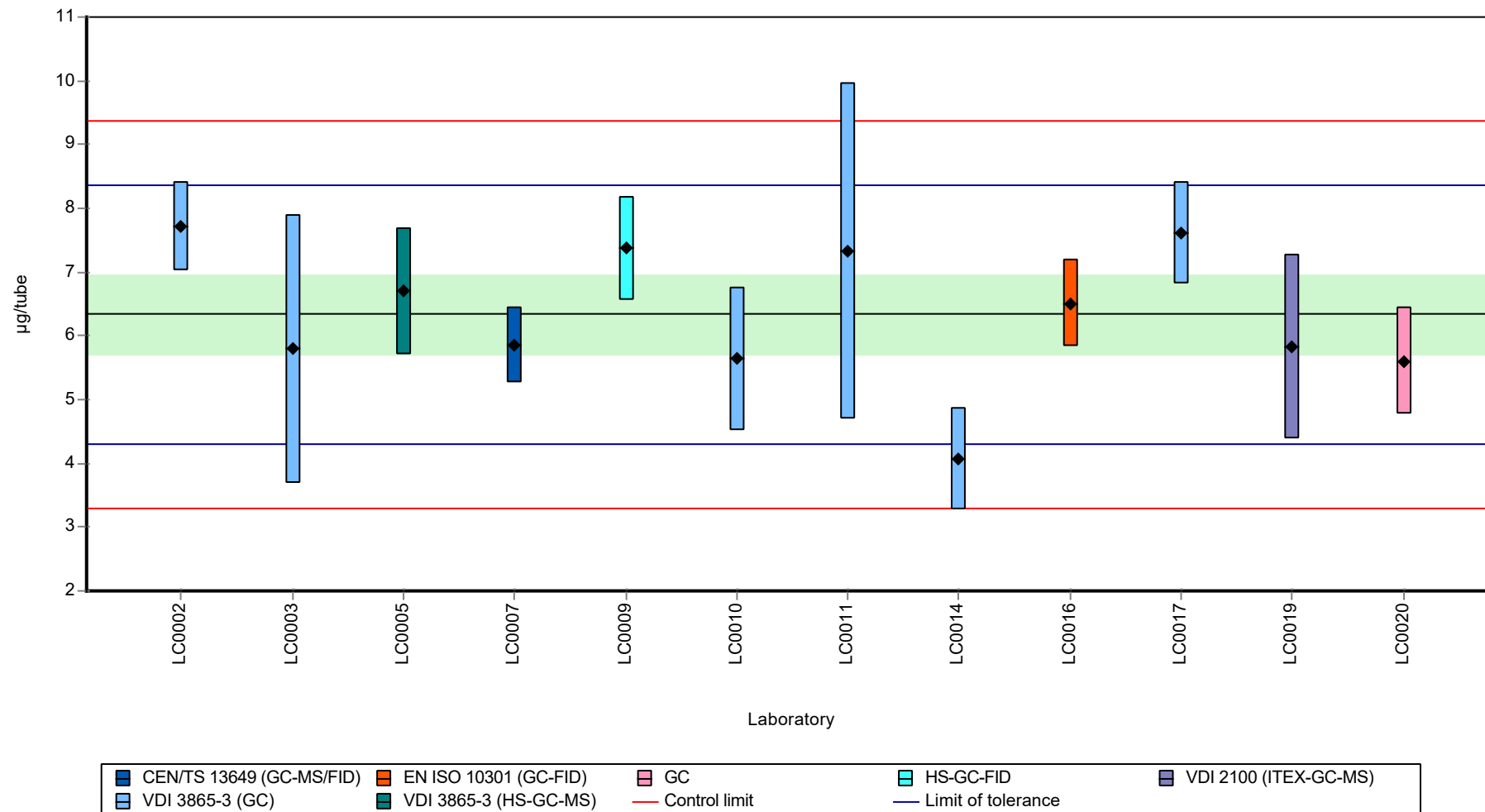
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.33 ± 0.931	6.33 ± 0.931	µg/tube
Minimum	4.07	4.07	µg/tube
Maximum	7.72	7.72	µg/tube
Standard deviation	1.08	1.08	µg/tube
rel. standard deviation	17	17	%
n	12	12	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Hexane

Graphical presentation of results

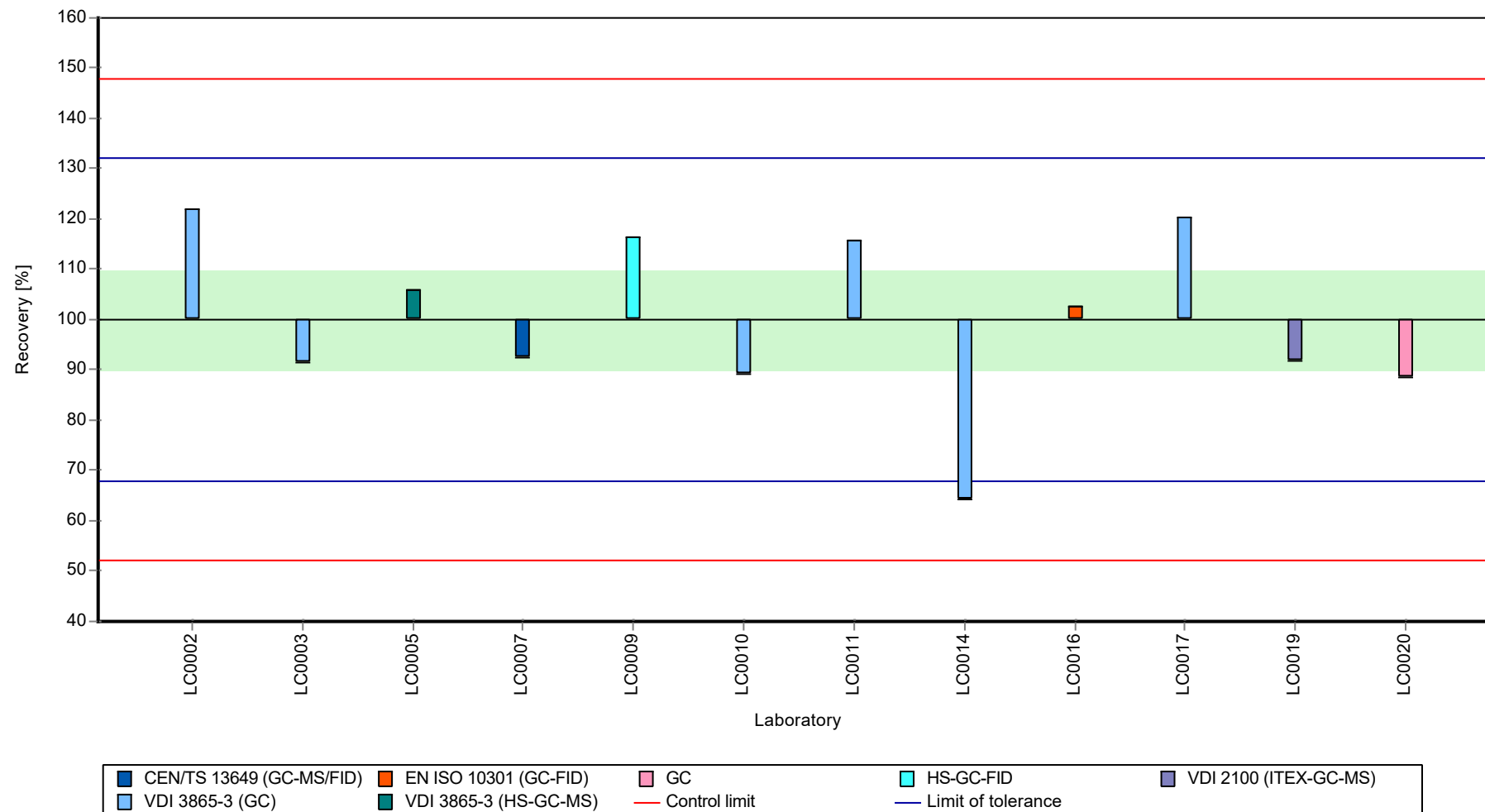
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Hexane

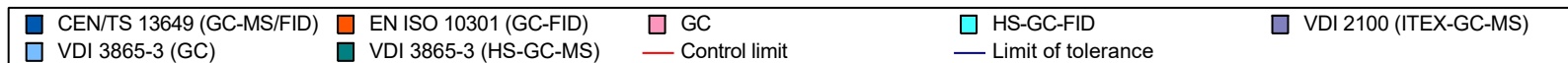
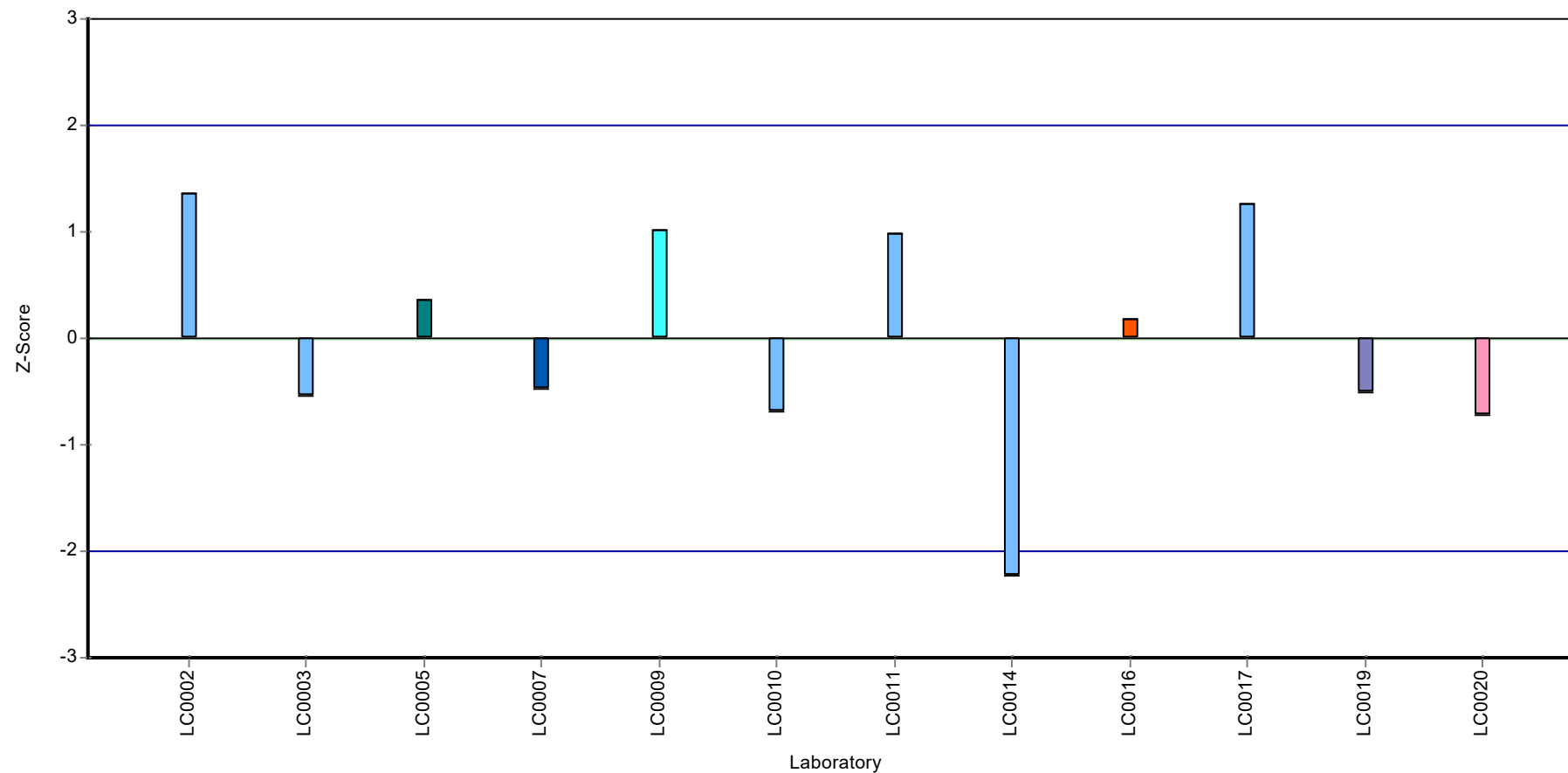
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Hexane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Nonane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Nonane

Unit	µg/tube
Assigned value ± U (k=2)	3.97 ± 0.271
Criterion	0.595 (15 %)
Minimum - Maximum	3.32 - 4.86
Control test value ± U (k=2)	3.83 ± 1.02

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	4.86	0.44	122	1.5	
LC0003	3.56	0.71	89.7	-0.69	
LC0004	-	-	-	-	
LC0005	3.51	0.7	88.4	-0.77	
LC0006	-	-	-	-	
LC0007	4.6	0.46	116	1.06	
LC0008	-	-	-	-	
LC0009	3.65	0.261	92	-0.54	
LC0010	-	-	-	-	
LC0011	4.02	1.13	101	0.09	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	4.012	0.8	101	0.07	
LC0015	-	-	-	-	
LC0016	4.2	0.33	106	0.39	
LC0017	3.629	0.4	91.4	-0.57	
LC0018	-	-	-	-	
LC0019	3.32	0.83	83.7	-1.09	
LC0020	4.365	0.6548	110	0.67	
LC0021	-	-	-	-	
LC0022	3.9	0.2	98.3	-0.12	

Characteristics of parameter

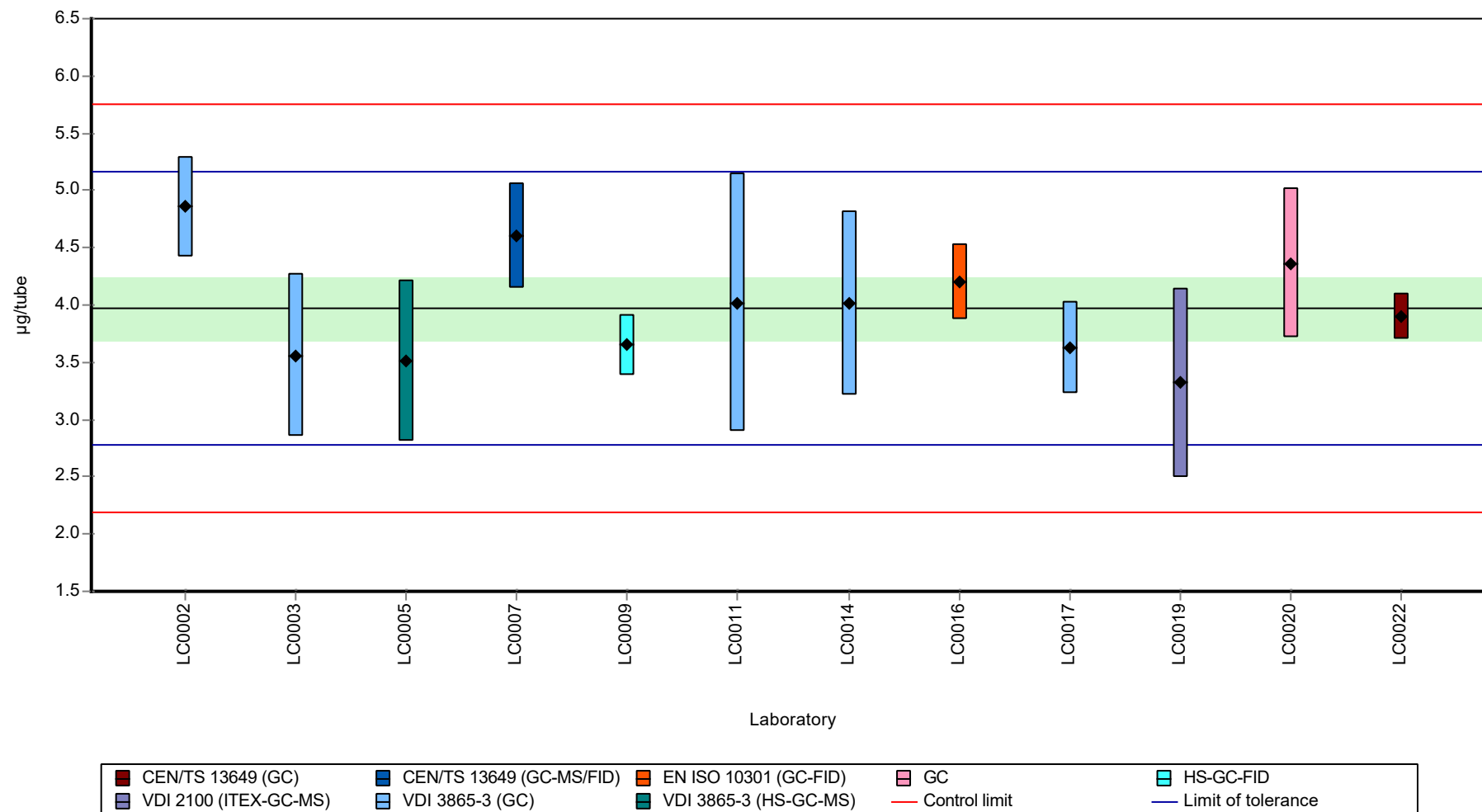
	all results	w ithout outliers	Unit
Mean ± CI (99%)	3.97 ± 0.407	3.97 ± 0.407	µg/tube
Minimum	3.32	3.32	µg/tube
Maximum	4.86	4.86	µg/tube
Standard deviation	0.47	0.47	µg/tube
rel. standard deviation	11.8	11.8	%
n	12	12	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Nonane

Graphical presentation of results

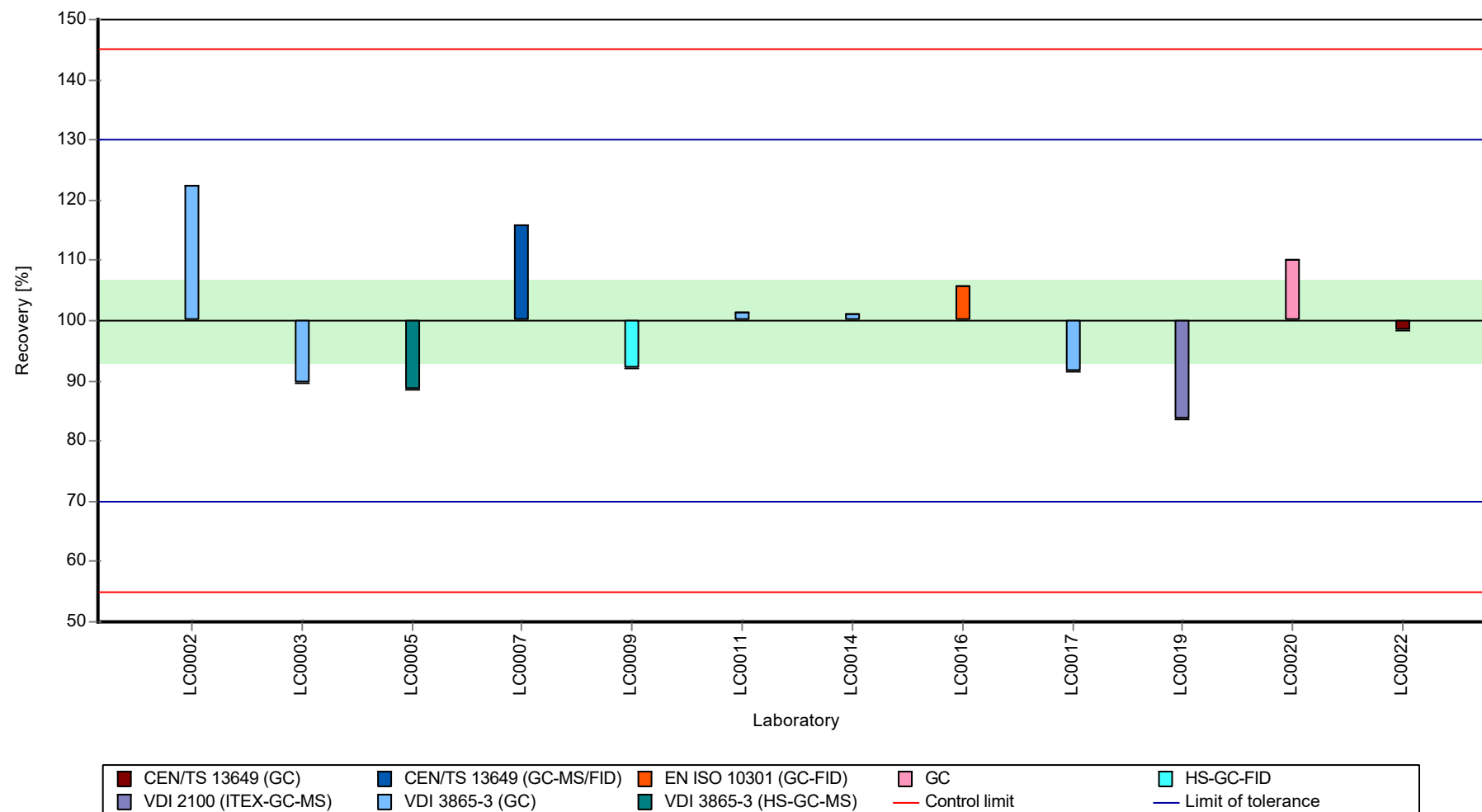
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Nonane

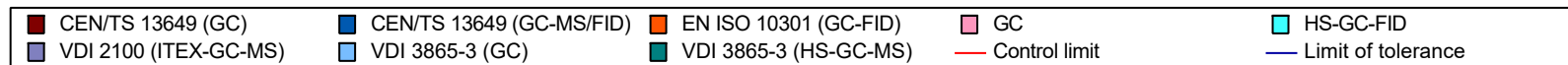
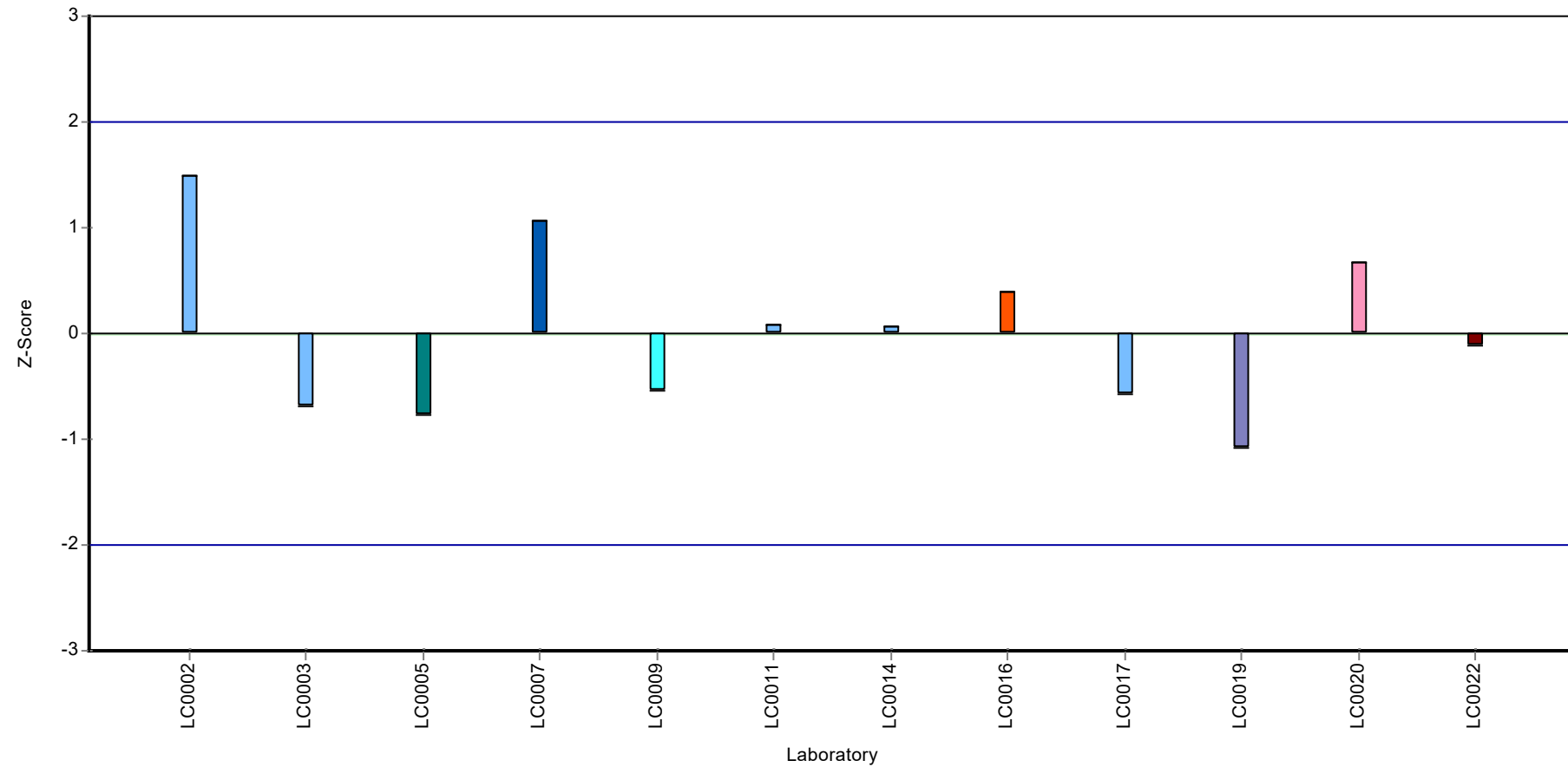
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Nonane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Octane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Octane

Unit	µg/tube
Assigned value ± U (k=2)	5.37 ± 0.273
Criterion	0.913 (17 %)
Minimum - Maximum	4.58 - 6.48
Control test value ± U (k=2)	5.58 ± 1.49

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	6.48	0.58	121	1.22	
LC0003	4.78	1.2	89	-0.65	
LC0004	-	-	-	-	
LC0005	5.84	0.88	109	0.52	
LC0006	-	-	-	-	
LC0007	5.43	0.6	101	0.07	
LC0008	-	-	-	-	
LC0009	5.237	0.375	97.5	-0.14	
LC0010	4.58	0.69	85.3	-0.86	
LC0011	5.32	1.86	99.1	-0.05	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	5.23	1.05	97.4	-0.15	
LC0015	-	-	-	-	
LC0016	5.84	0.31	109	0.52	
LC0017	5.097	0.6	94.9	-0.3	
LC0018	4.74	0.9	88.3	-0.69	
LC0019	5.22	1.3	97.2	-0.16	
LC0020	5.7275	0.8591	107	0.39	
LC0021	-	-	-	-	
LC0022	5.64	0.28	105	0.3	

Characteristics of parameter

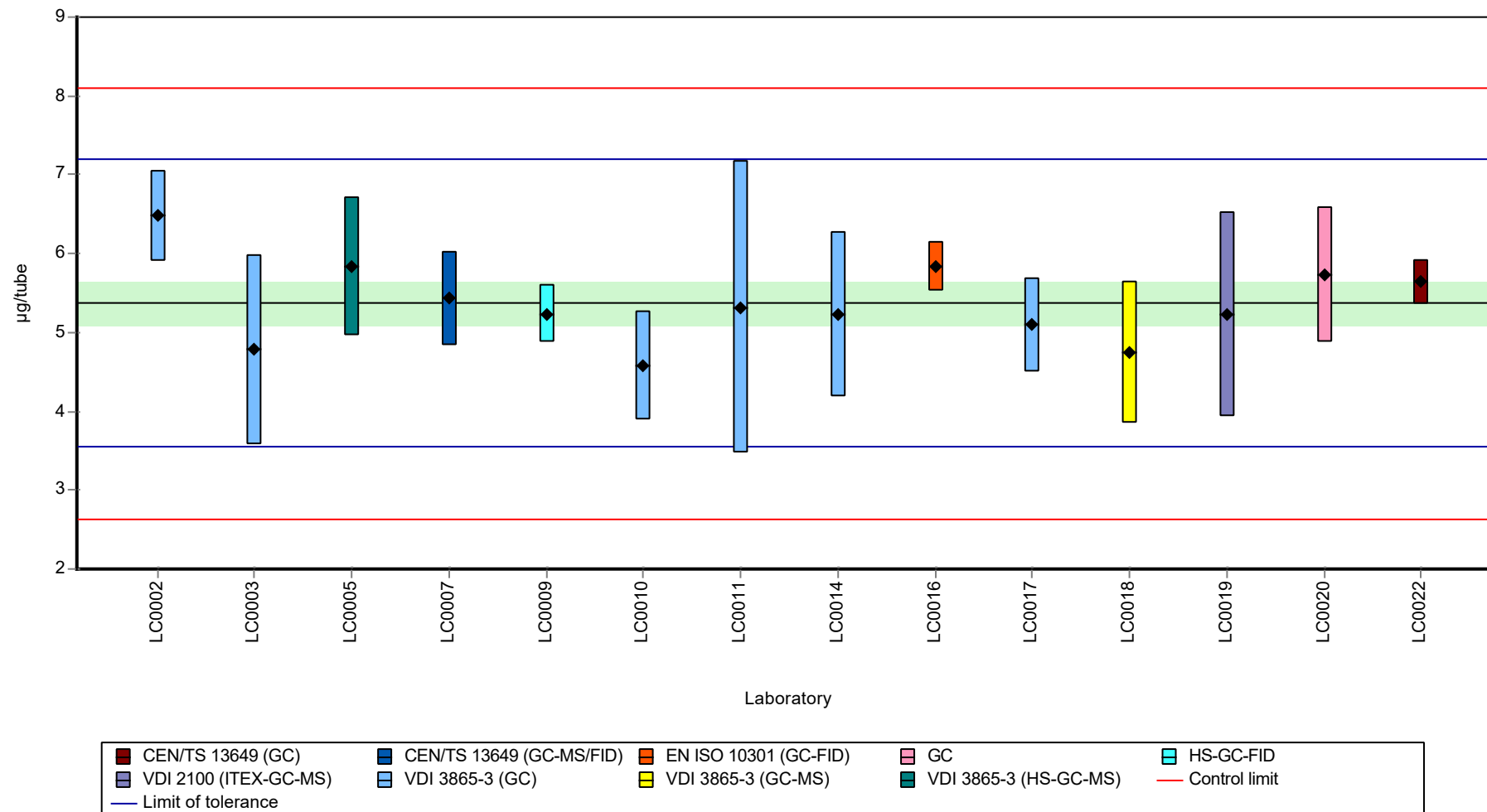
	all results	w without outliers	Unit
Mean ± CI (99%)	5.37 ± 0.409	5.37 ± 0.409	µg/tube
Minimum	4.58	4.58	µg/tube
Maximum	6.48	6.48	µg/tube
Standard deviation	0.51	0.51	µg/tube
rel. standard deviation	9.5	9.5	%
n	14	14	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Octane

Graphical presentation of results

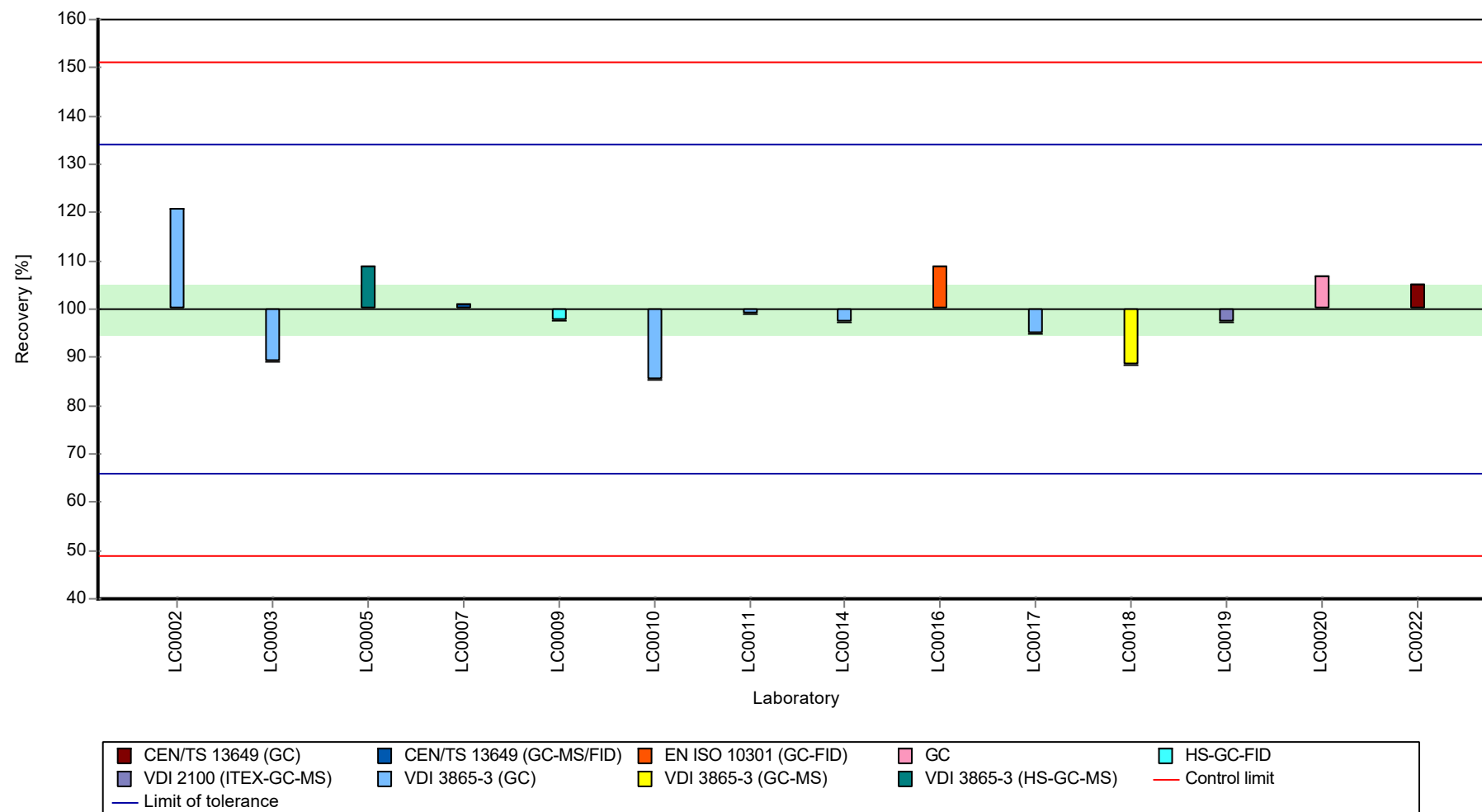
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Octane

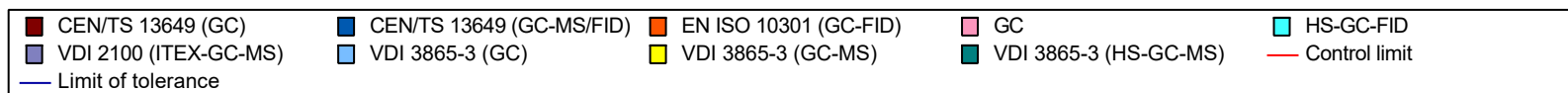
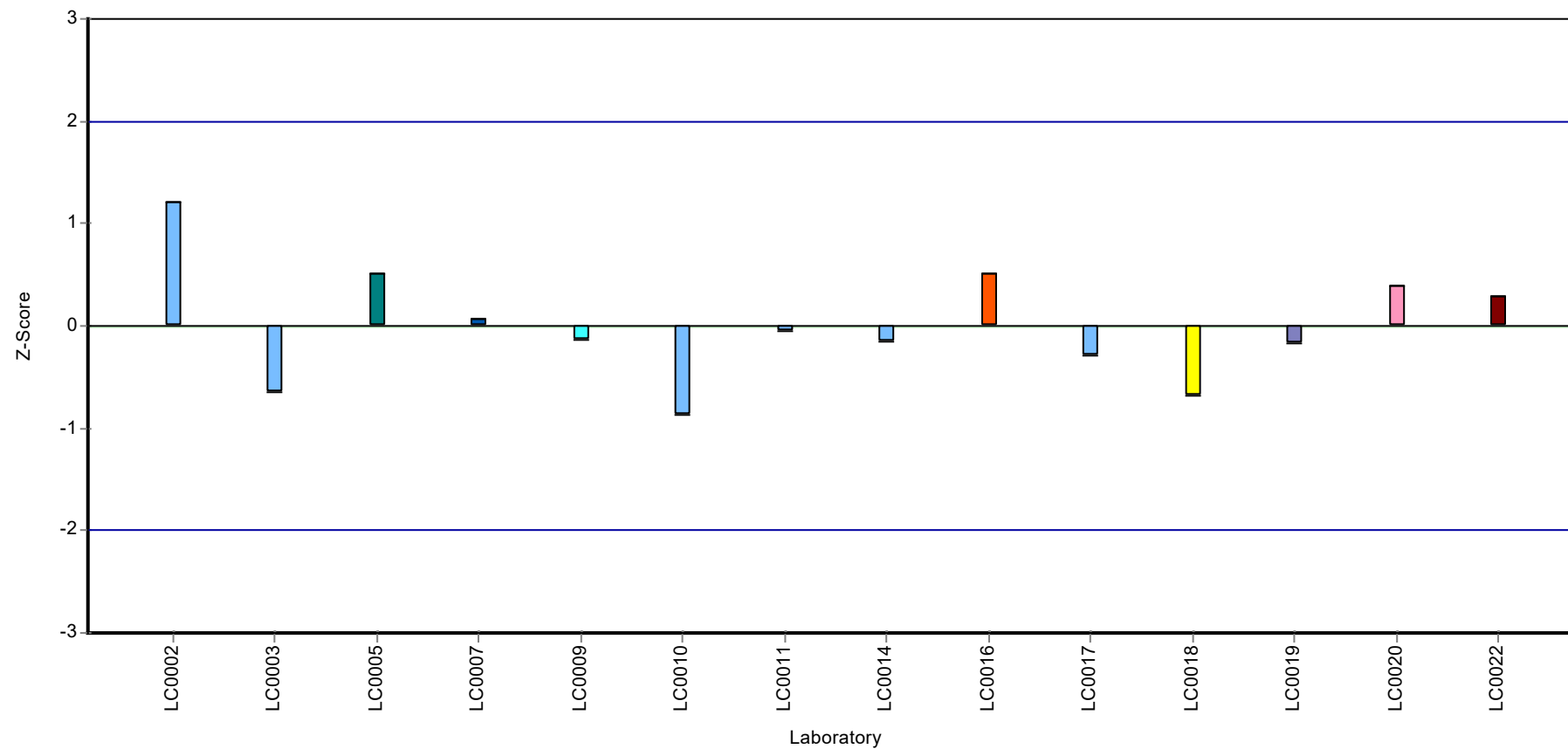
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Octane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: n-Pentane

Parameter oriented report

BL13 - BTEX & C5-C10

n-Pentane

Unit	µg/tube
Assigned value ± U (k=2)	6 ± 0.812
Criterion	1.8 (30 %)
Minimum - Maximum	4.53 - 7.87
Control test value ± U (k=2)	4.16 ± 1.11

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.87	0.71	131	1.04	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	5.99	0.9	99.8	-0.01	
LC0006	-	-	-	-	
LC0007	5.25	0.53	87.4	-0.42	
LC0008	-	-	-	-	
LC0009	5.575	0.191	92.9	-0.24	
LC0010	-	-	-	-	
LC0011	9.53	4.19	159	1.96	H
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	4.53	0.91	75.4	-0.82	
LC0015	-	-	-	-	
LC0016	6.1	0.52	102	0.05	
LC0017	6.714	0.8	112	0.39	
LC0018	-	-	-	-	
LC0019	6.35	1.59	106	0.19	
LC0020	5.68	0.852	94.6	-0.18	
LC0021	-	-	-	-	
LC0022	-	-	-	-	

Characteristics of parameter

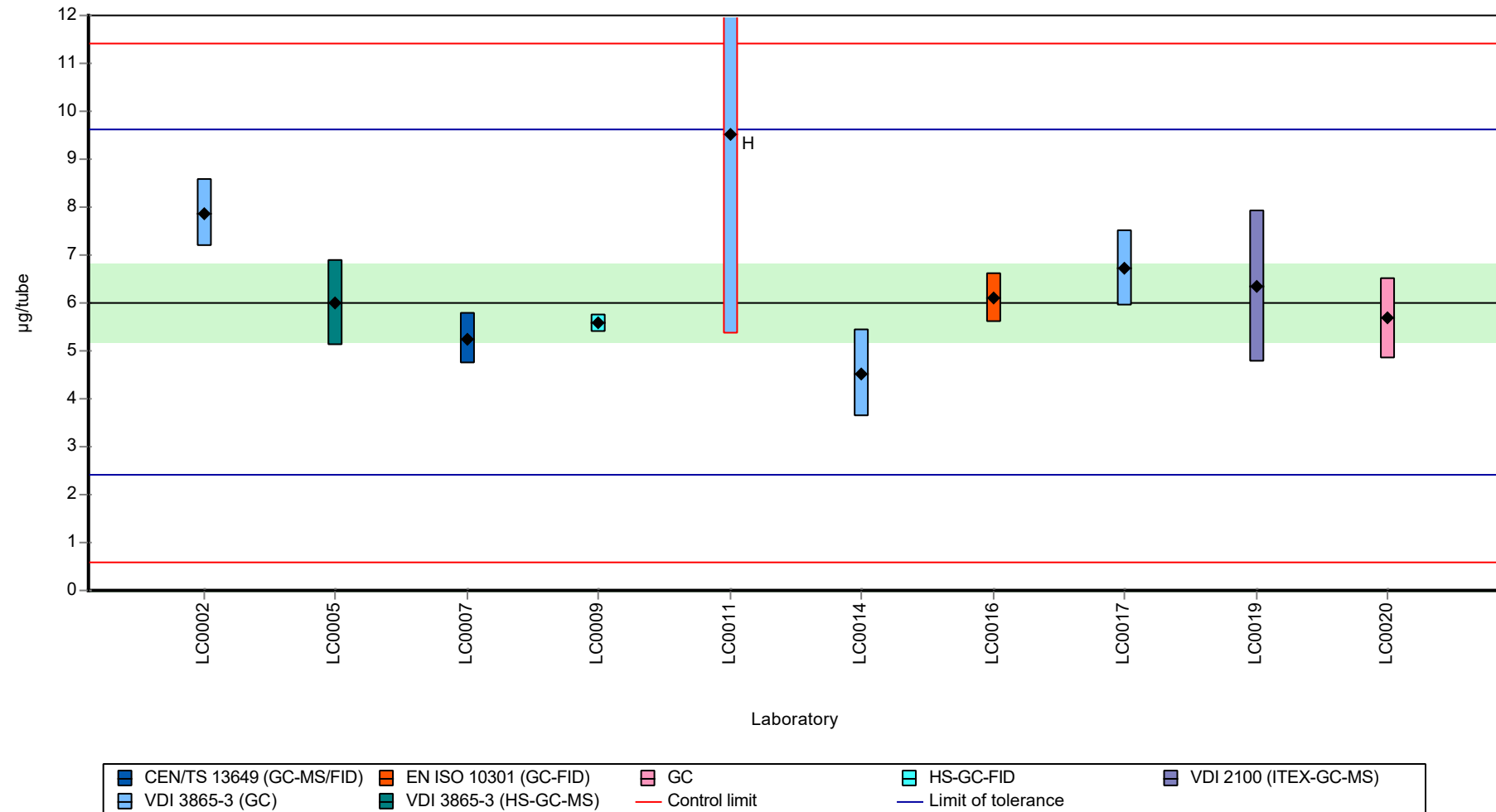
	all results	w ithout outliers	Unit
Mean ± CI (99%)	6.36 ± 1.35	6.01 ± 0.945	µg/tube
Minimum	4.53	4.53	µg/tube
Maximum	9.53	7.87	µg/tube
Standard deviation	1.43	0.945	µg/tube
rel. standard deviation	22.4	15.7	%
n	10	9	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Pentane

Graphical presentation of results

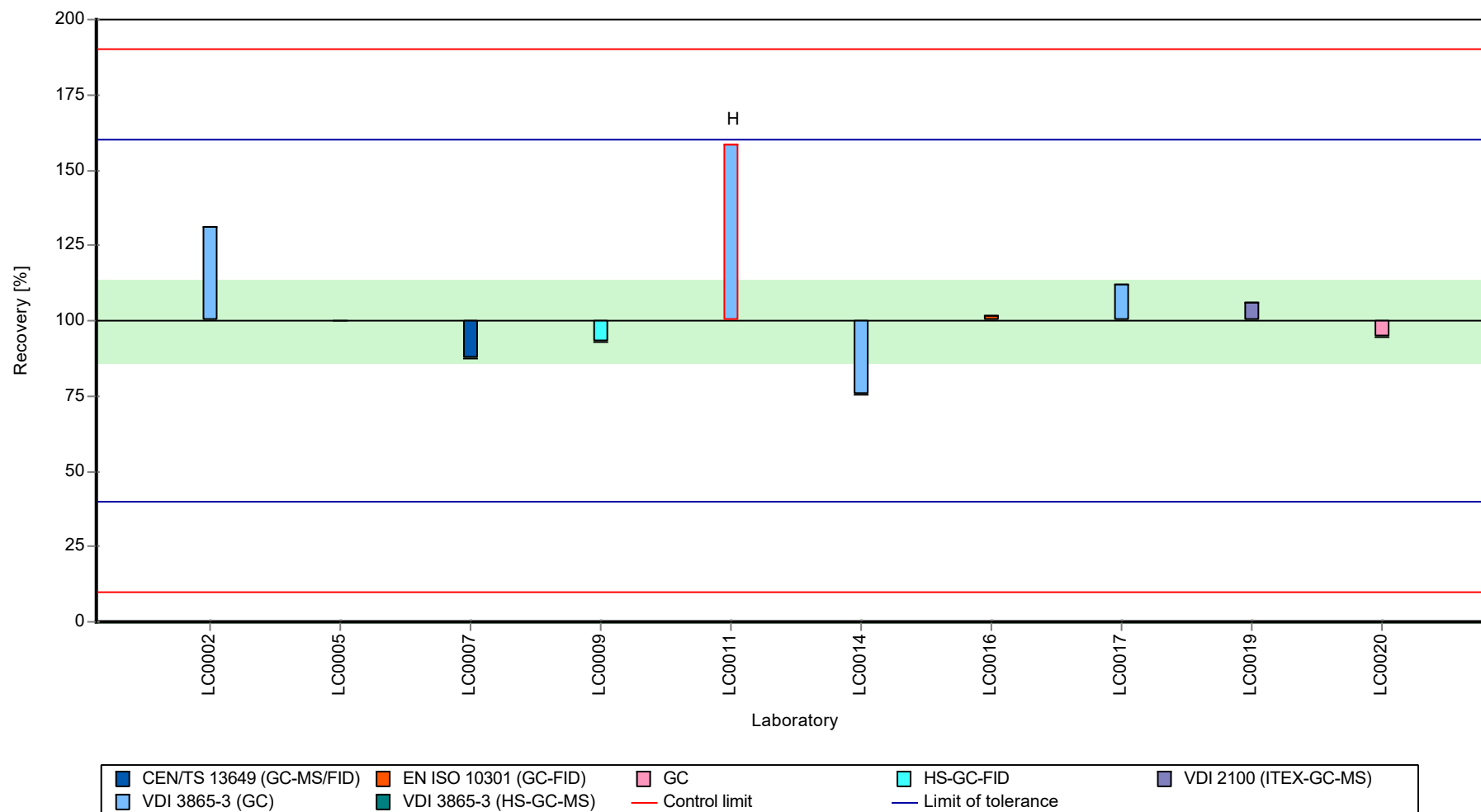
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Pentane

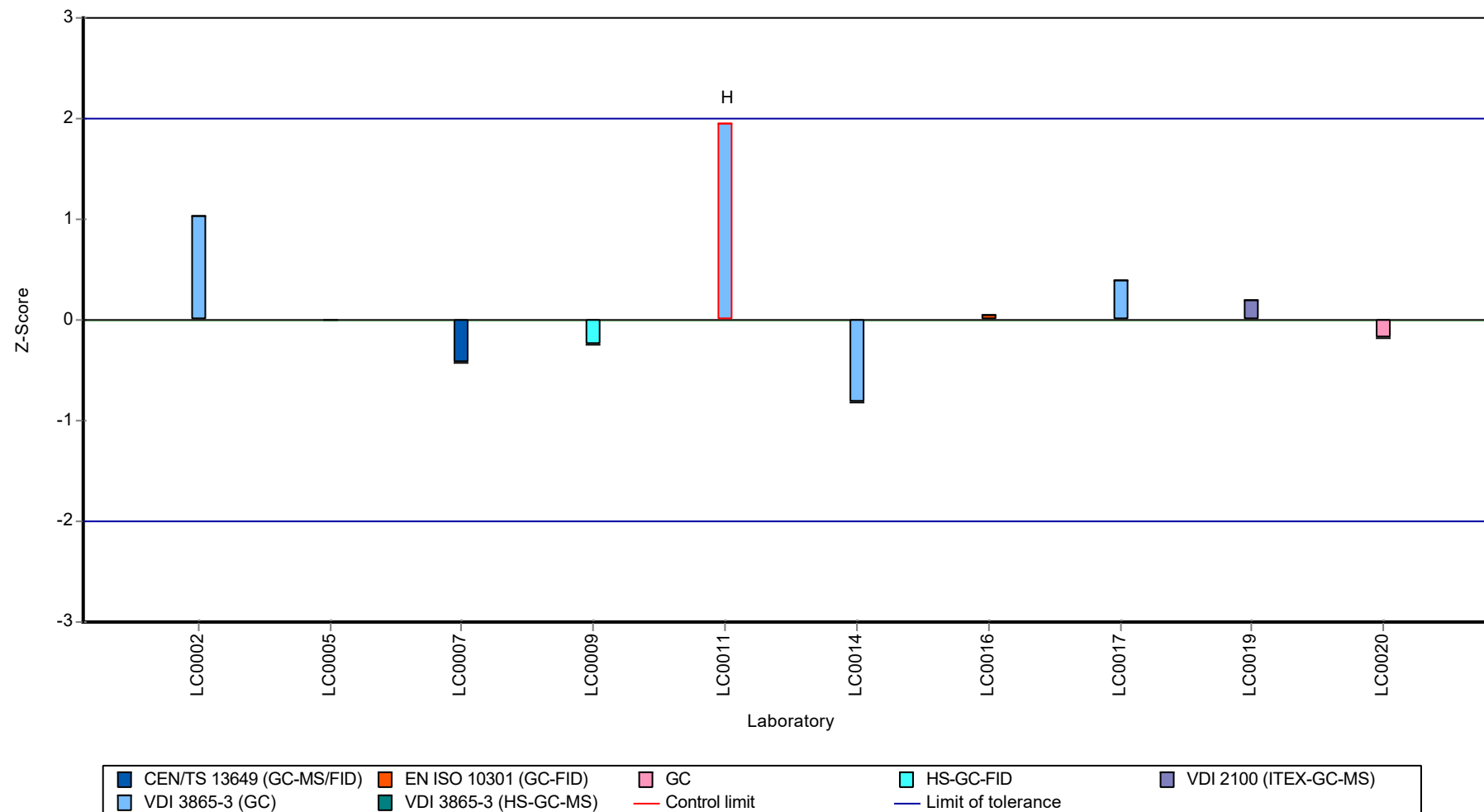
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: n-Pentane

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: o-Xylene

Parameter oriented report

BL13 - BTEX & C5-C10

o-Xylene

Unit	µg/tube
Assigned value ± U (k=2)	3.5 ± 0.218
Criterion	0.63 (18 %)
Minimum - Maximum	2.57 - 4.5
Control test value ± U (k=2)	3.50 ± 0.83

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.31	0.99	94.6	-0.3	
LC0002	3.73	0.42	107	0.37	
LC0003	2.85	0.74	81.4	-1.03	
LC0004	3.877	0.438	111	0.6	
LC0005	3.48	0.35	99.4	-0.03	
LC0006	6.3	3.15	180	4.45	H
LC0007	3.98	0.19	114	0.76	
LC0008	51.8	3.5	1480	76.68	H
LC0009	2.996	0.156	85.6	-0.8	
LC0010	3.39	0.34	96.9	-0.17	
LC0011	4.5	0.9	129	1.59	
LC0012	3.35	0.67	95.7	-0.24	
LC0013	3.319	0.465	94.8	-0.29	
LC0014	3.365	0.67	96.2	-0.21	
LC0015	0.848	0.093	24.2	-4.21	H
LC0016	3.73	0.65	107	0.37	
LC0017	3.919	0.7	112	0.67	
LC0018	3.23	0.65	92.3	-0.43	
LC0019	2.99	0.75	85.4	-0.81	
LC0020	4.01	0.6015	115	0.81	
LC0021	2.5724	0.3129	73.5	-1.47	
LC0022	3.89	0.2	111	0.62	

Characteristics of parameter

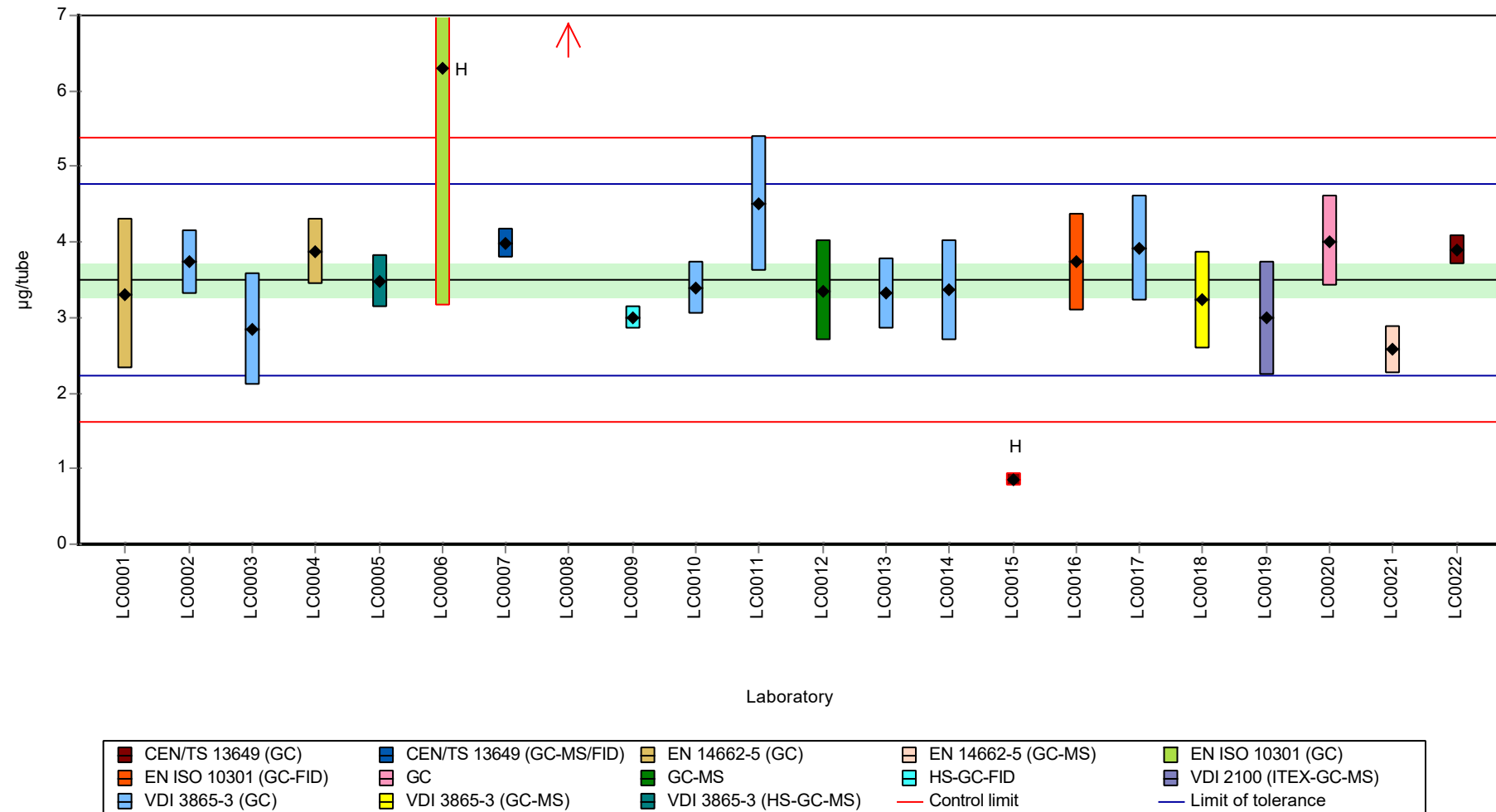
	all results	w ithout outliers	Unit
Mean ± CI (99%)	5.7 ± 6.61	3.5 ± 0.327	µg/tube
Minimum	0.848	2.57	µg/tube
Maximum	51.8	4.5	µg/tube
Standard deviation	10.3	0.475	µg/tube
rel. standard deviation	181	13.6	%
n	22	19	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: o-Xylene

Graphical presentation of results

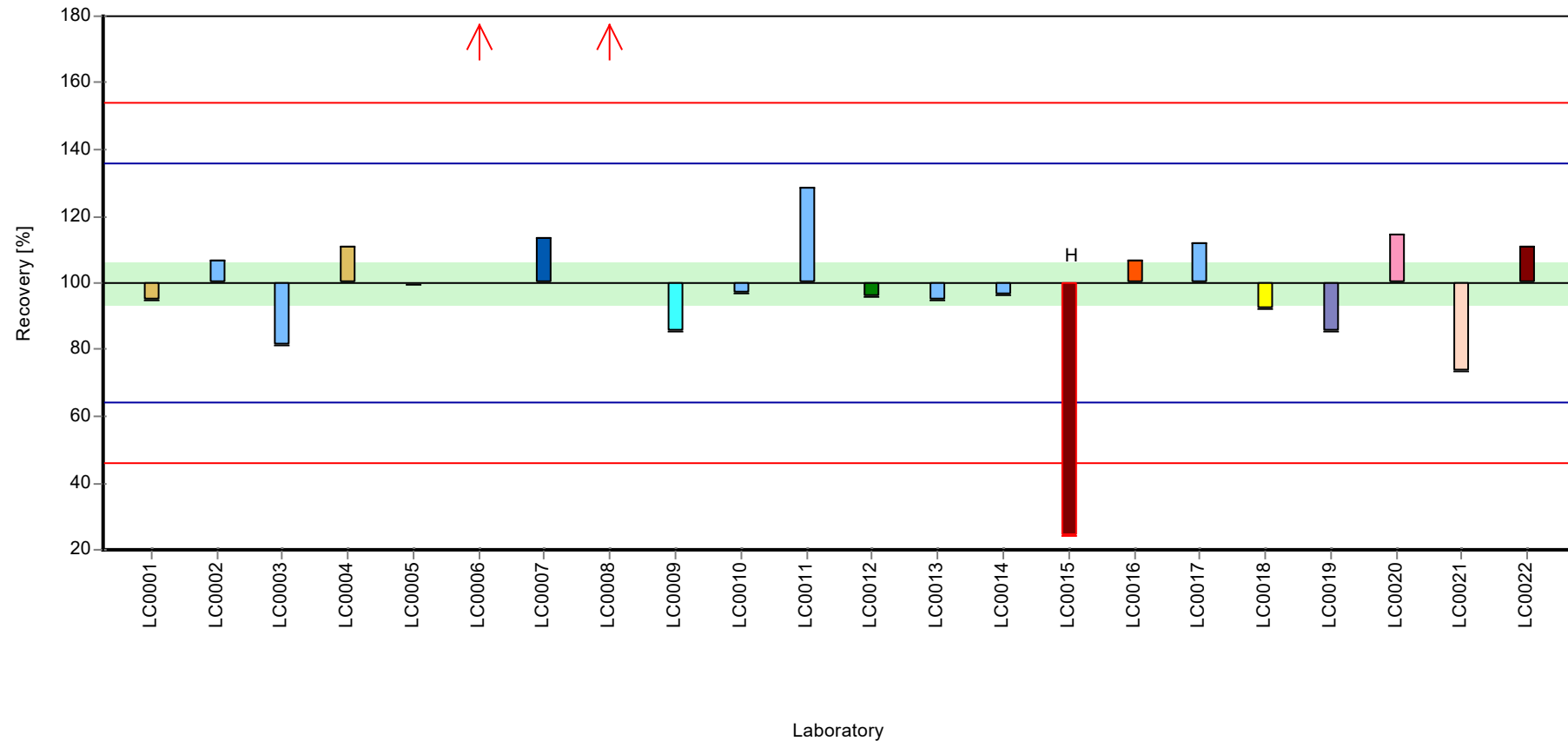
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: o-Xylene

Recovery rate

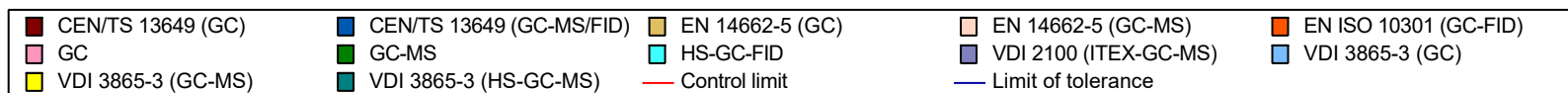
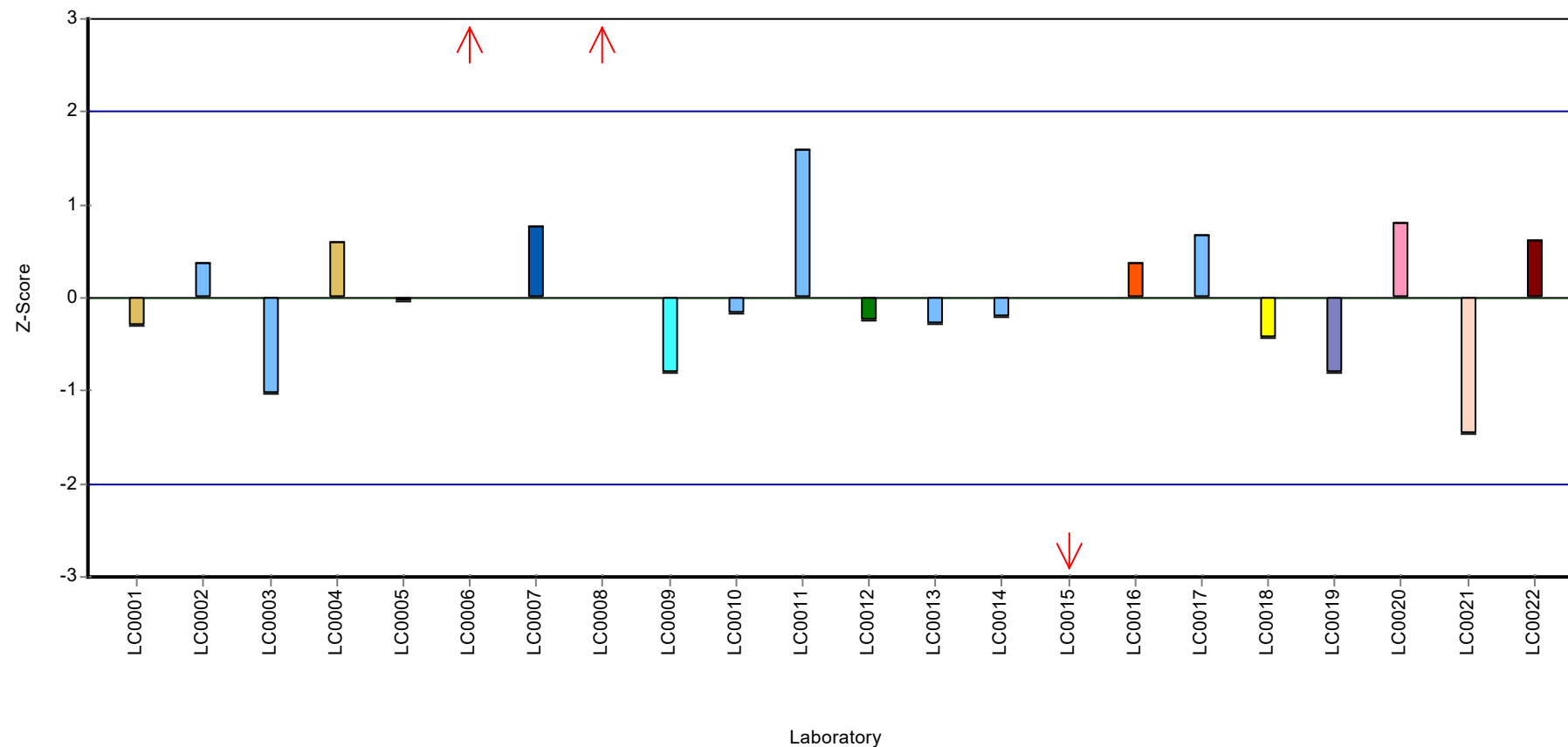


CEN/TS 13649 (GC)	CEN/TS 13649 (GC-MS/FID)	EN 14662-5 (GC)	EN 14662-5 (GC-MS)	EN ISO 10301 (GC-FID)
GC	GC-MS	HS-GC-FID	VDI 2100 (ITEX-GC-MS)	VDI 3865-3 (GC)
VDI 3865-3 (GC-MS)	VDI 3865-3 (HS-GC-MS)	Control limit	Limit of tolerance	

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: o-Xylene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: Sum of m-Xylene and p-Xylene

Parameter oriented report

BL13 - BTEX & C5-C10

Sum of m-Xylene and p-Xylene

Unit	µg/tube
Assigned value ± U (k=2)	7.24 ± 0.498
Criterion	1.38 (19 %)
Minimum - Maximum	4.52 - 9.02
Control test value ± U (k=2)	7.23 ± 1.71

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	6.9	2.07	95.3	-0.25	
LC0002	7.43	0.67	103	0.14	
LC0003	6	1.3	82.9	-0.9	
LC0004	8.005	0.84	111	0.56	
LC0005	7.93	0.79	110	0.5	
LC0006	13.15	7.5	182	4.3	H
LC0007	8.28	0.41	114	0.76	
LC0008	38.4	3	531	22.66	H
LC0009	6.287	0.351	86.9	-0.69	
LC0010	6.73	0.67	93	-0.37	
LC0011	8.02	1.6	111	0.57	
LC0012	6.55	1.3	90.5	-0.5	
LC0013	7.343	1.028	101	0.08	
LC0014	6.866	1.37	94.9	-0.27	
LC0015	1.782	0.205	24.6	-3.97	H
LC0016	8.57	1.69	118	0.97	
LC0017	7.119	1.9	98.4	-0.09	
LC0018	7.48	1.5	103	0.18	
LC0019	6.1	1.52	84.3	-0.83	
LC0020	9.0175	1.3526	125	1.29	
LC0021	4.5152	0.5219	62.4	-1.98	
LC0022	8.36	0.4	116	0.82	

Characteristics of parameter

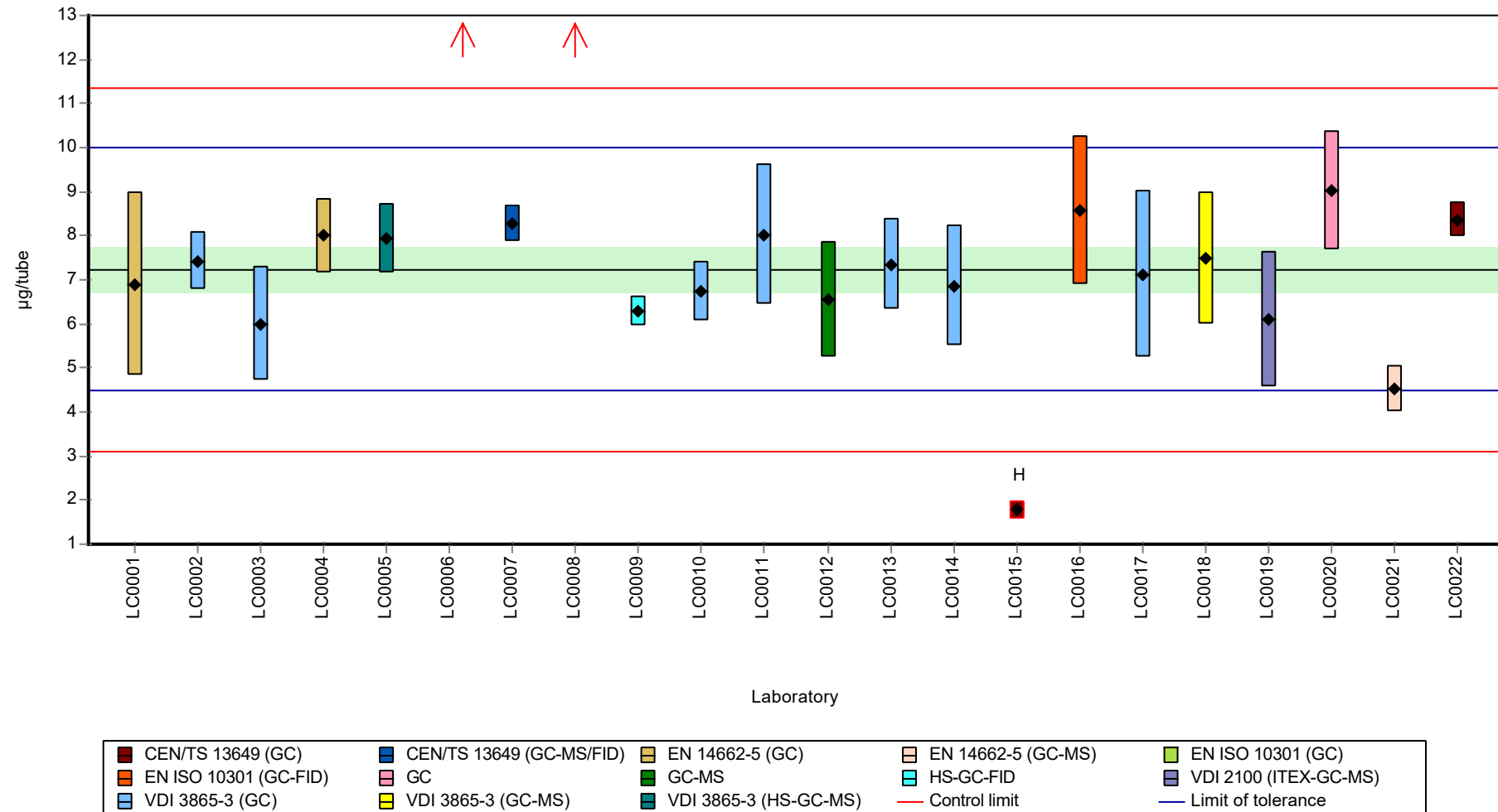
	all results	without outliers	Unit
Mean ± CI (99%)	8.67 ± 4.44	7.24 ± 0.747	µg/tube
Minimum	1.78	4.52	µg/tube
Maximum	38.4	9.02	µg/tube
Standard deviation	6.94	1.09	µg/tube
rel. standard deviation	80	15	%
n	22	19	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Sum of m-Xylene and p-Xylene

Graphical presentation of results

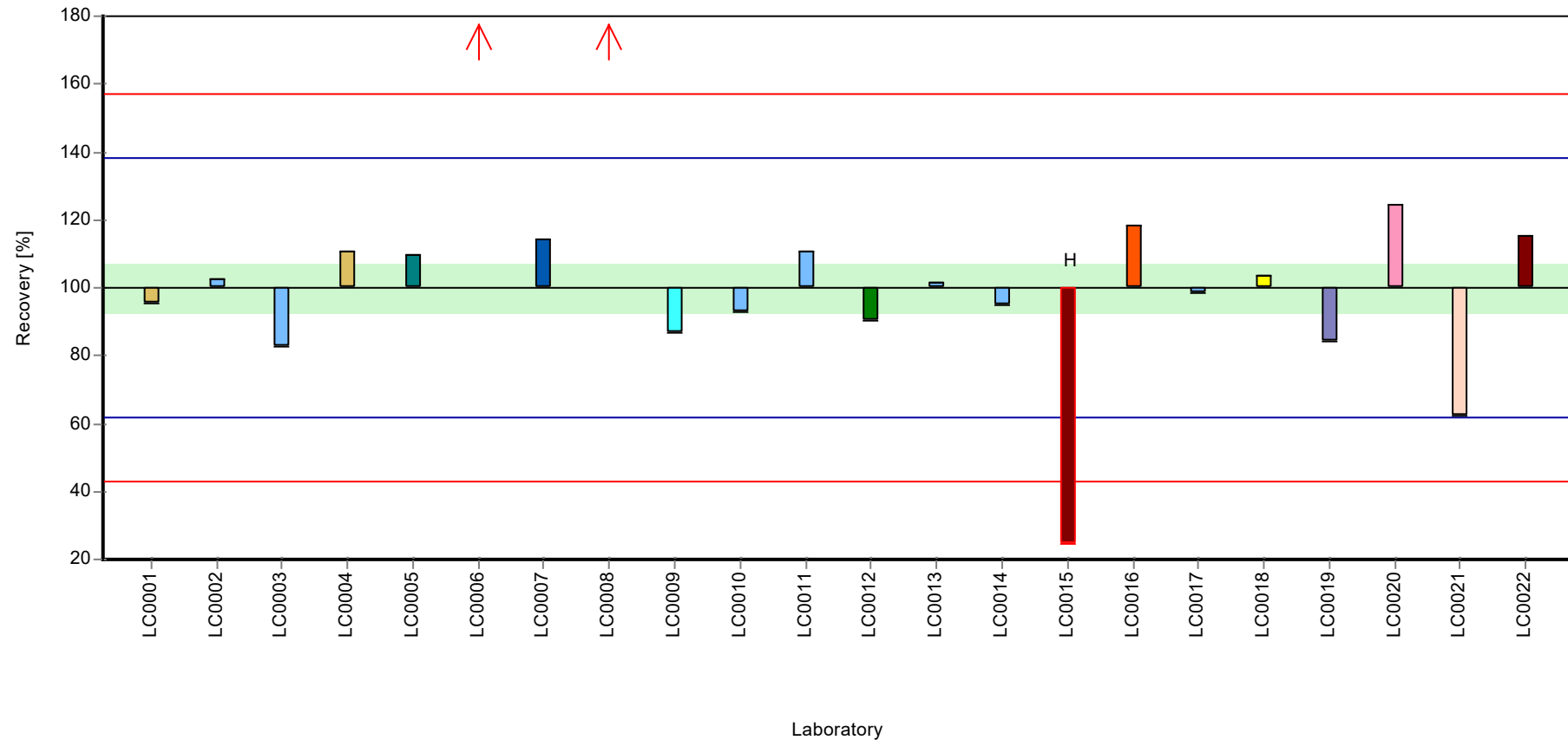
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Sum of m-Xylene and p-Xylene

Recovery rate

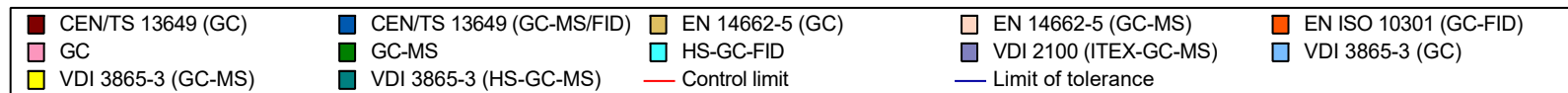
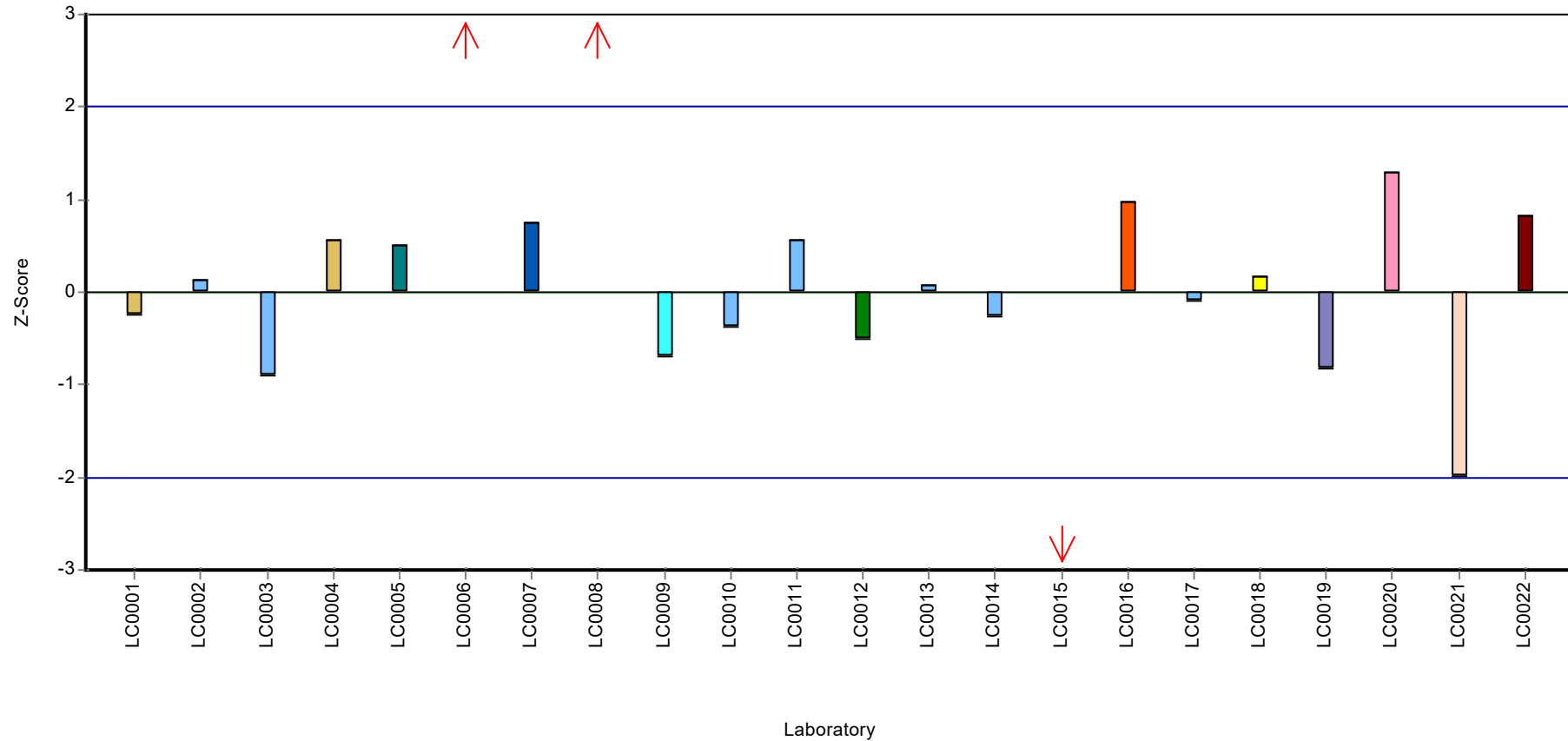


CEN/TS 13649 (GC)	CEN/TS 13649 (GC-MS/FID)	EN 14662-5 (GC)	EN 14662-5 (GC-MS)	EN ISO 10301 (GC-FID)
GC	GC-MS	HS-GC-FID	VDI 2100 (ITEX-GC-MS)	VDI 3865-3 (GC)
VDI 3865-3 (GC-MS)	VDI 3865-3 (HS-GC-MS)	Control limit	Limit of tolerance	

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Sum of m-Xylene and p-Xylene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: Tetrachloroethene

Parameter oriented report

CL12 - CHC

Tetrachloroethene

Unit	µg/tube
Assigned value ± U (k=2)	3.66 ± 0.543
Criterion	1.06 (29 %)
Minimum - Maximum	1.97 - 5.2
Control test value ± U (k=2)	3.55 ± 1.04

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	2.25	0.2	61.5	-1.33	
LC0003	4.17	0.92	114	0.48	
LC0005	5.16	1.29	141	1.42	
LC0006	5.2	2.6	142	1.46	
LC0008	30.4	1.9	832	25.23	H
LC0009	2.33	0.181	63.7	-1.25	
LC0010	2.94	0.38	80.4	-0.68	
LC0011	4.53	1.09	124	0.82	
LC0012	3.15	0.8	86.2	-0.48	
LC0013	1.967	0.138	53.8	-1.59	
LC0014	3.699	0.74	101	0.04	
LC0016	3.02	0.69	82.6	-0.6	
LC0017	4.262	0.9	117	0.57	
LC0018	4.36	0.87	119	0.66	
LC0019	3.17	0.79	86.7	-0.46	
LC0023	4.63	0.93	127	0.92	

Characteristics of parameter

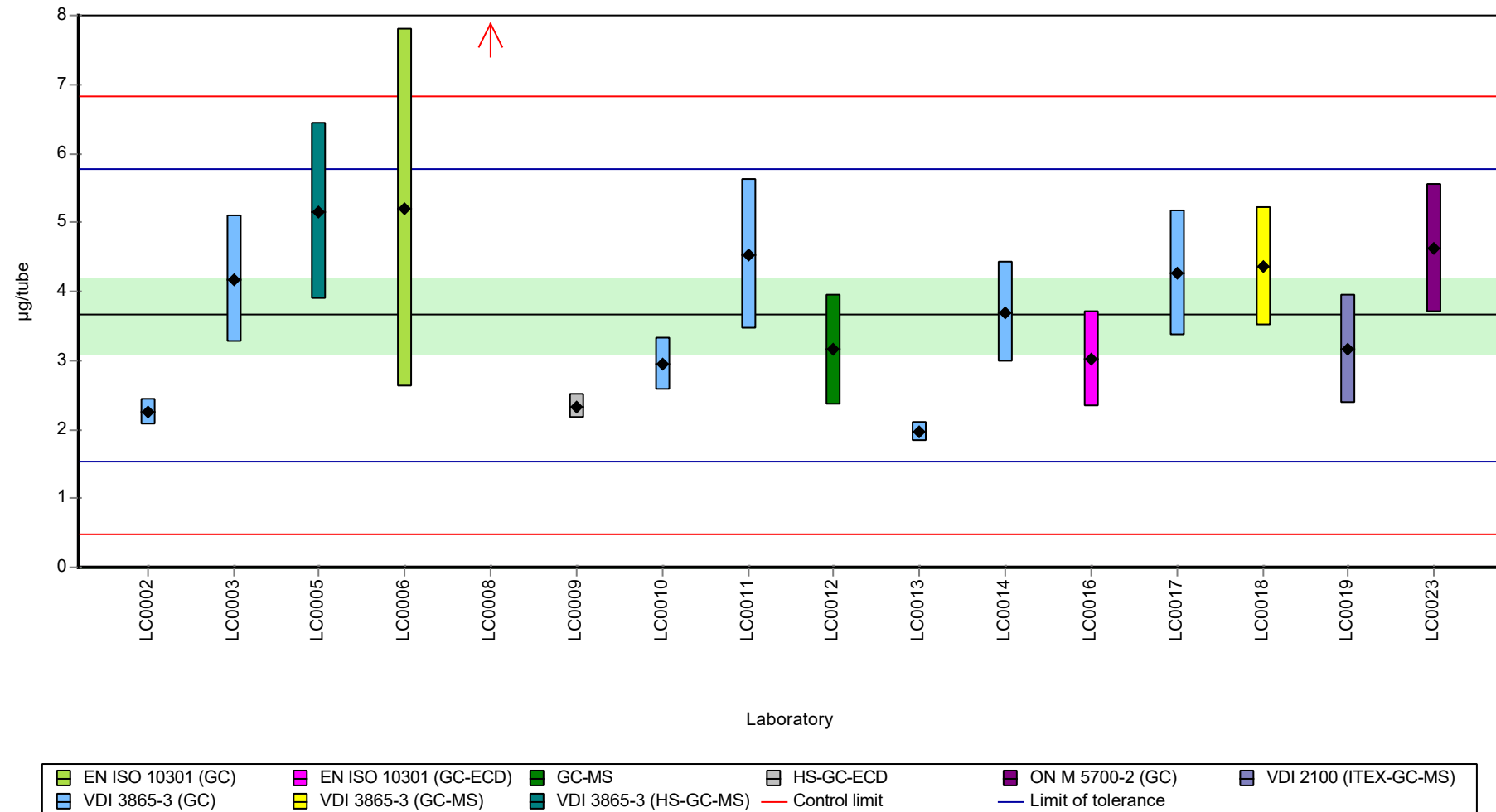
	all results	without outliers	Unit
Mean ± CI (99%)	5.33 ± 5.07	3.66 ± 0.815	µg/tube
Minimum	1.97	1.97	µg/tube
Maximum	30.4	5.2	µg/tube
Standard deviation	6.76	1.05	µg/tube
rel. standard deviation	127	28.8	%
n	16	15	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloroethene

Graphical presentation of results

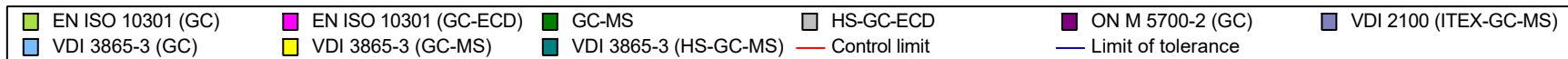
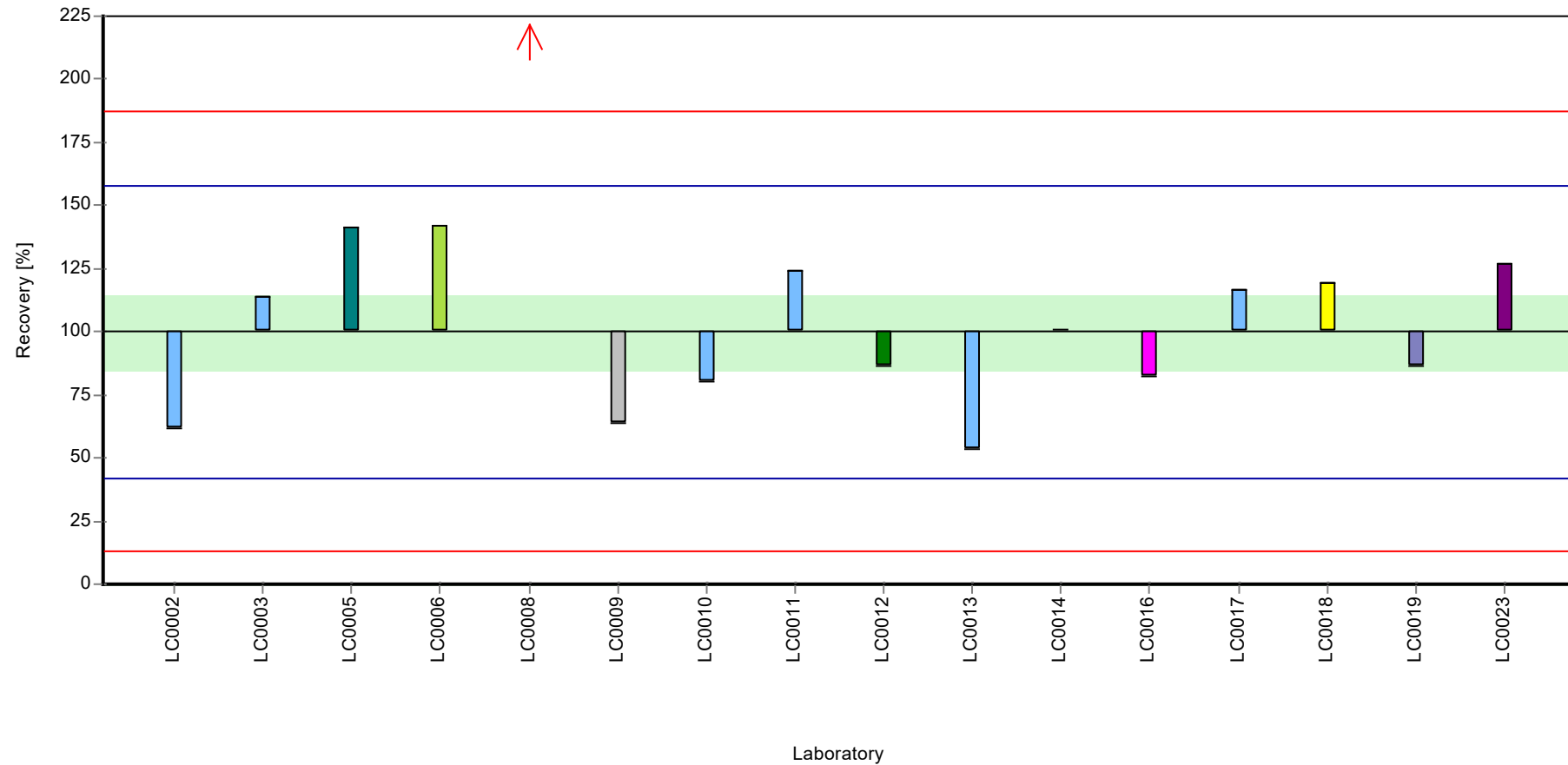
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloroethene

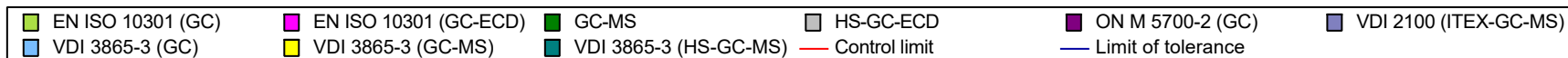
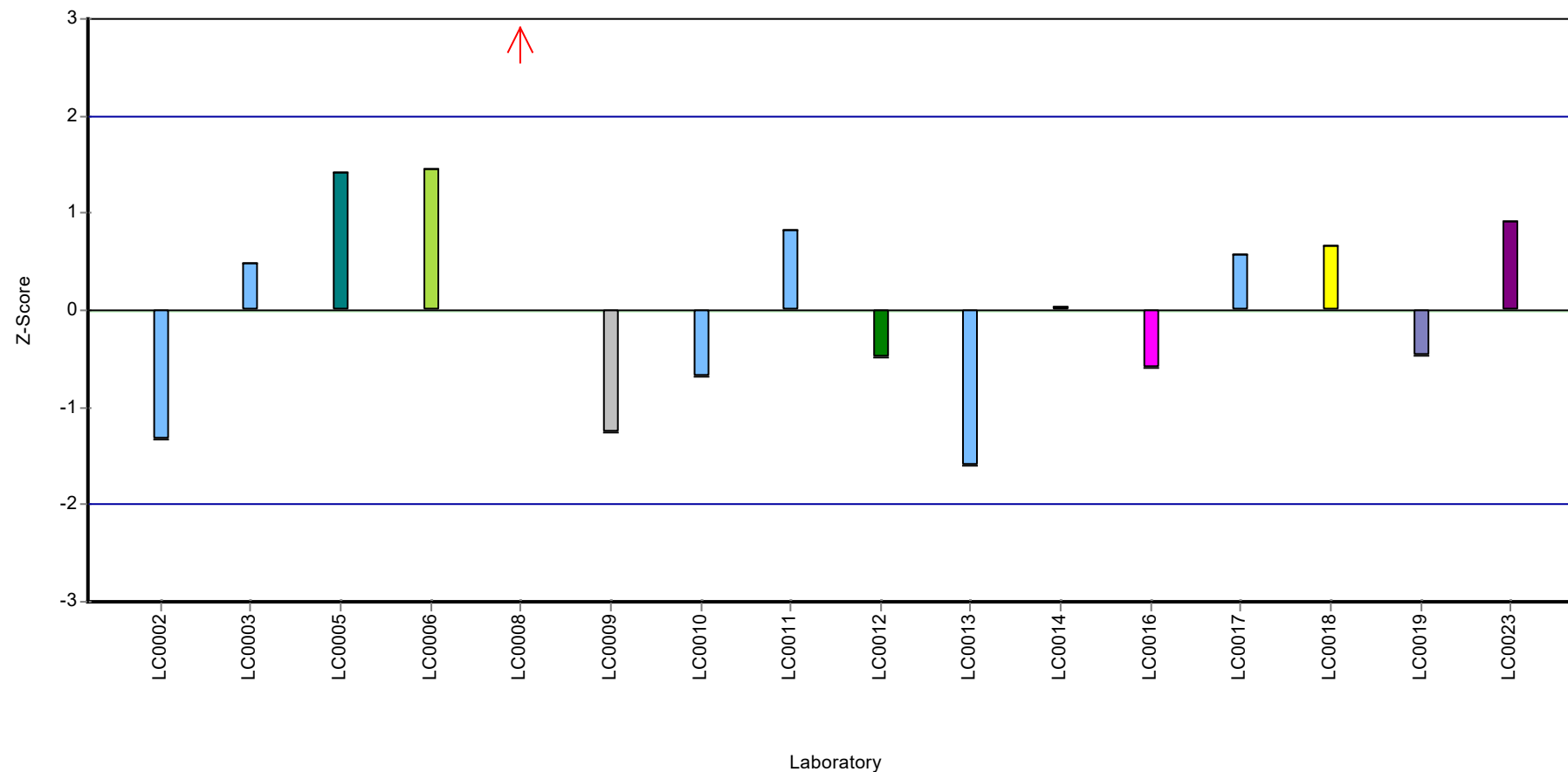
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloroethene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: Tetrachloromethane

Parameter oriented report

CL12 - CHC

Tetrachloromethane

Unit	µg/tube
Assigned value ± U (k=2)	6.32 ± 0.385
Criterion	0.948 (15 %)
Minimum - Maximum	5.23 - 7.76
Control test value ± U (k=2)	5.77 ± 1.69

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	7.07	0.64	112	0.79	
LC0003	6.23	1.2	98.6	-0.09	
LC0005	6.84	1.03	108	0.55	
LC0006	6.54	3.25	104	0.23	
LC0008	79.7	6	1260	77.44	H
LC0009	7.764	0.626	123	1.53	
LC0010	5.56	0.56	88	-0.8	
LC0011	6.81	1.63	108	0.52	
LC0012	5.9	1.5	93.4	-0.44	
LC0013	5.807	0.406	91.9	-0.54	
LC0014	5.768	1.15	91.3	-0.58	
LC0016	5.23	1.2	82.8	-1.15	
LC0017	11.54	2.2	183	5.51	H
LC0018	-	-	-	-	
LC0019	6.14	1.53	97.2	-0.19	
LC0023	6.47	1.29	102	0.16	

Characteristics of parameter

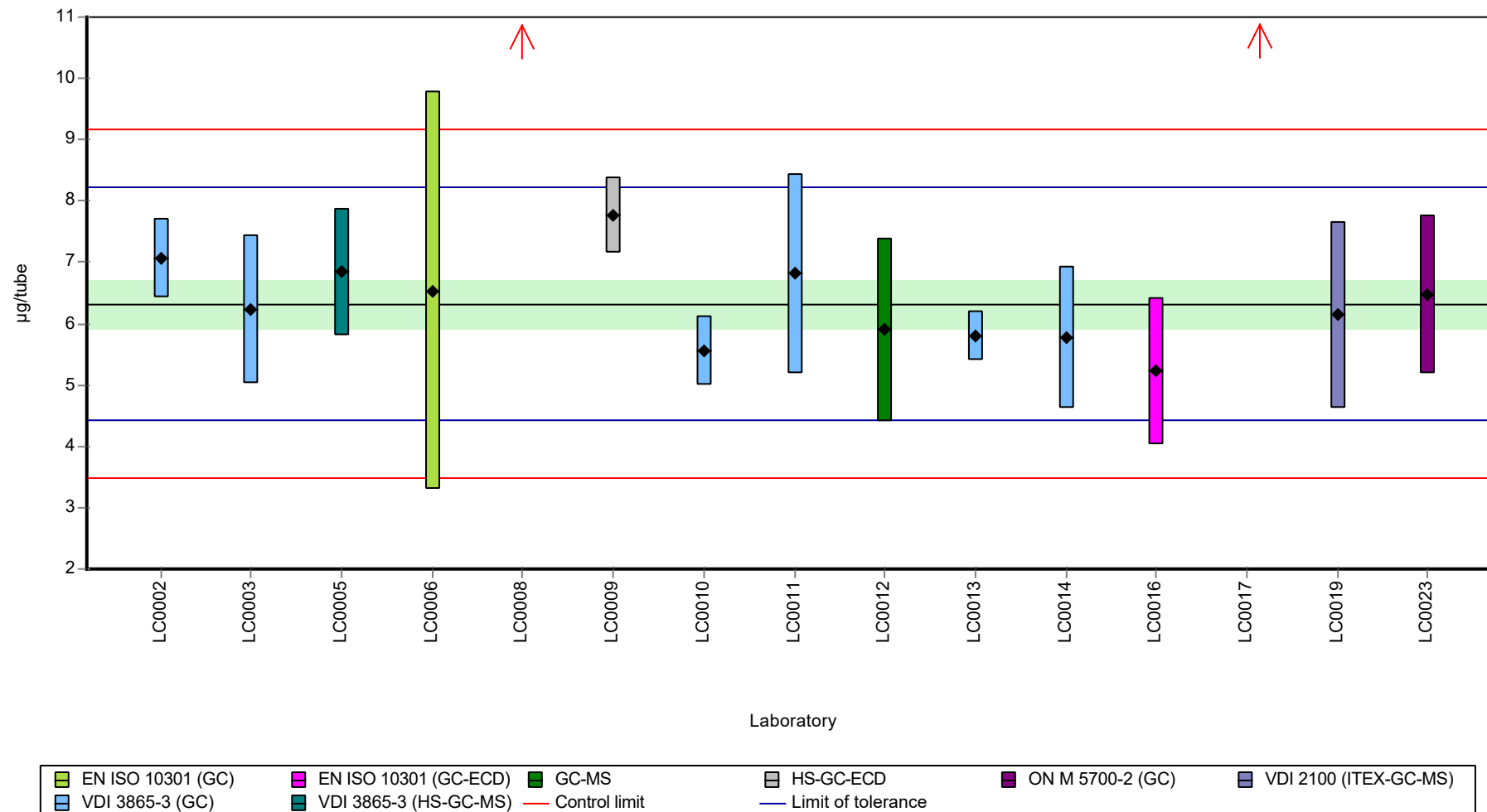
	all results	without outliers	Unit
Mean ± CI (99%)	11.6 ± 14.6	6.32 ± 0.577	µg/tube
Minimum	5.23	5.23	µg/tube
Maximum	79.7	7.76	µg/tube
Standard deviation	18.9	0.694	µg/tube
rel. standard deviation	164	11	%
n	15	13	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloromethane

Graphical presentation of results

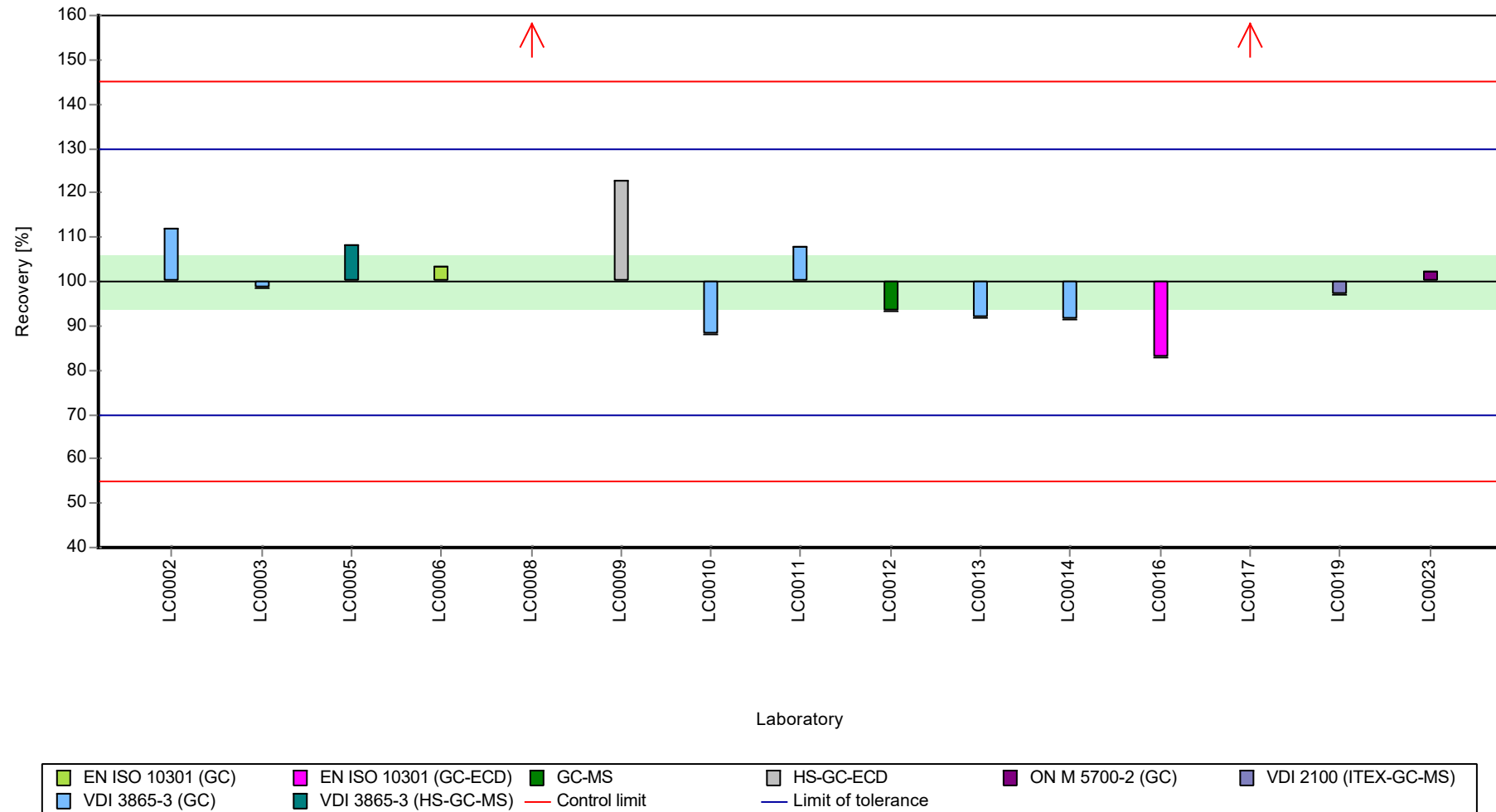
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloromethane

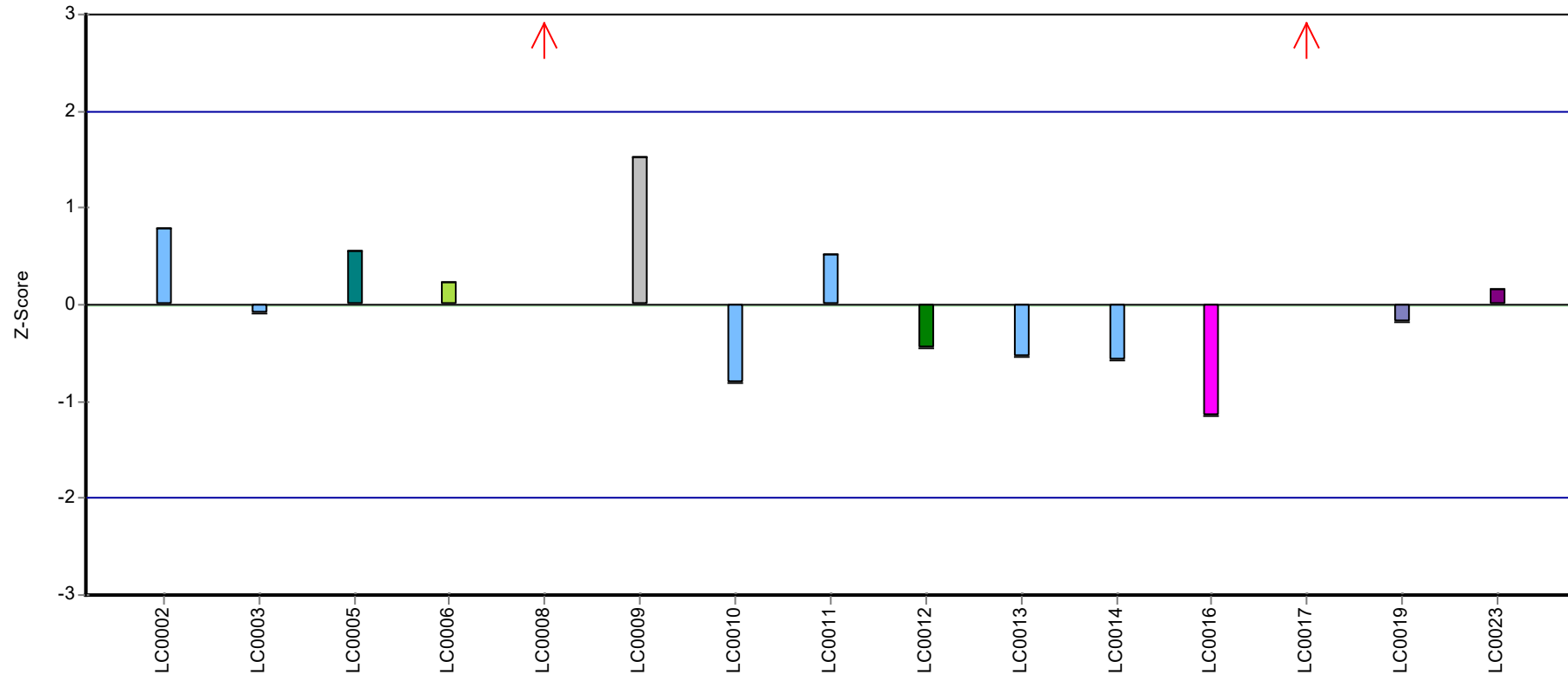
Recovery rate



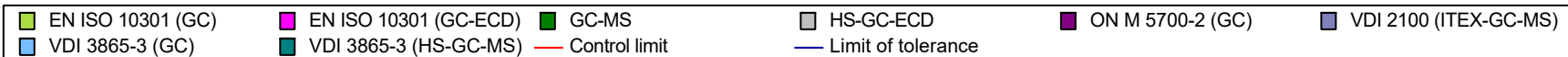
Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Tetrachloromethane

Z-score



Laboratory



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: BL13, Parameter: Toluene

Parameter oriented report

BL13 - BTEX & C5-C10

Toluene

Unit	µg/tube
Assigned value ± U (k=2)	4.48 ± 0.261
Criterion	0.672 (15 %)
Minimum - Maximum	3.28 - 5.45
Control test value ± U (k=2)	4.61 ± 1.09

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.41	1.32	98.5	-0.1	
LC0002	5.06	0.46	113	0.87	
LC0003	3.77	0.9	84.2	-1.05	
LC0004	4.783	0.454	107	0.45	
LC0005	5.2	0.26	116	1.07	
LC0006	0.6	0.3	13.4	-5.77	H
LC0007	4.35	0.37	97.1	-0.19	
LC0008	40.8	3.5	911	54.07	H
LC0009	3.918	0.222	87.5	-0.83	
LC0010	4.19	0.63	93.6	-0.43	
LC0011	5.17	1.19	115	1.03	
LC0012	4.05	0.81	90.4	-0.64	
LC0013	5.003	0.7	112	0.78	
LC0014	4.472	0.89	99.9	-0.01	
LC0015	0.971	0.085	21.7	-5.22	H
LC0016	5.45	1.07	122	1.45	
LC0017	4.759	0.7	106	0.42	
LC0018	4.03	0.81	90	-0.67	
LC0019	3.94	0.98	88	-0.8	
LC0020	4.69	0.7035	105	0.32	
LC0021	3.2784	0.3097	73.2	-1.79	
LC0022	4.56	0.25	102	0.12	

Characteristics of parameter

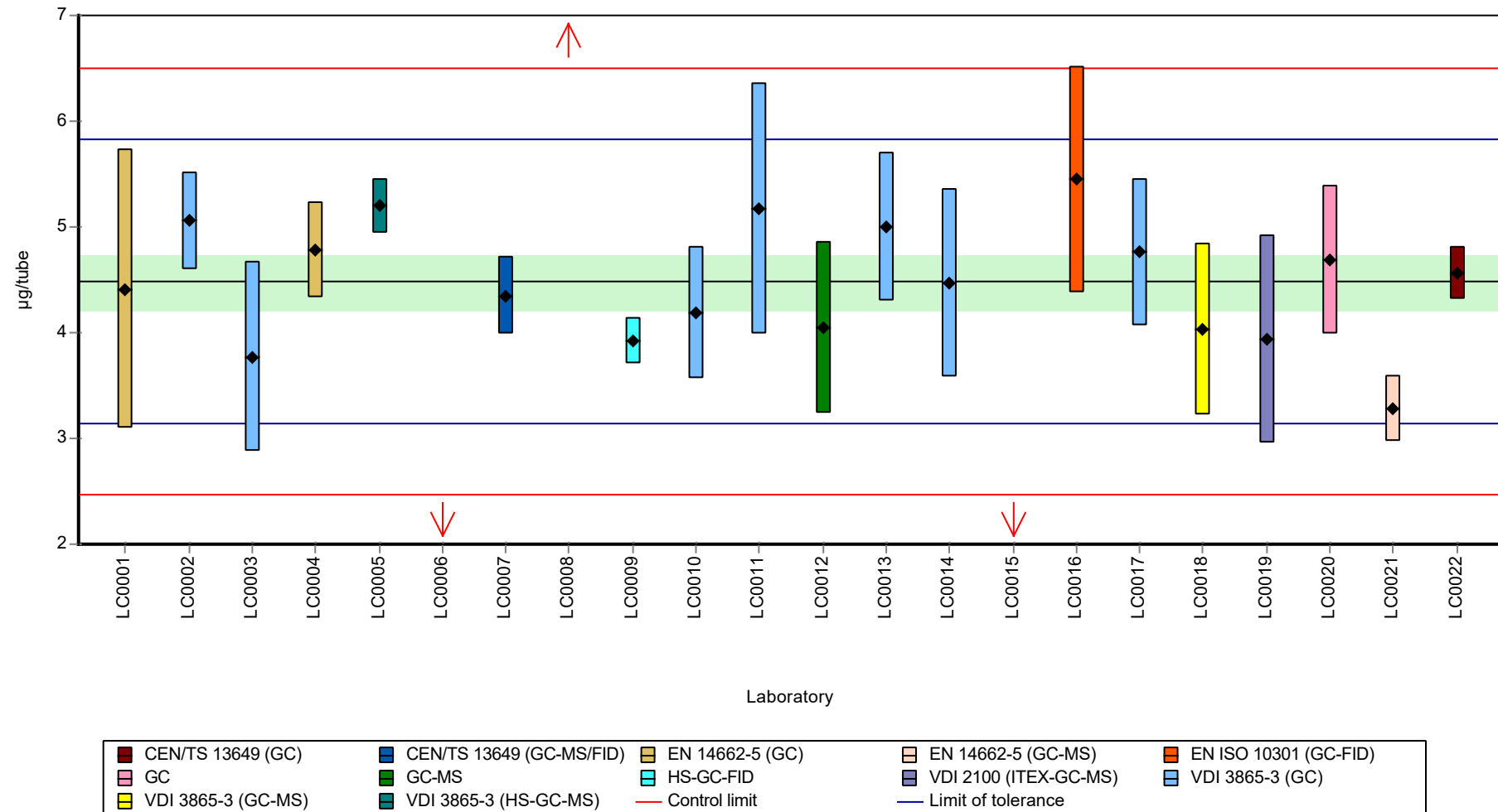
	all results	without outliers	Unit
Mean ± CI (99%)	5.79 ± 5.06	4.48 ± 0.391	µg/tube
Minimum	0.6	3.28	µg/tube
Maximum	40.8	5.45	µg/tube
Standard deviation	7.91	0.568	µg/tube
rel. standard deviation	137	12.7	%
n	22	19	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Toluene

Graphical presentation of results

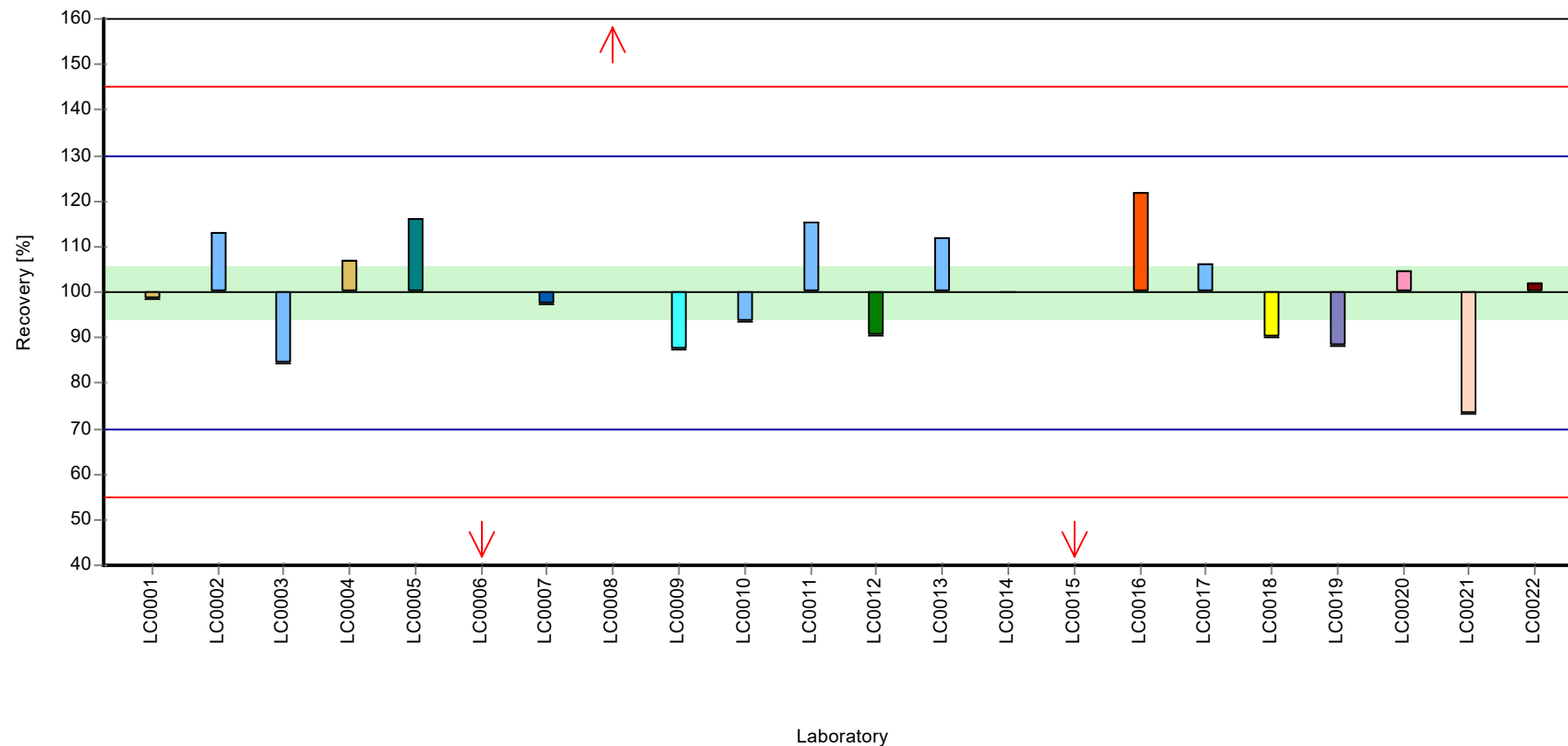
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Toluene

Recovery rate

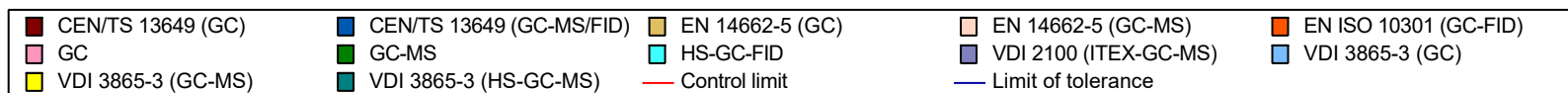
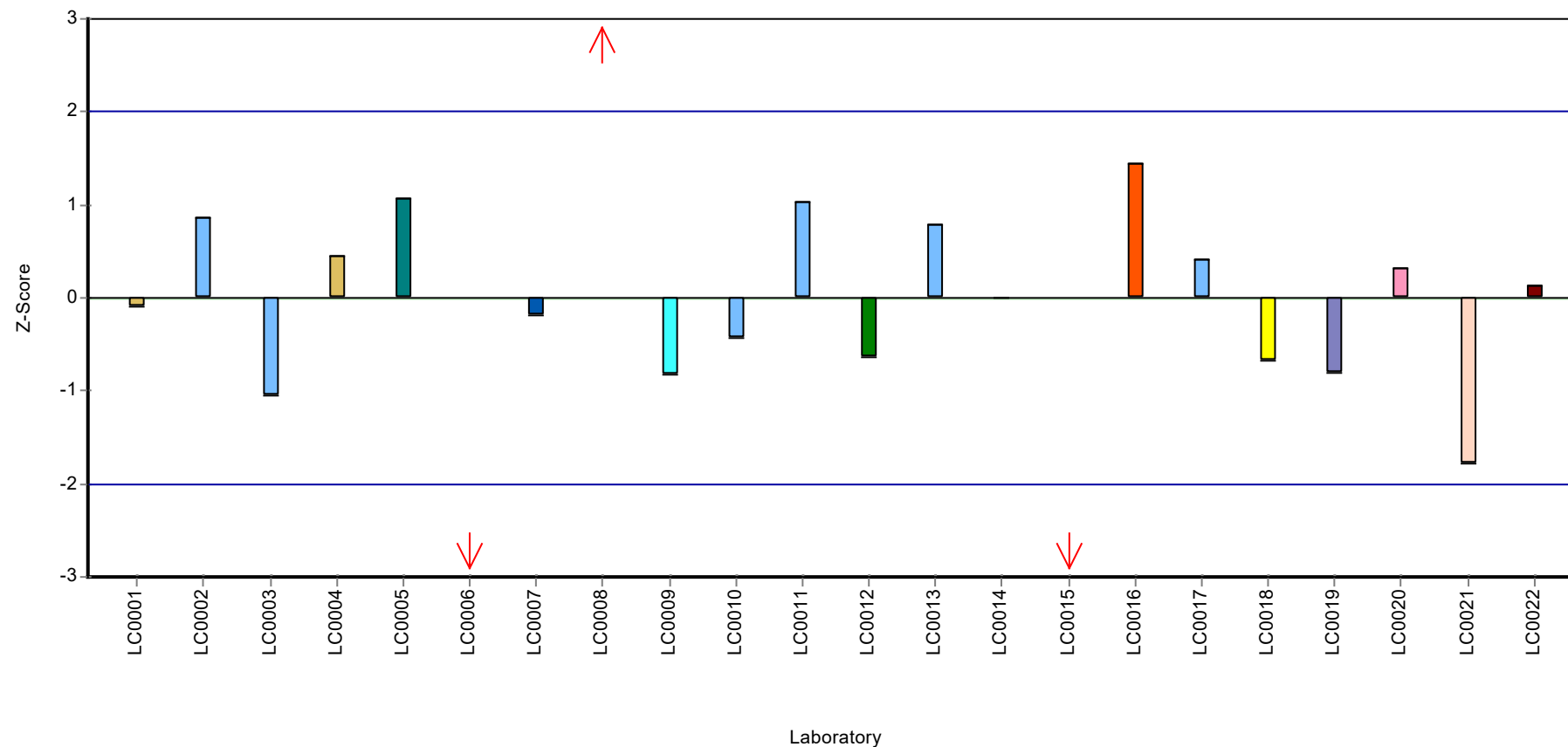


CEN/TS 13649 (GC)	CEN/TS 13649 (GC-MS/FID)	EN 14662-5 (GC)	EN 14662-5 (GC-MS)	EN ISO 10301 (GC-FID)
GC	GC-MS	HS-GC-FID	VDI 2100 (ITEX-GC-MS)	VDI 3865-3 (GC)
VDI 3865-3 (GC-MS)	VDI 3865-3 (HS-GC-MS)	Control limit	Limit of tolerance	

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: BL13, Parameter: Toluene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: trans-1,2-Dichloroethene

Parameter oriented report

CL12 - CHC

trans-1,2-Dichloroethene

Unit	µg/tube
Assigned value ± U (k=2)	4.14 ± 0.203
Criterion	0.621 (15 %)
Minimum - Maximum	3.41 - 4.48
Control test value ± U (k=2)	3.99 ± 1.17

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	4.48	0.4	108	0.55	
LC0003	4.35	0.83	105	0.34	
LC0005	3.98	0.8	96.2	-0.25	
LC0006	1.58	0.78	38.2	-4.12	H
LC0008	84.2	6.9	2040	129.03	H
LC0009	1.609	0.095	38.9	-4.07	H
LC0010	3.95	0.4	95.5	-0.3	
LC0011	4.46	0.89	108	0.52	
LC0012	4.3	1.1	104	0.26	
LC0013	3.739	0.262	90.4	-0.64	
LC0014	3.405	0.68	82.3	-1.18	
LC0016	2.15	0.49	52	-3.2	H
LC0017	4.411	0.9	107	0.44	
LC0018	4.25	0.9	103	0.18	
LC0019	4.18	1.04	101	0.07	
LC0023	5.69	1.14	138	2.5	H

Characteristics of parameter

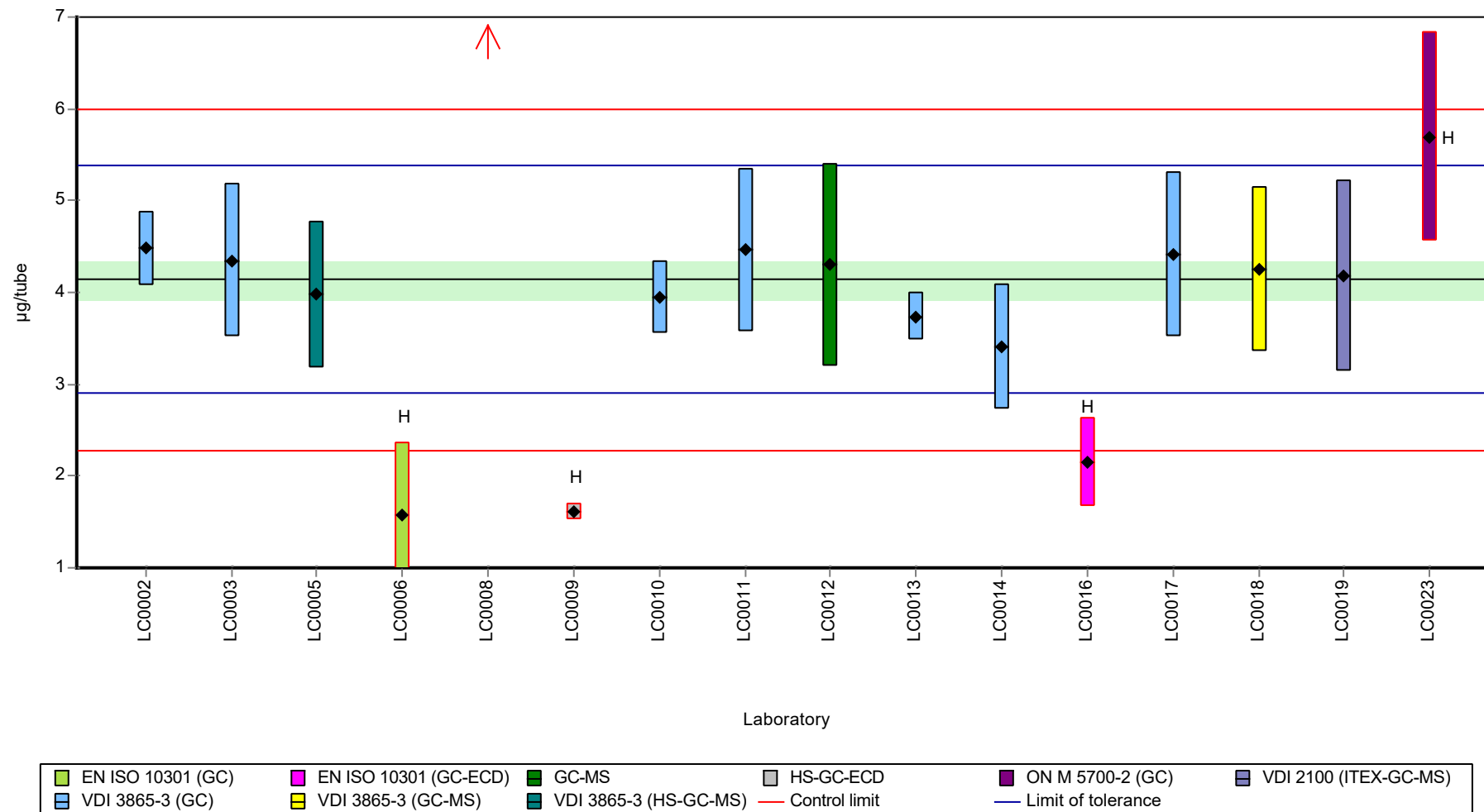
	all results	without outliers	Unit
Mean ± CI (99%)	8.8 ± 15.1	4.14 ± 0.305	µg/tube
Minimum	1.58	3.41	µg/tube
Maximum	84.2	4.48	µg/tube
Standard deviation	20.1	0.337	µg/tube
rel. standard deviation	229	8.15	%
n	16	11	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: trans-1,2-Dichloroethene

Graphical presentation of results

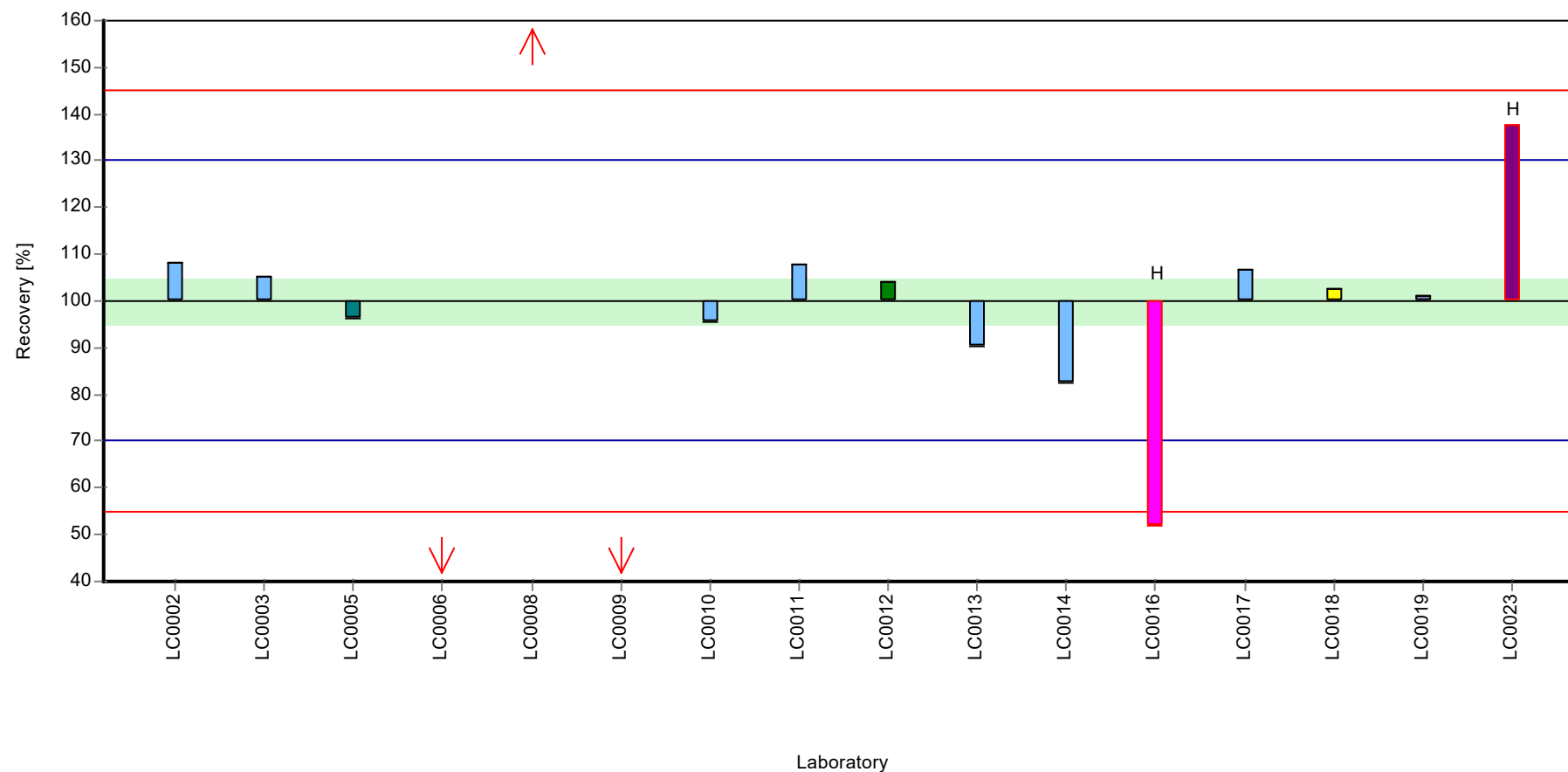
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: trans-1,2-Dichloroethene

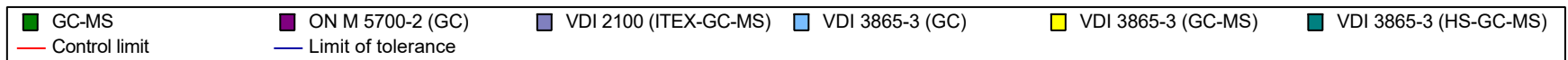
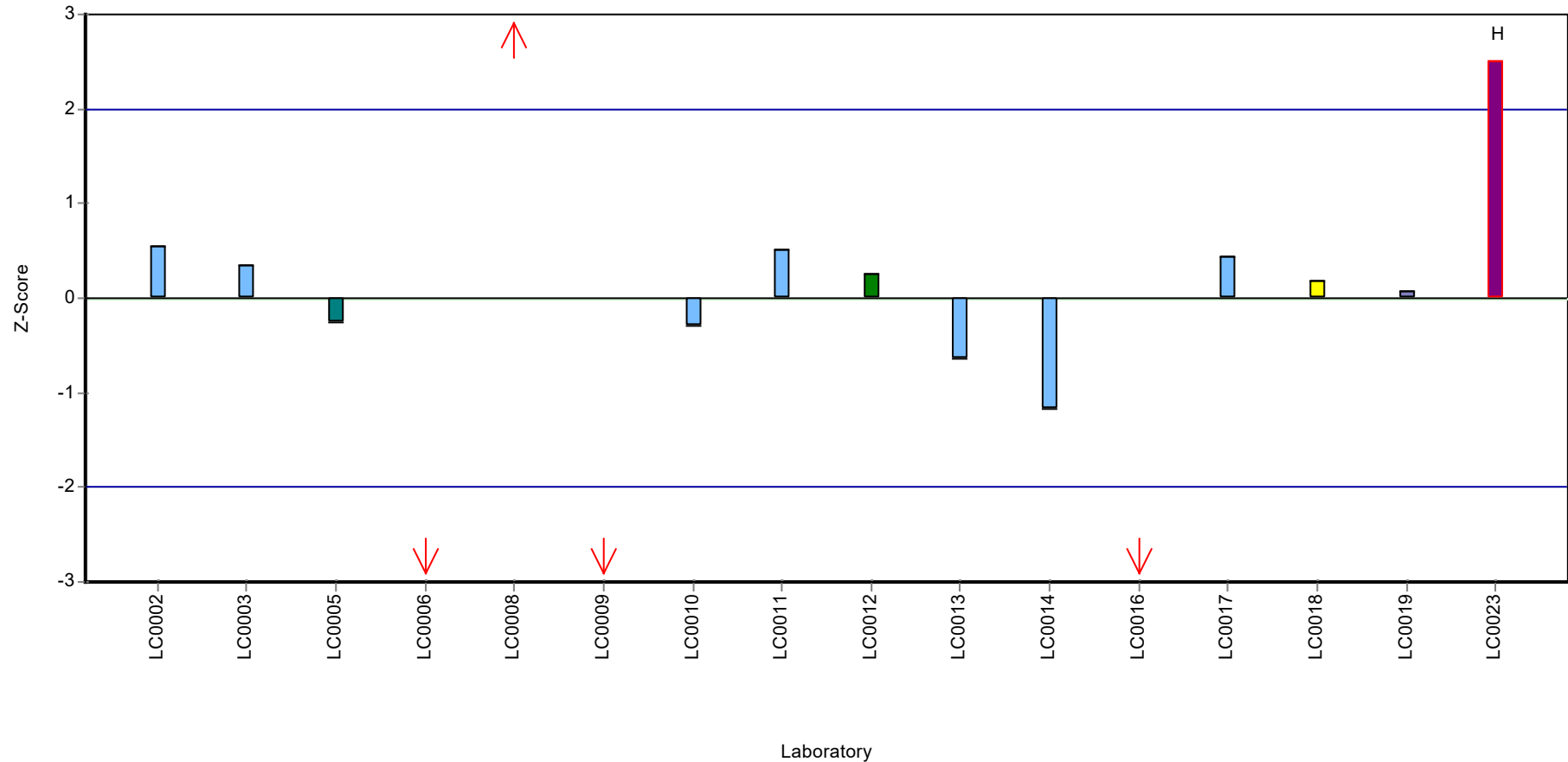
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: trans-1,2-Dichloroethene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: Trichloroethene

Parameter oriented report

CL12 - CHC

Trichloroethene

Unit	µg/tube
Assigned value ± U (k=2)	4.49 ± 0.313
Criterion	1.12 (25 %)
Minimum - Maximum	3.52 - 5.69
Control test value ± U (k=2)	4.58 ± 1.34

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	4.74	0.43	106	0.22	
LC0003	4.47	1	99.5	-0.02	
LC0005	5.36	1.07	119	0.77	
LC0006	5.3	2.55	118	0.72	
LC0008	56	3.9	1250	45.87	H
LC0009	4.397	0.281	97.9	-0.08	
LC0010	3.63	0.55	80.8	-0.77	
LC0011	4.6	0.92	102	0.1	
LC0012	4.4	1.1	98	-0.08	
LC0013	3.523	0.247	78.4	-0.86	
LC0014	4.316	0.86	96.1	-0.16	
LC0016	3.9	0.93	86.8	-0.53	
LC0017	5.685	1.5	127	1.06	
LC0018	4.44	0.89	98.9	-0.05	
LC0019	4.11	1.03	91.5	-0.34	
LC0023	4.5	0.9	100	0.01	

Characteristics of parameter

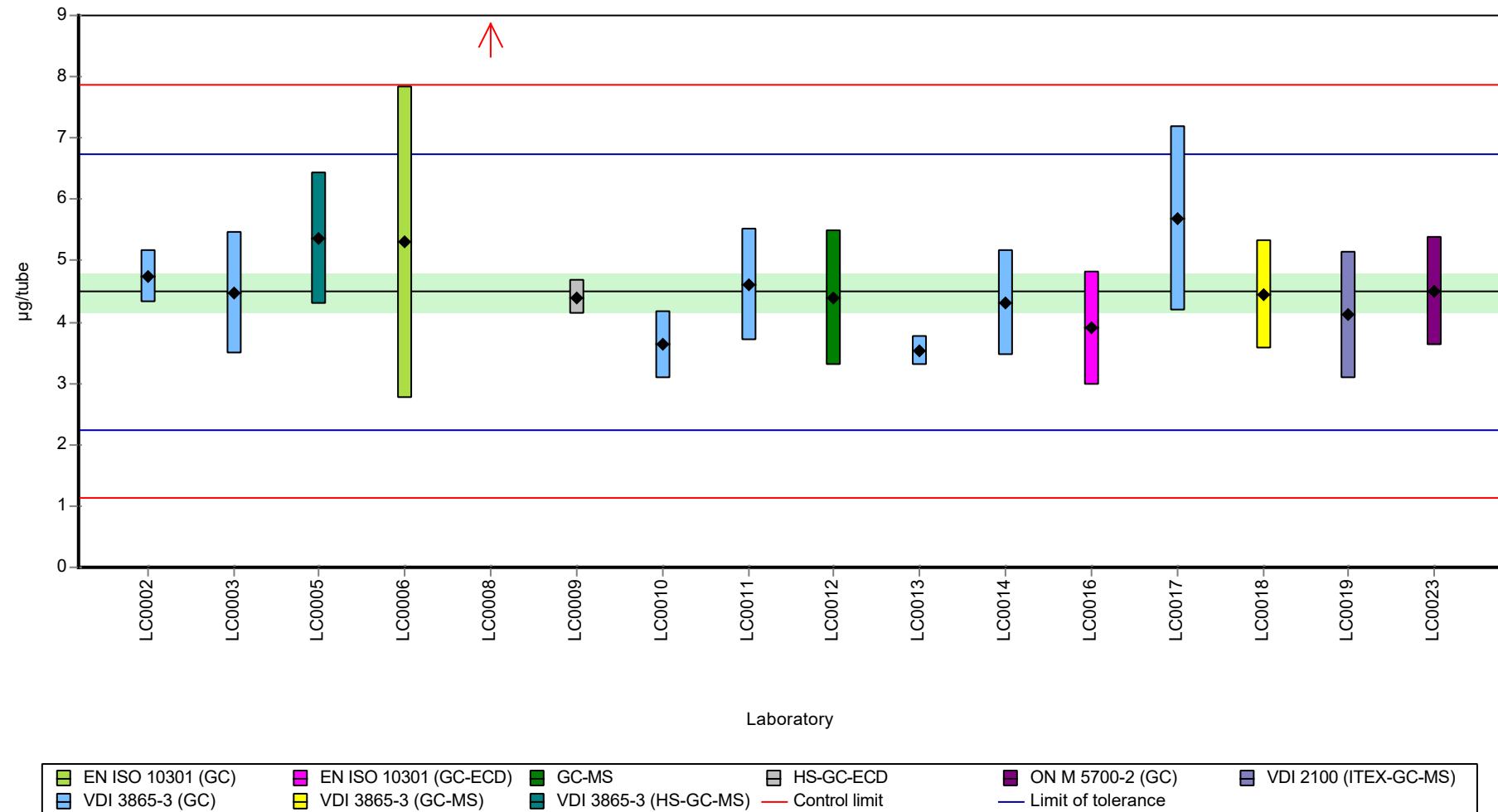
	all results	without outliers	Unit
Mean ± CI (99%)	7.71 ± 9.67	4.49 ± 0.469	µg/tube
Minimum	3.52	3.52	µg/tube
Maximum	56	5.69	µg/tube
Standard deviation	12.9	0.606	µg/tube
rel. standard deviation	167	13.5	%
n	16	15	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloroethene

Graphical presentation of results

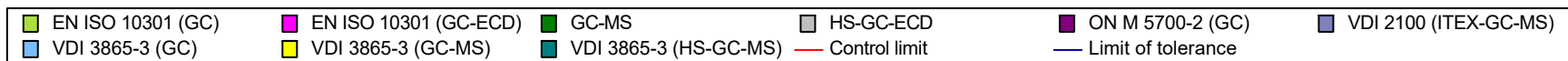
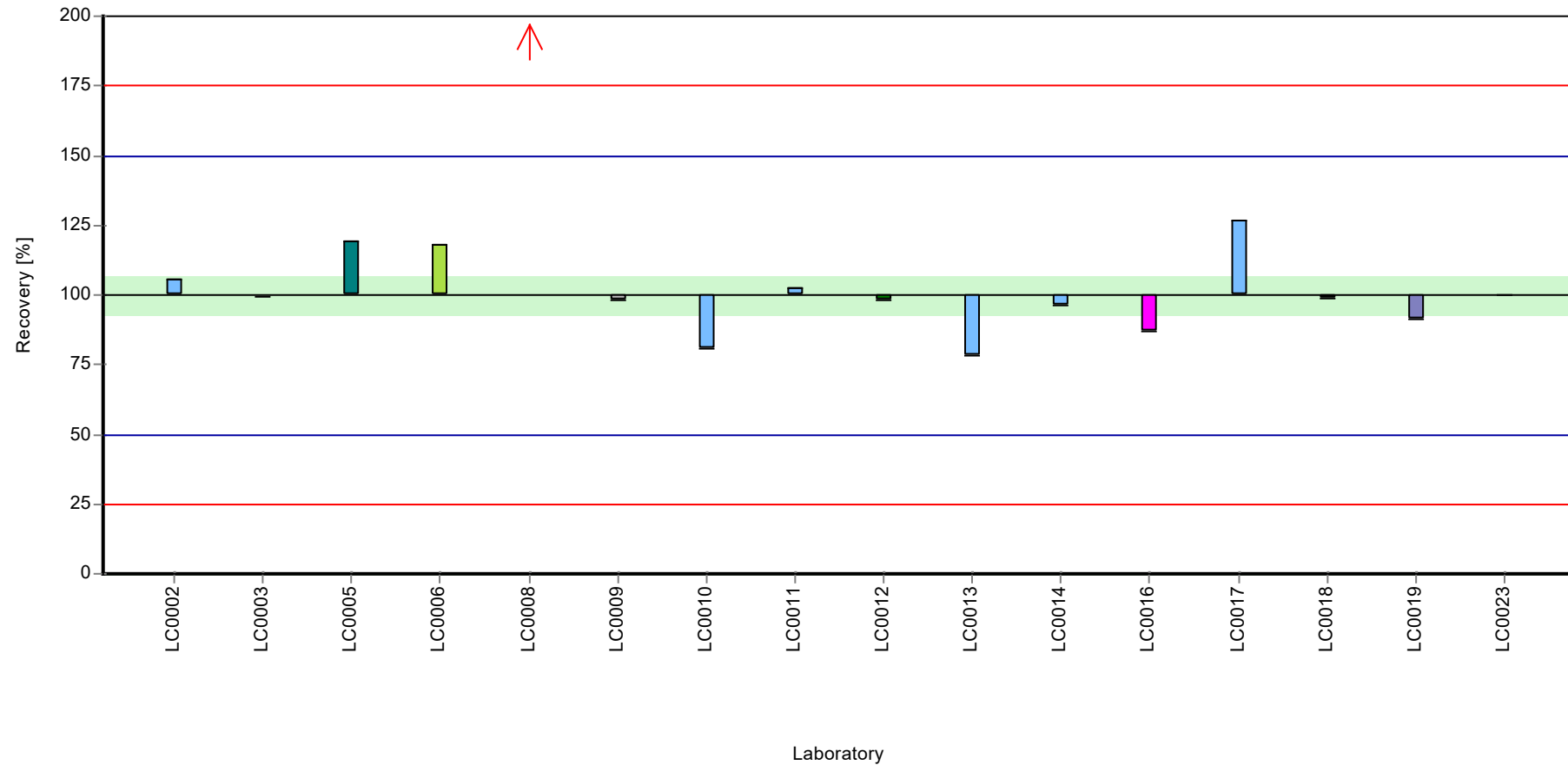
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloroethene

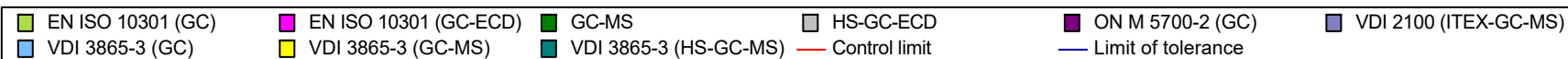
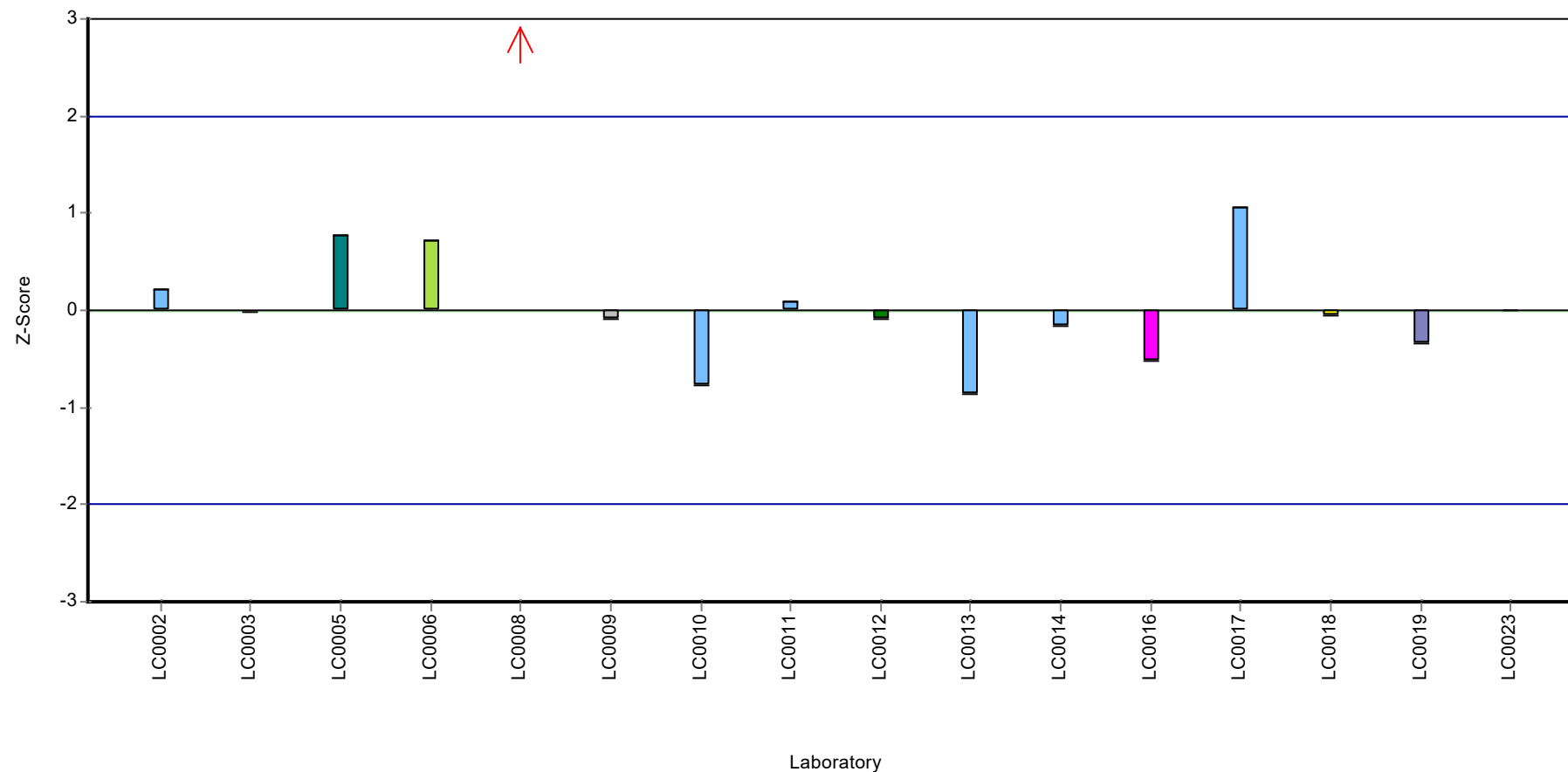
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloroethene

Z-score



Parameter oriented report CHC and BTEX & C5-C10 -
CBL11

Sample: CL12, Parameter: Trichloromethane

Parameter oriented report

CL12 - CHC

Trichloromethane

Unit	µg/tube
Assigned value ± U (k=2)	4.64 ± 0.213
Criterion	0.649 (14 %)
Minimum - Maximum	3.91 - 5.18
Control test value ± U (k=2)	4.69 ± 1.37

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0002	4.97	0.45	107	0.51	
LC0003	4.8	0.86	104	0.25	
LC0005	5.08	0.51	110	0.68	
LC0006	2.73	1.35	58.9	-2.94	H
LC0008	62	4.3	1340	88.36	H
LC0009	4.394	0.293	94.8	-0.37	
LC0010	4.66	0.47	100	0.04	
LC0011	5.18	1.4	112	0.84	
LC0012	4.6	1.2	99.2	-0.06	
LC0013	3.909	0.274	84.3	-1.12	
LC0014	4.597	0.92	99.1	-0.06	
LC0016	3.93	0.65	84.7	-1.09	
LC0017	5.141	1	111	0.78	
LC0018	4.63	0.93	99.8	-0.01	
LC0019	4.34	1.09	93.6	-0.46	
LC0023	4.69	0.94	101	0.08	

Characteristics of parameter

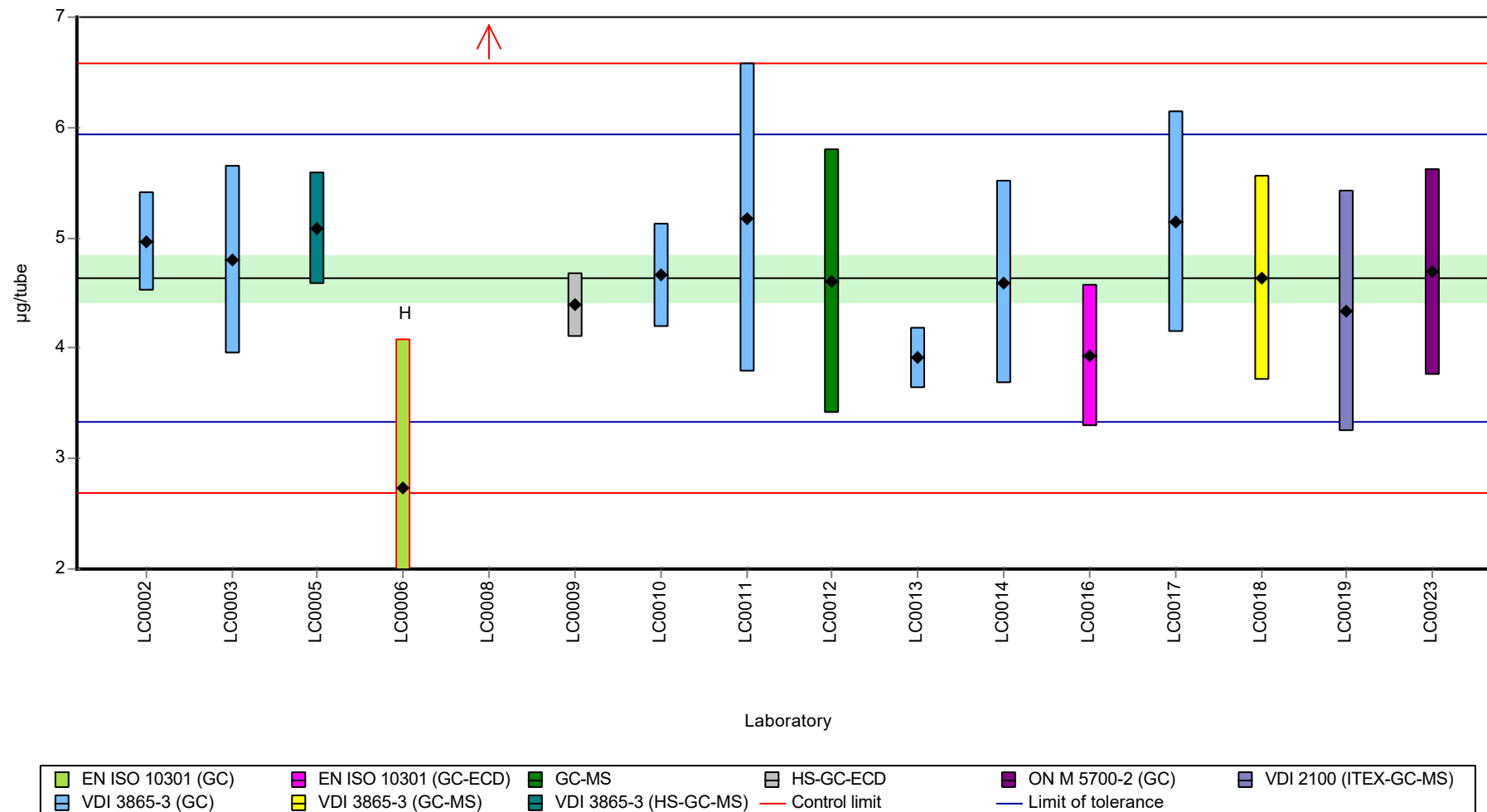
	all results	without outliers	Unit
Mean ± CI (99%)	8.1 ± 10.8	4.64 ± 0.32	µg/tube
Minimum	2.73	3.91	µg/tube
Maximum	62	5.18	µg/tube
Standard deviation	14.4	0.399	µg/tube
rel. standard deviation	178	8.6	%
n	16	14	-

Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloromethane

Graphical presentation of results

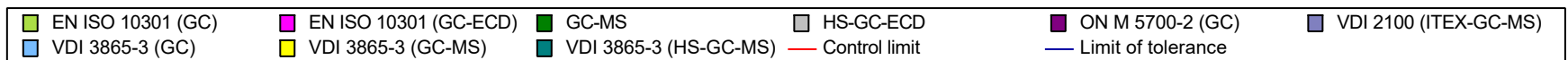
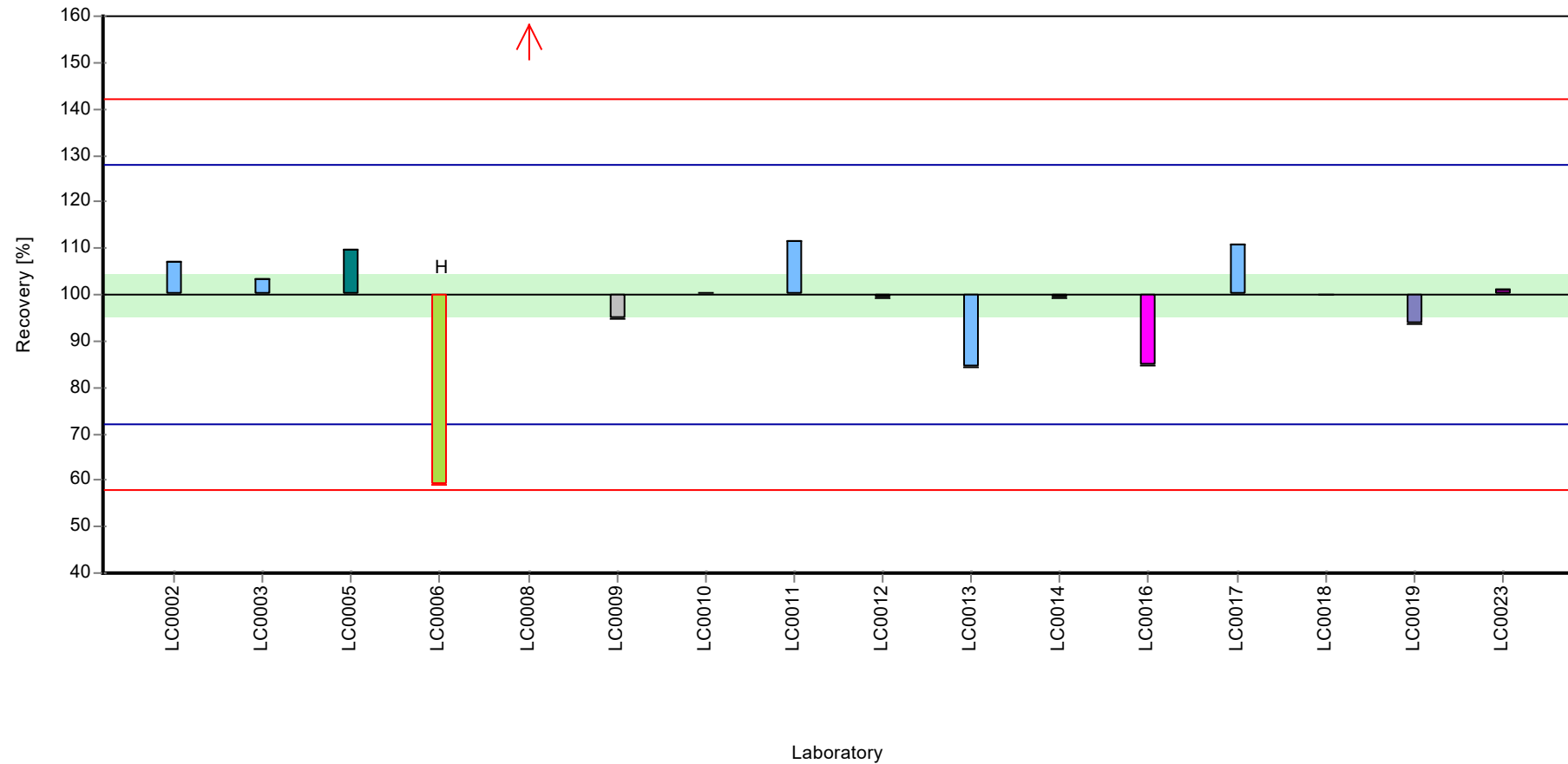
Results



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloromethane

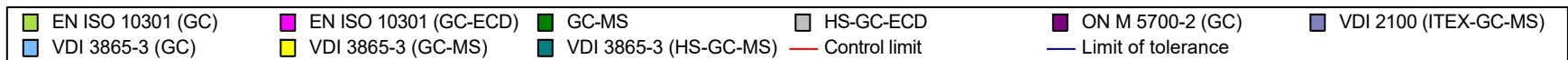
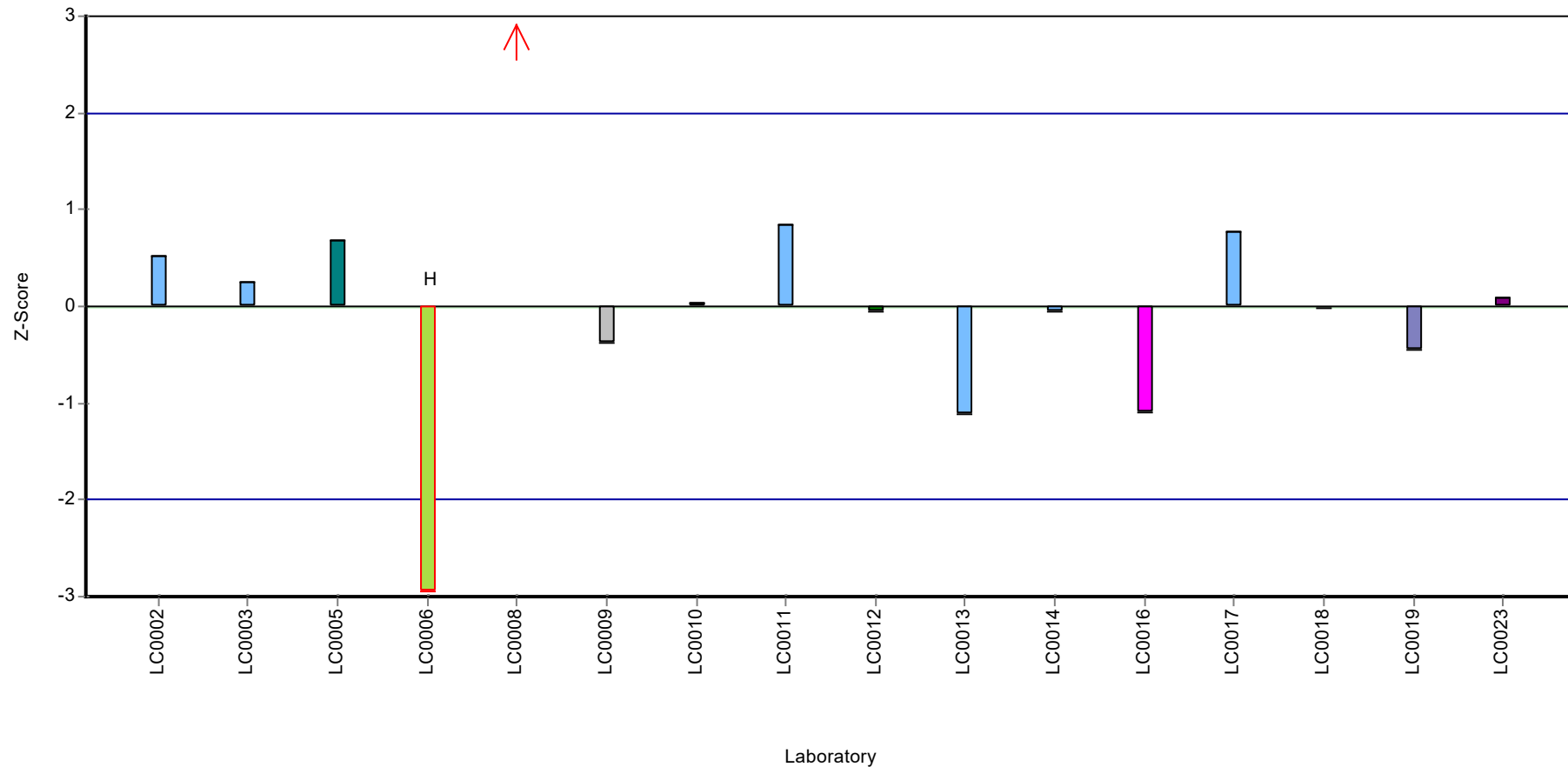
Recovery rate



Parameter oriented report CHC and BTEX & C5-C10 - CBL11

Sample: CL12, Parameter: Trichloromethane

Z-score



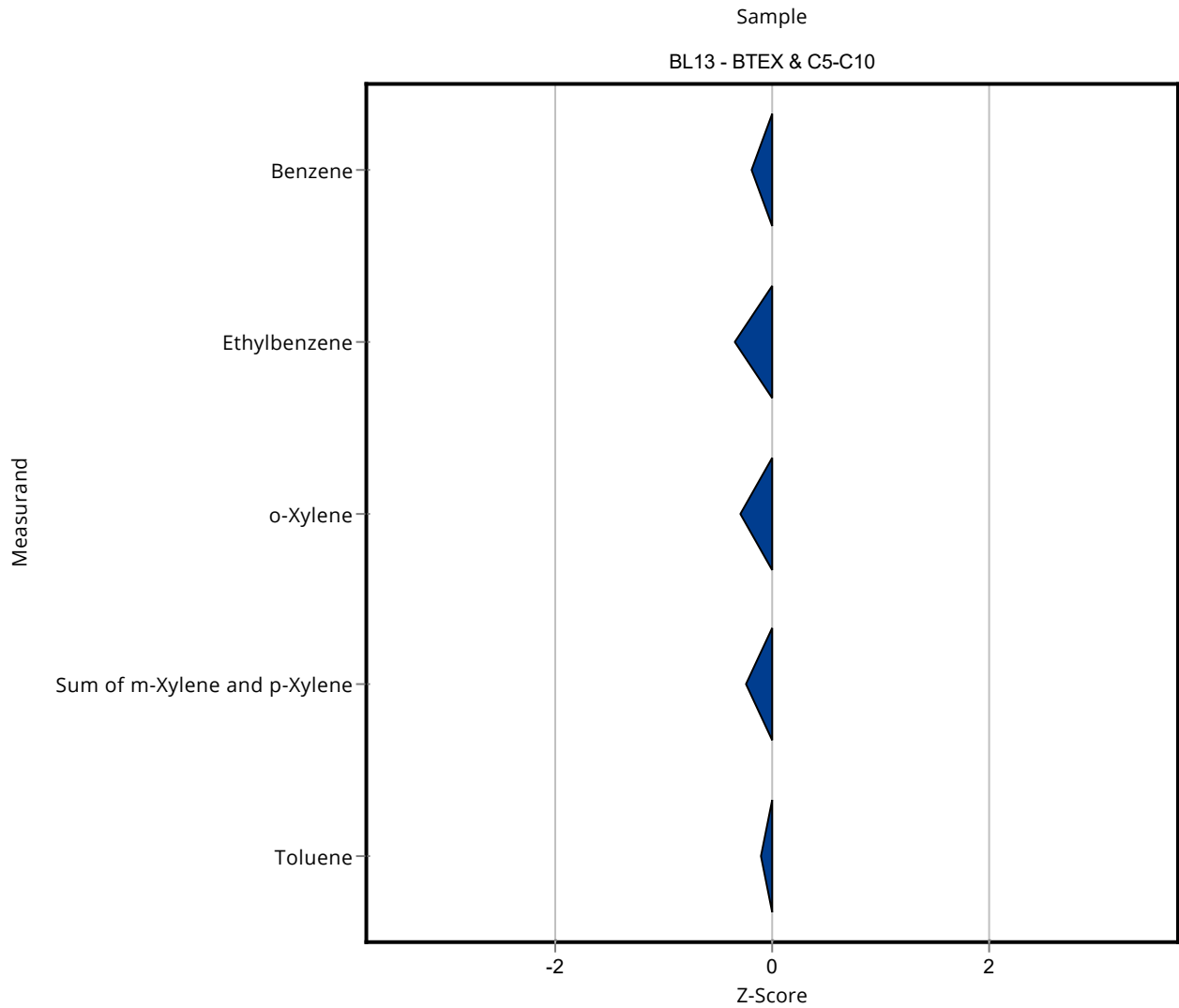
E8. Labororientierte Auswertung / Laboratory oriented report

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

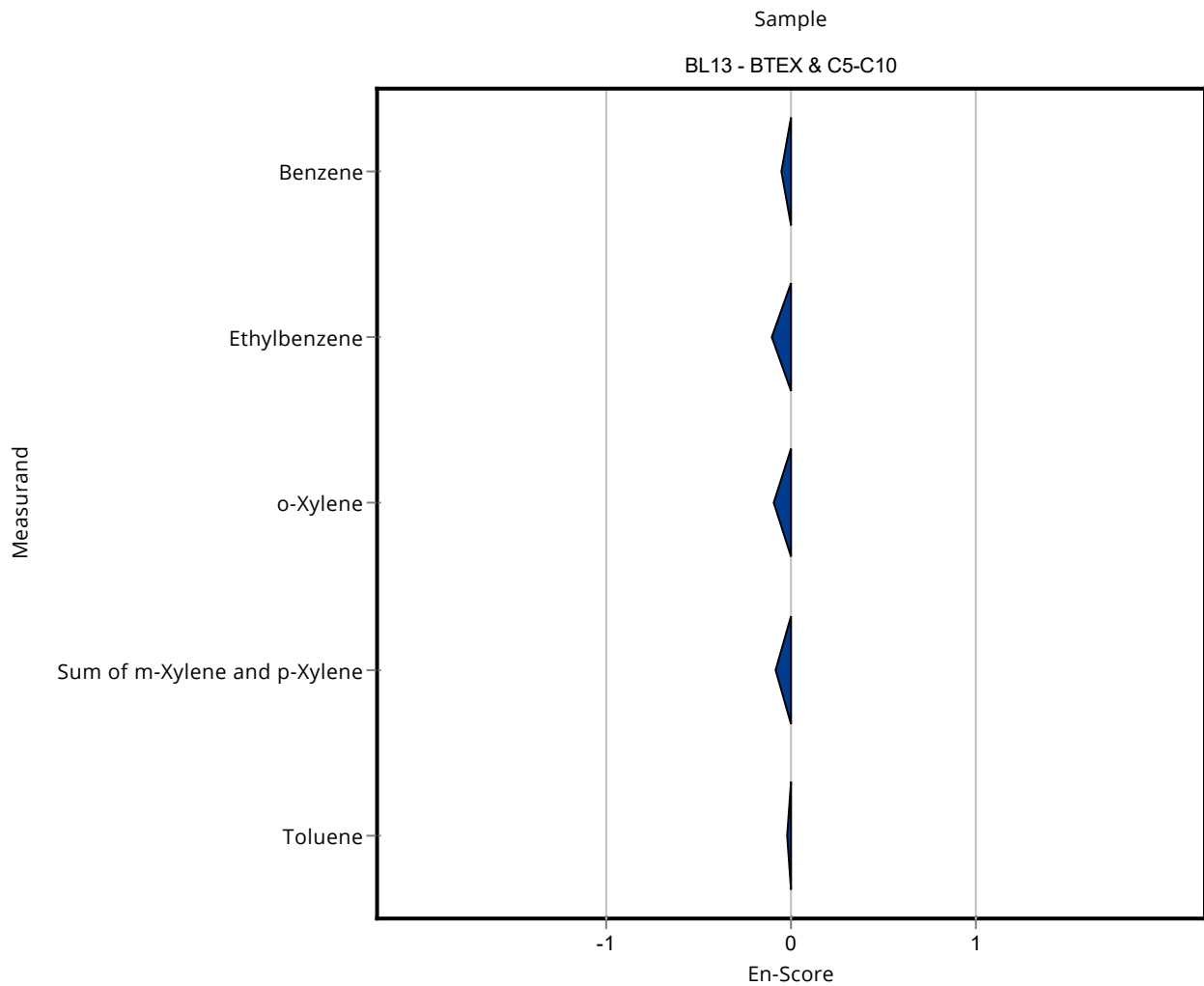
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.52 ± 1.36	0.699	97.1	-0.20
Ethylbenzene	µg/tube	3.95 ± 0.214	3.71 ± 1.11	0.711	93.9	-0.34
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.31 ± 0.99	0.63	94.6	-0.30
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.9 ± 2.07	1.38	95.3	-0.25
Toluene	µg/tube	4.48 ± 0.261	4.41 ± 1.32	0.672	98.5	-0.10



Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.52 ± 1.36	0.699	97.1	-0.05
Ethylbenzene	µg/tube	3.95 ± 0.214	3.71 ± 1.11	0.711	93.9	-0.11
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.31 ± 0.99	0.63	94.6	-0.10
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.9 ± 2.07	1.38	95.3	-0.08
Toluene	µg/tube	4.48 ± 0.261	4.41 ± 1.32	0.672	98.5	-0.03

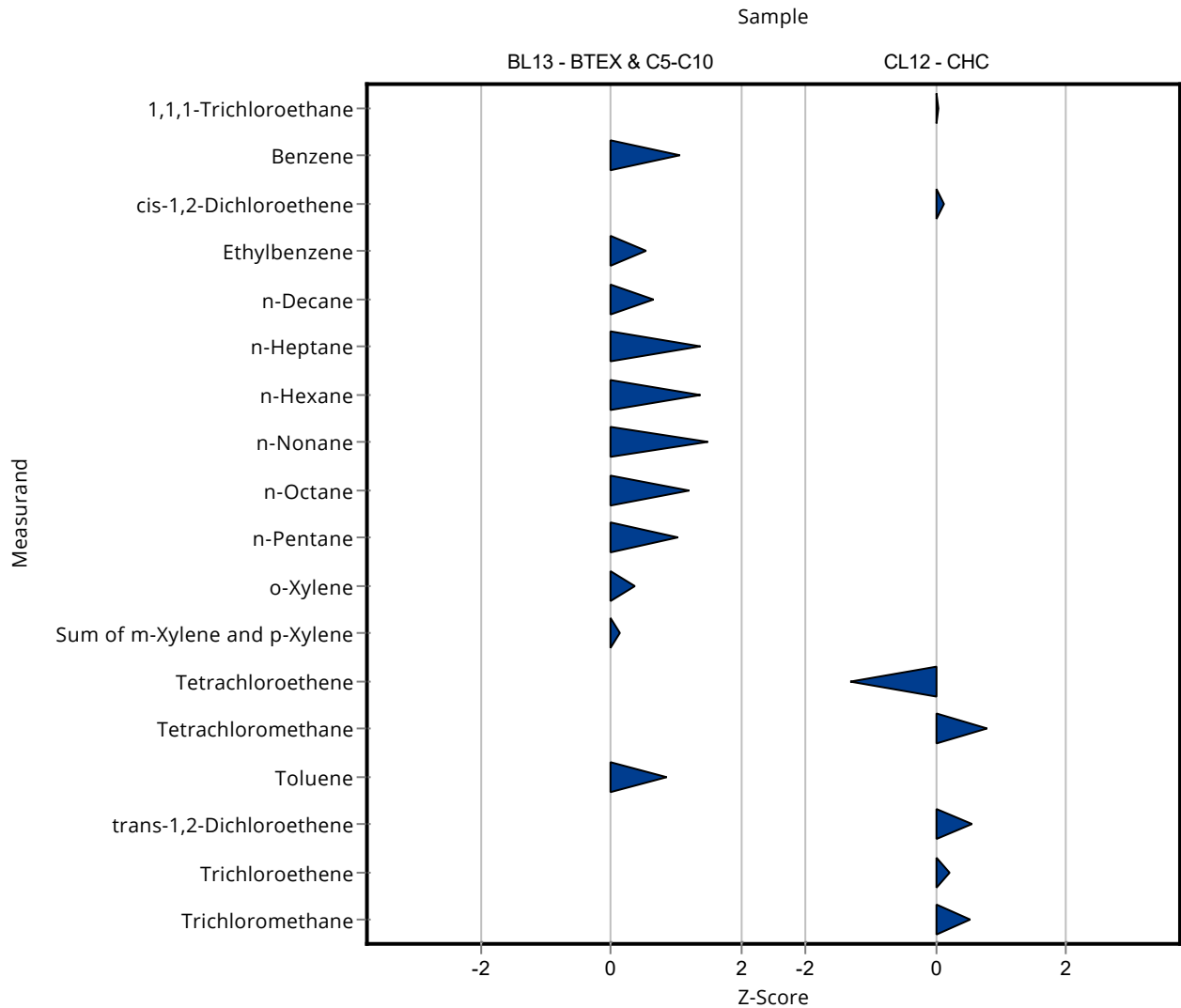


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.39 ± 0.49	0.699	116	1.05
Ethylbenzene	µg/tube	3.95 ± 0.214	4.34 ± 0.39	0.711	110	0.55
n-Decane	µg/tube	1.95 ± 0.231	2.21 ± 0.28	0.408	114	0.65
n-Heptane	µg/tube	6.16 ± 0.421	7.68 ± 0.69	1.11	125	1.37
n-Hexane	µg/tube	6.33 ± 0.621	7.72 ± 0.7	1.01	122	1.37
n-Nonane	µg/tube	3.97 ± 0.271	4.86 ± 0.44	0.595	122	1.50
n-Octane	µg/tube	5.37 ± 0.273	6.48 ± 0.58	0.913	121	1.22
n-Pentane	µg/tube	6 ± 0.812	7.87 ± 0.71	1.8	131	1.04
o-Xylene	µg/tube	3.5 ± 0.218	3.73 ± 0.42	0.63	107	0.37
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.43 ± 0.67	1.38	103	0.14
Toluene	µg/tube	4.48 ± 0.261	5.06 ± 0.46	0.672	113	0.87

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.37 ± 0.48	0.856	100	0.02
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.05 ± 0.36	1.43	105	0.13
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.25 ± 0.2	1.06	61.5	-1.33
Tetrachloromethane	µg/tube	6.32 ± 0.385	7.07 ± 0.64	0.948	112	0.79
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.48 ± 0.4	0.621	108	0.55
Trichloroethene	µg/tube	4.49 ± 0.313	4.74 ± 0.43	1.12	106	0.22
Trichloromethane	µg/tube	4.64 ± 0.213	4.97 ± 0.45	0.649	107	0.51

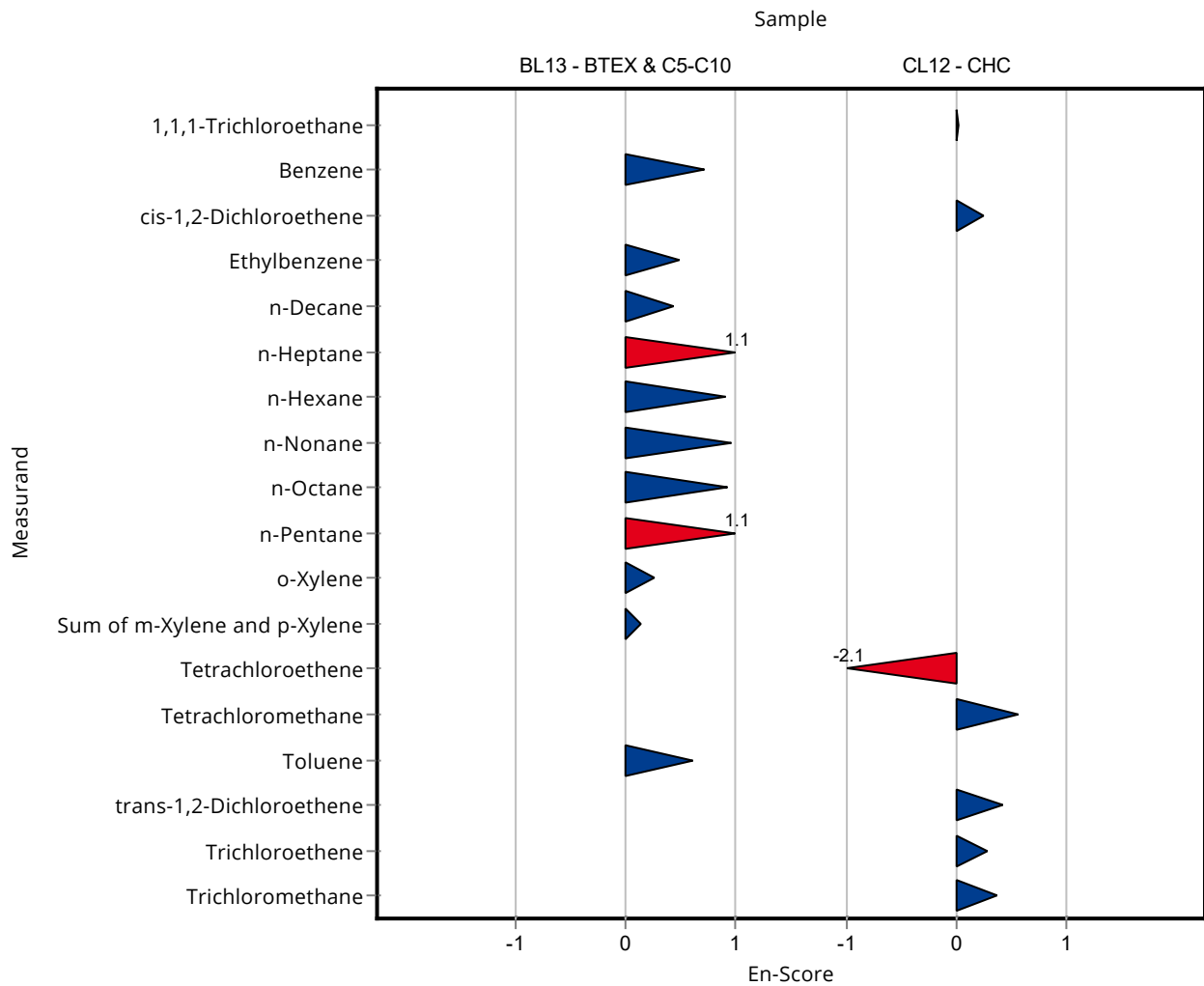


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.39 ± 0.49	0.699	116	0.71
Ethylbenzene	µg/tube	3.95 ± 0.214	4.34 ± 0.39	0.711	110	0.48
n-Decane	µg/tube	1.95 ± 0.231	2.21 ± 0.28	0.408	114	0.44
n-Heptane	µg/tube	6.16 ± 0.421	7.68 ± 0.69	1.11	125	1.05
n-Hexane	µg/tube	6.33 ± 0.621	7.72 ± 0.7	1.01	122	0.90
n-Nonane	µg/tube	3.97 ± 0.271	4.86 ± 0.44	0.595	122	0.97
n-Octane	µg/tube	5.37 ± 0.273	6.48 ± 0.58	0.913	121	0.93
n-Pentane	µg/tube	6 ± 0.812	7.87 ± 0.71	1.8	131	1.14
o-Xylene	µg/tube	3.5 ± 0.218	3.73 ± 0.42	0.63	107	0.27
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.43 ± 0.67	1.38	103	0.14
Toluene	µg/tube	4.48 ± 0.261	5.06 ± 0.46	0.672	113	0.61

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.37 ± 0.48	0.856	100	0.02
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.05 ± 0.36	1.43	105	0.25
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.25 ± 0.2	1.06	61.5	-2.08
Tetrachloromethane	µg/tube	6.32 ± 0.385	7.07 ± 0.64	0.948	112	0.56
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.48 ± 0.4	0.621	108	0.42
Trichloroethene	µg/tube	4.49 ± 0.313	4.74 ± 0.43	1.12	106	0.27
Trichloromethane	µg/tube	4.64 ± 0.213	4.97 ± 0.45	0.649	107	0.36

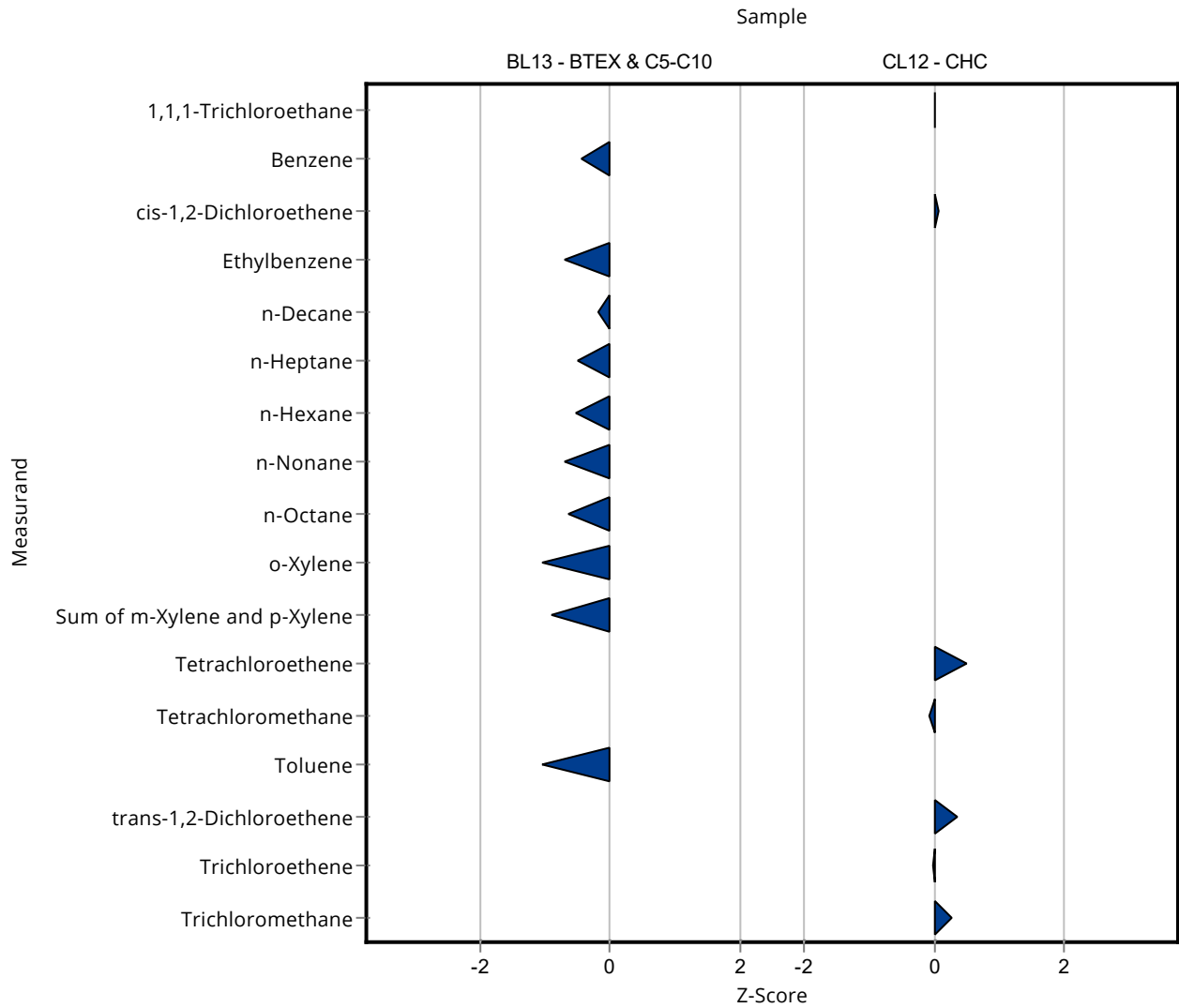


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.35 ± 0.65	0.699	93.4	-0.44
Ethylbenzene	µg/tube	3.95 ± 0.214	3.46 ± 0.73	0.711	87.6	-0.69
n-Decane	µg/tube	1.95 ± 0.231	1.87 ± 0.34	0.408	96.1	-0.18
n-Heptane	µg/tube	6.16 ± 0.421	5.62 ± 1.5	1.11	91.2	-0.49
n-Hexane	µg/tube	6.33 ± 0.621	5.79 ± 2.1	1.01	91.4	-0.54
n-Nonane	µg/tube	3.97 ± 0.271	3.56 ± 0.71	0.595	89.7	-0.69
n-Octane	µg/tube	5.37 ± 0.273	4.78 ± 1.2	0.913	89	-0.65
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	2.85 ± 0.74	0.63	81.4	-1.03
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6 ± 1.3	1.38	82.9	-0.90
Toluene	µg/tube	4.48 ± 0.261	3.77 ± 0.9	0.672	84.2	-1.05

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.36 ± 1.1	0.856	100	0.01
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.97 ± 0.87	1.43	103	0.08
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.17 ± 0.92	1.06	114	0.48
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.23 ± 1.2	0.948	98.6	-0.09
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.35 ± 0.83	0.621	105	0.34
Trichloroethene	µg/tube	4.49 ± 0.313	4.47 ± 1	1.12	99.5	-0.02
Trichloromethane	µg/tube	4.64 ± 0.213	4.8 ± 0.86	0.649	104	0.25

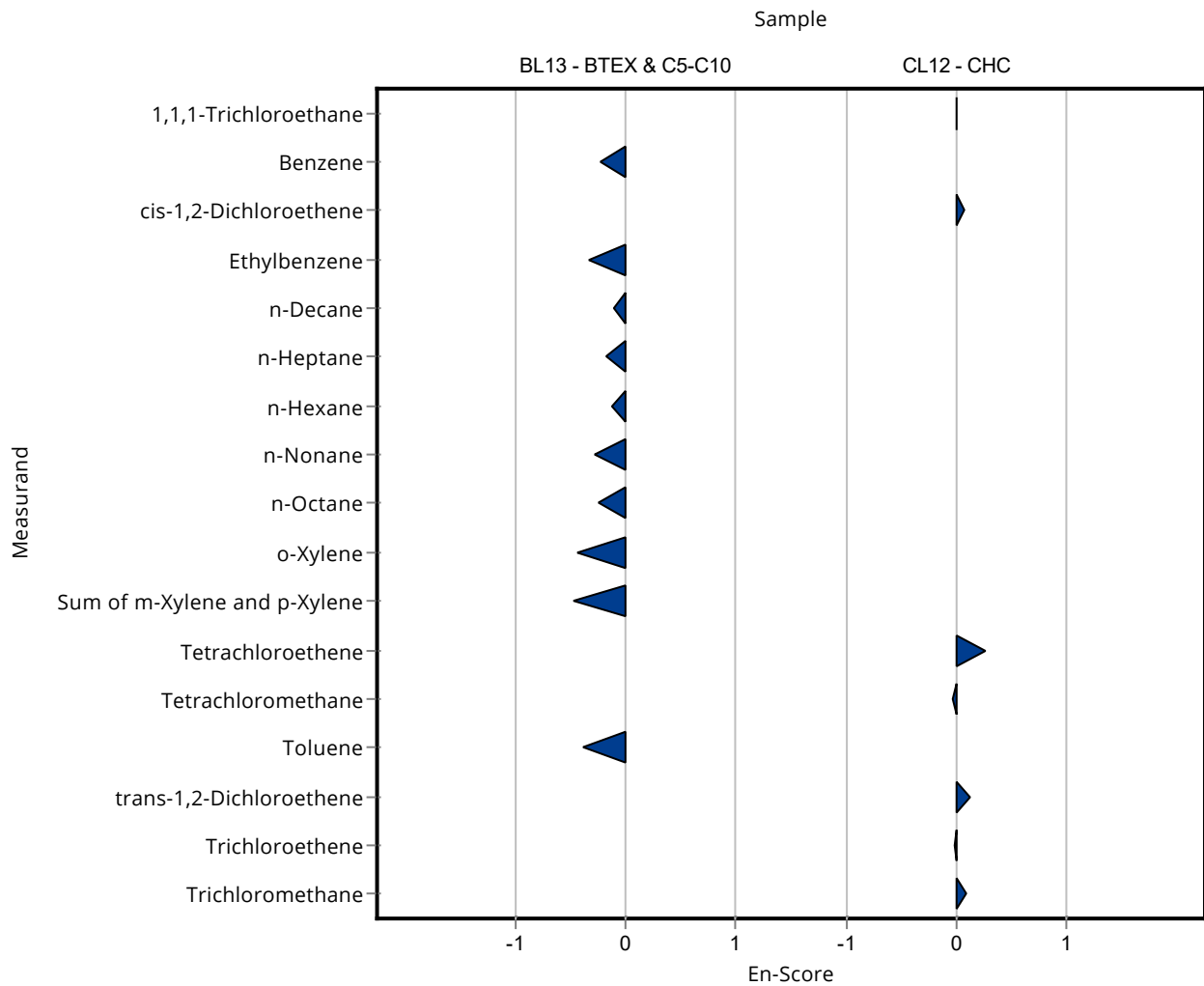


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.35 ± 0.65	0.699	93.4	-0.23
Ethylbenzene	µg/tube	3.95 ± 0.214	3.46 ± 0.73	0.711	87.6	-0.33
n-Decane	µg/tube	1.95 ± 0.231	1.87 ± 0.34	0.408	96.1	-0.10
n-Heptane	µg/tube	6.16 ± 0.421	5.62 ± 1.5	1.11	91.2	-0.18
n-Hexane	µg/tube	6.33 ± 0.621	5.79 ± 2.1	1.01	91.4	-0.13
n-Nonane	µg/tube	3.97 ± 0.271	3.56 ± 0.71	0.595	89.7	-0.28
n-Octane	µg/tube	5.37 ± 0.273	4.78 ± 1.2	0.913	89	-0.24
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	2.85 ± 0.74	0.63	81.4	-0.43
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6 ± 1.3	1.38	82.9	-0.47
Toluene	µg/tube	4.48 ± 0.261	3.77 ± 0.9	0.672	84.2	-0.39

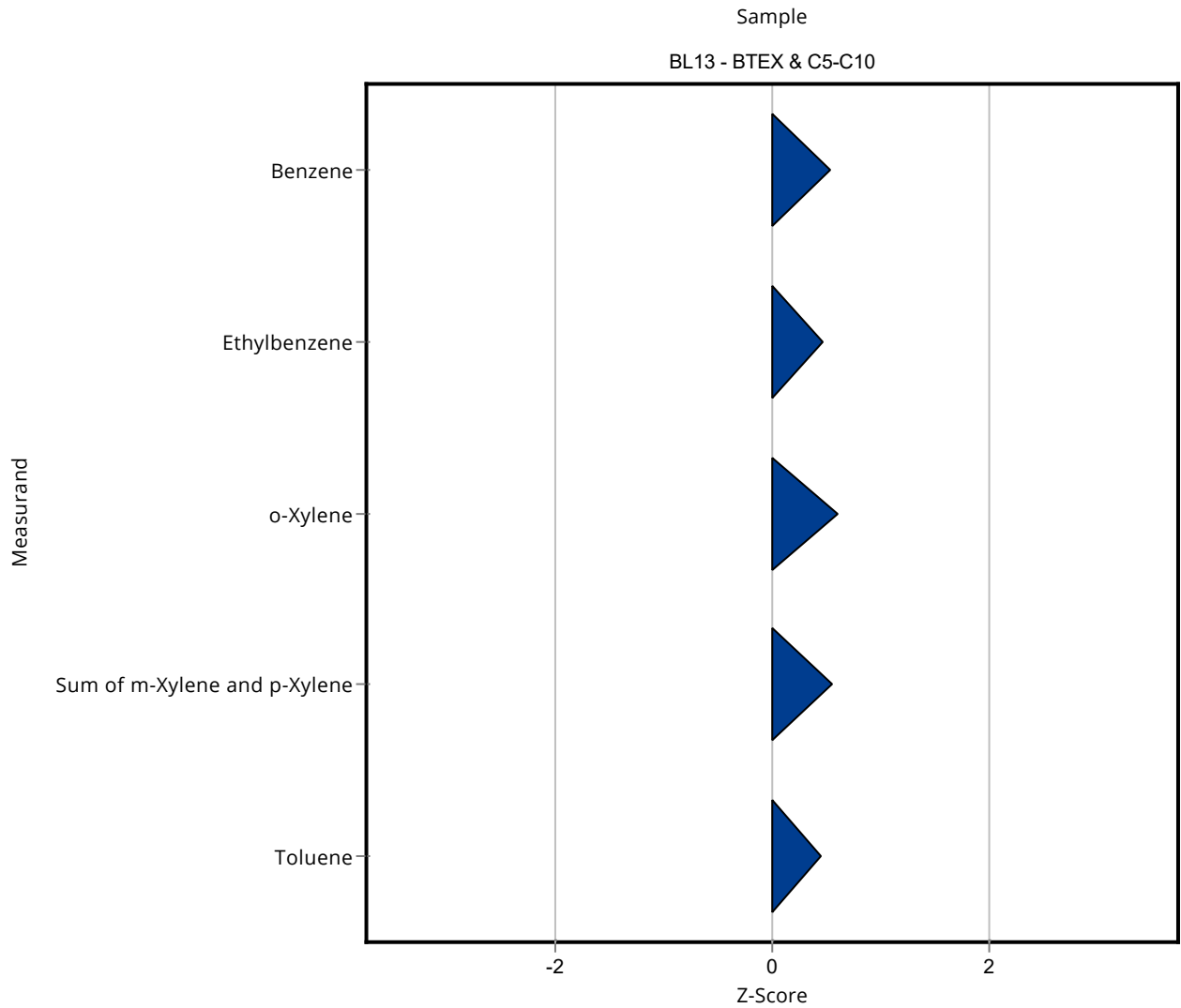
Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.36 ± 1.1	0.856	100	0.00
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.97 ± 0.87	1.43	103	0.06
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.17 ± 0.92	1.06	114	0.27
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.23 ± 1.2	0.948	98.6	-0.04
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.35 ± 0.83	0.621	105	0.13
Trichloroethene	µg/tube	4.49 ± 0.313	4.47 ± 1	1.12	99.5	-0.01
Trichloromethane	µg/tube	4.64 ± 0.213	4.8 ± 0.86	0.649	104	0.09



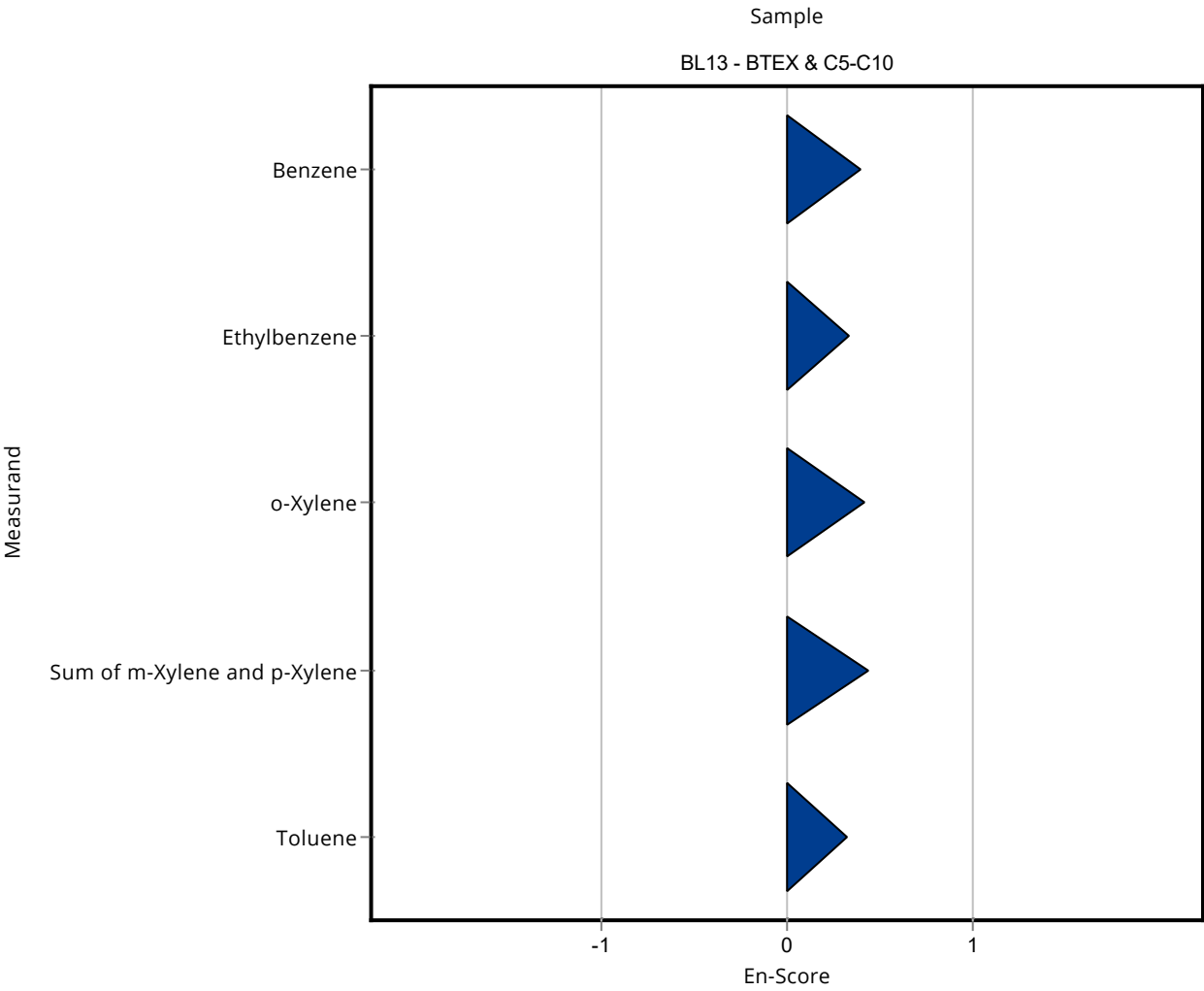
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.027 ± 0.437	0.699	108	0.53
Ethylbenzene	µg/tube	3.95 ± 0.214	4.28 ± 0.479	0.711	108	0.46
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.877 ± 0.438	0.63	111	0.60
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.005 ± 0.84	1.38	111	0.56
Toluene	µg/tube	4.48 ± 0.261	4.783 ± 0.454	0.672	107	0.45



Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.027 ± 0.437	0.699	108	0.40
Ethylbenzene	µg/tube	3.95 ± 0.214	4.28 ± 0.479	0.711	108	0.34
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.877 ± 0.438	0.63	111	0.42
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.005 ± 0.84	1.38	111	0.44
Toluene	µg/tube	4.48 ± 0.261	4.783 ± 0.454	0.672	107	0.32

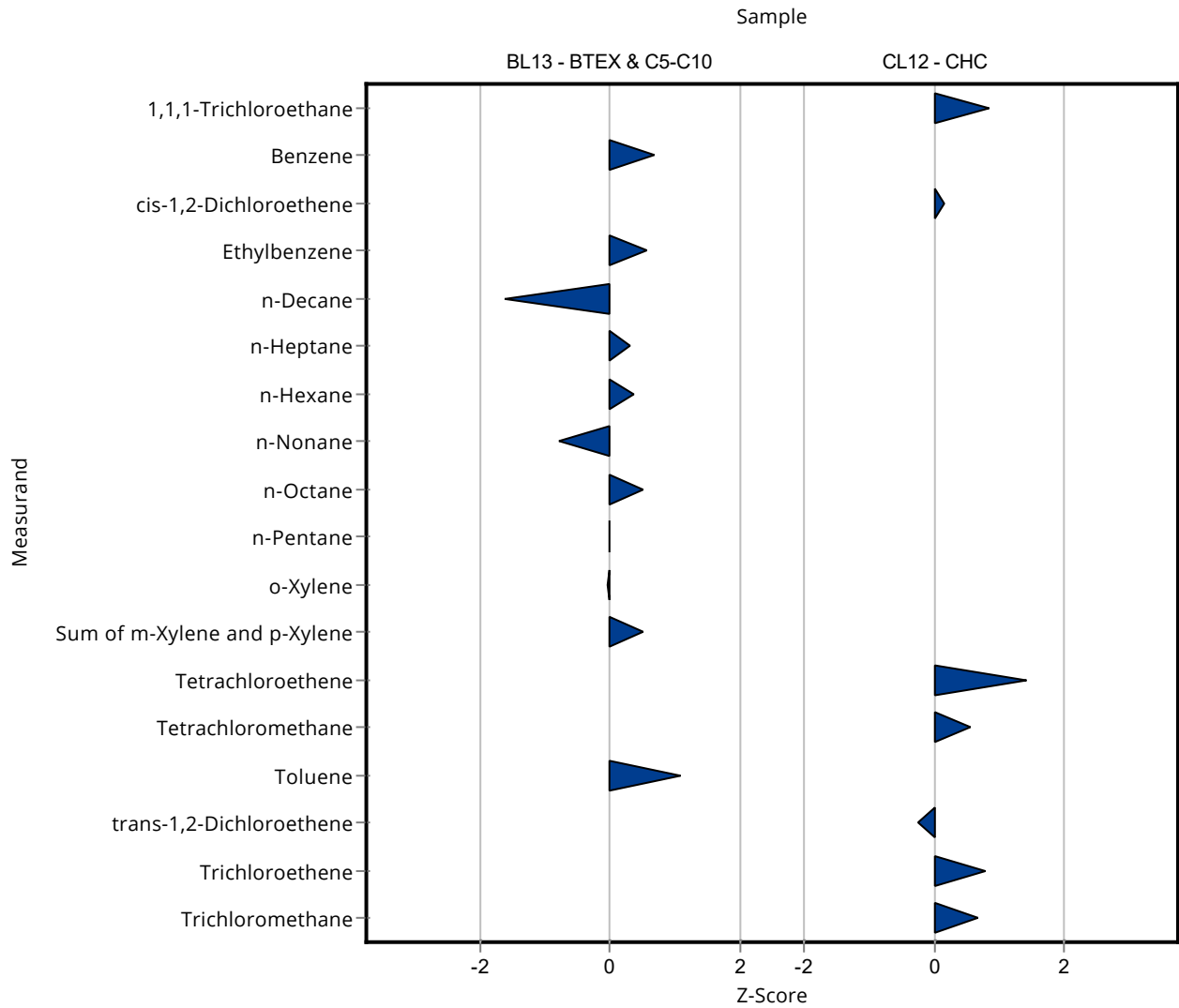


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.13 ± 0.51	0.699	110	0.68
Ethylbenzene	µg/tube	3.95 ± 0.214	4.36 ± 0.65	0.711	110	0.58
n-Decane	µg/tube	1.95 ± 0.231	1.28 ± 0.26	0.408	65.8	-1.63
n-Heptane	µg/tube	6.16 ± 0.421	6.49 ± 0.97	1.11	105	0.30
n-Hexane	µg/tube	6.33 ± 0.621	6.7 ± 1	1.01	106	0.36
n-Nonane	µg/tube	3.97 ± 0.271	3.51 ± 0.7	0.595	88.4	-0.77
n-Octane	µg/tube	5.37 ± 0.273	5.84 ± 0.88	0.913	109	0.52
n-Pentane	µg/tube	6 ± 0.812	5.99 ± 0.9	1.8	99.8	-0.01
o-Xylene	µg/tube	3.5 ± 0.218	3.48 ± 0.35	0.63	99.4	-0.03
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.93 ± 0.79	1.38	110	0.50
Toluene	µg/tube	4.48 ± 0.261	5.2 ± 0.26	0.672	116	1.07

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.08 ± 1.22	0.856	114	0.85
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.07 ± 0.41	1.43	105	0.15
Tetrachloroethene	µg/tube	3.66 ± 0.543	5.16 ± 1.29	1.06	141	1.42
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.84 ± 1.03	0.948	108	0.55
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.98 ± 0.8	0.621	96.2	-0.25
Trichloroethene	µg/tube	4.49 ± 0.313	5.36 ± 1.07	1.12	119	0.77
Trichloromethane	µg/tube	4.64 ± 0.213	5.08 ± 0.51	0.649	110	0.68

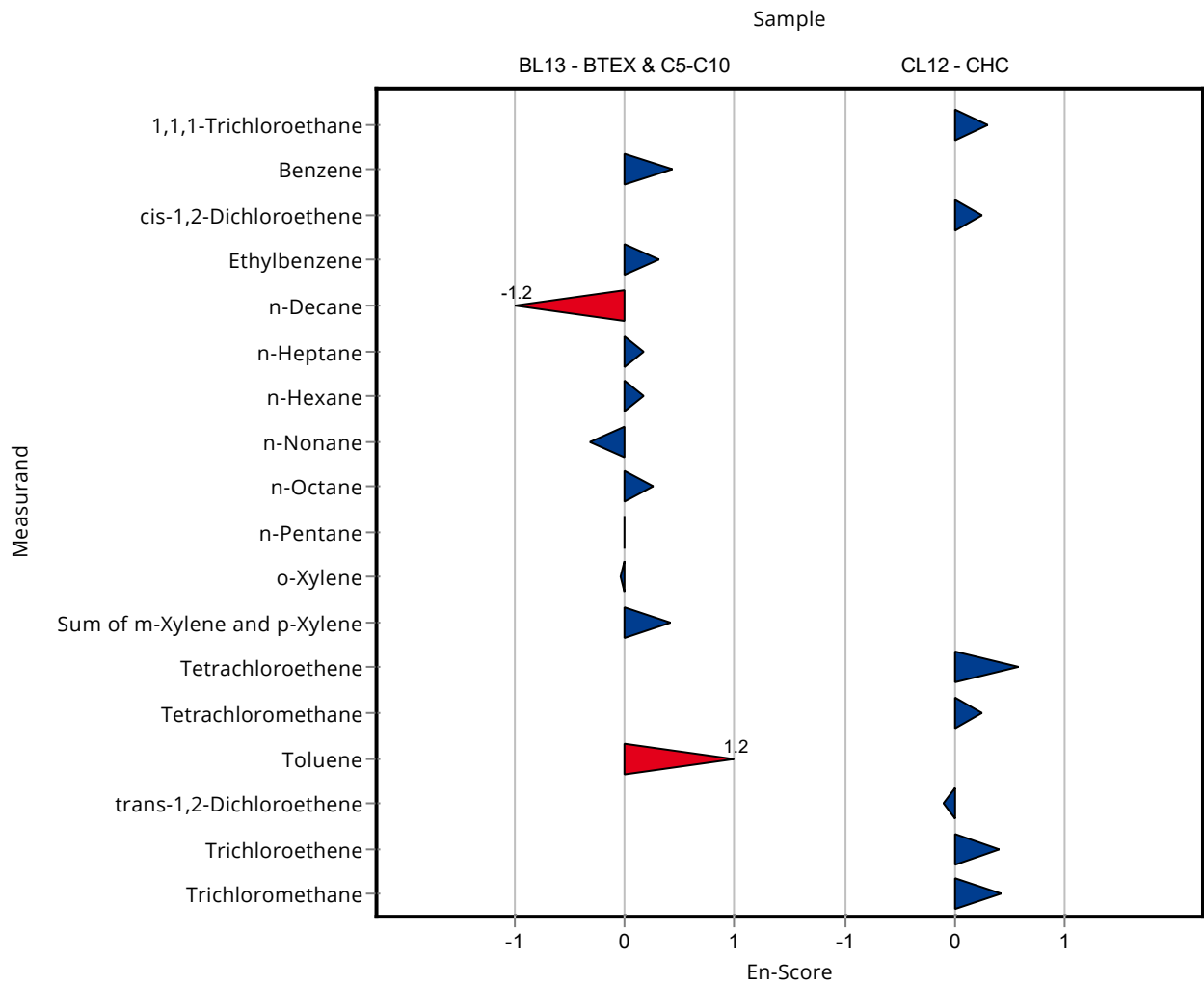


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.13 ± 0.51	0.699	110	0.44
Ethylbenzene	µg/tube	3.95 ± 0.214	4.36 ± 0.65	0.711	110	0.31
n-Decane	µg/tube	1.95 ± 0.231	1.28 ± 0.26	0.408	65.8	-1.17
n-Heptane	µg/tube	6.16 ± 0.421	6.49 ± 0.97	1.11	105	0.17
n-Hexane	µg/tube	6.33 ± 0.621	6.7 ± 1	1.01	106	0.17
n-Nonane	µg/tube	3.97 ± 0.271	3.51 ± 0.7	0.595	88.4	-0.32
n-Octane	µg/tube	5.37 ± 0.273	5.84 ± 0.88	0.913	109	0.26
n-Pentane	µg/tube	6 ± 0.812	5.99 ± 0.9	1.8	99.8	-0.01
o-Xylene	µg/tube	3.5 ± 0.218	3.48 ± 0.35	0.63	99.4	-0.03
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.93 ± 0.79	1.38	110	0.42
Toluene	µg/tube	4.48 ± 0.261	5.2 ± 0.26	0.672	116	1.24

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.08 ± 1.22	0.856	114	0.30
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.07 ± 0.41	1.43	105	0.25
Tetrachloroethene	µg/tube	3.66 ± 0.543	5.16 ± 1.29	1.06	141	0.57
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.84 ± 1.03	0.948	108	0.25
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.98 ± 0.8	0.621	96.2	-0.10
Trichloroethene	µg/tube	4.49 ± 0.313	5.36 ± 1.07	1.12	119	0.40
Trichloromethane	µg/tube	4.64 ± 0.213	5.08 ± 0.51	0.649	110	0.42

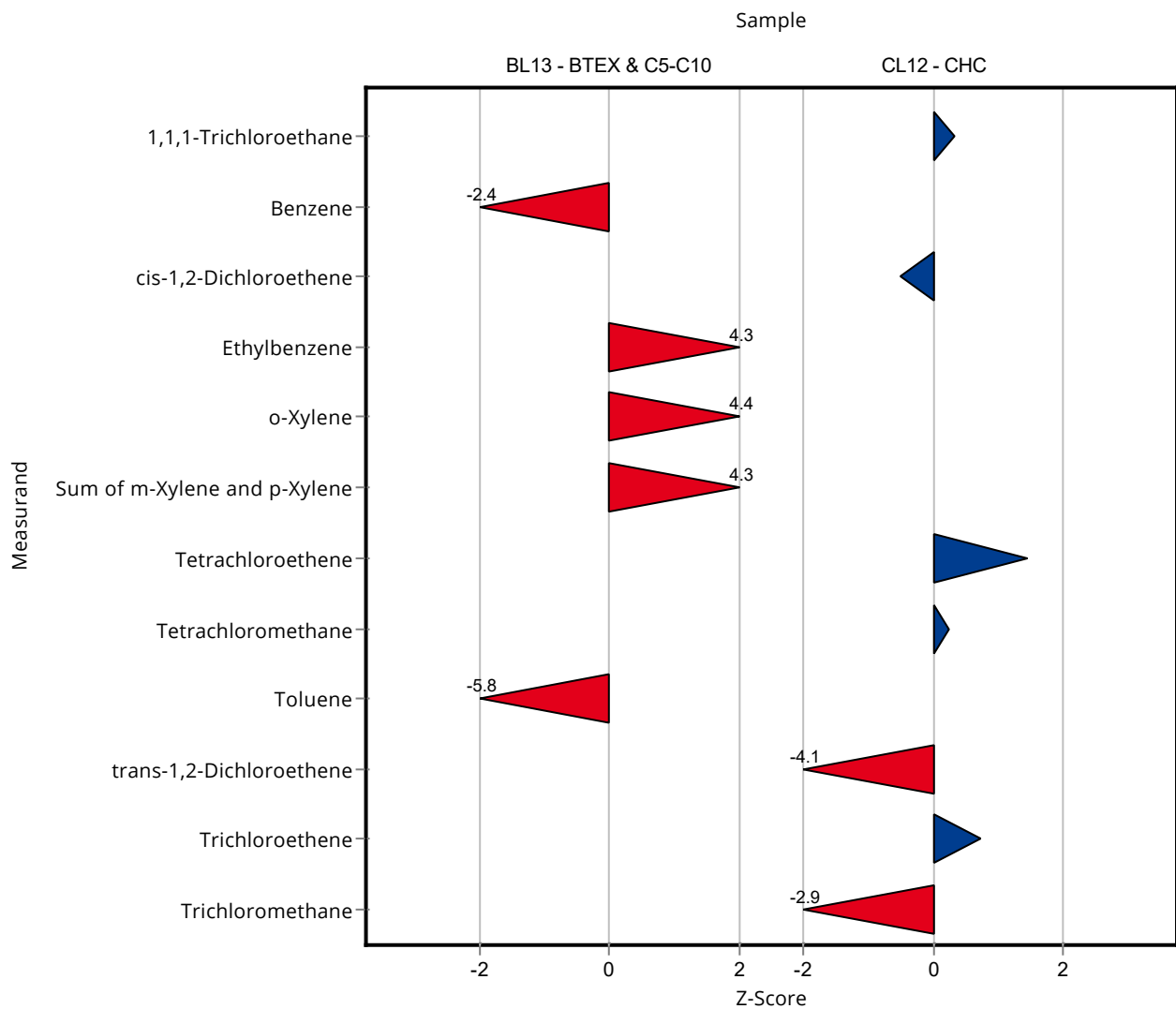


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	3.01 ± 1.5	0.699	64.6	-2.36
Ethylbenzene	µg/tube	3.95 ± 0.214	6.99 ± 3.5	0.711	177	4.28
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	6.3 ± 3.15	0.63	180	4.45
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	13.15 ± 7.5	1.38	182	4.30
Toluene	µg/tube	4.48 ± 0.261	0.6 ± 0.3	0.672	13.4	-5.77

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.64 ± 2.8	0.856	105	0.34
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.14 ± 1.55	1.43	81.3	-0.50
Tetrachloroethene	µg/tube	3.66 ± 0.543	5.2 ± 2.6	1.06	142	1.46
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.54 ± 3.25	0.948	104	0.23
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	1.58 ± 0.78	0.621	38.2	-4.12
Trichloroethene	µg/tube	4.49 ± 0.313	5.3 ± 2.55	1.12	118	0.72
Trichloromethane	µg/tube	4.64 ± 0.213	2.73 ± 1.35	0.649	58.9	-2.94

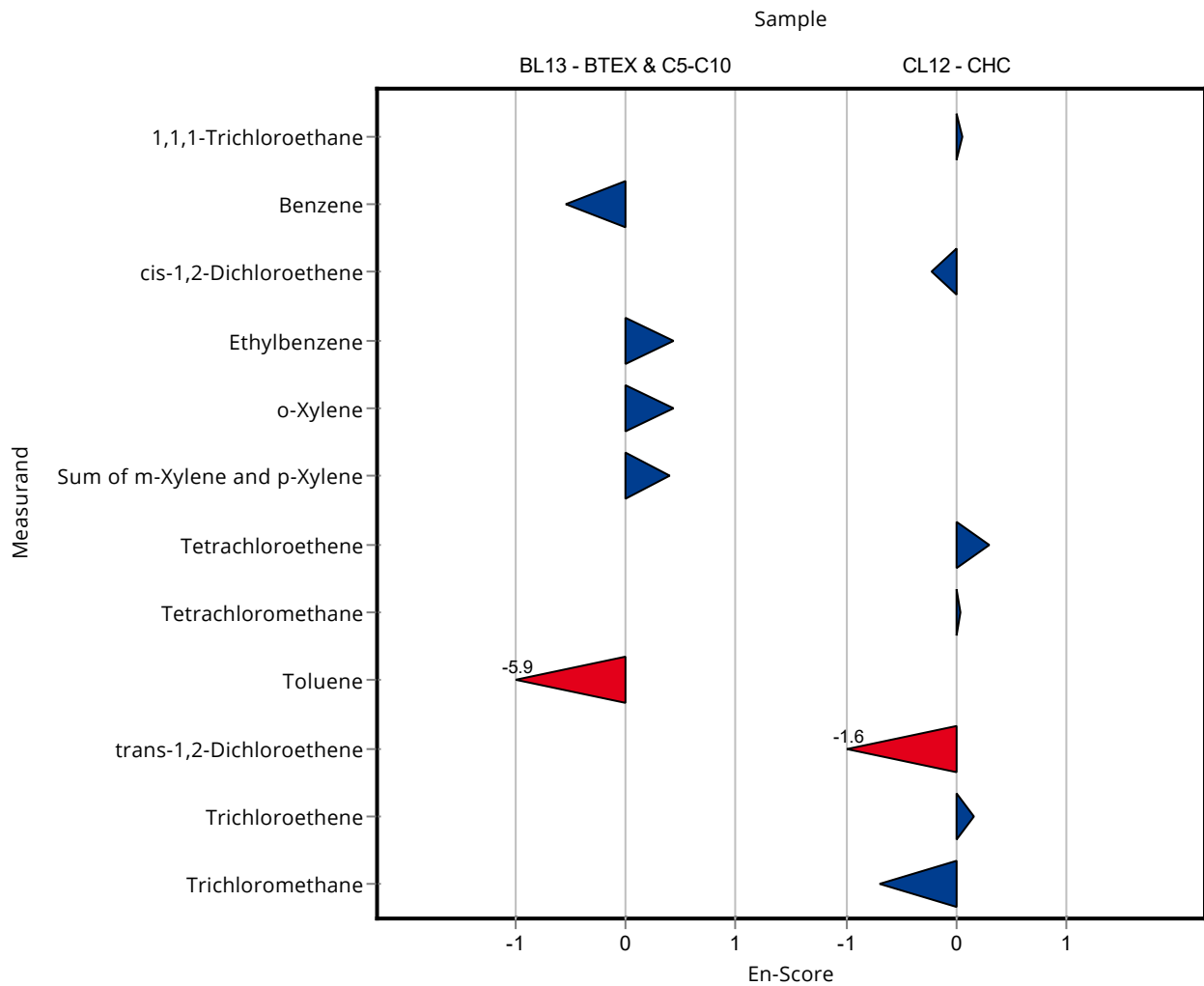


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	3.01 ± 1.5	0.699	64.6	-0.55
Ethylbenzene	µg/tube	3.95 ± 0.214	6.99 ± 3.5	0.711	177	0.43
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	6.3 ± 3.15	0.63	180	0.44
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	13.15 ± 7.5	1.38	182	0.39
Toluene	µg/tube	4.48 ± 0.261	0.6 ± 0.3	0.672	13.4	-5.93

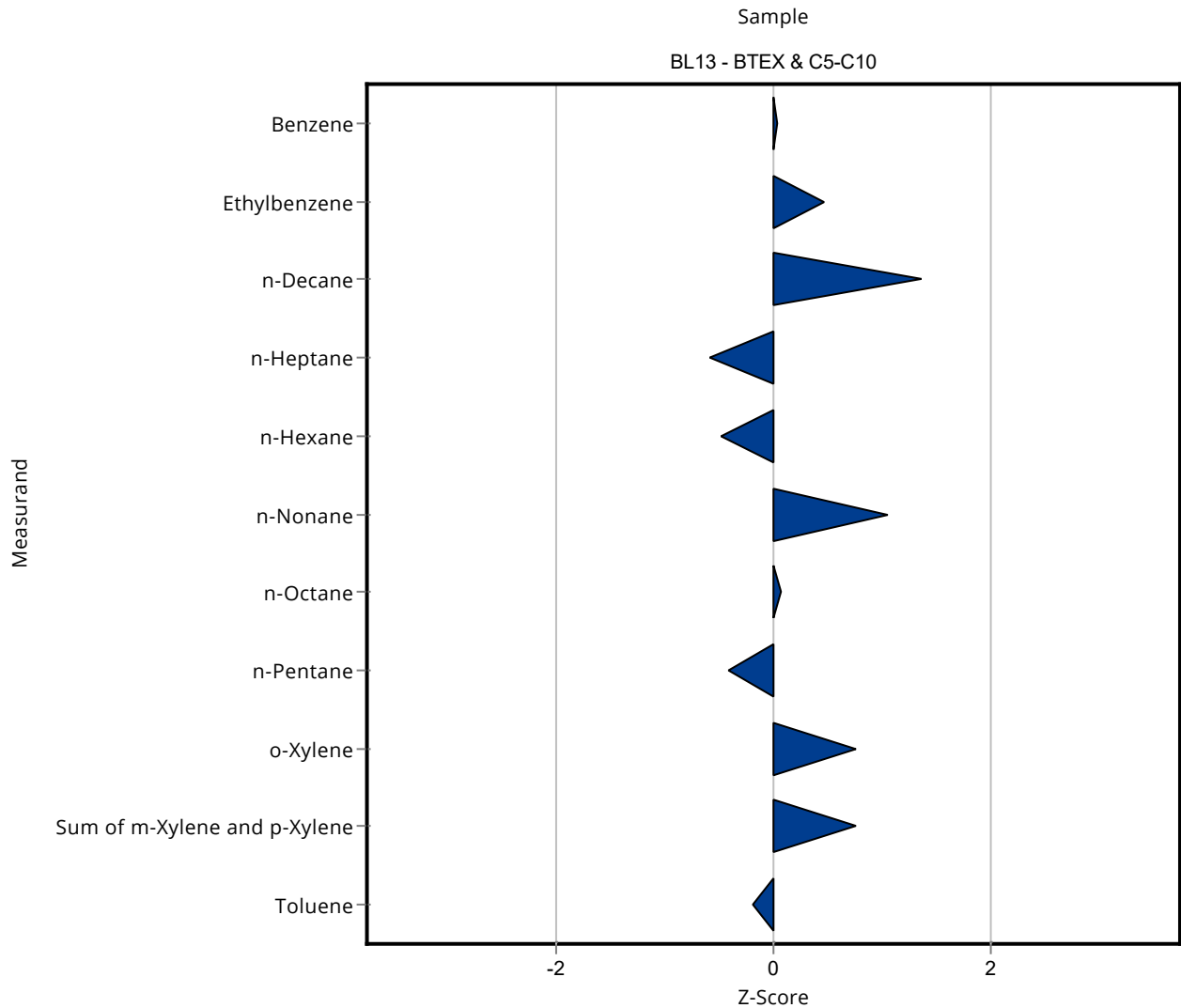
Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.64 ± 2.8	0.856	105	0.05
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.14 ± 1.55	1.43	81.3	-0.23
Tetrachloroethene	µg/tube	3.66 ± 0.543	5.2 ± 2.6	1.06	142	0.30
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.54 ± 3.25	0.948	104	0.03
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	1.58 ± 0.78	0.621	38.2	-1.63
Trichloroethene	µg/tube	4.49 ± 0.313	5.3 ± 2.55	1.12	118	0.16
Trichloromethane	µg/tube	4.64 ± 0.213	2.73 ± 1.35	0.649	58.9	-0.70



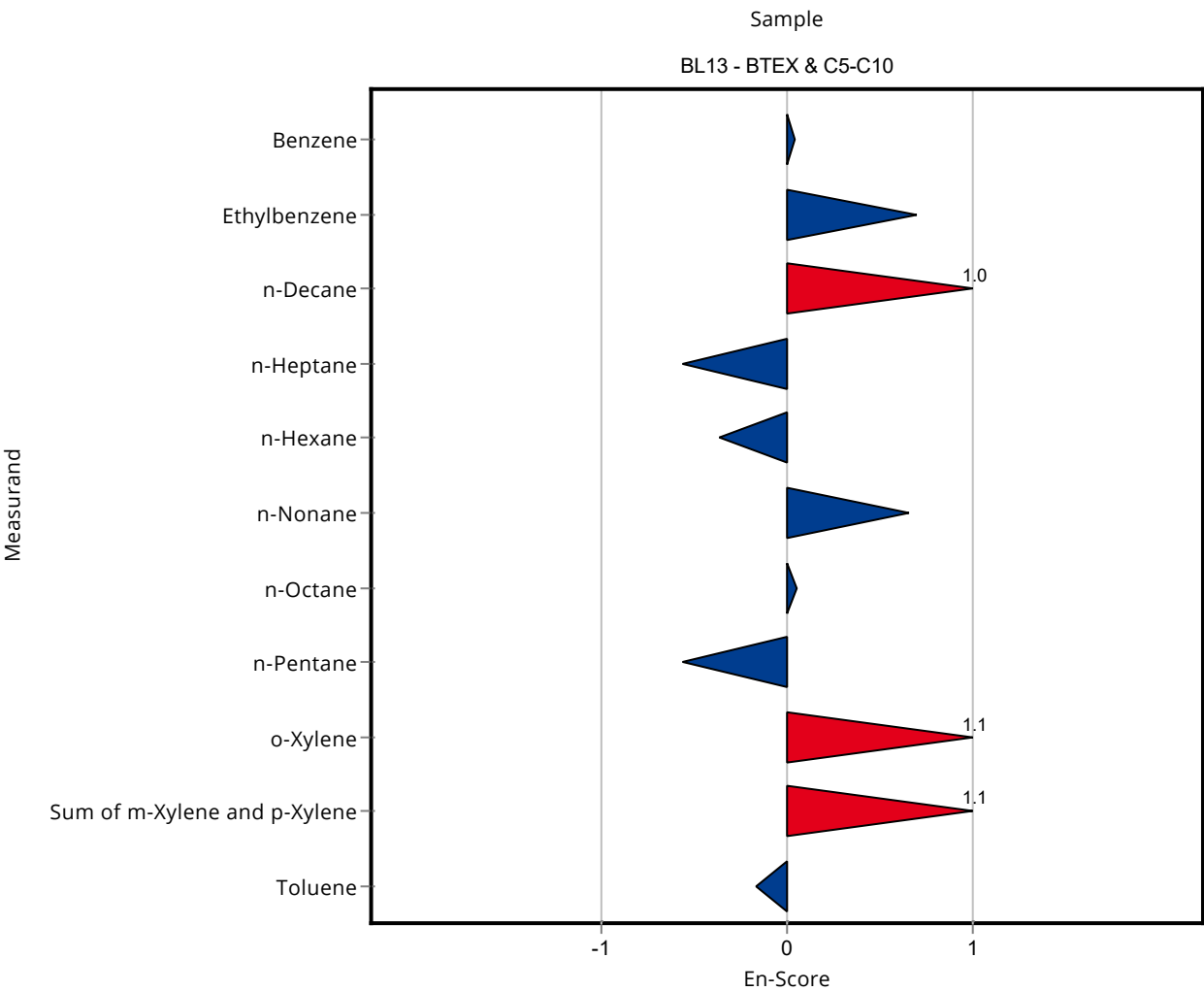
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.68 ± 0.26	0.699	100	0.03
Ethylbenzene	µg/tube	3.95 ± 0.214	4.28 ± 0.21	0.711	108	0.46
n-Decane	µg/tube	1.95 ± 0.231	2.5 ± 0.25	0.408	129	1.36
n-Heptane	µg/tube	6.16 ± 0.421	5.5 ± 0.55	1.11	89.3	-0.60
n-Hexane	µg/tube	6.33 ± 0.621	5.85 ± 0.59	1.01	92.3	-0.48
n-Nonane	µg/tube	3.97 ± 0.271	4.6 ± 0.46	0.595	116	1.06
n-Octane	µg/tube	5.37 ± 0.273	5.43 ± 0.6	0.913	101	0.07
n-Pentane	µg/tube	6 ± 0.812	5.25 ± 0.53	1.8	87.4	-0.42
o-Xylene	µg/tube	3.5 ± 0.218	3.98 ± 0.19	0.63	114	0.76
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.28 ± 0.41	1.38	114	0.76
Toluene	µg/tube	4.48 ± 0.261	4.35 ± 0.37	0.672	97.1	-0.19



Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.68 ± 0.26	0.699	100	0.04
Ethylbenzene	µg/tube	3.95 ± 0.214	4.28 ± 0.21	0.711	108	0.70
n-Decane	µg/tube	1.95 ± 0.231	2.5 ± 0.25	0.408	129	1.01
n-Heptane	µg/tube	6.16 ± 0.421	5.5 ± 0.55	1.11	89.3	-0.56
n-Hexane	µg/tube	6.33 ± 0.621	5.85 ± 0.59	1.01	92.3	-0.36
n-Nonane	µg/tube	3.97 ± 0.271	4.6 ± 0.46	0.595	116	0.66
n-Octane	µg/tube	5.37 ± 0.273	5.43 ± 0.6	0.913	101	0.05
n-Pentane	µg/tube	6 ± 0.812	5.25 ± 0.53	1.8	87.4	-0.56
o-Xylene	µg/tube	3.5 ± 0.218	3.98 ± 0.19	0.63	114	1.10
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.28 ± 0.41	1.38	114	1.09
Toluene	µg/tube	4.48 ± 0.261	4.35 ± 0.37	0.672	97.1	-0.16

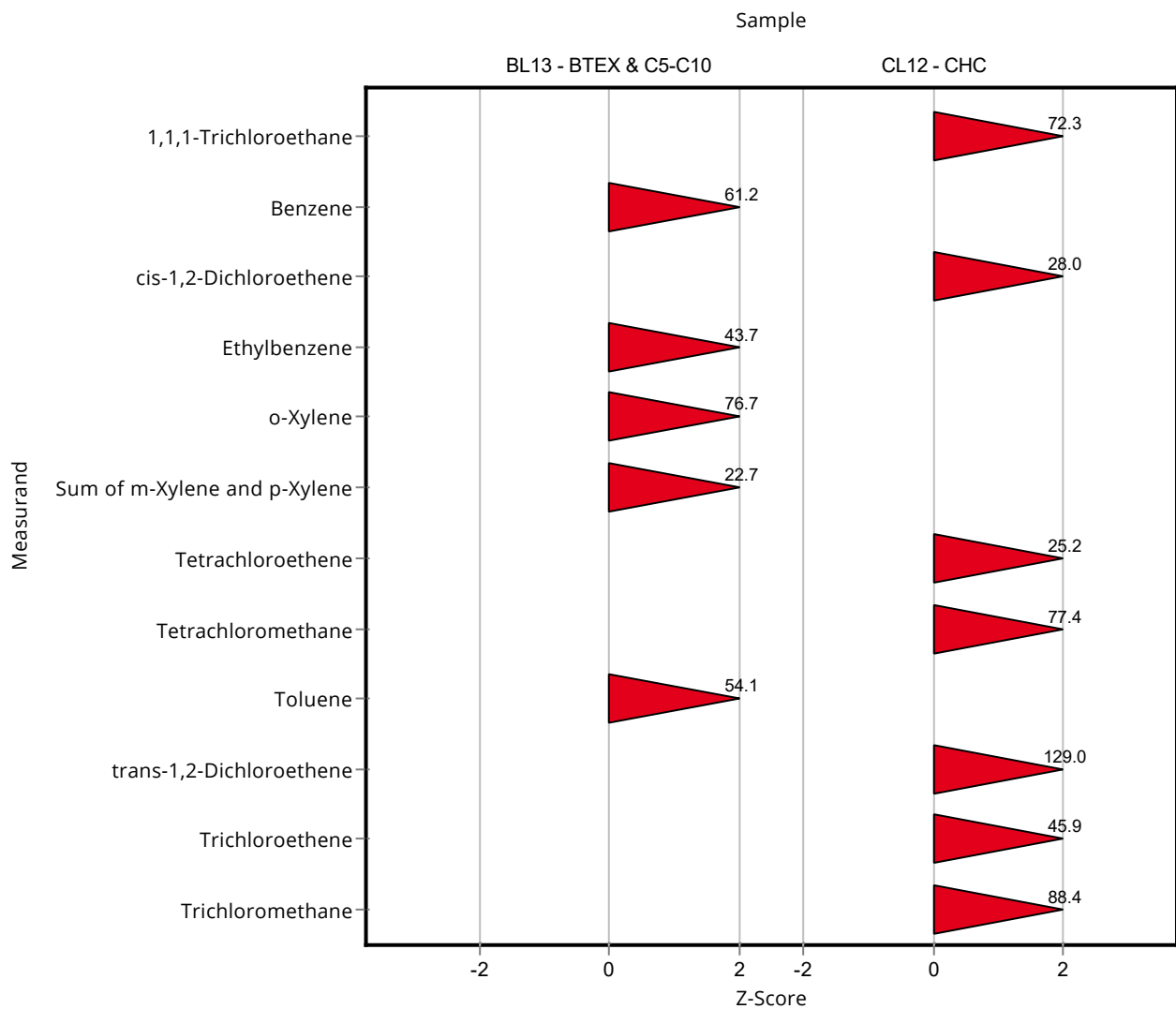


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	47.4 ± 3.1	0.699	1020	61.18
Ethylbenzene	µg/tube	3.95 ± 0.214	35 ± 2.9	0.711	886	43.67
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	51.8 ± 3.5	0.63	1480	76.68
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	38.4 ± 3	1.38	531	22.66
Toluene	µg/tube	4.48 ± 0.261	40.8 ± 3.5	0.672	911	54.07

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	67.3 ± 4.7	0.856	1260	72.33
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	43.9 ± 3.2	1.43	1140	28.03
Tetrachloroethene	µg/tube	3.66 ± 0.543	30.4 ± 1.9	1.06	832	25.23
Tetrachloromethane	µg/tube	6.32 ± 0.385	79.7 ± 6	0.948	1260	77.44
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	84.2 ± 6.9	0.621	2040	129.03
Trichloroethene	µg/tube	4.49 ± 0.313	56 ± 3.9	1.12	1250	45.87
Trichloromethane	µg/tube	4.64 ± 0.213	62 ± 4.3	0.649	1340	88.36

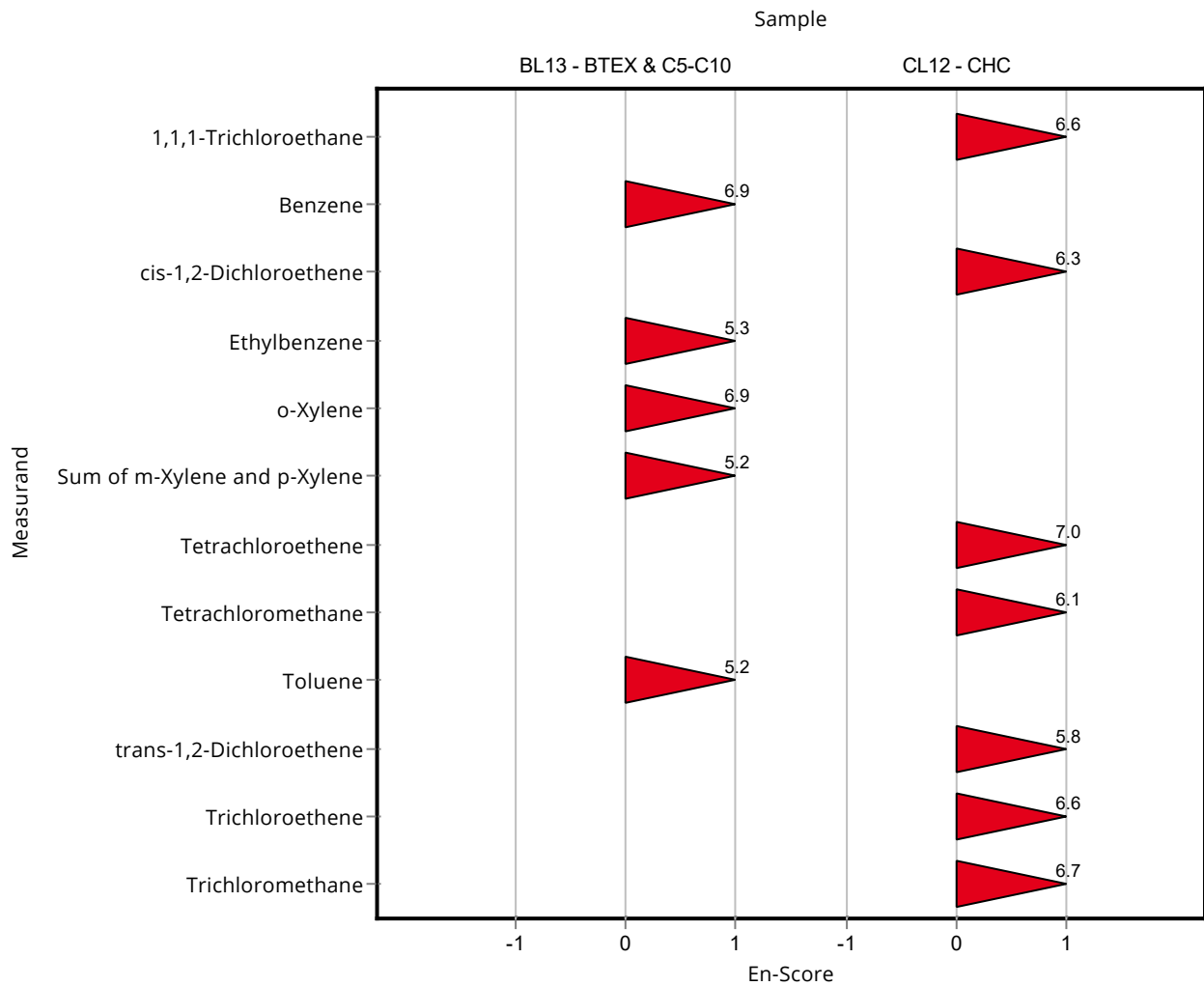


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	47.4 ± 3.1	0.699	1020	6.88
Ethylbenzene	µg/tube	3.95 ± 0.214	35 ± 2.9	0.711	886	5.35
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	51.8 ± 3.5	0.63	1480	6.90
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	38.4 ± 3	1.38	531	5.18
Toluene	µg/tube	4.48 ± 0.261	40.8 ± 3.5	0.672	911	5.19

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	67.3 ± 4.7	0.856	1260	6.59
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	43.9 ± 3.2	1.43	1140	6.25
Tetrachloroethene	µg/tube	3.66 ± 0.543	30.4 ± 1.9	1.06	832	6.97
Tetrachloromethane	µg/tube	6.32 ± 0.385	79.7 ± 6	0.948	1260	6.11
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	84.2 ± 6.9	0.621	2040	5.80
Trichloroethene	µg/tube	4.49 ± 0.313	56 ± 3.9	1.12	1250	6.60
Trichloromethane	µg/tube	4.64 ± 0.213	62 ± 4.3	0.649	1340	6.67

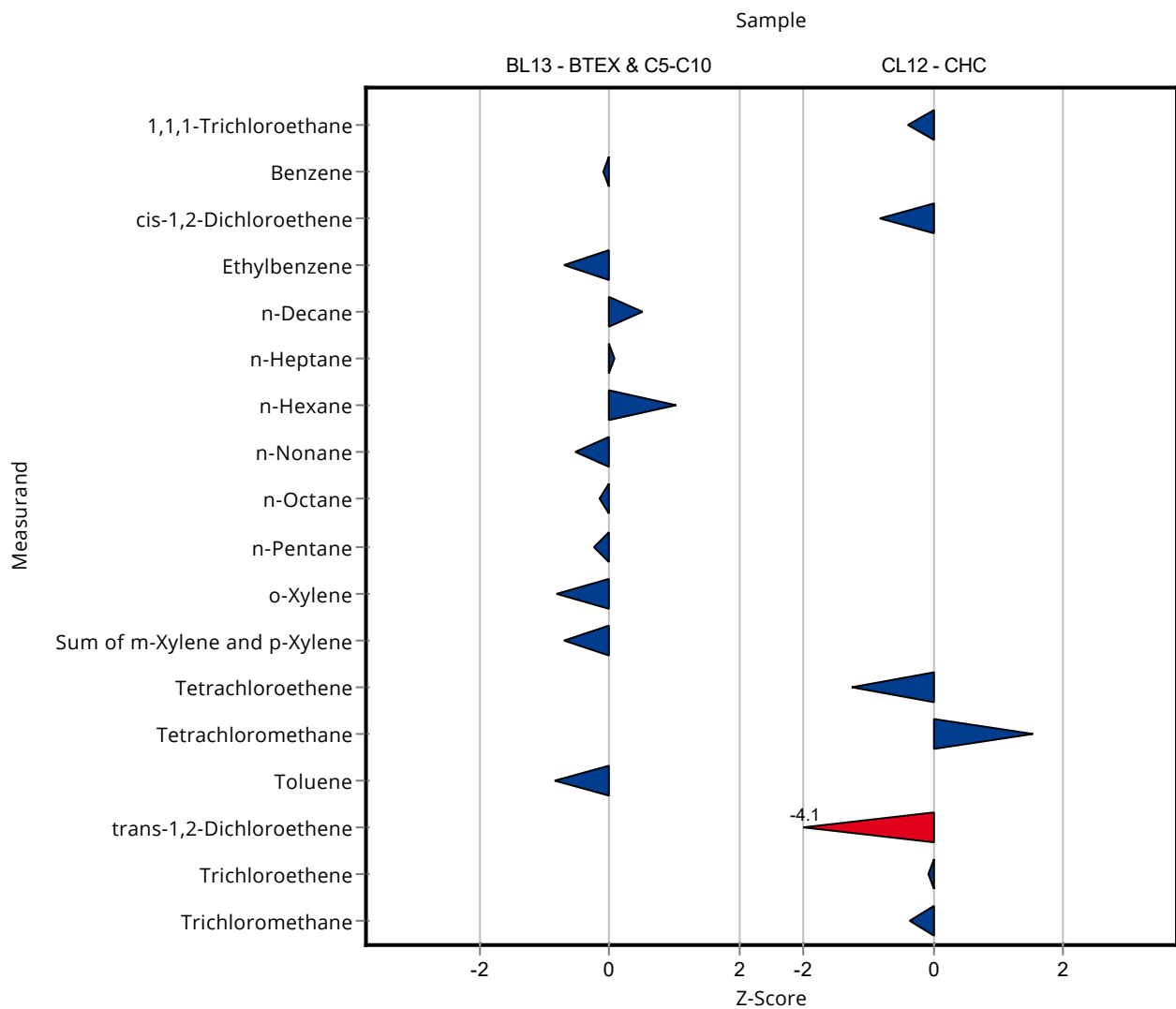


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.594 ± 0.458	0.699	98.6	-0.09
Ethylbenzene	µg/tube	3.95 ± 0.214	3.452 ± 0.177	0.711	87.4	-0.70
n-Decane	µg/tube	1.95 ± 0.231	2.156 ± 0.151	0.408	111	0.52
n-Heptane	µg/tube	6.16 ± 0.421	6.242 ± 0.457	1.11	101	0.07
n-Hexane	µg/tube	6.33 ± 0.621	7.368 ± 0.817	1.01	116	1.02
n-Nonane	µg/tube	3.97 ± 0.271	3.65 ± 0.261	0.595	92	-0.54
n-Octane	µg/tube	5.37 ± 0.273	5.237 ± 0.375	0.913	97.5	-0.14
n-Pentane	µg/tube	6 ± 0.812	5.575 ± 0.191	1.8	92.9	-0.24
o-Xylene	µg/tube	3.5 ± 0.218	2.996 ± 0.156	0.63	85.6	-0.80
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.287 ± 0.351	1.38	86.9	-0.69
Toluene	µg/tube	4.48 ± 0.261	3.918 ± 0.222	0.672	87.5	-0.83

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.006 ± 0.343	0.856	93.5	-0.40
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	2.668 ± 0.157	1.43	69.1	-0.83
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.33 ± 0.181	1.06	63.7	-1.25
Tetrachloromethane	µg/tube	6.32 ± 0.385	7.764 ± 0.626	0.948	123	1.53
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	1.609 ± 0.095	0.621	38.9	-4.07
Trichloroethene	µg/tube	4.49 ± 0.313	4.397 ± 0.281	1.12	97.9	-0.08
Trichloromethane	µg/tube	4.64 ± 0.213	4.394 ± 0.293	0.649	94.8	-0.37

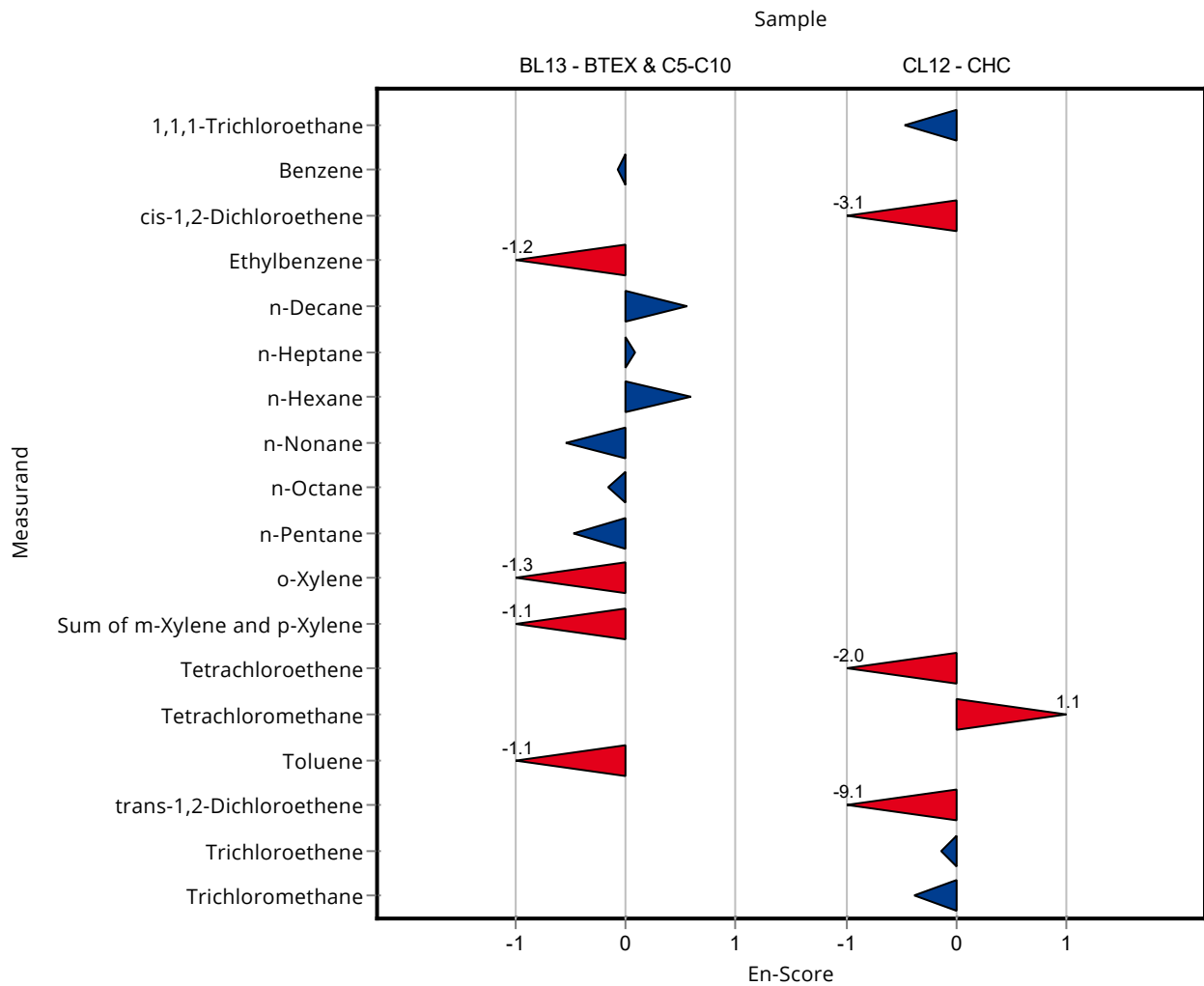


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.594 ± 0.458	0.699	98.6	-0.07
Ethylbenzene	µg/tube	3.95 ± 0.214	3.452 ± 0.177	0.711	87.4	-1.20
n-Decane	µg/tube	1.95 ± 0.231	2.156 ± 0.151	0.408	111	0.55
n-Heptane	µg/tube	6.16 ± 0.421	6.242 ± 0.457	1.11	101	0.08
n-Hexane	µg/tube	6.33 ± 0.621	7.368 ± 0.817	1.01	116	0.59
n-Nonane	µg/tube	3.97 ± 0.271	3.65 ± 0.261	0.595	92	-0.54
n-Octane	µg/tube	5.37 ± 0.273	5.237 ± 0.375	0.913	97.5	-0.17
n-Pentane	µg/tube	6 ± 0.812	5.575 ± 0.191	1.8	92.9	-0.48
o-Xylene	µg/tube	3.5 ± 0.218	2.996 ± 0.156	0.63	85.6	-1.32
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.287 ± 0.351	1.38	86.9	-1.10
Toluene	µg/tube	4.48 ± 0.261	3.918 ± 0.222	0.672	87.5	-1.09

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.006 ± 0.343	0.856	93.5	-0.47
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	2.668 ± 0.157	1.43	69.1	-3.08
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.33 ± 0.181	1.06	63.7	-2.03
Tetrachloromethane	µg/tube	6.32 ± 0.385	7.764 ± 0.626	0.948	123	1.10
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	1.609 ± 0.095	0.621	38.9	-9.08
Trichloroethene	µg/tube	4.49 ± 0.313	4.397 ± 0.281	1.12	97.9	-0.15
Trichloromethane	µg/tube	4.64 ± 0.213	4.394 ± 0.293	0.649	94.8	-0.39

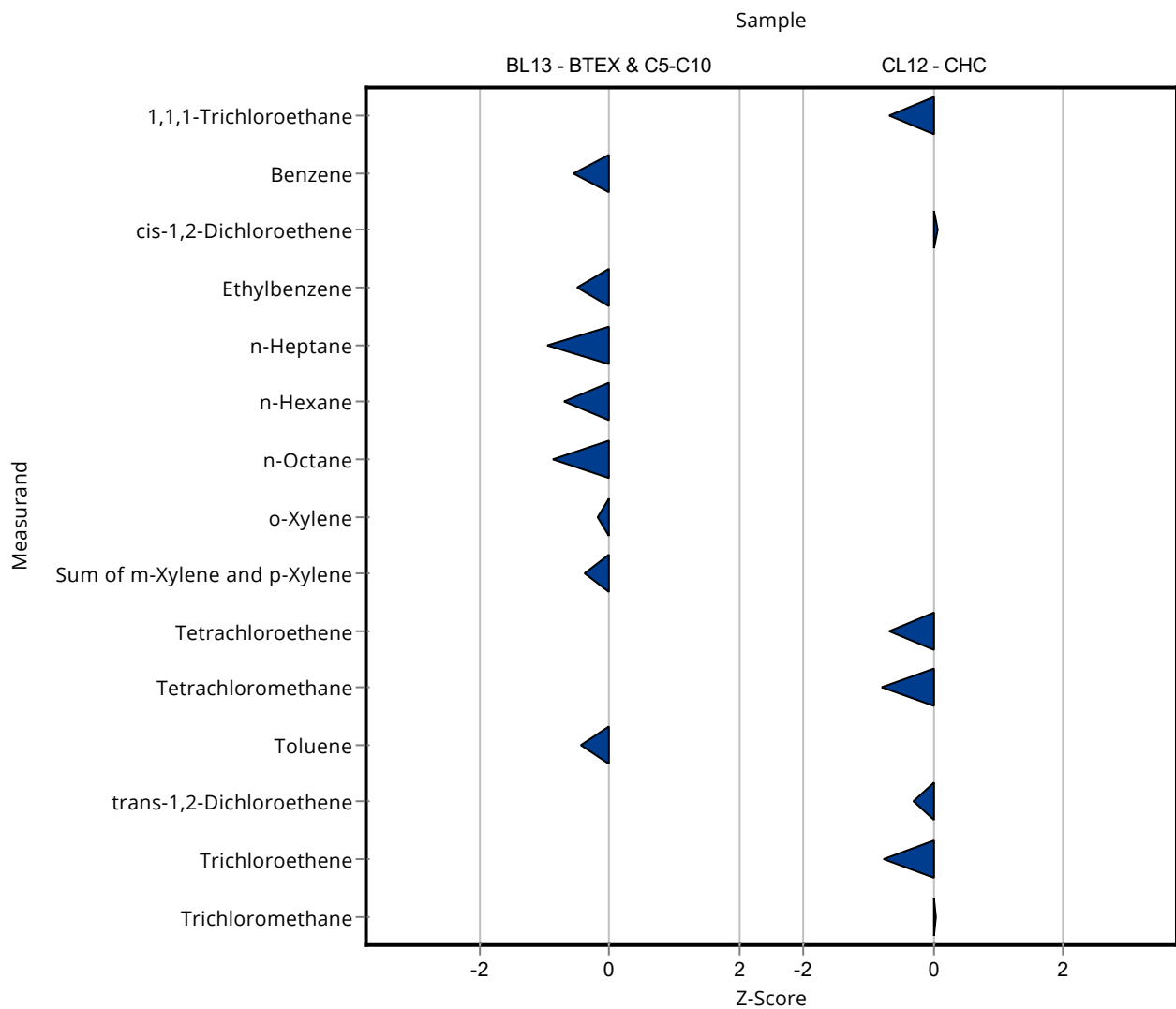


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.27 ± 0.64	0.699	91.7	-0.55
Ethylbenzene	µg/tube	3.95 ± 0.214	3.6 ± 0.36	0.711	91.1	-0.49
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	5.1 ± 0.77	1.11	82.8	-0.96
n-Hexane	µg/tube	6.33 ± 0.621	5.64 ± 1.13	1.01	89	-0.69
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	4.58 ± 0.69	0.913	85.3	-0.86
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.39 ± 0.34	0.63	96.9	-0.17
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.73 ± 0.67	1.38	93	-0.37
Toluene	µg/tube	4.48 ± 0.261	4.19 ± 0.63	0.672	93.6	-0.43

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.77 ± 0.48	0.856	89.1	-0.68
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.94 ± 0.39	1.43	102	0.06
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.94 ± 0.38	1.06	80.4	-0.68
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.56 ± 0.56	0.948	88	-0.80
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.95 ± 0.4	0.621	95.5	-0.30
Trichloroethene	µg/tube	4.49 ± 0.313	3.63 ± 0.55	1.12	80.8	-0.77
Trichloromethane	µg/tube	4.64 ± 0.213	4.66 ± 0.47	0.649	100	0.04

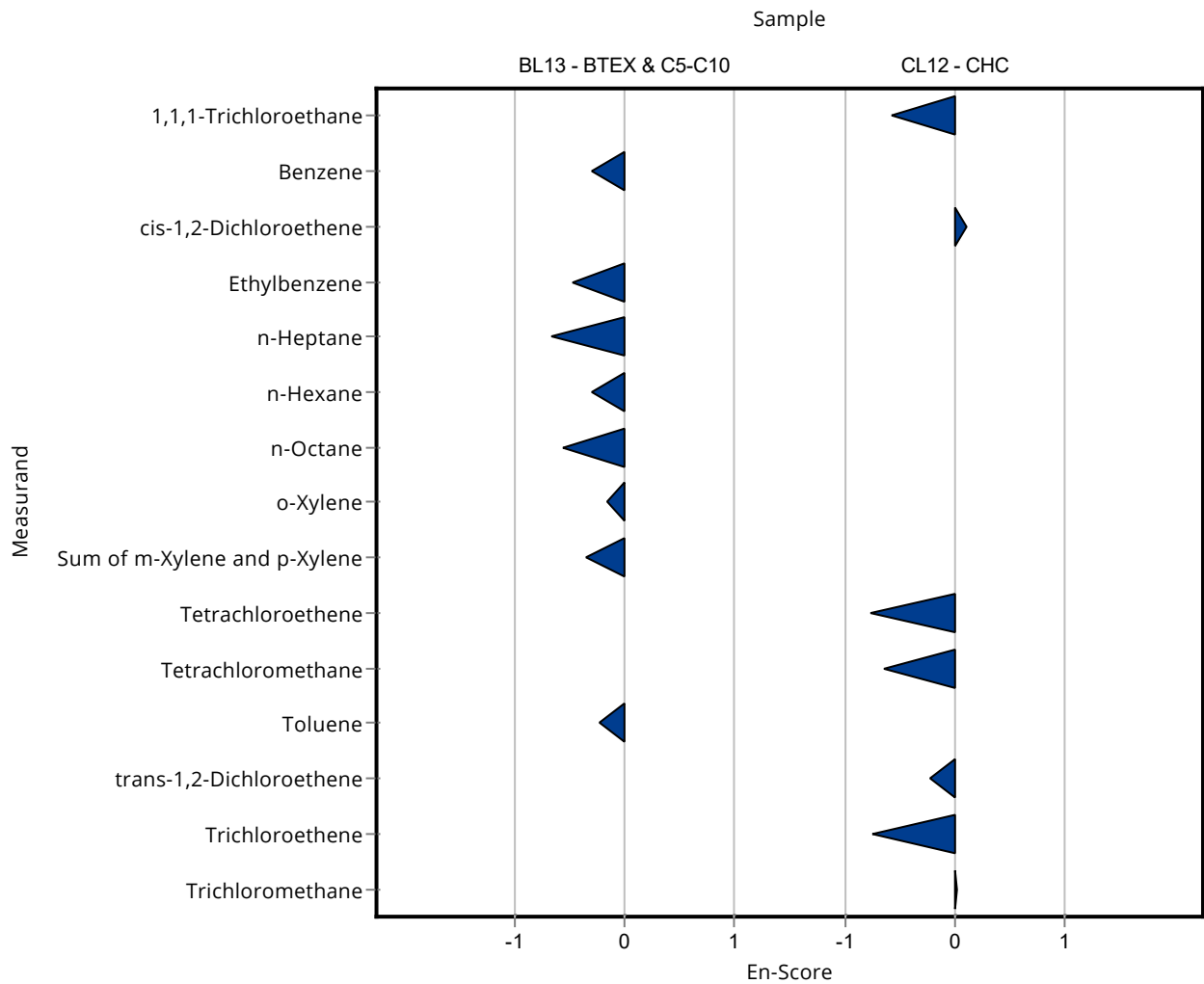


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.27 ± 0.64	0.699	91.7	-0.29
Ethylbenzene	µg/tube	3.95 ± 0.214	3.6 ± 0.36	0.711	91.1	-0.47
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	5.1 ± 0.77	1.11	82.8	-0.66
n-Hexane	µg/tube	6.33 ± 0.621	5.64 ± 1.13	1.01	89	-0.30
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	4.58 ± 0.69	0.913	85.3	-0.56
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.39 ± 0.34	0.63	96.9	-0.15
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.73 ± 0.67	1.38	93	-0.35
Toluene	µg/tube	4.48 ± 0.261	4.19 ± 0.63	0.672	93.6	-0.22

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.77 ± 0.48	0.856	89.1	-0.58
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.94 ± 0.39	1.43	102	0.10
Tetrachloroethene	µg/tube	3.66 ± 0.543	2.94 ± 0.38	1.06	80.4	-0.77
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.56 ± 0.56	0.948	88	-0.64
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.95 ± 0.4	0.621	95.5	-0.23
Trichloroethene	µg/tube	4.49 ± 0.313	3.63 ± 0.55	1.12	80.8	-0.75
Trichloromethane	µg/tube	4.64 ± 0.213	4.66 ± 0.47	0.649	100	0.02

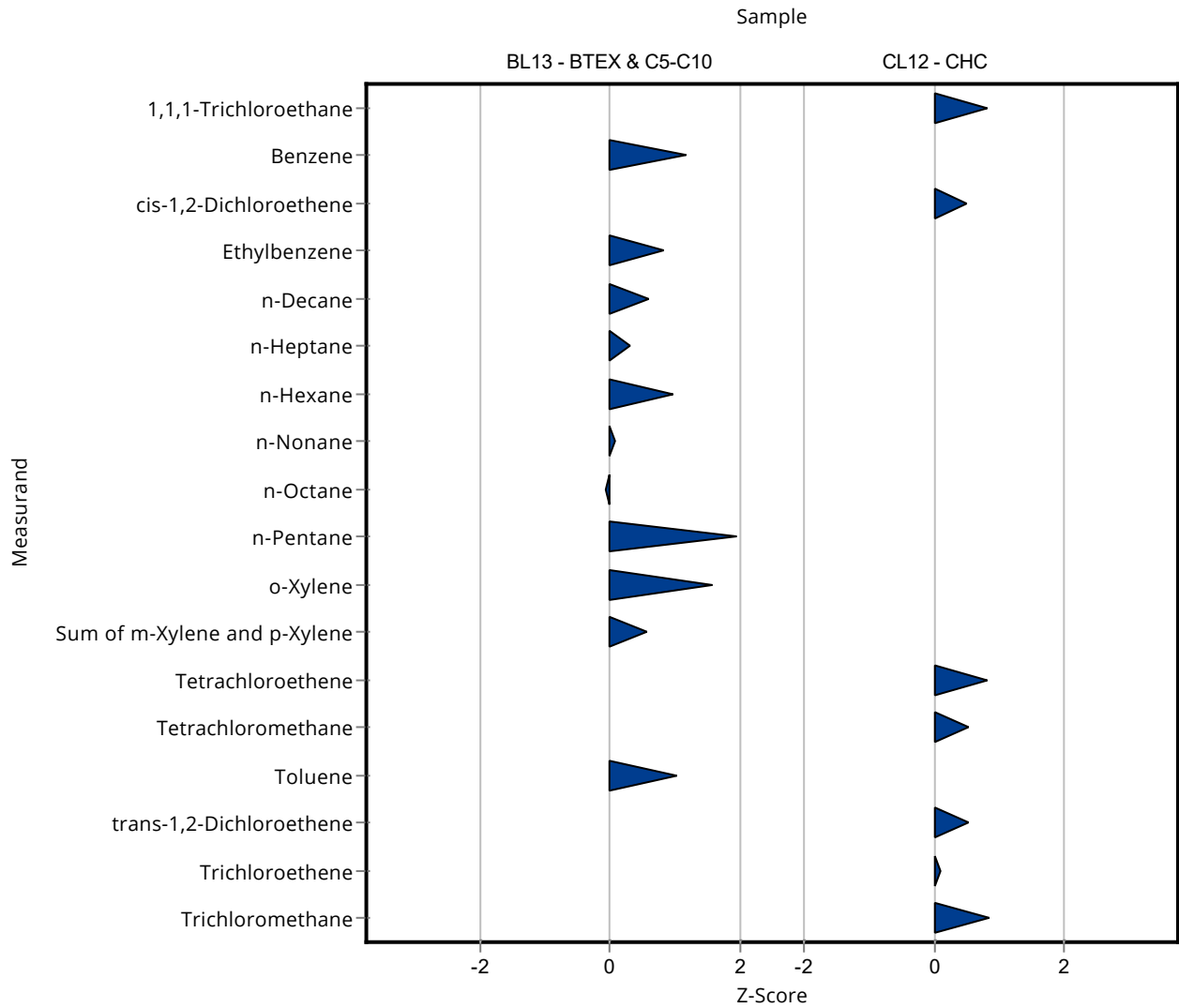


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.48 ± 1.21	0.699	118	1.18
Ethylbenzene	µg/tube	3.95 ± 0.214	4.53 ± 1.04	0.711	115	0.82
n-Decane	µg/tube	1.95 ± 0.231	2.19 ± 0.77	0.408	113	0.60
n-Heptane	µg/tube	6.16 ± 0.421	6.52 ± 1.83	1.11	106	0.32
n-Hexane	µg/tube	6.33 ± 0.621	7.33 ± 2.64	1.01	116	0.98
n-Nonane	µg/tube	3.97 ± 0.271	4.02 ± 1.13	0.595	101	0.09
n-Octane	µg/tube	5.37 ± 0.273	5.32 ± 1.86	0.913	99.1	-0.05
n-Pentane	µg/tube	6 ± 0.812	9.53 ± 4.19	1.8	159	1.96
o-Xylene	µg/tube	3.5 ± 0.218	4.5 ± 0.9	0.63	129	1.59
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.02 ± 1.6	1.38	111	0.57
Toluene	µg/tube	4.48 ± 0.261	5.17 ± 1.19	0.672	115	1.03

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.05 ± 1.09	0.856	113	0.81
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.55 ± 1	1.43	118	0.48
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.53 ± 1.09	1.06	124	0.82
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.81 ± 1.63	0.948	108	0.52
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.46 ± 0.89	0.621	108	0.52
Trichloroethene	µg/tube	4.49 ± 0.313	4.6 ± 0.92	1.12	102	0.10
Trichloromethane	µg/tube	4.64 ± 0.213	5.18 ± 1.4	0.649	112	0.84

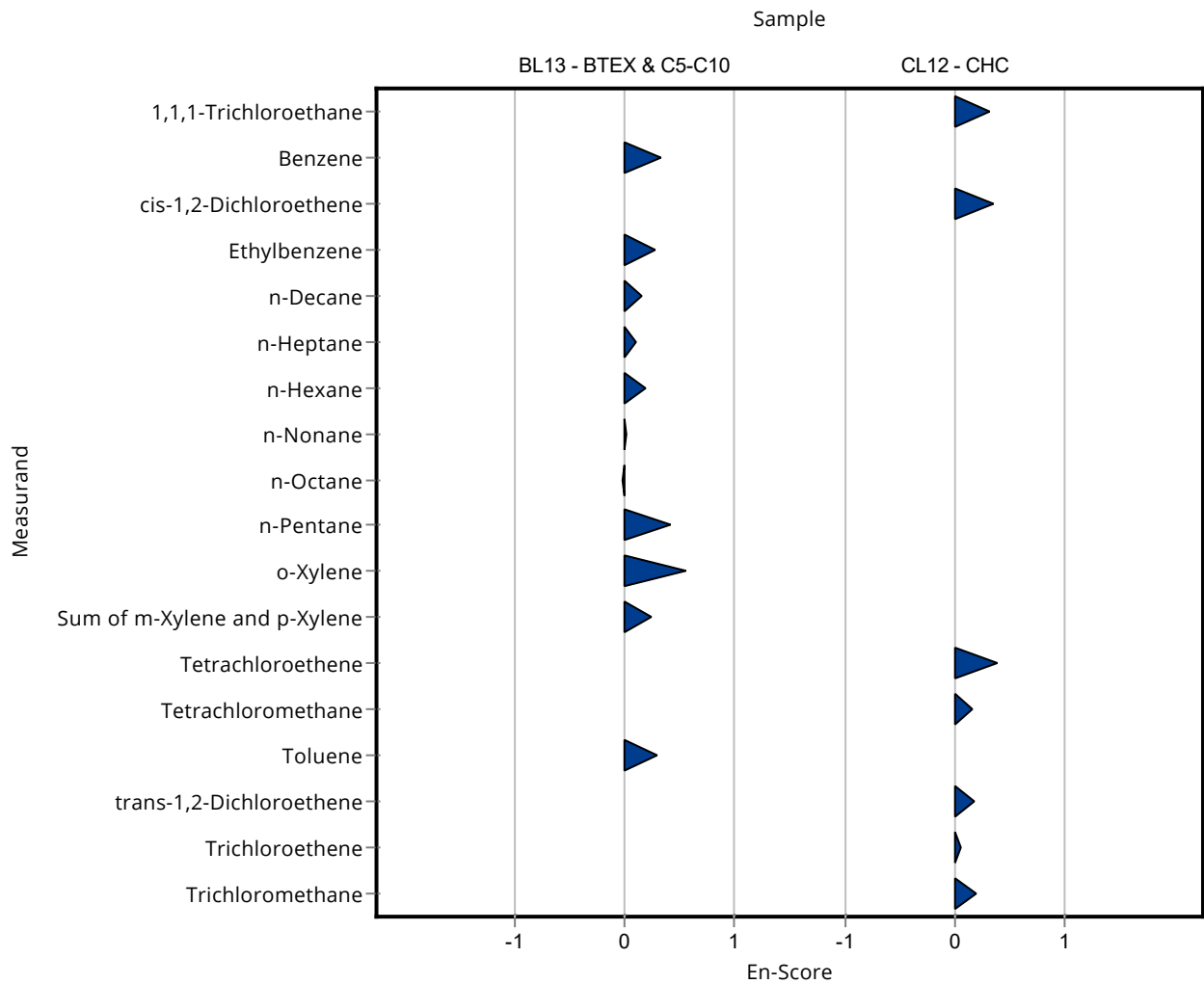


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.48 ± 1.21	0.699	118	0.34
Ethylbenzene	µg/tube	3.95 ± 0.214	4.53 ± 1.04	0.711	115	0.28
n-Decane	µg/tube	1.95 ± 0.231	2.19 ± 0.77	0.408	113	0.16
n-Heptane	µg/tube	6.16 ± 0.421	6.52 ± 1.83	1.11	106	0.10
n-Hexane	µg/tube	6.33 ± 0.621	7.33 ± 2.64	1.01	116	0.19
n-Nonane	µg/tube	3.97 ± 0.271	4.02 ± 1.13	0.595	101	0.02
n-Octane	µg/tube	5.37 ± 0.273	5.32 ± 1.86	0.913	99.1	-0.01
n-Pentane	µg/tube	6 ± 0.812	9.53 ± 4.19	1.8	159	0.42
o-Xylene	µg/tube	3.5 ± 0.218	4.5 ± 0.9	0.63	129	0.55
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.02 ± 1.6	1.38	111	0.24
Toluene	µg/tube	4.48 ± 0.261	5.17 ± 1.19	0.672	115	0.29

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.05 ± 1.09	0.856	113	0.32
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.55 ± 1	1.43	118	0.34
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.53 ± 1.09	1.06	124	0.39
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.81 ± 1.63	0.948	108	0.15
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.46 ± 0.89	0.621	108	0.18
Trichloroethene	µg/tube	4.49 ± 0.313	4.6 ± 0.92	1.12	102	0.06
Trichloromethane	µg/tube	4.64 ± 0.213	5.18 ± 1.4	0.649	112	0.19

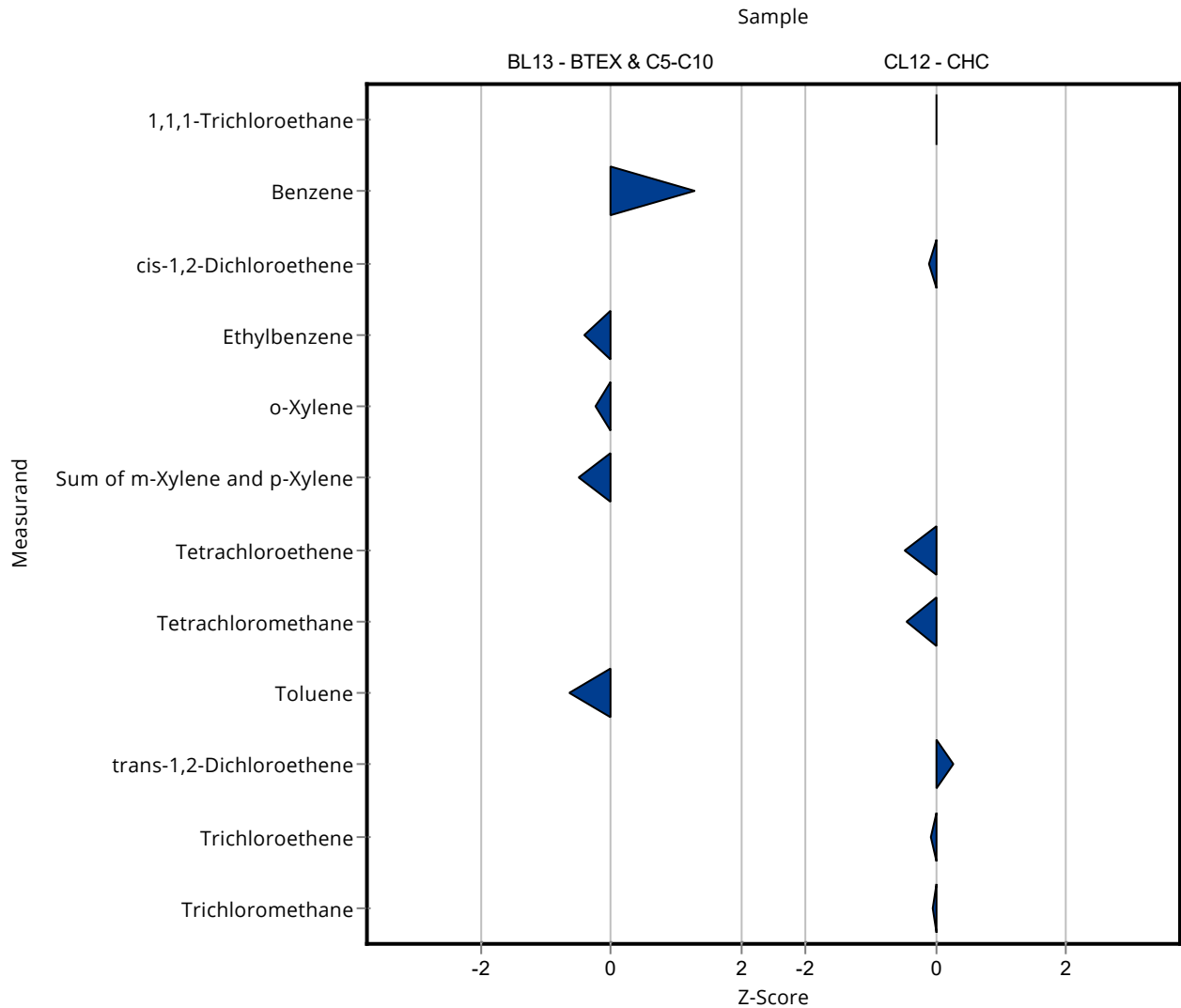


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.55 ± 1	0.699	119	1.28
Ethylbenzene	µg/tube	3.95 ± 0.214	3.65 ± 0.73	0.711	92.4	-0.42
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.35 ± 0.67	0.63	95.7	-0.24
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.55 ± 1.3	1.38	90.5	-0.50
Toluene	µg/tube	4.48 ± 0.261	4.05 ± 0.81	0.672	90.4	-0.64

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.35 ± 1.4	0.856	100	0.00
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.7 ± 0.94	1.43	95.8	-0.11
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.15 ± 0.8	1.06	86.2	-0.48
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.9 ± 1.5	0.948	93.4	-0.44
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.3 ± 1.1	0.621	104	0.26
Trichloroethene	µg/tube	4.49 ± 0.313	4.4 ± 1.1	1.12	98	-0.08
Trichloromethane	µg/tube	4.64 ± 0.213	4.6 ± 1.2	0.649	99.2	-0.06

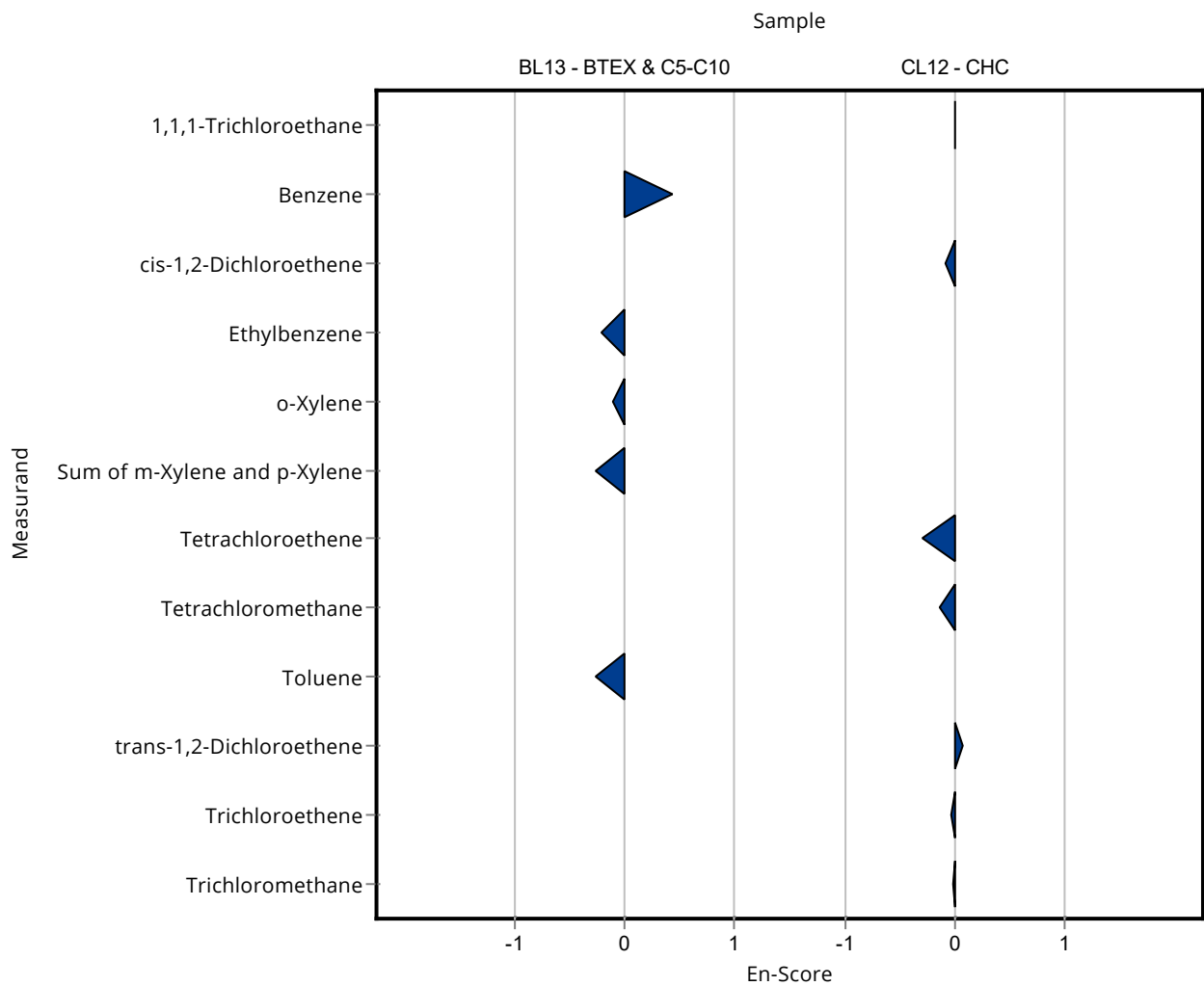


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.55 ± 1	0.699	119	0.44
Ethylbenzene	µg/tube	3.95 ± 0.214	3.65 ± 0.73	0.711	92.4	-0.20
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.35 ± 0.67	0.63	95.7	-0.11
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.55 ± 1.3	1.38	90.5	-0.26
Toluene	µg/tube	4.48 ± 0.261	4.05 ± 0.81	0.672	90.4	-0.26

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.35 ± 1.4	0.856	100	0.00
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.7 ± 0.94	1.43	95.8	-0.08
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.15 ± 0.8	1.06	86.2	-0.30
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.9 ± 1.5	0.948	93.4	-0.14
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.3 ± 1.1	0.621	104	0.07
Trichloroethene	µg/tube	4.49 ± 0.313	4.4 ± 1.1	1.12	98	-0.04
Trichloromethane	µg/tube	4.64 ± 0.213	4.6 ± 1.2	0.649	99.2	-0.02

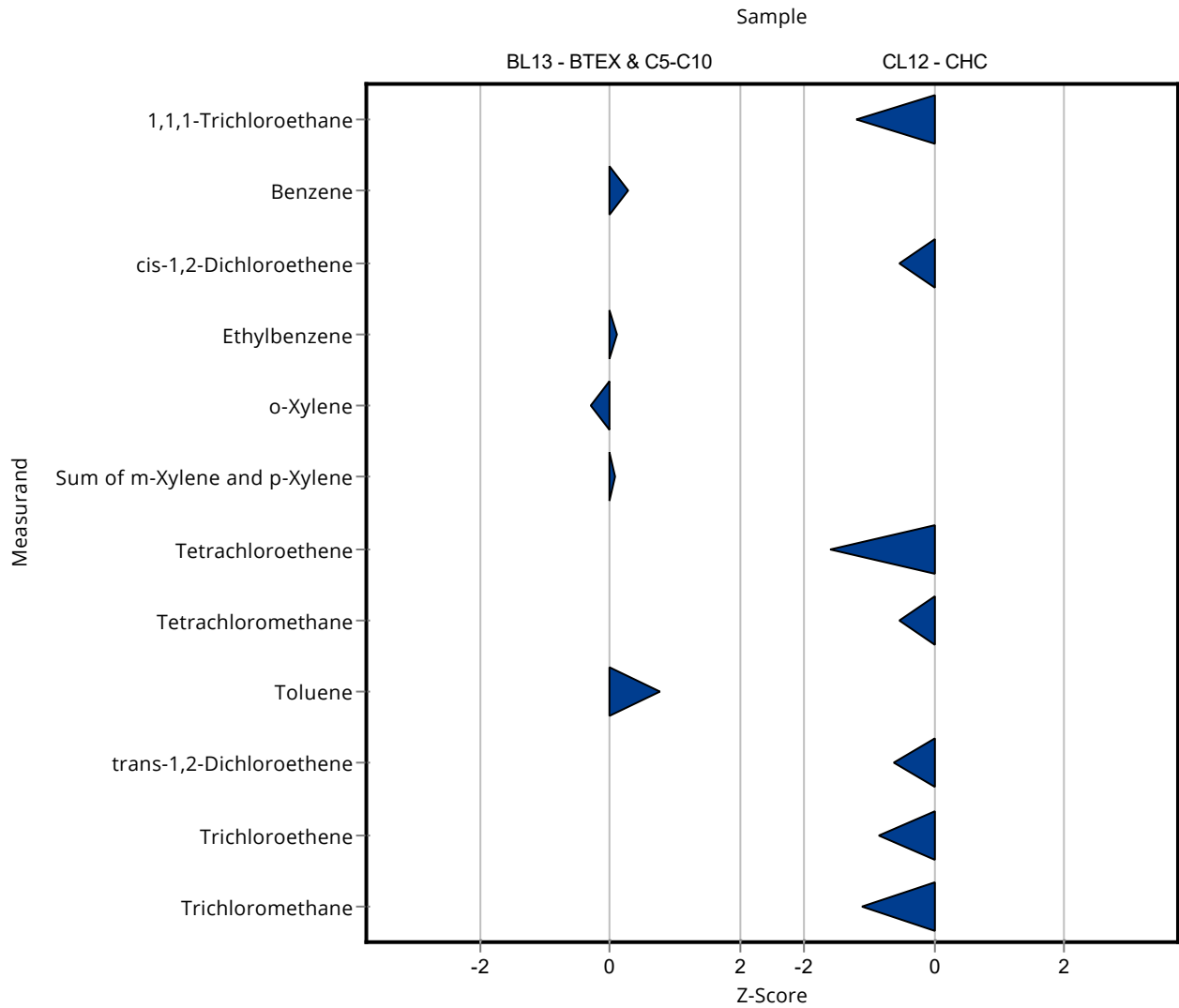


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.86 ± 0.486	0.699	104	0.29
Ethylbenzene	µg/tube	3.95 ± 0.214	4.034 ± 0.403	0.711	102	0.12
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.319 ± 0.465	0.63	94.8	-0.29
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.343 ± 1.028	1.38	101	0.08
Toluene	µg/tube	4.48 ± 0.261	5.003 ± 0.7	0.672	112	0.78

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.32 ± 0.302	0.856	80.7	-1.21
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.101 ± 0.217	1.43	80.3	-0.53
Tetrachloroethene	µg/tube	3.66 ± 0.543	1.967 ± 0.138	1.06	53.8	-1.59
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.807 ± 0.406	0.948	91.9	-0.54
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.739 ± 0.262	0.621	90.4	-0.64
Trichloroethene	µg/tube	4.49 ± 0.313	3.523 ± 0.247	1.12	78.4	-0.86
Trichloromethane	µg/tube	4.64 ± 0.213	3.909 ± 0.274	0.649	84.3	-1.12

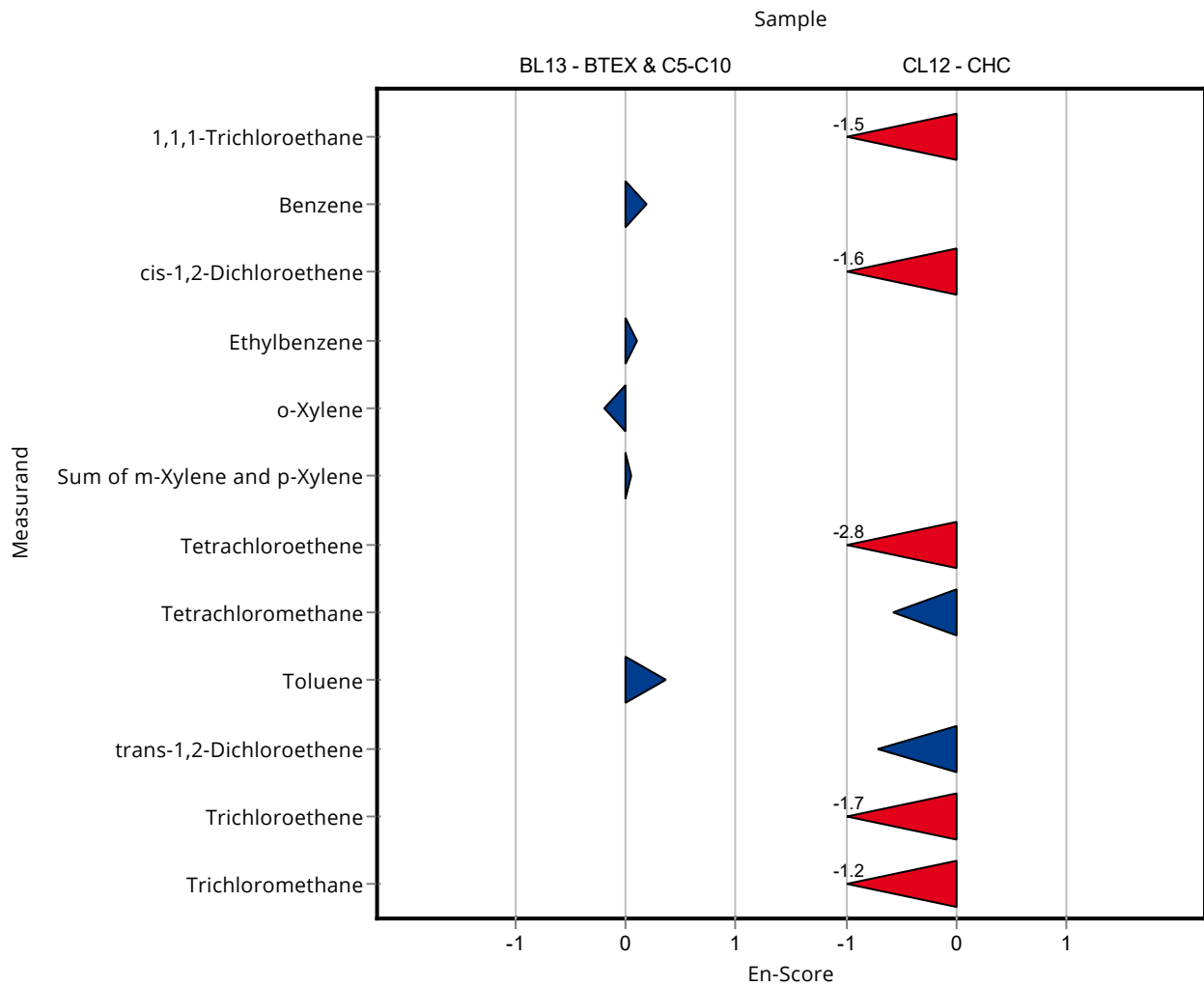


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.86 ± 0.486	0.699	104	0.20
Ethylbenzene	µg/tube	3.95 ± 0.214	4.034 ± 0.403	0.711	102	0.10
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.319 ± 0.465	0.63	94.8	-0.19
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.343 ± 1.028	1.38	101	0.05
Toluene	µg/tube	4.48 ± 0.261	5.003 ± 0.7	0.672	112	0.37

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.32 ± 0.302	0.856	80.7	-1.55
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.101 ± 0.217	1.43	80.3	-1.55
Tetrachloroethene	µg/tube	3.66 ± 0.543	1.967 ± 0.138	1.06	53.8	-2.77
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.807 ± 0.406	0.948	91.9	-0.57
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.739 ± 0.262	0.621	90.4	-0.71
Trichloroethene	µg/tube	4.49 ± 0.313	3.523 ± 0.247	1.12	78.4	-1.66
Trichloromethane	µg/tube	4.64 ± 0.213	3.909 ± 0.274	0.649	84.3	-1.24

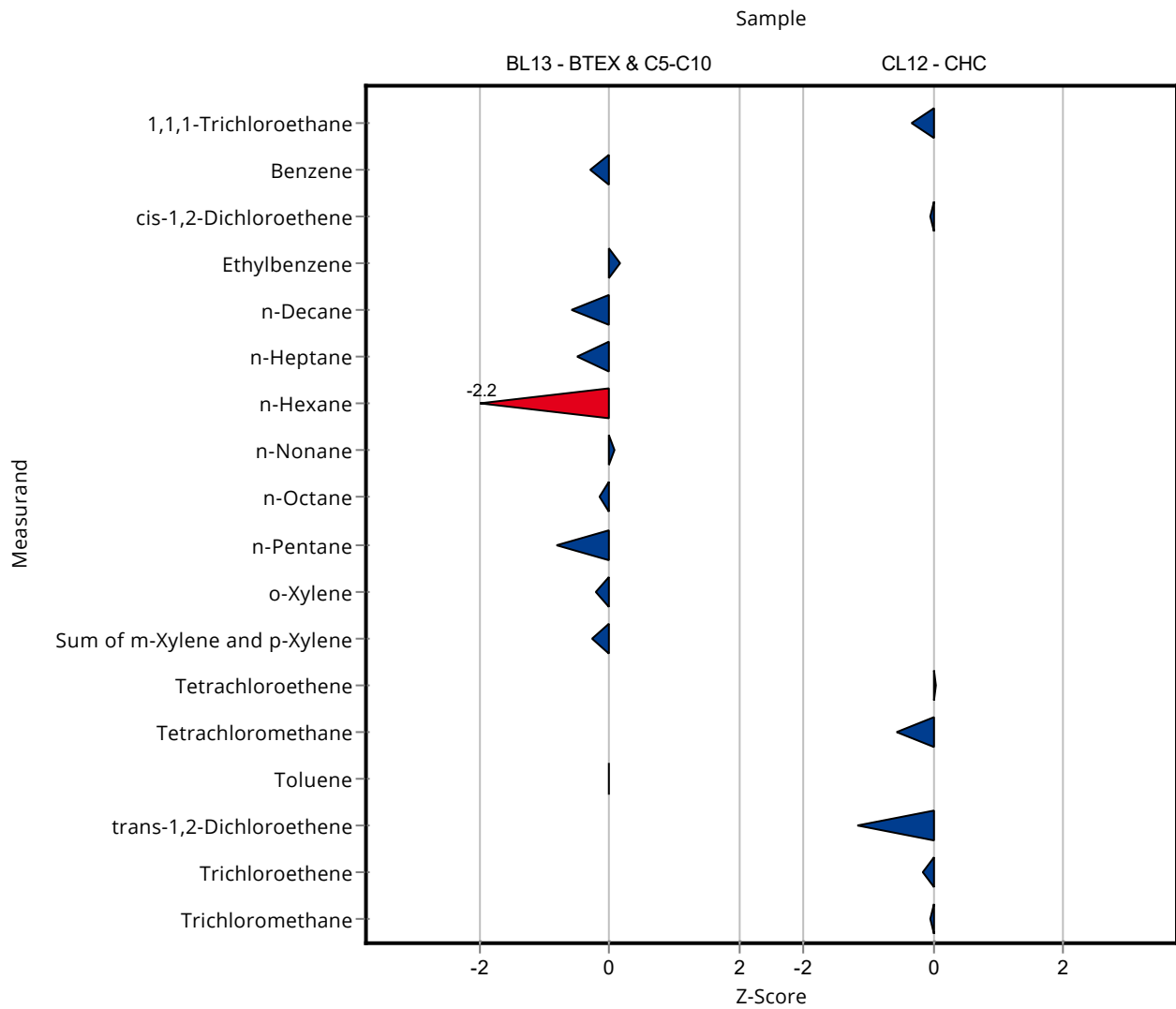


Sample: BL13

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
Benzene	$\mu\text{g}/\text{tube}$	4.66 $\pm$ 0.33	4.456 $\pm$ 0.89	0.699	95.7	-0.29
Ethylbenzene	$\mu\text{g}/\text{tube}$	3.95 $\pm$ 0.214	4.072 $\pm$ 0.81	0.711	103	0.17
n-Decane	$\mu\text{g}/\text{tube}$	1.95 $\pm$ 0.231	1.708 $\pm$ 0.34	0.408	87.8	-0.58
n-Heptane	$\mu\text{g}/\text{tube}$	6.16 $\pm$ 0.421	5.597 $\pm$ 1.12	1.11	90.9	-0.51
n-Hexane	$\mu\text{g}/\text{tube}$	6.33 $\pm$ 0.621	4.073 $\pm$ 0.81	1.01	64.3	-2.23
n-Nonane	$\mu\text{g}/\text{tube}$	3.97 $\pm$ 0.271	4.012 $\pm$ 0.8	0.595	101	0.07
n-Octane	$\mu\text{g}/\text{tube}$	5.37 $\pm$ 0.273	5.23 $\pm$ 1.05	0.913	97.4	-0.15
n-Pentane	$\mu\text{g}/\text{tube}$	6 $\pm$ 0.812	4.53 $\pm$ 0.91	1.8	75.4	-0.82
o-Xylene	$\mu\text{g}/\text{tube}$	3.5 $\pm$ 0.218	3.365 $\pm$ 0.67	0.63	96.2	-0.21
Sum of m-Xylene and p-Xylene	$\mu\text{g}/\text{tube}$	7.24 $\pm$ 0.498	6.866 $\pm$ 1.37	1.38	94.9	-0.27
Toluene	$\mu\text{g}/\text{tube}$	4.48 $\pm$ 0.261	4.472 $\pm$ 0.89	0.672	99.9	-0.01

Sample: CL12

Parameter	Unit	Assigned value $\pm$ U (k=2)	Result $\pm$ U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	$\mu\text{g}/\text{tube}$	5.35 $\pm$ 0.284	5.057 $\pm$ 1.01	0.856	94.5	-0.35
cis-1,2-Dichloroethene	$\mu\text{g}/\text{tube}$	3.86 $\pm$ 0.227	3.768 $\pm$ 0.75	1.43	97.6	-0.06
Tetrachloroethene	$\mu\text{g}/\text{tube}$	3.66 $\pm$ 0.543	3.699 $\pm$ 0.74	1.06	101	0.04
Tetrachloromethane	$\mu\text{g}/\text{tube}$	6.32 $\pm$ 0.385	5.768 $\pm$ 1.15	0.948	91.3	-0.58
trans-1,2-Dichloroethene	$\mu\text{g}/\text{tube}$	4.14 $\pm$ 0.203	3.405 $\pm$ 0.68	0.621	82.3	-1.18
Trichloroethene	$\mu\text{g}/\text{tube}$	4.49 $\pm$ 0.313	4.316 $\pm$ 0.86	1.12	96.1	-0.16
Trichloromethane	$\mu\text{g}/\text{tube}$	4.64 $\pm$ 0.213	4.597 $\pm$ 0.92	0.649	99.1	-0.06

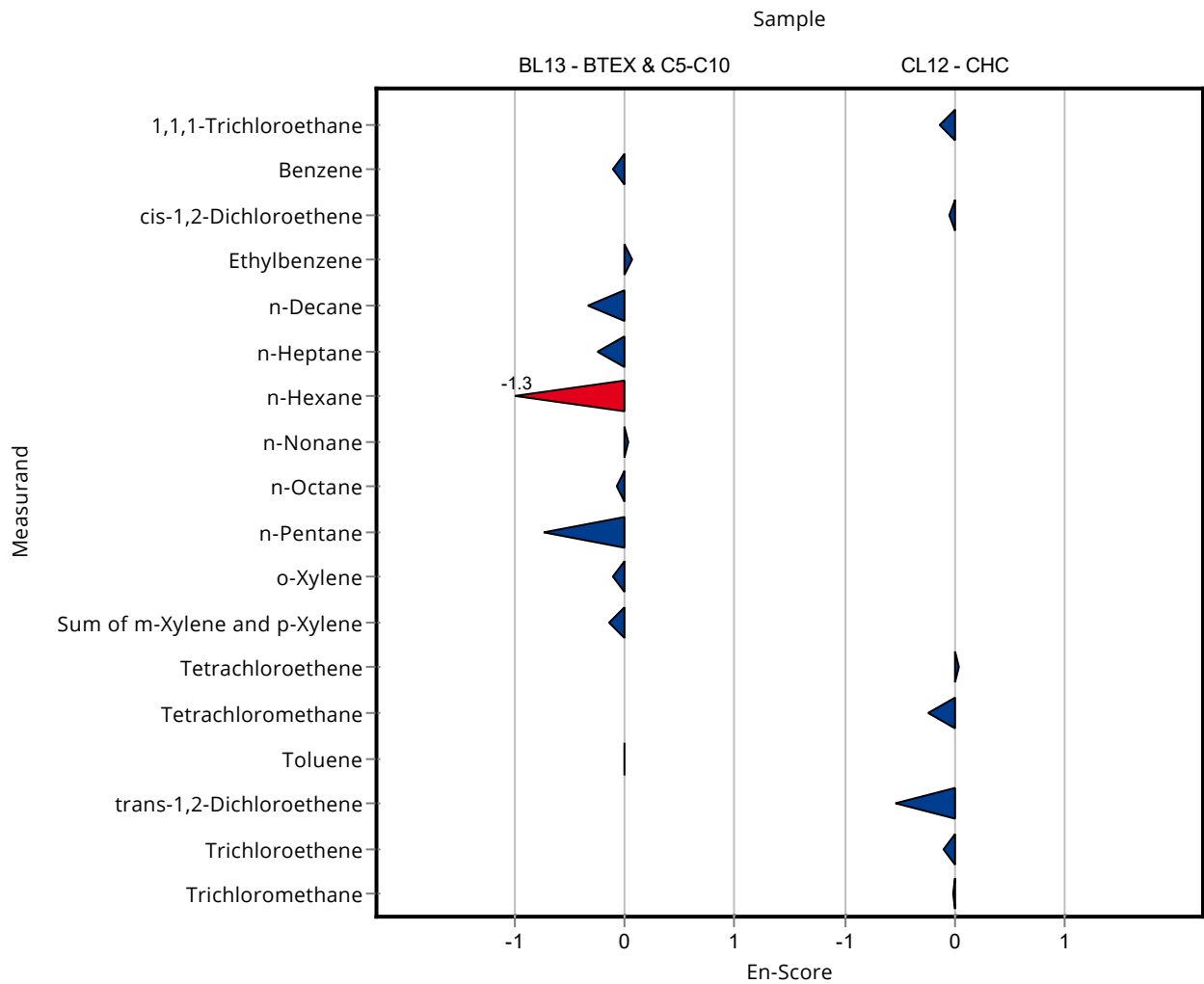


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.456 ± 0.89	0.699	95.7	-0.11
Ethylbenzene	µg/tube	3.95 ± 0.214	4.072 ± 0.81	0.711	103	0.07
n-Decane	µg/tube	1.95 ± 0.231	1.708 ± 0.34	0.408	87.8	-0.33
n-Heptane	µg/tube	6.16 ± 0.421	5.597 ± 1.12	1.11	90.9	-0.25
n-Hexane	µg/tube	6.33 ± 0.621	4.073 ± 0.81	1.01	64.3	-1.30
n-Nonane	µg/tube	3.97 ± 0.271	4.012 ± 0.8	0.595	101	0.03
n-Octane	µg/tube	5.37 ± 0.273	5.23 ± 1.05	0.913	97.4	-0.07
n-Pentane	µg/tube	6 ± 0.812	4.53 ± 0.91	1.8	75.4	-0.74
o-Xylene	µg/tube	3.5 ± 0.218	3.365 ± 0.67	0.63	96.2	-0.10
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.866 ± 1.37	1.38	94.9	-0.13
Toluene	µg/tube	4.48 ± 0.261	4.472 ± 0.89	0.672	99.9	0.00

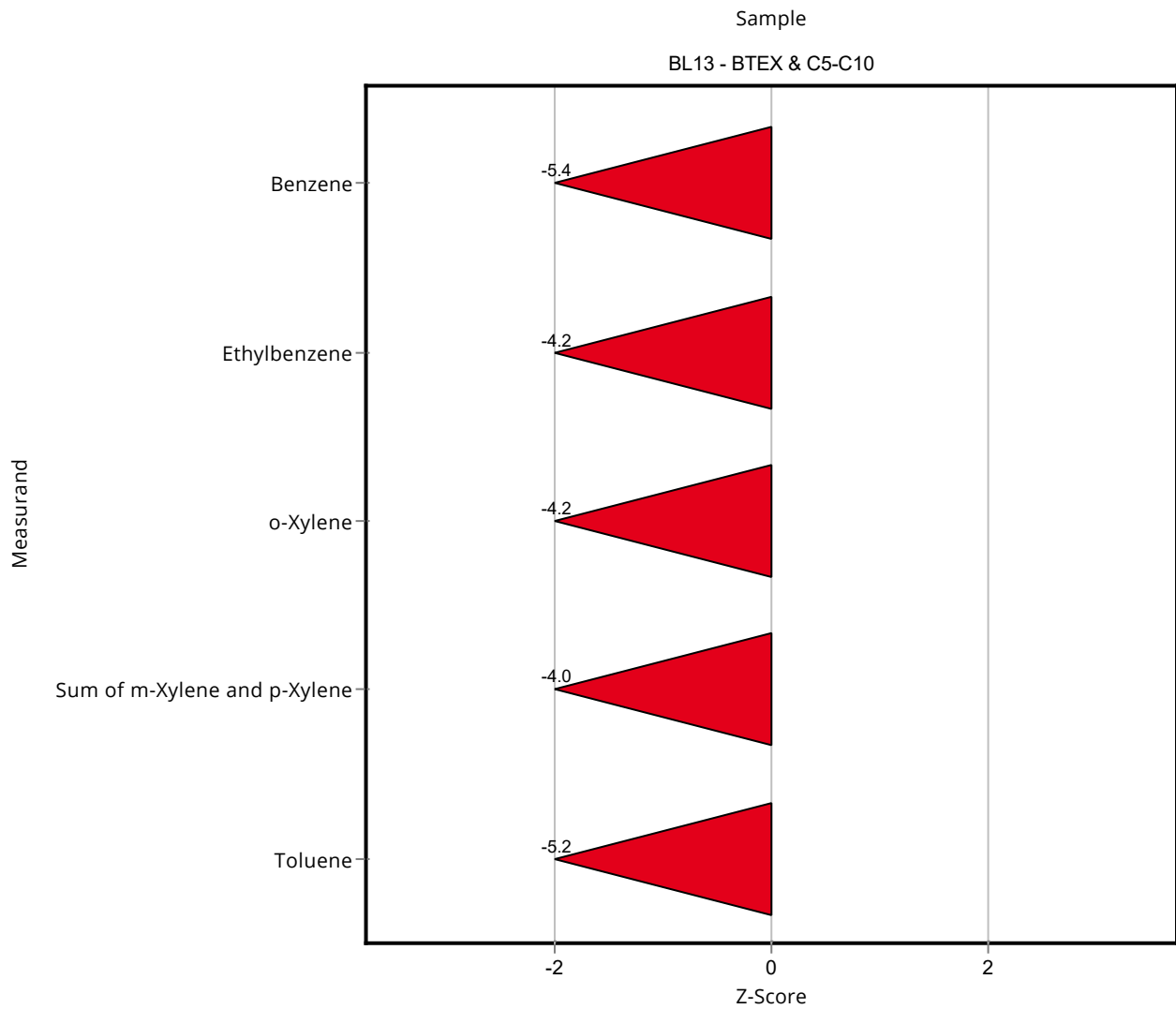
Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.057 ± 1.01	0.856	94.5	-0.14
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.768 ± 0.75	1.43	97.6	-0.06
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.699 ± 0.74	1.06	101	0.03
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.768 ± 1.15	0.948	91.3	-0.24
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	3.405 ± 0.68	0.621	82.3	-0.53
Trichloroethene	µg/tube	4.49 ± 0.313	4.316 ± 0.86	1.12	96.1	-0.10
Trichloromethane	µg/tube	4.64 ± 0.213	4.597 ± 0.92	0.649	99.1	-0.02



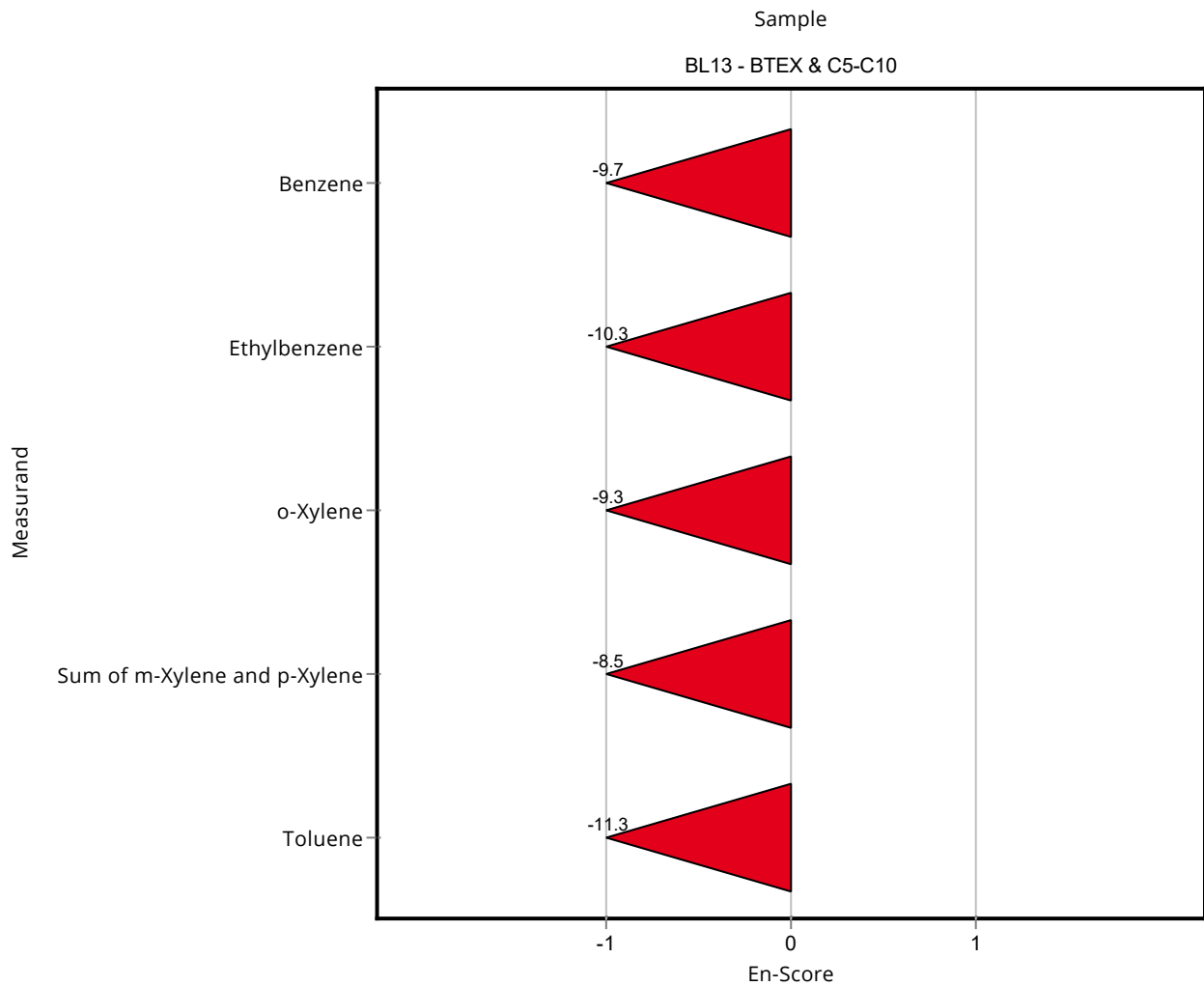
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	0.902 ± 0.1	0.699	19.4	-5.38
Ethylbenzene	µg/tube	3.95 ± 0.214	0.947 ± 0.098	0.711	24	-4.22
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	0.848 ± 0.093	0.63	24.2	-4.21
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	1.782 ± 0.205	1.38	24.6	-3.97
Toluene	µg/tube	4.48 ± 0.261	0.971 ± 0.085	0.672	21.7	-5.22



Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	0.902 ± 0.1	0.699	19.4	-9.73
Ethylbenzene	µg/tube	3.95 ± 0.214	0.947 ± 0.098	0.711	24	-10.34
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	0.848 ± 0.093	0.63	24.2	-9.26
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	1.782 ± 0.205	1.38	24.6	-8.46
Toluene	µg/tube	4.48 ± 0.261	0.971 ± 0.085	0.672	21.7	-11.27

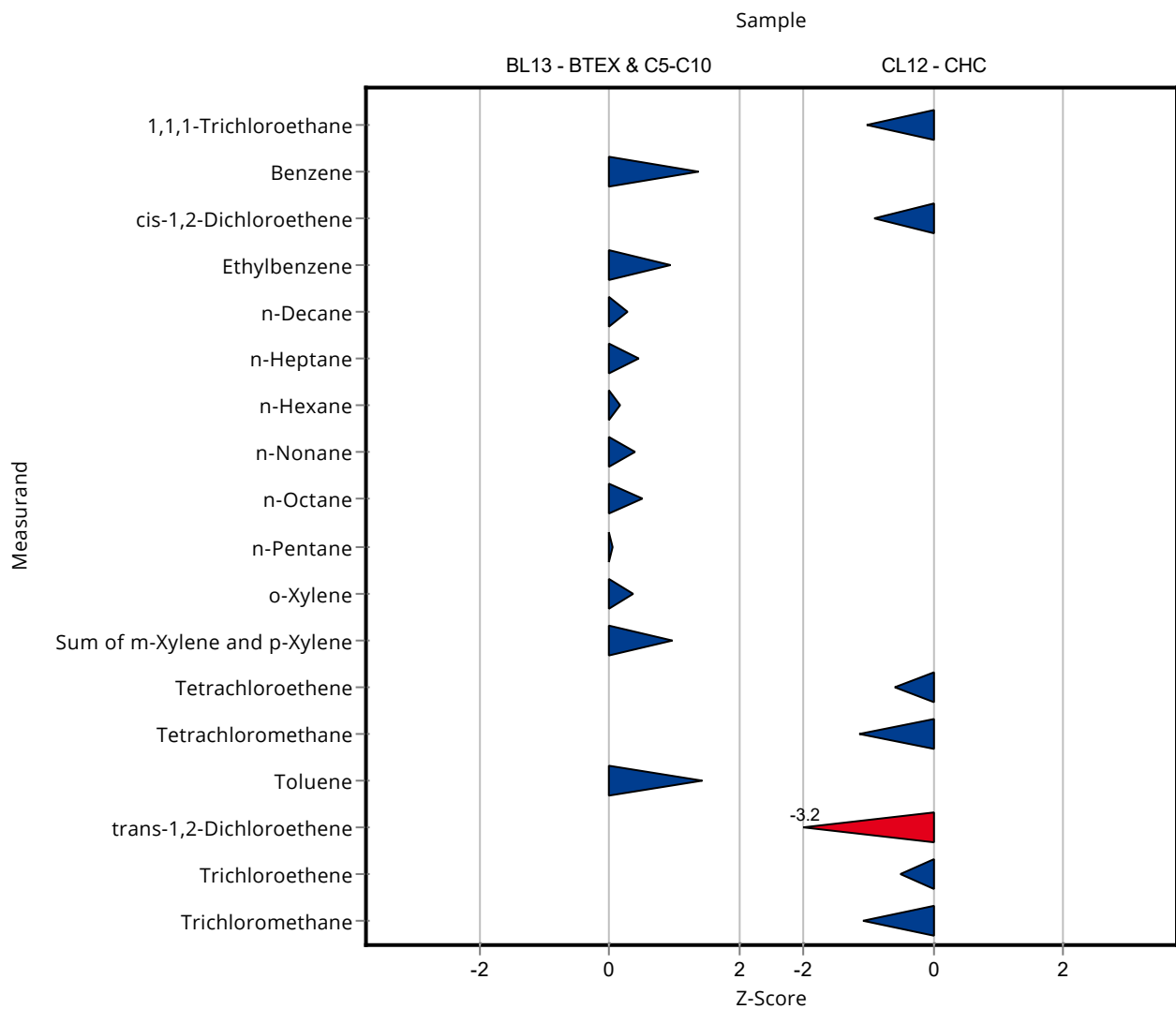


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.62 ± 1.25	0.699	121	1.38
Ethylbenzene	µg/tube	3.95 ± 0.214	4.63 ± 1.01	0.711	117	0.96
n-Decane	µg/tube	1.95 ± 0.231	2.06 ± 0.24	0.408	106	0.28
n-Heptane	µg/tube	6.16 ± 0.421	6.66 ± 0.63	1.11	108	0.45
n-Hexane	µg/tube	6.33 ± 0.621	6.51 ± 0.68	1.01	103	0.17
n-Nonane	µg/tube	3.97 ± 0.271	4.2 ± 0.33	0.595	106	0.39
n-Octane	µg/tube	5.37 ± 0.273	5.84 ± 0.31	0.913	109	0.52
n-Pentane	µg/tube	6 ± 0.812	6.1 ± 0.52	1.8	102	0.05
o-Xylene	µg/tube	3.5 ± 0.218	3.73 ± 0.65	0.63	107	0.37
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.57 ± 1.69	1.38	118	0.97
Toluene	µg/tube	4.48 ± 0.261	5.45 ± 1.07	0.672	122	1.45

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.48 ± 1.03	0.856	83.7	-1.02
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	2.57 ± 0.72	1.43	66.6	-0.90
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.02 ± 0.69	1.06	82.6	-0.60
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.23 ± 1.2	0.948	82.8	-1.15
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	2.15 ± 0.49	0.621	52	-3.20
Trichloroethene	µg/tube	4.49 ± 0.313	3.9 ± 0.93	1.12	86.8	-0.53
Trichloromethane	µg/tube	4.64 ± 0.213	3.93 ± 0.65	0.649	84.7	-1.09

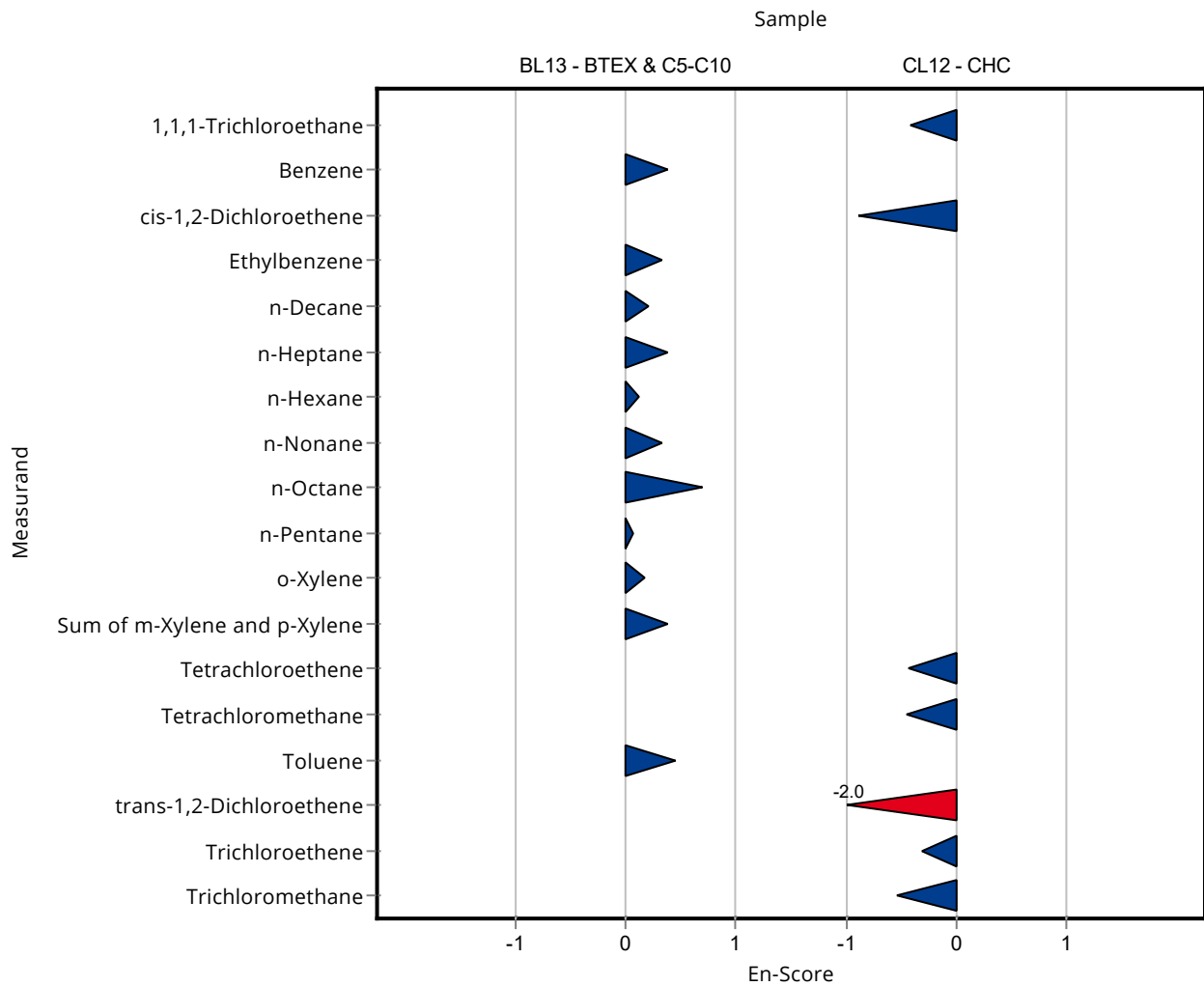


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.62 ± 1.25	0.699	121	0.38
Ethylbenzene	µg/tube	3.95 ± 0.214	4.63 ± 1.01	0.711	117	0.33
n-Decane	µg/tube	1.95 ± 0.231	2.06 ± 0.24	0.408	106	0.22
n-Heptane	µg/tube	6.16 ± 0.421	6.66 ± 0.63	1.11	108	0.38
n-Hexane	µg/tube	6.33 ± 0.621	6.51 ± 0.68	1.01	103	0.12
n-Nonane	µg/tube	3.97 ± 0.271	4.2 ± 0.33	0.595	106	0.32
n-Octane	µg/tube	5.37 ± 0.273	5.84 ± 0.31	0.913	109	0.70
n-Pentane	µg/tube	6 ± 0.812	6.1 ± 0.52	1.8	102	0.07
o-Xylene	µg/tube	3.5 ± 0.218	3.73 ± 0.65	0.63	107	0.17
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.57 ± 1.69	1.38	118	0.39
Toluene	µg/tube	4.48 ± 0.261	5.45 ± 1.07	0.672	122	0.45

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	4.48 ± 1.03	0.856	83.7	-0.42
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	2.57 ± 0.72	1.43	66.6	-0.89
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.02 ± 0.69	1.06	82.6	-0.43
Tetrachloromethane	µg/tube	6.32 ± 0.385	5.23 ± 1.2	0.948	82.8	-0.45
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	2.15 ± 0.49	0.621	52	-1.99
Trichloroethene	µg/tube	4.49 ± 0.313	3.9 ± 0.93	1.12	86.8	-0.31
Trichloromethane	µg/tube	4.64 ± 0.213	3.93 ± 0.65	0.649	84.7	-0.54

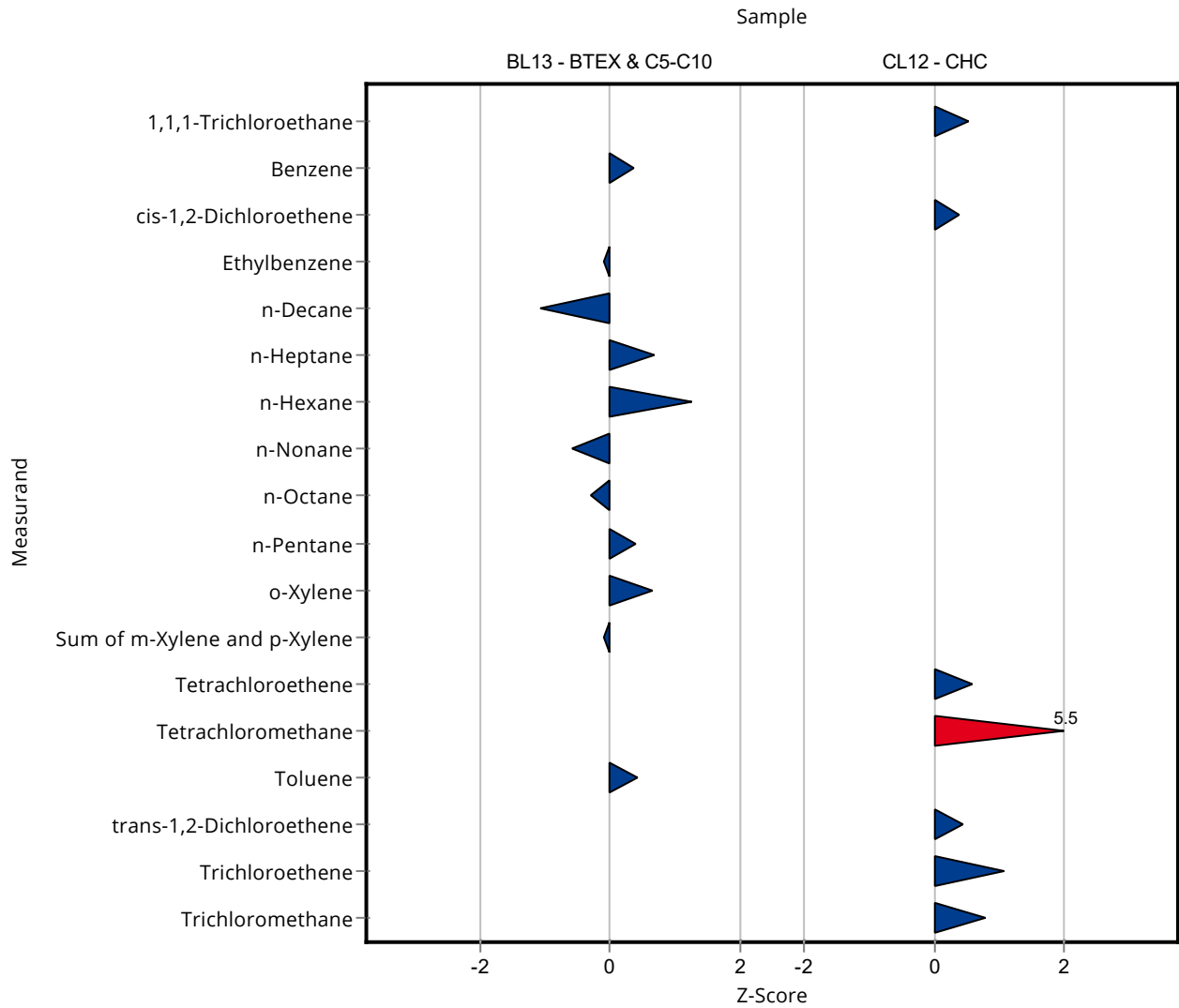


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.91 ± 1.3	0.699	105	0.36
Ethylbenzene	µg/tube	3.95 ± 0.214	3.877 ± 0.8	0.711	98.2	-0.10
n-Decane	µg/tube	1.95 ± 0.231	1.51 ± 0.2	0.408	77.6	-1.07
n-Heptane	µg/tube	6.16 ± 0.421	6.928 ± 0.8	1.11	112	0.69
n-Hexane	µg/tube	6.33 ± 0.621	7.616 ± 0.8	1.01	120	1.26
n-Nonane	µg/tube	3.97 ± 0.271	3.629 ± 0.4	0.595	91.4	-0.57
n-Octane	µg/tube	5.37 ± 0.273	5.097 ± 0.6	0.913	94.9	-0.30
n-Pentane	µg/tube	6 ± 0.812	6.714 ± 0.8	1.8	112	0.39
o-Xylene	µg/tube	3.5 ± 0.218	3.919 ± 0.7	0.63	112	0.67
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.119 ± 1.9	1.38	98.4	-0.09
Toluene	µg/tube	4.48 ± 0.261	4.759 ± 0.7	0.672	106	0.42

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.797 ± 1.7	0.856	108	0.52
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.386 ± 0.9	1.43	114	0.37
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.262 ± 0.9	1.06	117	0.57
Tetrachloromethane	µg/tube	6.32 ± 0.385	11.54 ± 2.2	0.948	183	5.51
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.411 ± 0.9	0.621	107	0.44
Trichloroethene	µg/tube	4.49 ± 0.313	5.685 ± 1.5	1.12	127	1.06
Trichloromethane	µg/tube	4.64 ± 0.213	5.141 ± 1	0.649	111	0.78

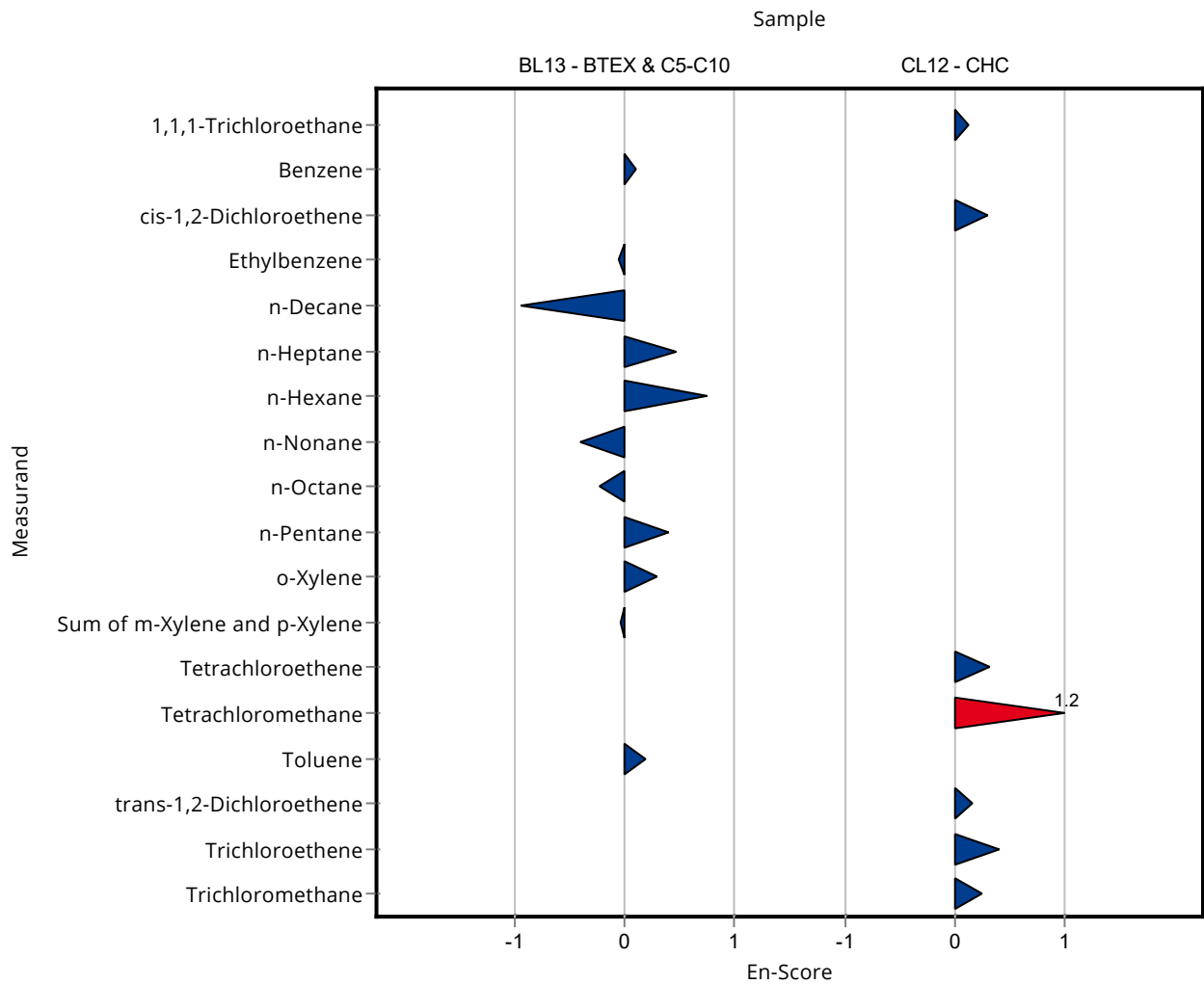


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.91 ± 1.3	0.699	105	0.10
Ethylbenzene	µg/tube	3.95 ± 0.214	3.877 ± 0.8	0.711	98.2	-0.05
n-Decane	µg/tube	1.95 ± 0.231	1.51 ± 0.2	0.408	77.6	-0.94
n-Heptane	µg/tube	6.16 ± 0.421	6.928 ± 0.8	1.11	112	0.46
n-Hexane	µg/tube	6.33 ± 0.621	7.616 ± 0.8	1.01	120	0.75
n-Nonane	µg/tube	3.97 ± 0.271	3.629 ± 0.4	0.595	91.4	-0.40
n-Octane	µg/tube	5.37 ± 0.273	5.097 ± 0.6	0.913	94.9	-0.22
n-Pentane	µg/tube	6 ± 0.812	6.714 ± 0.8	1.8	112	0.40
o-Xylene	µg/tube	3.5 ± 0.218	3.919 ± 0.7	0.63	112	0.30
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.119 ± 1.9	1.38	98.4	-0.03
Toluene	µg/tube	4.48 ± 0.261	4.759 ± 0.7	0.672	106	0.20

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.797 ± 1.7	0.856	108	0.13
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	4.386 ± 0.9	1.43	114	0.29
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.262 ± 0.9	1.06	117	0.32
Tetrachloromethane	µg/tube	6.32 ± 0.385	11.54 ± 2.2	0.948	183	1.18
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.411 ± 0.9	0.621	107	0.15
Trichloroethene	µg/tube	4.49 ± 0.313	5.685 ± 1.5	1.12	127	0.40
Trichloromethane	µg/tube	4.64 ± 0.213	5.141 ± 1	0.649	111	0.25

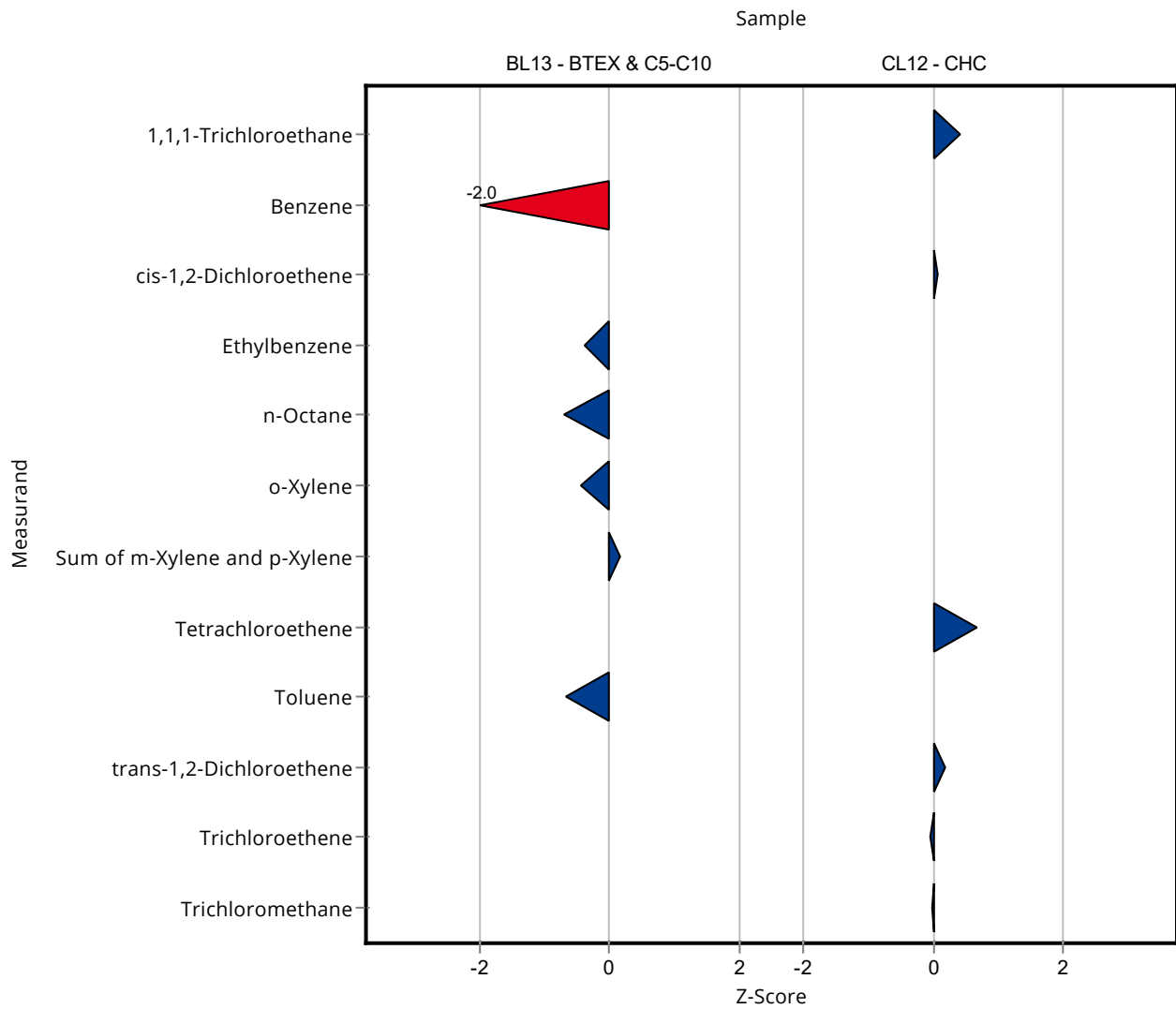


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	3.26 ± 0.65	0.699	70	-2.00
Ethylbenzene	µg/tube	3.95 ± 0.214	3.68 ± 0.74	0.711	93.2	-0.38
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	4.74 ± 0.9	0.913	88.3	-0.69
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.23 ± 0.65	0.63	92.3	-0.43
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.48 ± 1.5	1.38	103	0.18
Toluene	µg/tube	4.48 ± 0.261	4.03 ± 0.81	0.672	90	-0.67

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.7 ± 1.1	0.856	106	0.41
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.97 ± 0.79	1.43	103	0.08
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.36 ± 0.87	1.06	119	0.66
Tetrachloromethane	µg/tube	6.32 ± 0.385	- ± -	0.948	-	-
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.25 ± 0.9	0.621	103	0.18
Trichloroethene	µg/tube	4.49 ± 0.313	4.44 ± 0.89	1.12	98.9	-0.05
Trichloromethane	µg/tube	4.64 ± 0.213	4.63 ± 0.93	0.649	99.8	-0.01

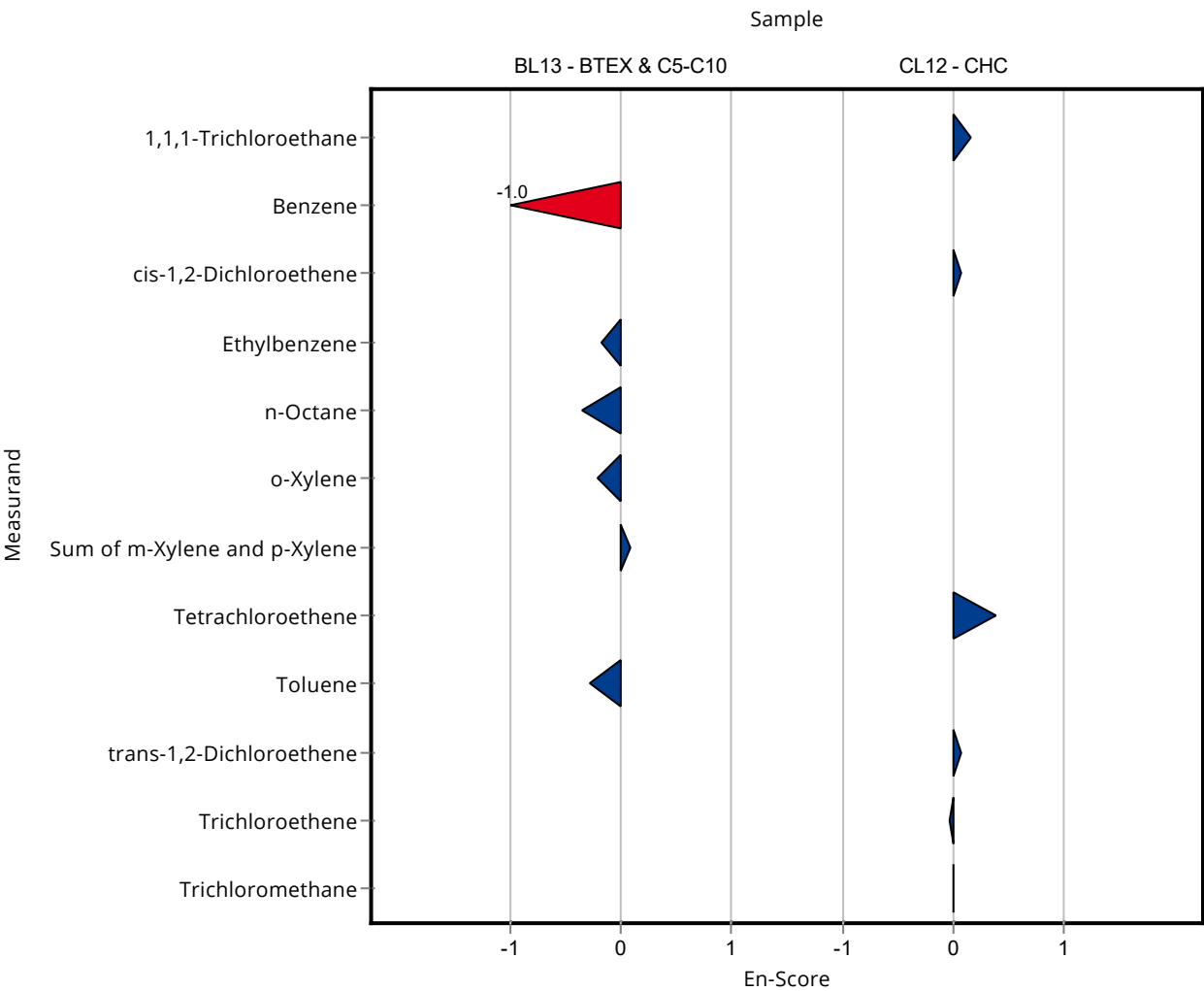


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	3.26 ± 0.65	0.699	70	-1.04
Ethylbenzene	µg/tube	3.95 ± 0.214	3.68 ± 0.74	0.711	93.2	-0.18
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	4.74 ± 0.9	0.913	88.3	-0.35
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.23 ± 0.65	0.63	92.3	-0.20
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	7.48 ± 1.5	1.38	103	0.08
Toluene	µg/tube	4.48 ± 0.261	4.03 ± 0.81	0.672	90	-0.27

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.7 ± 1.1	0.856	106	0.16
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.97 ± 0.79	1.43	103	0.07
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.36 ± 0.87	1.06	119	0.39
Tetrachloromethane	µg/tube	6.32 ± 0.385	- ± -	0.948	-	-
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.25 ± 0.9	0.621	103	0.06
Trichloroethene	µg/tube	4.49 ± 0.313	4.44 ± 0.89	1.12	98.9	-0.03
Trichloromethane	µg/tube	4.64 ± 0.213	4.63 ± 0.93	0.649	99.8	0.00

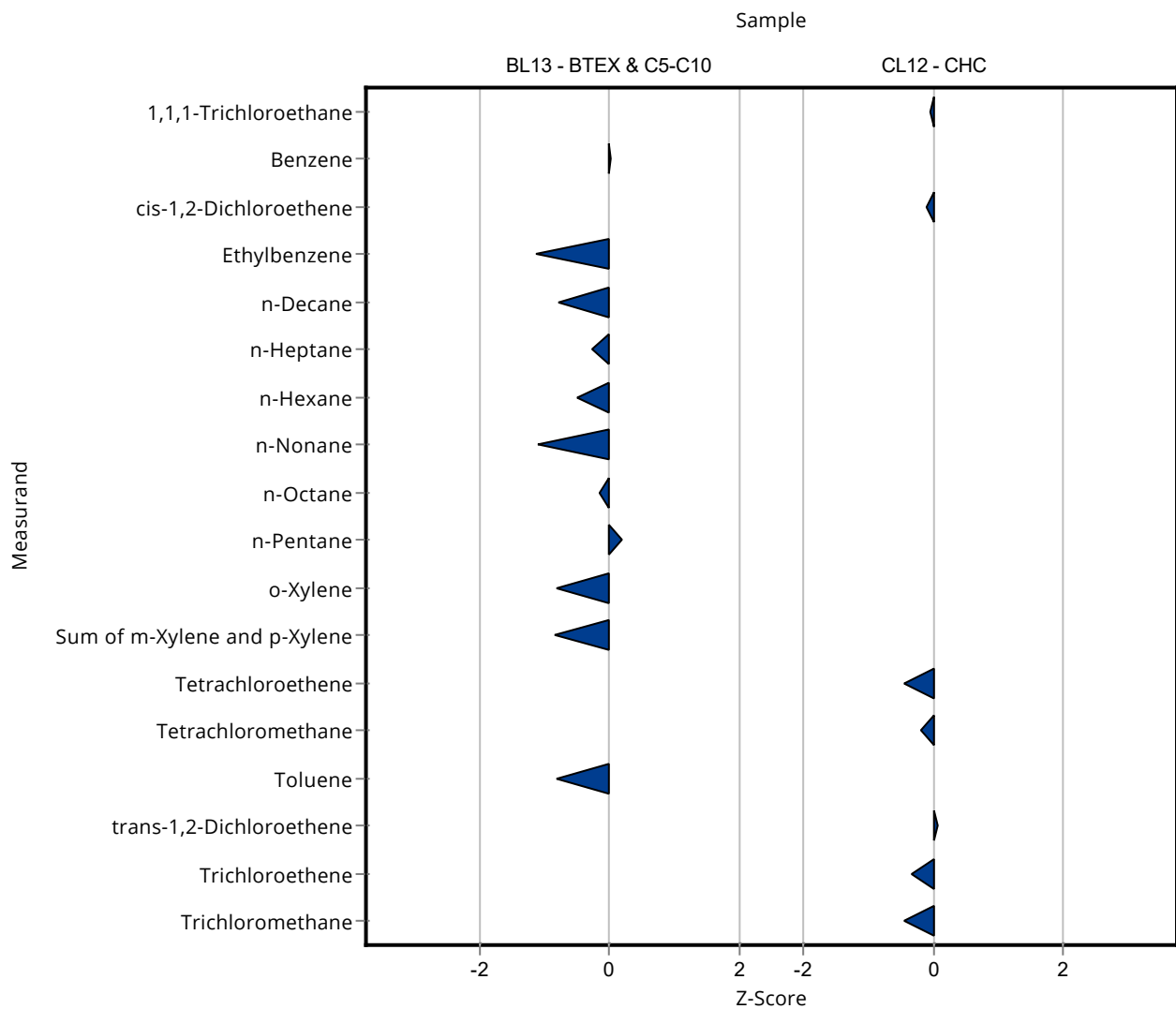


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.68 ± 1.17	0.699	100	0.03
Ethylbenzene	µg/tube	3.95 ± 0.214	3.15 ± 0.79	0.711	79.7	-1.13
n-Decane	µg/tube	1.95 ± 0.231	1.63 ± 0.41	0.408	83.8	-0.77
n-Heptane	µg/tube	6.16 ± 0.421	5.88 ± 1.47	1.11	95.4	-0.25
n-Hexane	µg/tube	6.33 ± 0.621	5.82 ± 1.45	1.01	91.9	-0.51
n-Nonane	µg/tube	3.97 ± 0.271	3.32 ± 0.83	0.595	83.7	-1.09
n-Octane	µg/tube	5.37 ± 0.273	5.22 ± 1.3	0.913	97.2	-0.16
n-Pentane	µg/tube	6 ± 0.812	6.35 ± 1.59	1.8	106	0.19
o-Xylene	µg/tube	3.5 ± 0.218	2.99 ± 0.75	0.63	85.4	-0.81
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.1 ± 1.52	1.38	84.3	-0.83
Toluene	µg/tube	4.48 ± 0.261	3.94 ± 0.98	0.672	88	-0.80

Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.3 ± 1.33	0.856	99	-0.06
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.72 ± 0.93	1.43	96.4	-0.10
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.17 ± 0.79	1.06	86.7	-0.46
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.14 ± 1.53	0.948	97.2	-0.19
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.18 ± 1.04	0.621	101	0.07
Trichloroethene	µg/tube	4.49 ± 0.313	4.11 ± 1.03	1.12	91.5	-0.34
Trichloromethane	µg/tube	4.64 ± 0.213	4.34 ± 1.09	0.649	93.6	-0.46

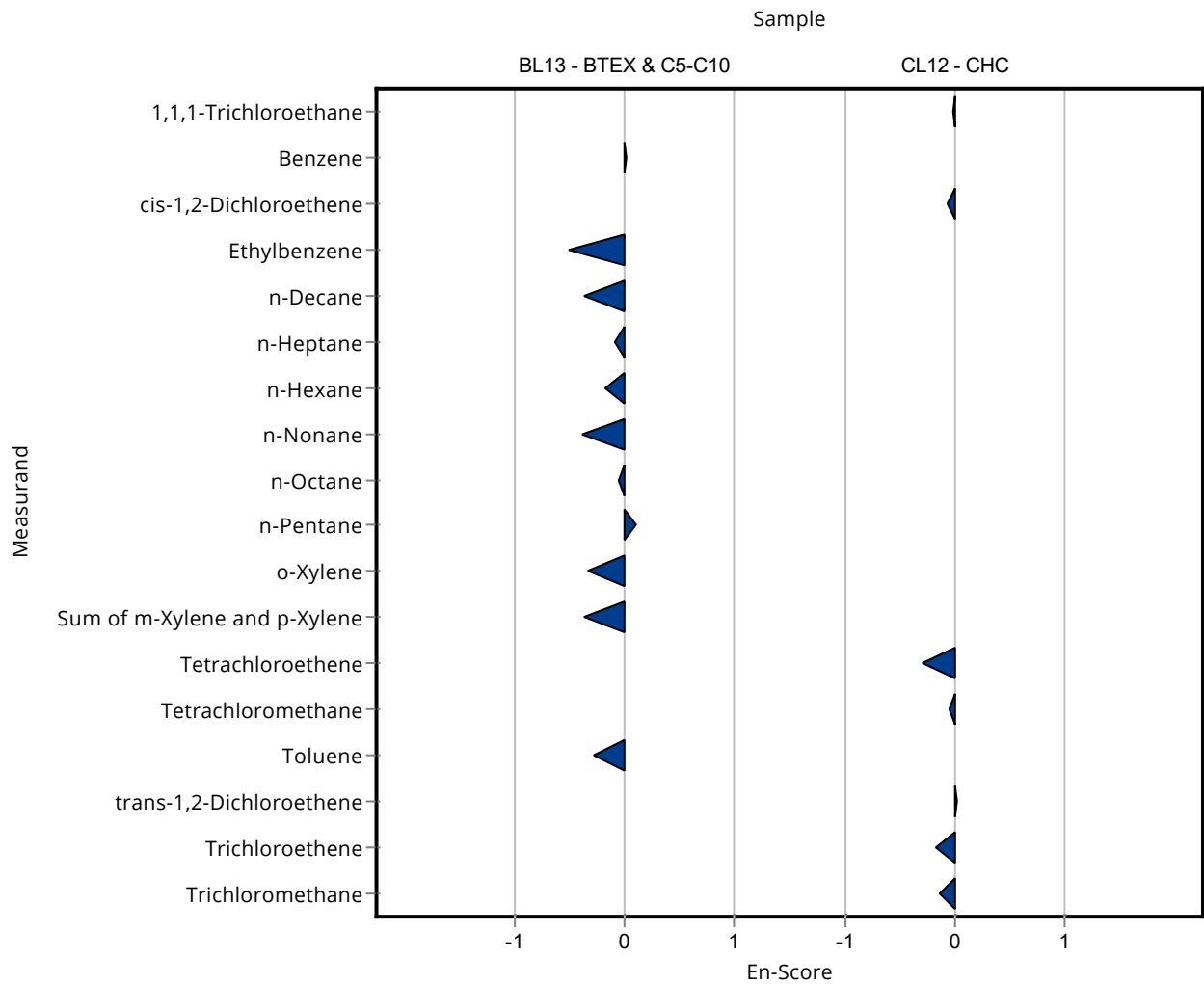


Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.68 ± 1.17	0.699	100	0.01
Ethylbenzene	µg/tube	3.95 ± 0.214	3.15 ± 0.79	0.711	79.7	-0.50
n-Decane	µg/tube	1.95 ± 0.231	1.63 ± 0.41	0.408	83.8	-0.37
n-Heptane	µg/tube	6.16 ± 0.421	5.88 ± 1.47	1.11	95.4	-0.09
n-Hexane	µg/tube	6.33 ± 0.621	5.82 ± 1.45	1.01	91.9	-0.17
n-Nonane	µg/tube	3.97 ± 0.271	3.32 ± 0.83	0.595	83.7	-0.39
n-Octane	µg/tube	5.37 ± 0.273	5.22 ± 1.3	0.913	97.2	-0.06
n-Pentane	µg/tube	6 ± 0.812	6.35 ± 1.59	1.8	106	0.11
o-Xylene	µg/tube	3.5 ± 0.218	2.99 ± 0.75	0.63	85.4	-0.34
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	6.1 ± 1.52	1.38	84.3	-0.37
Toluene	µg/tube	4.48 ± 0.261	3.94 ± 0.98	0.672	88	-0.27

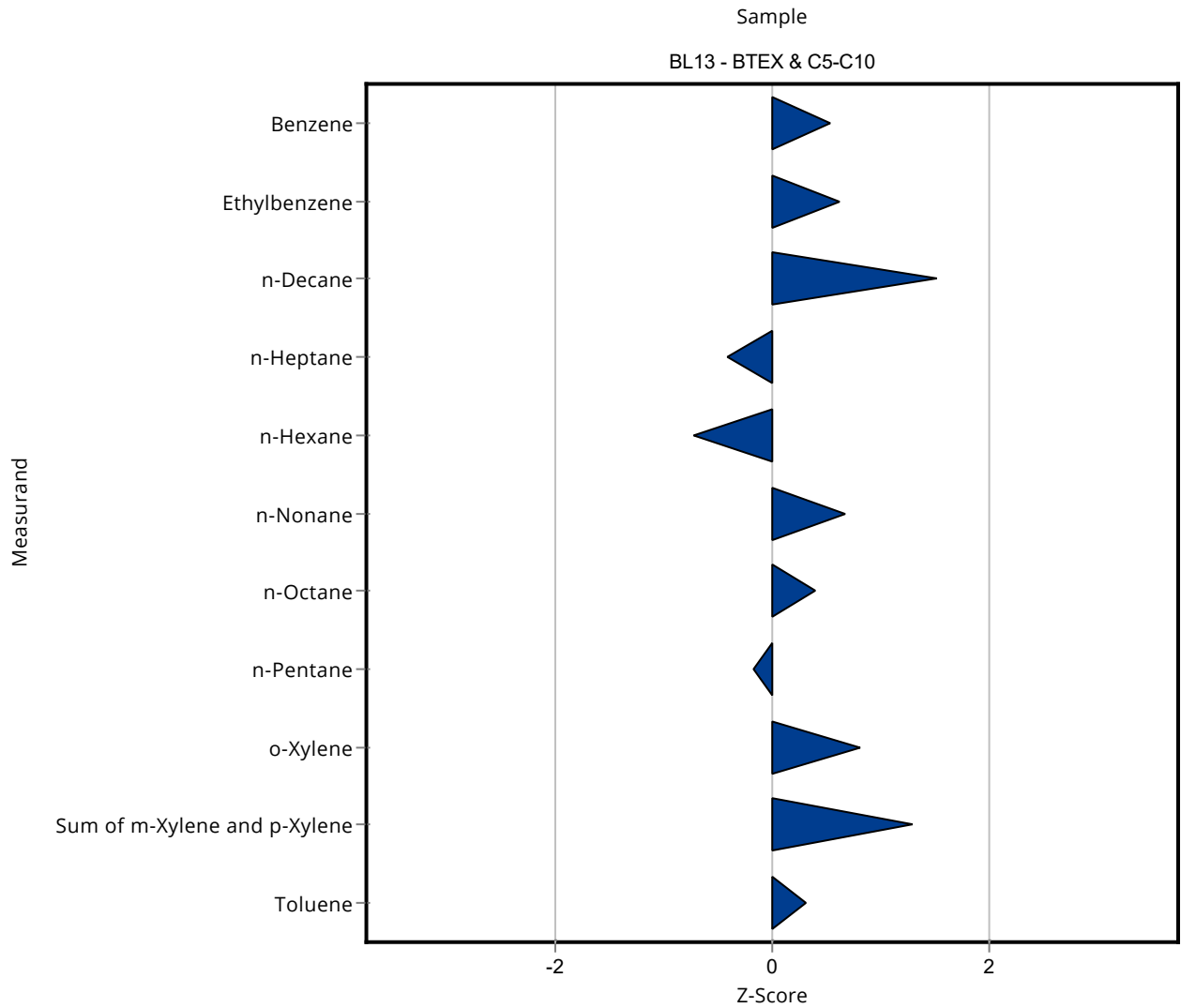
Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	5.3 ± 1.33	0.856	99	-0.02
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.72 ± 0.93	1.43	96.4	-0.07
Tetrachloroethene	µg/tube	3.66 ± 0.543	3.17 ± 0.79	1.06	86.7	-0.29
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.14 ± 1.53	0.948	97.2	-0.06
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	4.18 ± 1.04	0.621	101	0.02
Trichloroethene	µg/tube	4.49 ± 0.313	4.11 ± 1.03	1.12	91.5	-0.18
Trichloromethane	µg/tube	4.64 ± 0.213	4.34 ± 1.09	0.649	93.6	-0.14



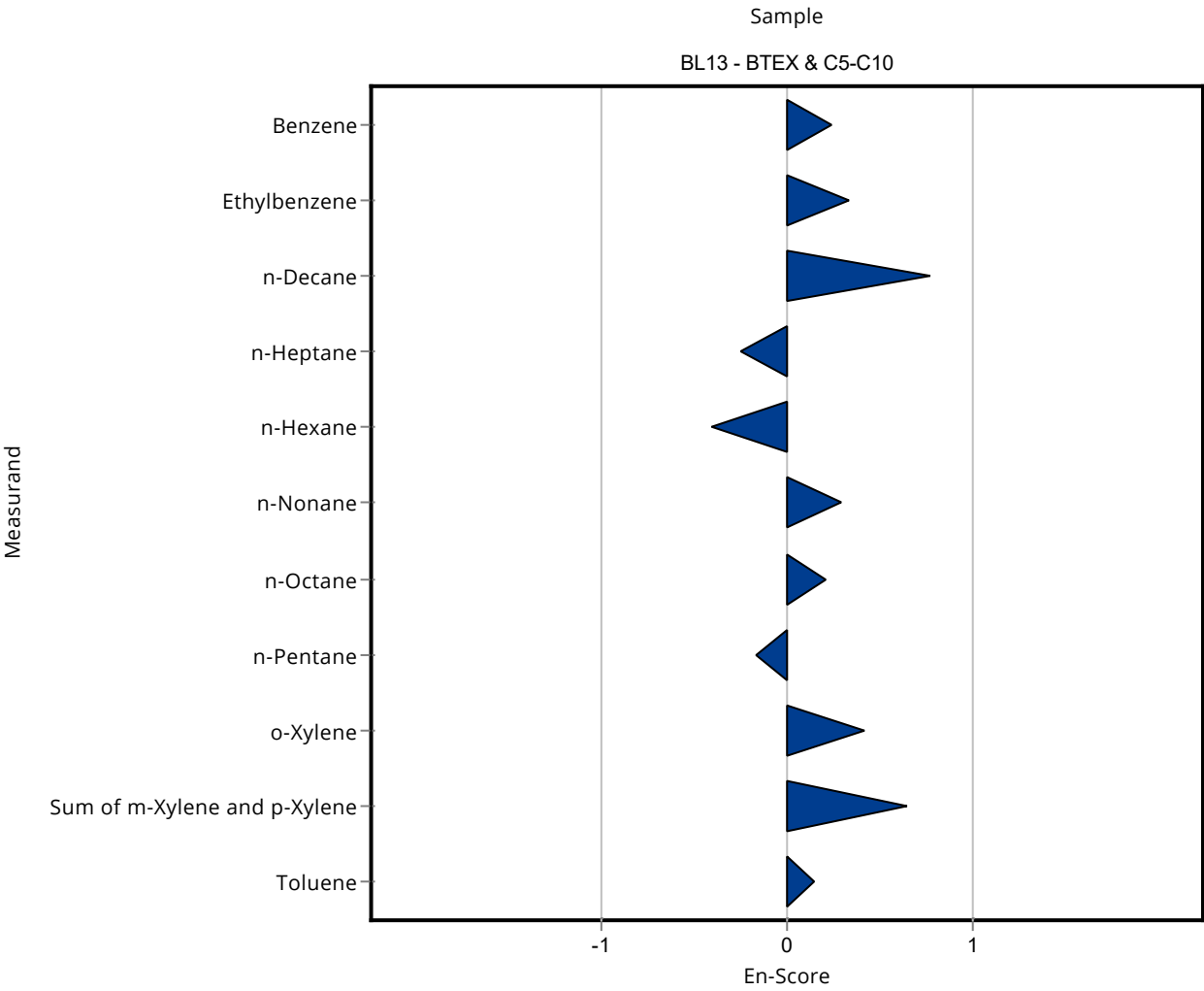
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	5.0347 ± 0.7552	0.699	108	0.54
Ethylbenzene	µg/tube	3.95 ± 0.214	4.3925 ± 0.6589	0.711	111	0.62
n-Decane	µg/tube	1.95 ± 0.231	2.5675 ± 0.3851	0.408	132	1.52
n-Heptane	µg/tube	6.16 ± 0.421	5.71 ± 0.8565	1.11	92.7	-0.41
n-Hexane	µg/tube	6.33 ± 0.621	5.6 ± 0.84	1.01	88.4	-0.72
n-Nonane	µg/tube	3.97 ± 0.271	4.365 ± 0.6548	0.595	110	0.67
n-Octane	µg/tube	5.37 ± 0.273	5.7275 ± 0.8591	0.913	107	0.39
n-Pentane	µg/tube	6 ± 0.812	5.68 ± 0.852	1.8	94.6	-0.18
o-Xylene	µg/tube	3.5 ± 0.218	4.01 ± 0.6015	0.63	115	0.81
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	9.0175 ± 1.3526	1.38	125	1.29
Toluene	µg/tube	4.48 ± 0.261	4.69 ± 0.7035	0.672	105	0.32



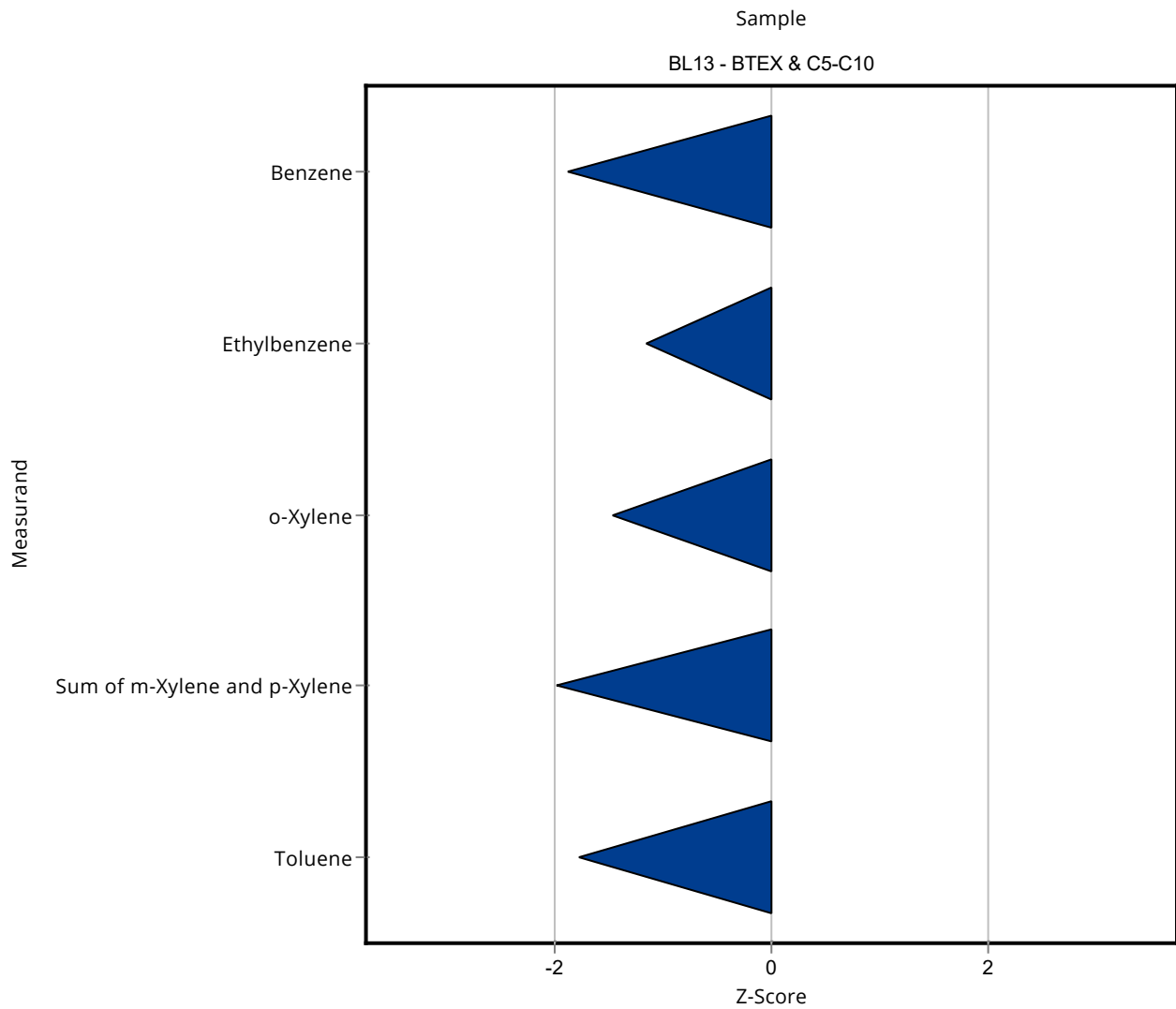
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	5.0347 ± 0.7552	0.699	108	0.24
Ethylbenzene	µg/tube	3.95 ± 0.214	4.3925 ± 0.6589	0.711	111	0.33
n-Decane	µg/tube	1.95 ± 0.231	2.5675 ± 0.3851	0.408	132	0.77
n-Heptane	µg/tube	6.16 ± 0.421	5.71 ± 0.8565	1.11	92.7	-0.26
n-Hexane	µg/tube	6.33 ± 0.621	5.6 ± 0.84	1.01	88.4	-0.41
n-Nonane	µg/tube	3.97 ± 0.271	4.365 ± 0.6548	0.595	110	0.30
n-Octane	µg/tube	5.37 ± 0.273	5.7275 ± 0.8591	0.913	107	0.21
n-Pentane	µg/tube	6 ± 0.812	5.68 ± 0.852	1.8	94.6	-0.17
o-Xylene	µg/tube	3.5 ± 0.218	4.01 ± 0.6015	0.63	115	0.42
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	9.0175 ± 1.3526	1.38	125	0.65
Toluene	µg/tube	4.48 ± 0.261	4.69 ± 0.7035	0.672	105	0.15



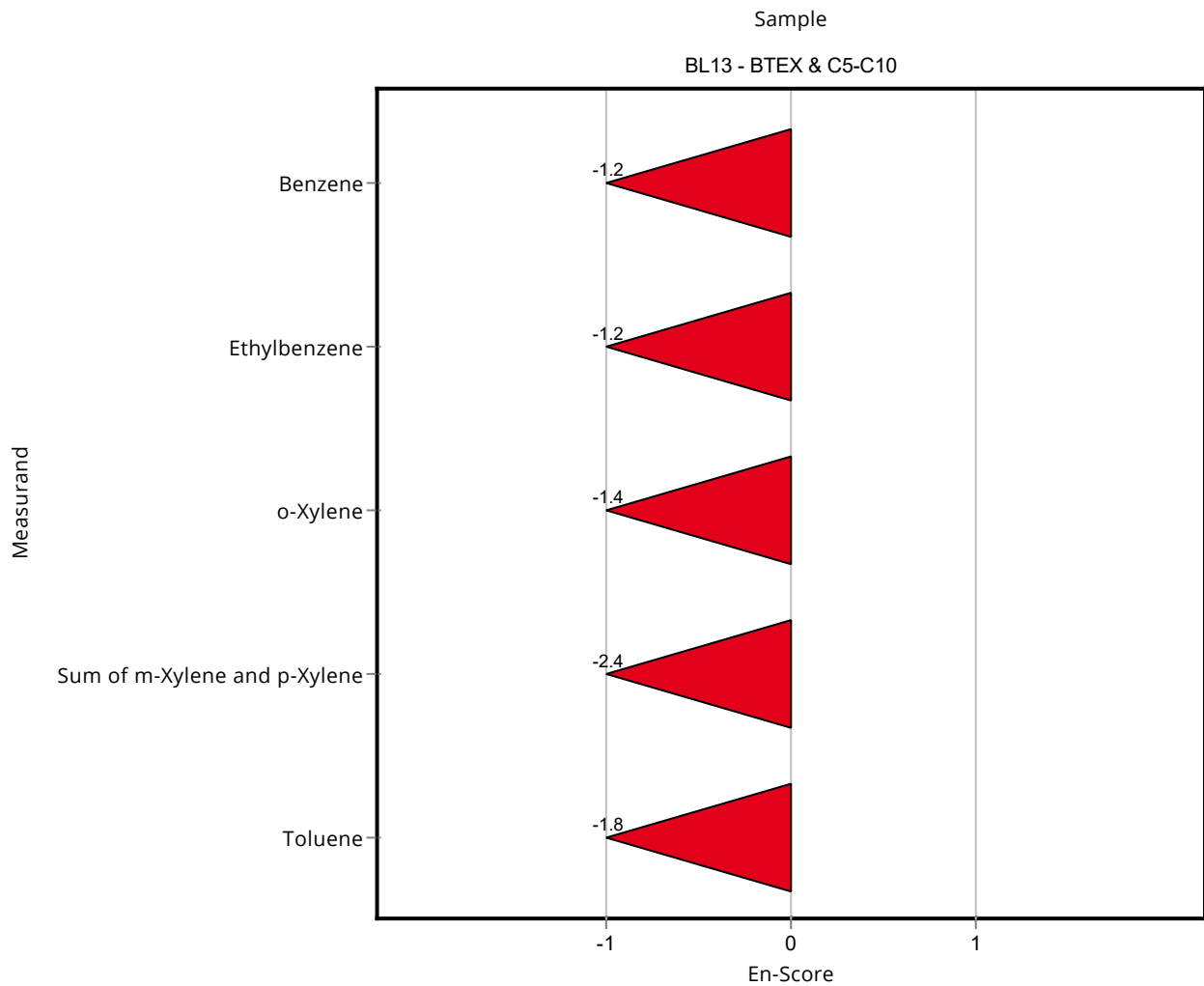
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	3.3458 ± 0.5022	0.699	71.8	-1.88
Ethylbenzene	µg/tube	3.95 ± 0.214	3.132 ± 0.3347	0.711	79.3	-1.15
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	2.5724 ± 0.3129	0.63	73.5	-1.47
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	4.5152 ± 0.5219	1.38	62.4	-1.98
Toluene	µg/tube	4.48 ± 0.261	3.2784 ± 0.3097	0.672	73.2	-1.79



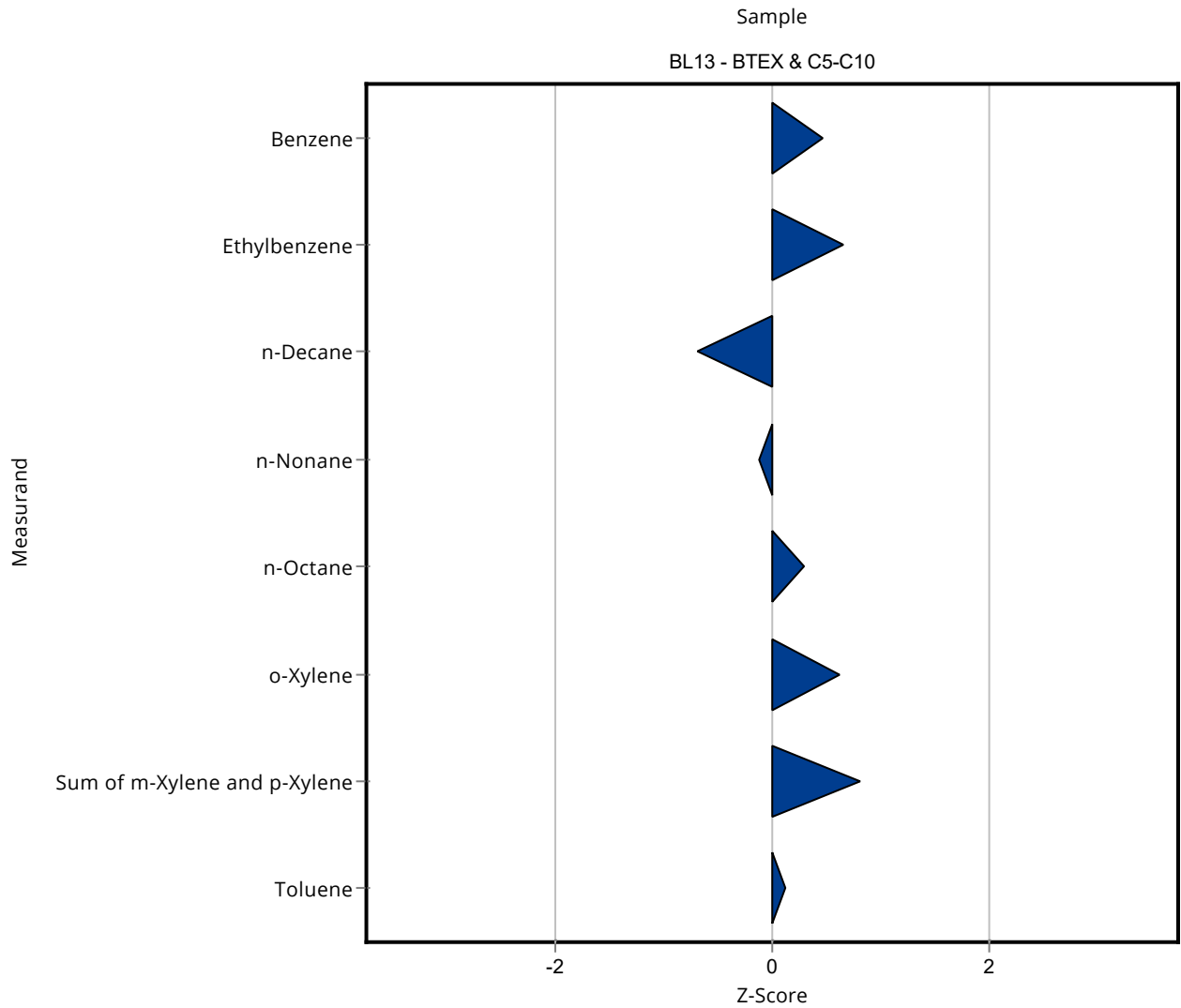
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	3.3458 ± 0.5022	0.699	71.8	-1.24
Ethylbenzene	µg/tube	3.95 ± 0.214	3.132 ± 0.3347	0.711	79.3	-1.16
n-Decane	µg/tube	1.95 ± 0.231	- ± -	0.408	-	-
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	- ± -	0.595	-	-
n-Octane	µg/tube	5.37 ± 0.273	- ± -	0.913	-	-
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	2.5724 ± 0.3129	0.63	73.5	-1.40
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	4.5152 ± 0.5219	1.38	62.4	-2.35
Toluene	µg/tube	4.48 ± 0.261	3.2784 ± 0.3097	0.672	73.2	-1.79



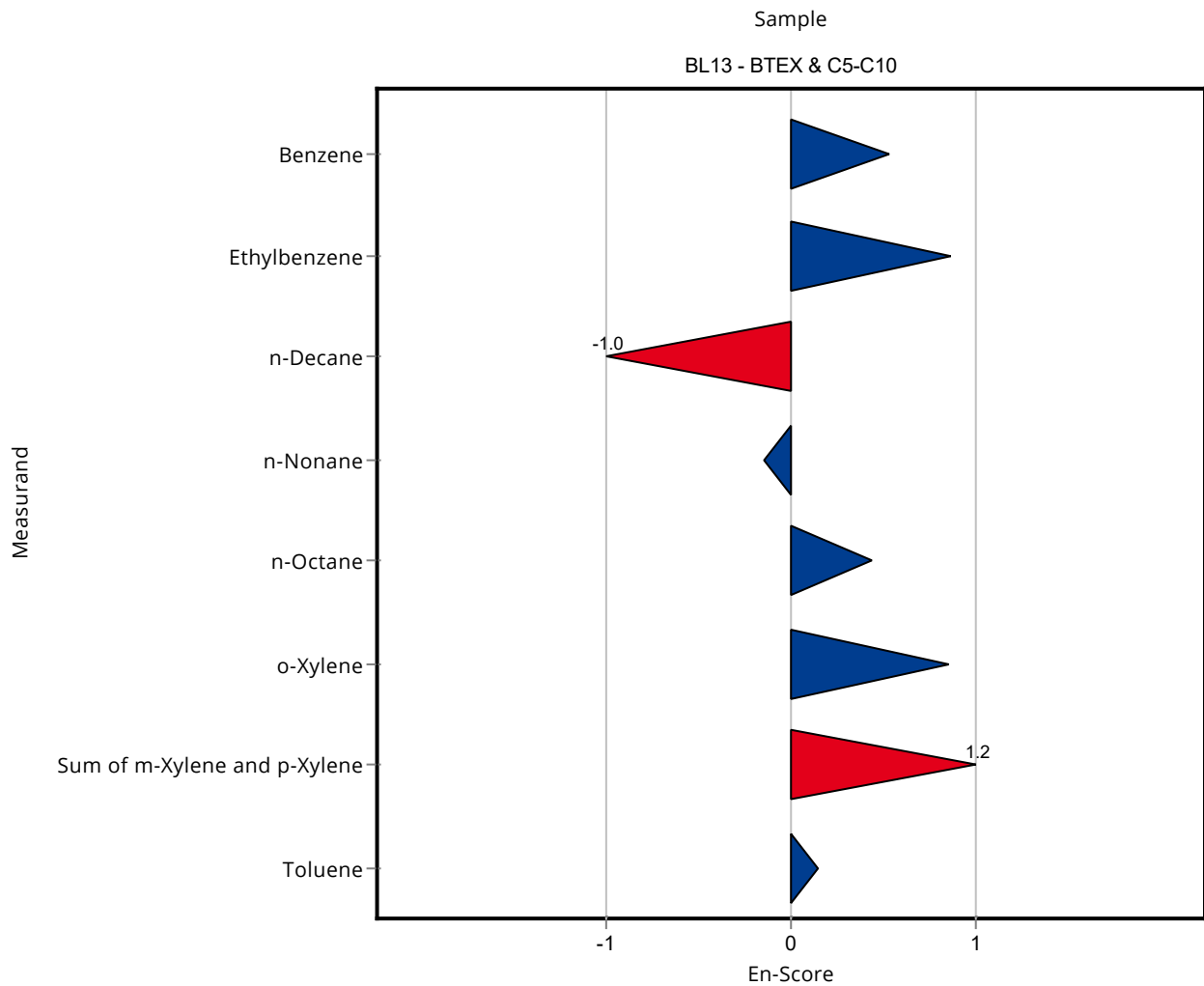
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Benzene	µg/tube	4.66 ± 0.33	4.98 ± 0.25	0.699	107	0.46
Ethylbenzene	µg/tube	3.95 ± 0.214	4.42 ± 0.25	0.711	112	0.66
n-Decane	µg/tube	1.95 ± 0.231	1.66 ± 0.08	0.408	85.3	-0.70
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	3.9 ± 0.2	0.595	98.3	-0.12
n-Octane	µg/tube	5.37 ± 0.273	5.64 ± 0.28	0.913	105	0.30
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.89 ± 0.2	0.63	111	0.62
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.36 ± 0.4	1.38	116	0.82
Toluene	µg/tube	4.48 ± 0.261	4.56 ± 0.25	0.672	102	0.12



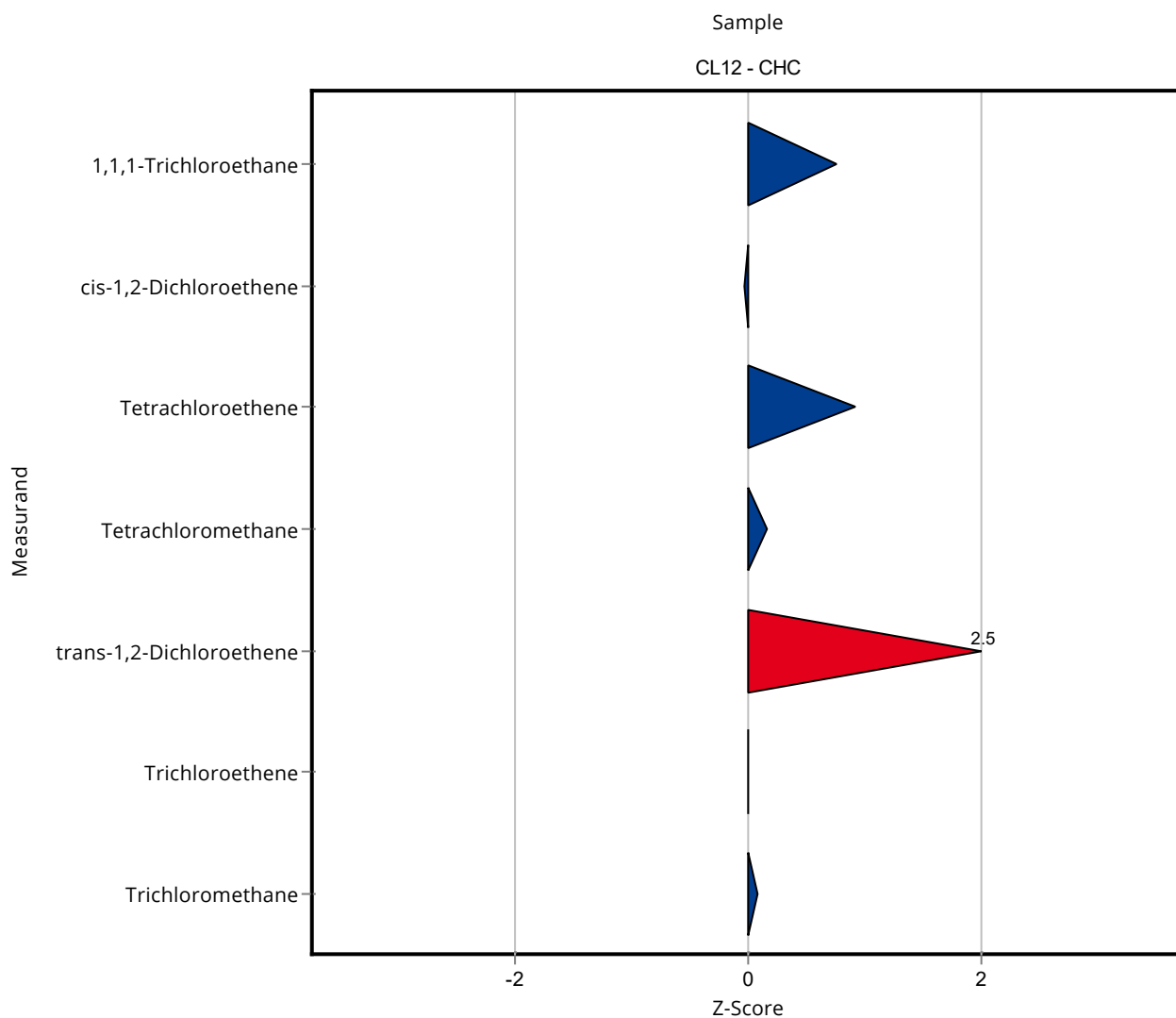
Sample: BL13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Benzene	µg/tube	4.66 ± 0.33	4.98 ± 0.25	0.699	107	0.54
Ethylbenzene	µg/tube	3.95 ± 0.214	4.42 ± 0.25	0.711	112	0.86
n-Decane	µg/tube	1.95 ± 0.231	1.66 ± 0.08	0.408	85.3	-1.02
n-Heptane	µg/tube	6.16 ± 0.421	- ± -	1.11	-	-
n-Hexane	µg/tube	6.33 ± 0.621	- ± -	1.01	-	-
n-Nonane	µg/tube	3.97 ± 0.271	3.9 ± 0.2	0.595	98.3	-0.14
n-Octane	µg/tube	5.37 ± 0.273	5.64 ± 0.28	0.913	105	0.44
n-Pentane	µg/tube	6 ± 0.812	- ± -	1.8	-	-
o-Xylene	µg/tube	3.5 ± 0.218	3.89 ± 0.2	0.63	111	0.86
Sum of m-Xylene and p-Xylene	µg/tube	7.24 ± 0.498	8.36 ± 0.4	1.38	116	1.19
Toluene	µg/tube	4.48 ± 0.261	4.56 ± 0.25	0.672	102	0.15



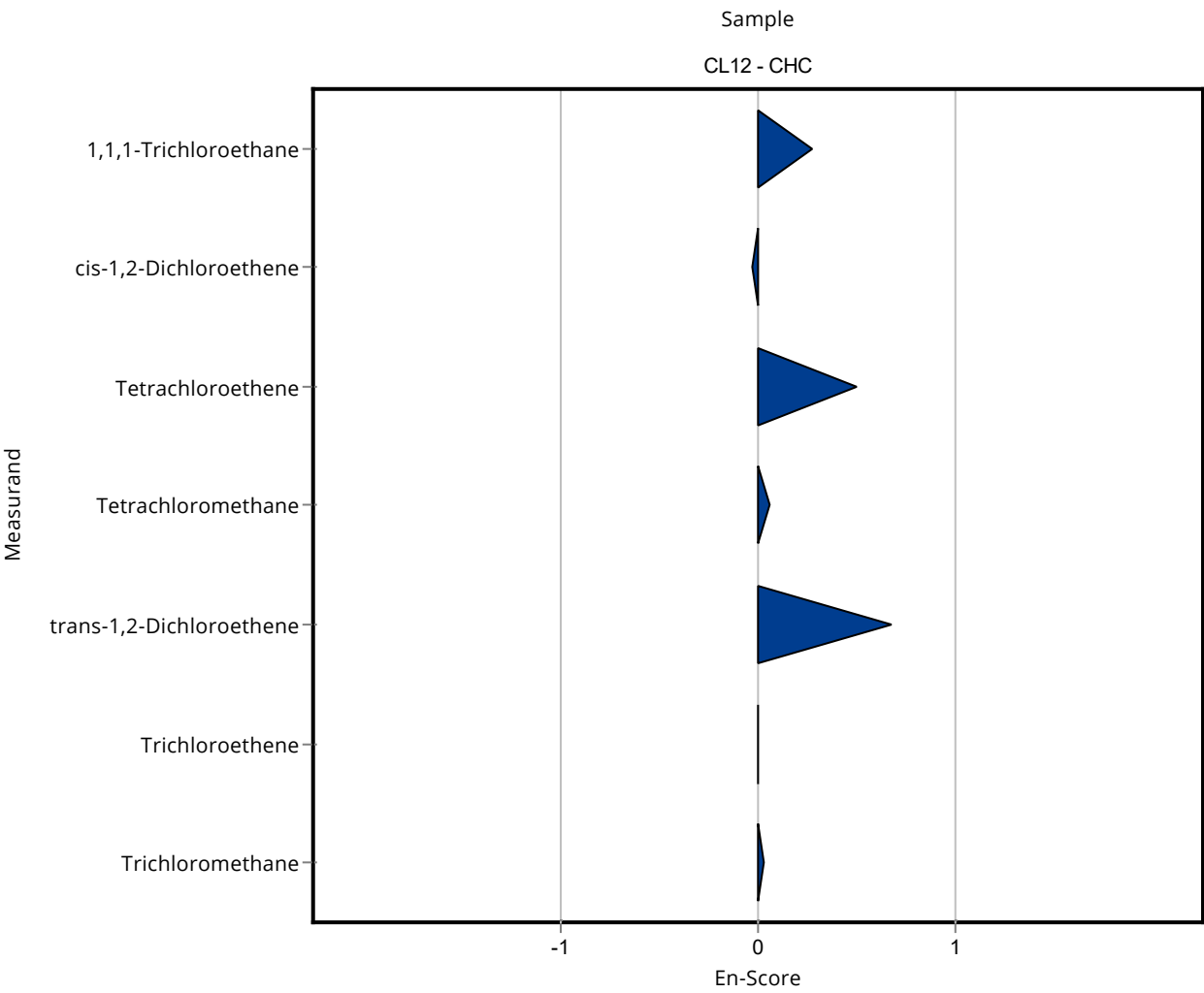
Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.01 ± 1.2	0.856	112	0.77
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.82 ± 0.76	1.43	99	-0.03
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.63 ± 0.93	1.06	127	0.92
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.47 ± 1.29	0.948	102	0.16
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	5.69 ± 1.14	0.621	138	2.50
Trichloroethene	µg/tube	4.49 ± 0.313	4.5 ± 0.9	1.12	100	0.01
Trichloromethane	µg/tube	4.64 ± 0.213	4.69 ± 0.94	0.649	101	0.08



Sample: CL12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
1,1,1-Trichloroethane	µg/tube	5.35 ± 0.284	6.01 ± 1.2	0.856	112	0.27
cis-1,2-Dichloroethene	µg/tube	3.86 ± 0.227	3.82 ± 0.76	1.43	99	-0.03
Tetrachloroethene	µg/tube	3.66 ± 0.543	4.63 ± 0.93	1.06	127	0.50
Tetrachloromethane	µg/tube	6.32 ± 0.385	6.47 ± 1.29	0.948	102	0.06
trans-1,2-Dichloroethene	µg/tube	4.14 ± 0.203	5.69 ± 1.14	0.621	138	0.68
Trichloroethene	µg/tube	4.49 ± 0.313	4.5 ± 0.9	1.12	100	0.00
Trichloromethane	µg/tube	4.64 ± 0.213	4.69 ± 0.94	0.649	101	0.03



E9. Methodenübersicht / Overview of methods

LabCode	Sample	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Tetrachloromethane
LC0002	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0003	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0005	CL12	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);
LC0006	CL12	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4
LC0008	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0009	CL12	HS-GC-ECD; house method	HS-GC-ECD; house method	HS-GC-ECD; house method	HS-GC-ECD; house method
LC0010	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0011	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0012	CL12	GC-MS;	GC-MS;	GC-MS;	GC-MS;
LC0013	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0014	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0016	CL12	EN ISO 10301 (GC-ECD); F4	EN ISO 10301 (GC-ECD); F4	EN ISO 10301 (GC-ECD); F4	EN ISO 10301 (GC-ECD); F4
LC0017	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0018	CL12	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);	
LC0019	CL12	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);
LC0023	CL12	ON M 5700-2 (GC);	ON M 5700-2 (GC);	ON M 5700-2 (GC);	ON M 5700-2 (GC);

LabCode	Sample	1,1,1-Trichloroethane	Trichloroethene	Trichloromethane
LC0002	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0003	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0005	CL12	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);
LC0006	CL12	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4
LC0008	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0009	CL12	HS-GC-ECD; house method	HS-GC-ECD; house method	HS-GC-ECD; house method
LC0010	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0011	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0012	CL12	GC-MS;	GC-MS;	GC-MS;
LC0013	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0014	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0016	CL12	EN ISO 10301 (GC-ECD); F4	EN ISO 10301 (GC-ECD); F4	EN ISO 10301 (GC-ECD); F4
LC0017	CL12	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0018	CL12	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);
LC0019	CL12	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);
LC0023	CL12	ON M 5700-2 (GC);	ON M 5700-2 (GC);	ON M 5700-2 (GC);

LabCode	Sample	Benzene	Toluene	Ethylbenzene	o-Xylene
LC0001	BL13	EN 14662-5 (GC); house method	EN 14662-5 (GC); house method	EN 14662-5 (GC); house method	EN 14662-5 (GC); house method
LC0002	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0003	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0004	BL13	EN 14662-5 (GC-FID);	EN 14662-5 (GC);	EN 14662-5 (GC);	EN 14662-5 (GC);
LC0005	BL13	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);
LC0006	BL13	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4	EN ISO 10301 (GC); F4
LC0007	BL13	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);
LC0008	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0009	BL13	HS-GC-FID; house method	HS-GC-FID; house method	HS-GC-FID; house method	HS-GC-FID; house method
LC0010	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0011	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0012	BL13	GC-MS;	GC-MS;	GC-MS;	GC-MS;
LC0013	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0014	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0015	BL13	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);
LC0016	BL13	EN ISO 10301 (GC- FID); F4	EN ISO 10301 (GC- FID); F4	EN ISO 10301 (GC- FID); F4	EN ISO 10301 (GC- FID); F4
LC0017	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0018	BL13	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);	VDI 3865-3 (GC-MS);
LC0019	BL13	VDI 2100 (ITEX-GC- MS);	VDI 2100 (ITEX-GC- MS);	VDI 2100 (ITEX-GC- MS);	VDI 2100 (ITEX-GC- MS);
LC0020	BL13	GC-MS/MS; house method	GC; IFA- Arbeitsmappe Nr. 7733	GC; IFA- Arbeitsmappe Nr. 7733	GC; IFA- Arbeitsmappe Nr. 7733
LC0021	BL13	EN 14662-5 (GC-MS);	EN 14662-5 (GC-MS);	EN 14662-5 (GC-MS);	EN 14662-5 (GC-MS);
LC0022	BL13	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);

LabCode	Sample	Sum of m-Xylene and p-Xylene	n-Decane	n-Heptane	n-Hexane
LC0001	BL13	EN 14662-5 (GC); house method			
LC0002	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0003	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0004	BL13	EN 14662-5 (GC);			
LC0005	BL13	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);	VDI 3865-3 (HS-GC- MS);
LC0006	BL13	EN ISO 10301 (GC); F4			
LC0007	BL13	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);	CEN/TS 13649 (GC- MS/FID);
LC0008	BL13	VDI 3865-3 (GC);			
LC0009	BL13	HS-GC-FID; house method	HS-GC-FID; house method	HS-GC-FID; house method	HS-GC-FID; house method

LC0010	BL13	VDI 3865-3 (GC);		VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0011	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0012	BL13	GC-MS;			
LC0013	BL13	VDI 3865-3 (GC);			
LC0014	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0015	BL13	CEN/TS 13649 (GC);			
LC0016	BL13	EN ISO 10301 (GC-FID); F4	EN ISO 10301 (GC-FID); F4	EN ISO 10301 (GC-FID); F4	EN ISO 10301 (GC-FID); F4
LC0017	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0018	BL13	VDI 3865-3 (GC-MS);			
LC0019	BL13	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);
LC0020	BL13	GC; IFA-Arbeitsmappe Nr. 7733	GC; IFA-Arbeitsmappe Nr. 7732	GC; IFA-Arbeitsmappe Nr. 7732	GC; IFA-Arbeitsmappe Nr. 7732
LC0021	BL13	EN 14662-5 (GC-MS);			
LC0022	BL13	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);		

LabCode	Sample	n-Nonane	n-Octane	n-Pentane
LC0001	BL13			
LC0002	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0003	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	
LC0004	BL13			
LC0005	BL13	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);	VDI 3865-3 (HS-GC-MS);
LC0006	BL13			
LC0007	BL13	CEN/TS 13649 (GC-MS/FID);	CEN/TS 13649 (GC-MS/FID);	CEN/TS 13649 (GC-MS/FID);
LC0008	BL13			
LC0009	BL13	HS-GC-FID; house method	HS-GC-FID; house method	HS-GC-FID; house method
LC0010	BL13		VDI 3865-3 (GC);	
LC0011	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0012	BL13			
LC0013	BL13			
LC0014	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0015	BL13			
LC0016	BL13	EN ISO 10301 (GC-FID); F4	EN ISO 10301 (GC-FID); F4	EN ISO 10301 (GC-FID); F4
LC0017	BL13	VDI 3865-3 (GC);	VDI 3865-3 (GC);	VDI 3865-3 (GC);
LC0018	BL13		VDI 3865-3 (GC-MS);	
LC0019	BL13	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);	VDI 2100 (ITEX-GC-MS);
LC0020	BL13	GC; IFA-Arbeitsmappe Nr. 7732	GC; IFA-Arbeitsmappe Nr. 7732	GC; IFA-Arbeitsmappe Nr. 7732
LC0021	BL13			
LC0022	BL13	CEN/TS 13649 (GC);	CEN/TS 13649 (GC);	