

**Proficiency Testing Scheme für die  
Wasseranalytik - Realproben  
PF01 Per- und polyfluorierte  
Alkylsubstanzen (PFAS)**

**Proficiency Testing Scheme for Water  
Analysis - natural water samples  
PF01 Per- and Polyfluoroalkyl  
substances (PFAS)**

**BERICHT / REPORT**

Probenversand / Sample dispatch: 08.11.2022

**Ausgabe/Edition 1: 15.12.2022**

Dieser Report umfasst 482 Seiten.  
This report comprises 482 pages.

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## **D1. Beschreibung des Ringversuchs**

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

- Anzahl der Anmeldungen: 21
- Anzahl der übermittelten Datensätze: 21
- Probenversand: 08.11.2022
- Einsendeschluss der Daten: 06.12.2022

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

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

### **D1.2. Beschreibung der Prüfgegenstände**

Die Probenahme von Trinkwasser erfolgte am 27.10.2022 und die Probenahme von Grundwasser erfolgte am 25.10.2022. Das Probenmaterial umfasste:

- 1 Probe Trinkwasser (PF01 A)
- 1 Probe Grundwasser (PF01 B)

Die o.a. Proben wurden bei 40 µm filtriert und im Rührkessel zusätzlich mit einzelnen Substanzen dotiert. Die Abfüllung der Proben erfolgte am 31.10.2022 unter ständigem Rühren (Rührkessel). Die Stabilisierung erfolgte durch Kühlung.

Alle Proben wurden anschließend bis zum Probenversand gekühlt gelagert (4 +/-3°C).

Die homogenen Prüfgegenstände wurden am 08.11.2022 verschickt.

Jedes teilnehmende Labor erhielt:

- 2 Proben zu je ca. 1000 ml, abgefüllt in je 1 x 1000 ml HDPE-Flaschen

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

Aus Stabilitätsgründen wurde empfohlen bis spätestens 16.11.2022 mit den Analysen zu beginnen.

Die Teilnehmer wurden im Zuge des Probenversands informiert (E-Mail), dass ein Nachspülen bzw. Auffüllen mit Methanol direkt in der 1 l Flasche für den PF01 - Per- und polyfluorierte Alkylsubstanzen (PFAS) - Ringversuch 2022 nicht vorgesehen war und die Konzentration an PFAS in der wässrigen Phase bestimmt werden sollte.

Die Teilnehmenden wurden darauf hingewiesen, dass aus der Flasche das benötigte Volumen für die weitere Probenaufbereitung abgefüllt werden sollte und nach dem Abfüllen die Prüfgegenstände genauso behandelt werden sollten, wie die Mehrzahl der routinemäßig geprüften Proben.

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

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

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

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

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

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

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

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

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 06.12.2022 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 eingestuften Werte wurden in der Auswertung gekennzeichnet („H“). In begründeten Fällen, z.B. wenn der Ausreißertest nach Hampel nicht anwendbar ist (z.B. Ergebnisse liegen sehr eng beieinander oder überwiegend selber Zahlenwert bzw. bei wenig abgegebenen Daten mit sehr hoher Streuung), kann eine Ausreißereliminierung nach weiteren Kriterien erfolgen (z.B. Dean- und Dixon Test bzw. manuelle Ausreißerdefinition aufgrund Expertenbefund). Diese Vorgangsweise wird nach Anwendung unter Punkt D4 des Berichts dokumentiert.

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

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

Bei sehr hohen Streuungen der Ergebnisse der Teilnehmenden von über 50 % oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmenden auf den Mittelwert des Kontrolllabores bzw. einer zu geringen Anzahl an ausreißerbereinigten Ergebnissen über die Gruppe der akkreditierten Labore, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der Ergebnisse der Teilnehmenden für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung

angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmenden kann ein Vergleich mit den Ergebnissen des Kontrolllabors durchgeführt werden. Diese Vorgehensweise wird bei Anwendung jeweils parameter- und probenbezogen unter Punkt D4 des Berichts dokumentiert.

## D2. Kriterien der Leistungsbewertung

### D2.1. Leistungskriterium z-Score

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

Die Ermittlung der z-Scores erfolgte gemäß nachfolgender Formel:

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

Dabei ist:

$x_i$	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
<i>Kriterium</i>	Vergleichsstandardabweichung berechnet aus den 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<sub>n</sub>-Score

Für die realen Wasserproben erfolgen seit 2019 zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmenden und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E<sub>n</sub>-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<sub>n</sub>-Scores erfolgte gemäß nachfolgender Formel:



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

Dabei ist:

$x_i$	Messergebnis des teilnehmenden Labors
$\bar{X}$	zugewiesener Wert Sollwert für die Leistungsbewertung der 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<sub>n</sub>-Score

#### Interpretation der z-Scores:

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

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

#### Interpretation der E<sub>n</sub>-Scores:

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

Hinweis: Bei der Bewertung mittels E<sub>n</sub>-Score erfolgt die Berücksichtigung der erweiterten Messunsicherheiten der 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.

Bei den folgenden Parametern erfolgte die Berechnung der Scores nach D2:

Perfluorpentansäure (PFPeA), Perfluoroctansäure (PFOA), Perfluordecansäure (PFDA), Perfluorundecansäure (PFUnDA), Perfluordodecansäure (PFDoDA), Perfluorbutansulfonsäure (PFBS), Perfluorpentansulfonsäure (PFPeS), Perfluorhexansulfonsäure (PFHxS), Perfluorheptansulfonsäure (PFHpS), Perfluoroctansulfonsäure (PFOS), Perfluornonansulfonsäure (PFNS), Perfluordecansulfonsäure (PFDS), 6:2 Fluorotelomersulfonat (6:2 FTS), 8:2 Fluorotelomersulfonat (8:2 FTS), Perfluor-4,8-dioxa-3H-nonansäure (DONA), 9-Chlorhexadecafluor-3-oxanon-sulfonsäure (Hauptkomponente F-53B), 2,3,3,3-Tetrafluor-2-(heptafluorpropoxy)propansäure (GenX) bei Probe PF01 A sowie Perfluorbutansäure (PFBA), Perfluorpentansäure (PFPeA), Perfluoroctansäure (PFOA), Perfluornonansäure (PFNA), Perfluordecansäure (PFDA), Perfluorundecansäure (PFUnDA), Perfluordodecansäure (PFDoDA),

Perfluorbutansulfonsäure (PFBS), Perfluorpentansulfonsäure (PFPeS),  
Perfluorhexansulfonsäure (PFHxS), Perfluorheptansulfonsäure (PFHpS),  
Perfluoroctansulfonsäure (PFOS), Perfluoronansulfonsäure (PFNS),  
Perfluordecansulfonsäure (PFDS), Perfluorundecansulfonsäure (PFUnDS), 6:2  
Fluorotelomersulfonat (6:2 FTS), Perfluor-4,8-dioxa-3H-nonansäure (DONA), 9-  
Chlorhexadecafluor-3-oxanon-sulfonsäure (Hauptkomponente F-53B), 2,3,3,3-  
Tetrafluor-2-(heptafluorpropoxy)propansäure (GenX) und N-Ethyl-  
Perfluoroctansulfonamidoessigsäure (N-EtFOSAA) bei Probe PF01 B.

Parameter Perfluortridecansulfonsäure (PFTTrDS) bei Probe PF01 A:  
Aufgrund der zu hohen Streuungen zwischen den Ergebnissen der teilnehmenden  
Labore ( $vR > 50\%$ ) konnte kein zugewiesener Wert festgelegt werden. Es wird im  
Rahmen der internen qualitätssichernden Maßnahmen ein informativer Vergleich mit  
dem Mittelwert, berechnet aus den Ergebnissen der Gruppe der akkreditierten Labore  
ohne Hampel-Ausreißer (H95) empfohlen:  
PFTTrDS MW (n=6):  $0.0153 \pm 0.0080$  U(k=2)  $\mu\text{g/l}$ .

Parameter N-Ethyl-Perfluoroctansulfonamidoessigsäure (N-EtFOSAA) bei Probe  
PF01 A:  
Aufgrund einer zu geringen Anzahl an übermittelten gültigen Ergebnissen der  
Teilnehmenden nach Ausreißerelimination (n < 6) konnte kein Sollwert berechnet  
werden. Es wird im Rahmen der internen qualitätssichernden Maßnahmen ein  
informativer Vergleich mit dem Mittelwert, berechnet aus den Ergebnissen der Labore  
ohne Hampel-Ausreißer (H95) empfohlen:  
N-EtFOSAA MW (n=5):  $0.0144 \pm 0.00134$  U(k=2)  $\mu\text{g/l}$ .

Parameter Perfluorhexansäure (PFHxA), Perfluorheptansäure (PFHpA),  
Perfluoronansäure (PFNA), Perfluortridecansäure (PFTTrDA),  
Perfluortetradecansäure (PFTeDA), Perfluorundecansulfonsäure (PFUnDS),  
Perfluordodecansulfonsäure (PFDoS), 4:2 Fluorotelomersulfonat (4:2 FTS) bei Probe  
PF01 A und Perfluorhexansäure (PFHxA), Perfluorheptansäure (PFHpA),  
Perfluortridecansäure (PFTTrDA), Perfluortetradecansäure (PFTeDA),  
Perfluordodecansulfonsäure (PFDoS), Perfluortridecansulfonsäure (PFTTrDS), 4:2  
Fluorotelomersulfonat (4:2 FTS), 8:2 Fluorotelomersulfonat (8:2 FTS) bei Probe PF01  
B:

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

## D5. Erläuterung zu Tabellen und Grafiken

### D5.1. Angaben und Abkürzungen in Tabellen

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

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

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

n Anzahl der Messergebnisse

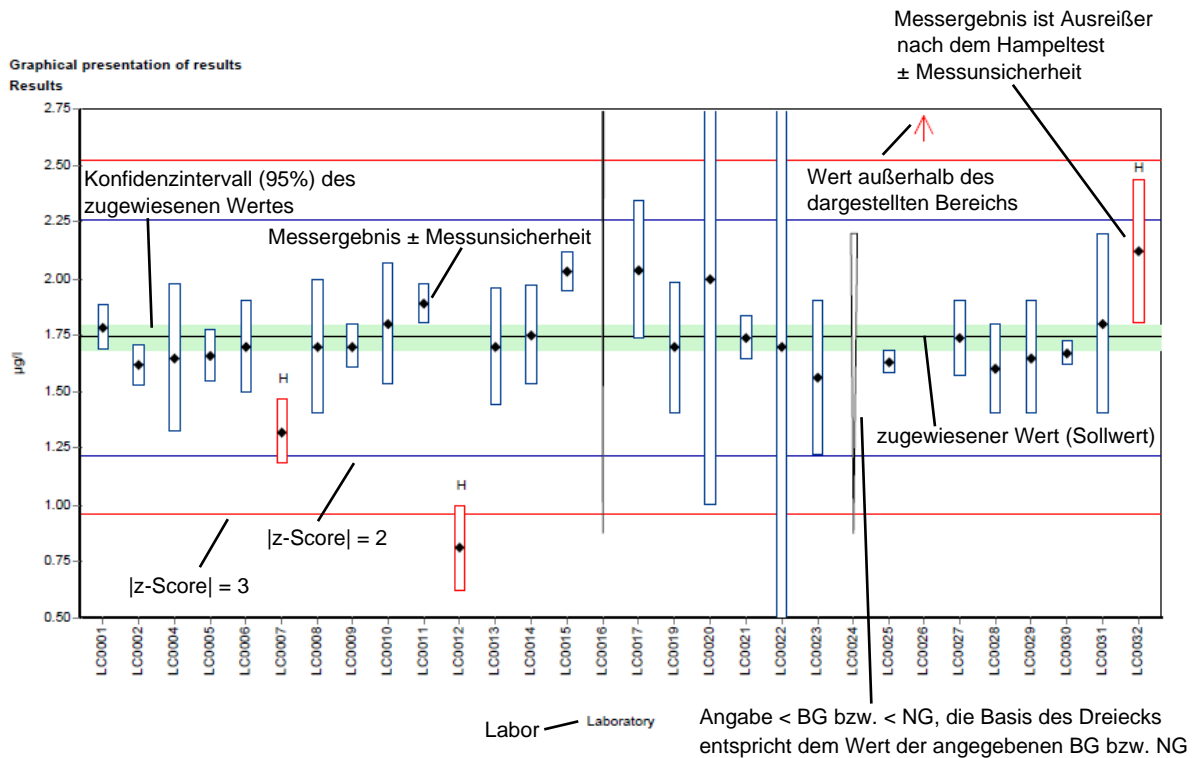
\* Kennzeichnung für Hinweise zur Erläuterung

\*\* Kennzeichnung für Hinweise zur Erläuterung

## D5.2. Graphische Darstellung der Ergebnisse

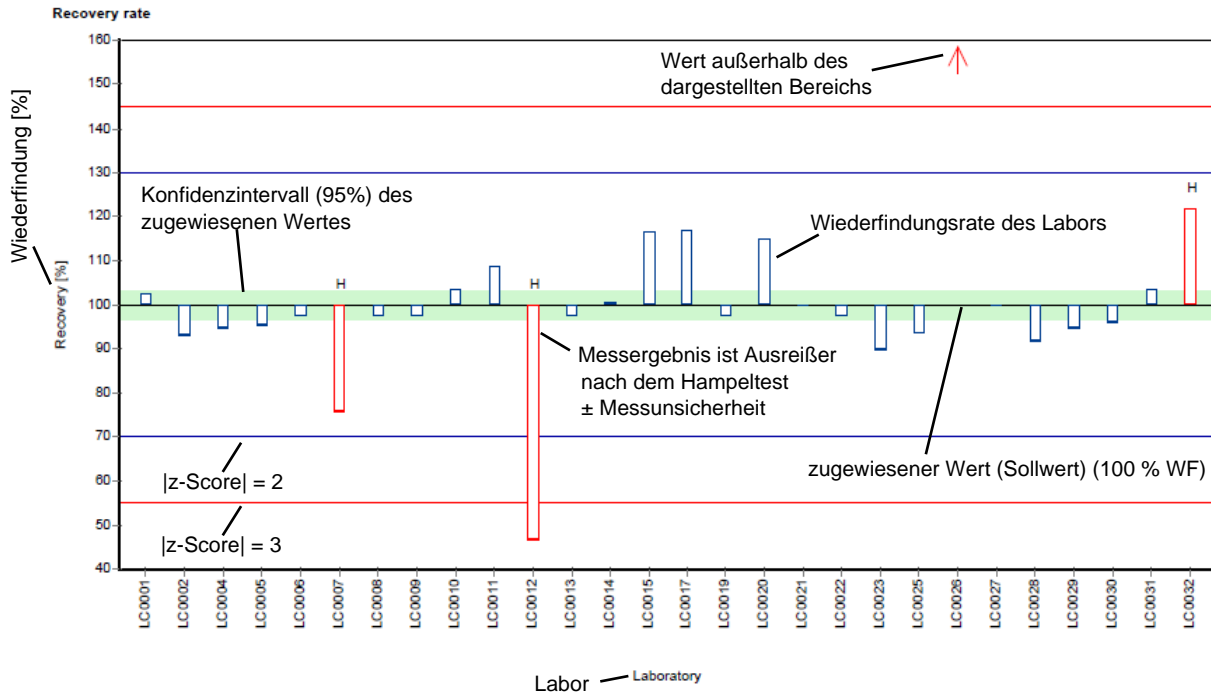
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

### Beispieldiagramm: Messwerte



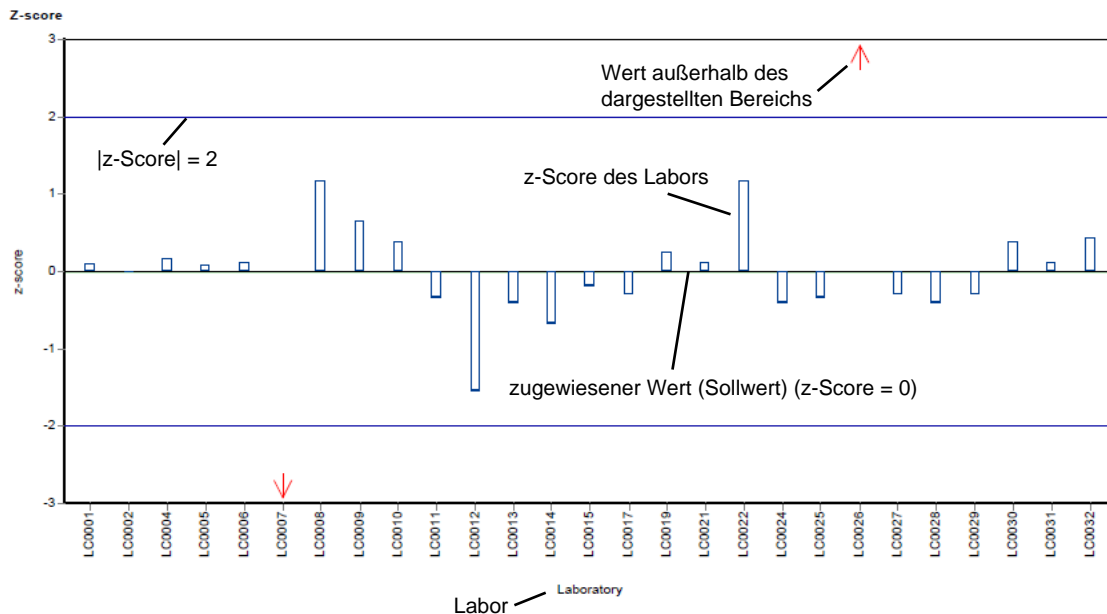
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

### Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

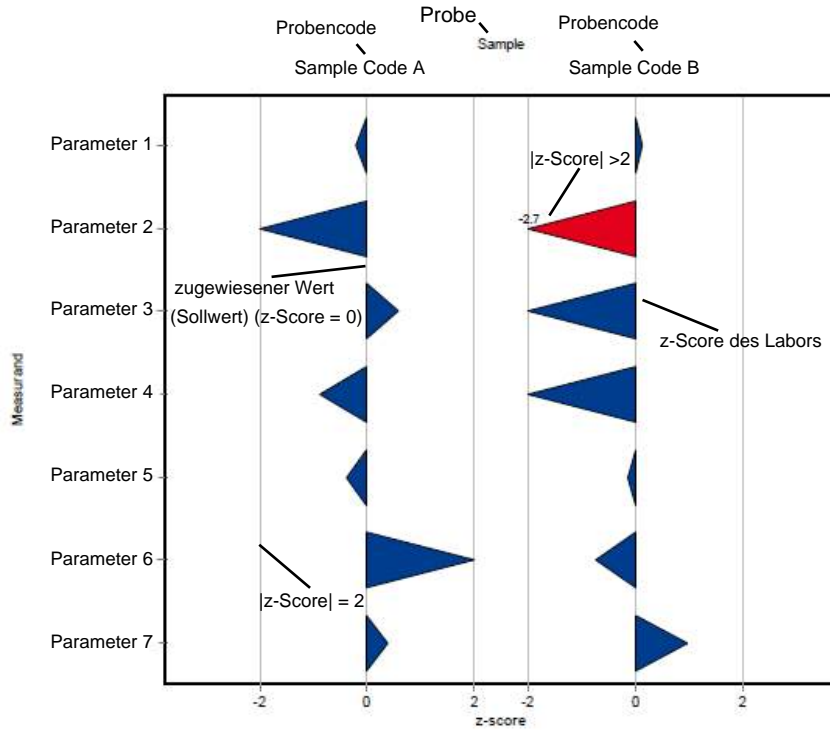
### Beispieldiagramm: z-Score



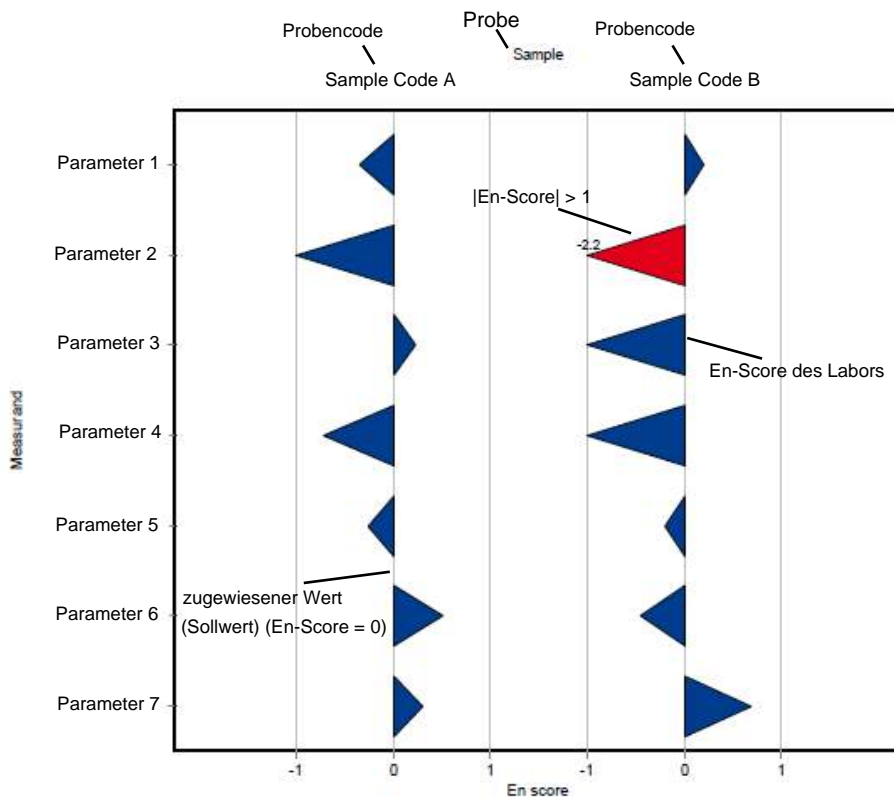
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.



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



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



## D6. Zusammenfassung

### D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener	±	U (k=2)	Kriterium	Kriterium [%]
Perfluorbutansäure (PFBA) - PF4C	PF01 A	µg/l	0.0156	± 0.000853	0.00219	14	
	PF01 B	µg/l	0.103	± 0.00675	0.0144	14	
Perfluorpentansäure (PFPeA) - PF5C	PF01 A	µg/l	0.0162	± 0.000935	0.0021	13	
	PF01 B	µg/l	0.0828	± 0.00365	0.00828	10	
Perfluorhexansäure (PFHxA) - PF6C	PF01 A	µg/l	0.011	± 0.000606	0.00143	13	
	PF01 B	µg/l	0.176	± 0.00728	0.0176	10	
Perfluorheptansäure (PFHpA) - PF7C	PF01 A	µg/l	0.0126	± 0.000981	0.00177	14	
	PF01 B	µg/l	0.0385	± 0.00246	0.00539	14	
Perfluoroctansäure (PFOA) - PF8C	PF01 A	µg/l	0.0314	± 0.00153	0.00346	11	
	PF01 B	µg/l	0.168	± 0.0102	0.0236	14	
Perfluornonansäure (PFNA) - PF9C	PF01 A	µg/l	0.0118	± 0.000741	0.00141	12	
	PF01 B	µg/l	0.116	± 0.00542	0.0116	10	
Perfluordecansäure (PFDA) - PF10C	PF01 A	µg/l	0.00808	± 0.000565	0.00121	15	
	PF01 B	µg/l	0.0392	± 0.00321	0.00706	18	
Perfluorundecansäure (PFUnDA) - PF11C	PF01 A	µg/l	0.0122	± 0.00108	0.00219	18	
	PF01 B	µg/l	0.0538	± 0.00561	0.0118	22	
Perfluordodecansäure (PFDoDA) - PF12C	PF01 A	µg/l	0.0127	± 0.00122	0.00241	19	
	PF01 B	µg/l	0.02	± 0.00255	0.0054	27	
Perfluortridecansäure (PFTrDA) - PF13C	PF01 A	µg/l	0.00528	± 0.000706	0.0018	34	
	PF01 B	µg/l	0.0114	± 0.00116	0.00262	23	
Perfluortetradecansäure (PFTeDA) - PF14C	PF01 A	µg/l	0.00566	± 0.00182	0.00277	49	
	PF01 B	µg/l	0.0128	± 0.00278	0.00588	46	
Perfluorbutansulfonsäure (PFBS) - PF4S	PF01 A	µg/l	0.0254	± 0.00127	0.00279	11	
	PF01 B	µg/l	0.0301	± 0.00259	0.00602	20	
Perfluorpentansulfonsäure (PFPeS) - PF5S	PF01 A	µg/l	0.0184	± 0.00108	0.00221	12	
	PF01 B	µg/l	0.0745	± 0.00382	0.00819	11	
Perfluorhexansulfonsäure (PFHxS) - PF6S	PF01 A	µg/l	0.04	± 0.00169	0.004	10	
	PF01 B	µg/l	0.0547	± 0.00369	0.00821	15	
Perfluorheptansulfonsäure (PFHpS) - PF7S	PF01 A	µg/l	0.022	± 0.0015	0.00309	14	
	PF01 B	µg/l	0.039	± 0.00409	0.00898	23	
Perfluoroctansulfonsäure (PFOS) - PF8S	PF01 A	µg/l	0.0443	± 0.00302	0.00665	15	
	PF01 B	µg/l	0.118	± 0.00961	0.0213	18	
Perfluornonansulfonsäure (PFNS) - PF9S	PF01 A	µg/l	0.0177	± 0.00303	0.00548	31	
	PF01 B	µg/l	0.0915	± 0.00999	0.0174	19	

Parameter	Probe	Einheit	zugewiesener	±	U (k=2)	Kriterium	Kriterium [%]
Perfluordecansulfonsäure (PFDS) - PF10S	PF01 A	µg/l	0.02	±	0.00244	0.0048	24
	PF01 B	µg/l	0.0561	±	0.00765	0.0157	28
Perfluorundecansulfonsäure (PFUnDS) - PF11S	PF01 A	µg/l	0.0183	±	0.00558	0.00714	39
	PF01 B	µg/l	0.0288	±	0.00548	0.0095	33
Perfluordodecansulfonsäure (PFDoS) - PF12S	PF01 A	µg/l	0.0141	±	0.00504	0.00618	44
	PF01 B	µg/l	0.011	±	0.00203	0.00307	28
Perfluortridecansulfonsäure (PFTrDS) - PF13S*	PF01 A	µg/l	-	±	-	-	-
	PF01 B	µg/l	0.0119	±	0.00377	0.00499	42
N-Ethyl-Perfluorooctansulfonamidoessigsäure (N-EtFOSAA)**	PF01 A	µg/l	-	±	-	-	-
	PF01 B	µg/l	0.0598	±	0.00631	0.00777	13
4:2 Fluorotelomersulfonat (4:2 FTS)	PF01 A	µg/l	0.0202	±	0.00251	0.00323	16
	PF01 B	µg/l	0.0847	±	0.00815	0.0135	16
6:2 Fluorotelomersulfonat (6:2 FTS)	PF01 A	µg/l	0.0197	±	0.00167	0.00276	14
	PF01 B	µg/l	0.17	±	0.0112	0.0187	11
8:2 Fluorotelomersulfonat (8:2 FTS)	PF01 A	µg/l	0.0348	±	0.00592	0.00835	24
	PF01 B	µg/l	0.113	±	0.0186	0.0261	23
Perfluor-4,8-dioxa-3H-nonansäure (DONA)	PF01 A	µg/l	0.0298	±	0.00268	0.00357	12
	PF01 B	µg/l	0.115	±	0.0195	0.0275	24
2,3,3,3-Tetrafluor-2-(heptafluorpropoxy)propansäure (GenX)	PF01 A	µg/l	0.0431	±	0.00488	0.00646	15
	PF01 B	µg/l	0.226	±	0.00994	0.0226	10
9-Chlorhexadecafluor-3-oxanon-sulfonsäure (Hauptkomponente F-53B)	PF01 A	µg/l	0.0172	±	0.00171	0.00223	13
	PF01 B	µg/l	0.148	±	0.0156	0.0207	14

\*Aufgrund einer zu hohen Streuung zwischen den Ergebnissen der teilnehmenden Labore bei Perfluortridecansulfonsäure (PFTrDS) - PF13S bei Probe PF01 A ist die Festlegung eines zugewiesenen Wertes nicht möglich. Für diesen Parameter ist zur Information der berechnete Mittelwert MW +/- U(k=2) über die Daten der akkreditierten Labore (n) angegeben. Dieser kann zum Vergleich im Rahmen Ihrer QS-Maßnahmen herangezogen werden. Perfluortridecansulfonsäure (PFTrDS) - PF13S PF01 A (n=6): 0.0153 +/- 0.0080 U(k=2) µg/l

\*\*Aufgrund einer geringen Anzahl an übermittelten ausreißerbereinigten Ergebnissen der Teilnehmenden bei N-Ethyl-Perfluorooctansulfonamidoessigsäure (N-EtFOSAA) bei Probe PF01 A ist die Festlegung eines zugewiesenen Wertes nicht möglich. Für diesen Parameter ist zur Information der berechnete Mittelwert MW +/- U(k=2) über die Daten der Labore (n) angegeben. Dieser kann zum Vergleich im Rahmen Ihrer QS-Maßnahmen herangezogen werden. N-Ethyl-Perfluorooctansulfonamidoessigsäure (N-EtFOSAA) PF01 A (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l

## D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für	Anzahl Ausreißer	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Perfluorbutansäure (PFBA) - PF4C	PF01 A	16	3	µg/l	0.0154	± 0.00114	0.013	0.018	0.00152	9.9
	PF01 B	18	2	µg/l	0.103	± 0.0101	0.071	0.139	0.0143	14
Perfluorpentansäure (PFPeA) - PF5C	PF01 A	19	1	µg/l	0.0162	± 0.0014	0.012	0.0195	0.00204	13
	PF01 B	18	3	µg/l	0.0828	± 0.00548	0.0659	0.103	0.00775	9.4
Perfluorhexansäure (PFHxA) - PF6C	PF01 A	16	3	µg/l	0.0107	± 0.000748	0.009	0.0124	0.000998	9.3
	PF01 B	19	1	µg/l	0.171	± 0.0118	0.138	0.201	0.0172	10
Perfluorheptansäure (PFHpA) - PF7C	PF01 A	20	1	µg/l	0.0125	± 0.00118	0.00943	0.016	0.00176	14
	PF01 B	20	1	µg/l	0.0379	± 0.00352	0.03	0.0481	0.00525	14
Perfluoroctansäure (PFOA) - PF8C	PF01 A	19	2	µg/l	0.0314	± 0.0023	0.026	0.04	0.00333	11
	PF01 B	20	1	µg/l	0.168	± 0.0153	0.13	0.213	0.0229	14
Perfluornonansäure (PFNA) - PF9C	PF01 A	19	1	µg/l	0.0115	± 0.000964	0.009	0.0145	0.0014	12
	PF01 B	19	2	µg/l	0.116	± 0.00813	0.091	0.132	0.0118	10
Perfluordecansäure (PFDA) - PF10C	PF01 A	18	1	µg/l	0.00808	± 0.000848	0.006	0.01	0.0012	15
	PF01 B	19	2	µg/l	0.0392	± 0.00481	0.024	0.0498	0.00699	18
Perfluorundecansäure (PFUnDA) - PF11C	PF01 A	17	1	µg/l	0.0122	± 0.00162	0.0095	0.017	0.00222	18
	PF01 B	18	1	µg/l	0.0538	± 0.00841	0.0228	0.073	0.0119	22
Perfluordodecansäure (PFDoDA) - PF12C	PF01 A	16	2	µg/l	0.0127	± 0.00183	0.0079	0.0171	0.00243	19
	PF01 B	18	0	µg/l	0.02	± 0.00383	0.00888	0.0273	0.00541	27
Perfluortridecansäure (PFTrDA) - PF13C	PF01 A	12	3	µg/l	0.00483	± 0.00111	0.00243	0.0072	0.00128	26
	PF01 B	12	3	µg/l	0.0107	± 0.00216	0.00582	0.014	0.0025	23
Perfluortetradecansäure (PFTeDA) - PF14C	PF01 A	6	1	µg/l	0.00566	± 0.00273	0.00224	0.00911	0.00223	39
	PF01 B	7	2	µg/l	0.0124	± 0.00372	0.00738	0.017	0.00328	26
Perfluorbutansulfonsäure (PFBS) - PF4S	PF01 A	19	2	µg/l	0.0254	± 0.0019	0.0219	0.0315	0.00276	11

Parameter	Probe	Anzahl Labors für	Anzahl Ausreißer	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Perfluorbutansulfonsäure (PFBS) - PF4S	PF01 B	21	0	µg/l	0.0301	± 0.00389	0.0138	0.04	0.00594	20
Perfluorpentansulfonsäure (PFPeS) - PF5S	PF01 A	17	2	µg/l	0.0184	± 0.00162	0.015	0.023	0.00222	12
	PF01 B	17	2	µg/l	0.0745	± 0.00573	0.057	0.0882	0.00787	11
Perfluorhexansulfonsäure (PFHxS) - PF6S	PF01 A	18	3	µg/l	0.04	± 0.00254	0.034	0.047	0.00359	9
	PF01 B	20	1	µg/l	0.0547	± 0.00554	0.042	0.0719	0.00826	15
Perfluorheptansulfonsäure (PFHpS) - PF7S	PF01 A	17	2	µg/l	0.022	± 0.00225	0.015	0.027	0.00309	14
	PF01 B	19	0	µg/l	0.039	± 0.00613	0.0167	0.0537	0.0089	23
Perfluoroctansulfonsäure (PFOS) - PF8S	PF01 A	20	1	µg/l	0.0443	± 0.00453	0.035	0.0582	0.00676	15
	PF01 B	20	1	µg/l	0.118	± 0.0144	0.08	0.161	0.0215	18
Perfluornonansulfonsäure (PFNS) - PF9S	PF01 A	13	1	µg/l	0.0177	± 0.00455	0.00703	0.028	0.00547	31
	PF01 B	12	2	µg/l	0.0915	± 0.015	0.066	0.134	0.0173	19
Perfluordecansulfonsäure (PFDS) - PF10S	PF01 A	15	2	µg/l	0.02	± 0.00366	0.00926	0.029	0.00473	24
	PF01 B	17	1	µg/l	0.0561	± 0.0115	0.0271	0.0799	0.0158	28
Perfluorundecansulfonsäure (PFUnDS) - PF11S	PF01 A	10	2	µg/l	0.0162	± 0.00602	0.00678	0.0294	0.00635	39
	PF01 B	12	1	µg/l	0.0288	± 0.00821	0.0162	0.049	0.00948	33
Perfluordodecansulfonsäure (PFDoS) - PF12S	PF01 A	11	1	µg/l	0.0128	± 0.00481	0.00614	0.0215	0.00532	42
	PF01 B	10	1	µg/l	0.0103	± 0.00274	0.0056	0.0154	0.00289	28
Perfluortridecansulfonsäure (PFTrDS) - PF13S	PF01 A	10	0	µg/l	0.017	± 0.0112	0.00521	0.042	0.0119	70
	PF01 B	10	1	µg/l	0.0119	± 0.00456	0.00422	0.0181	0.00481	40
N-Ethyl-Perfluoroctansulfonamidoessigsäure (N-EtFOSAA)	PF01 A	5	2	µg/l	-	± -	0.0121	0.016	-	-
	PF01 B	6	0	µg/l	0.0598	± 0.00946	0.047	0.0688	0.00773	13

Parameter	Probe	Anzahl Labors für	Anzahl Ausreißer	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
4:2 Fluorotelomersulfonat (4:2 FTS)	PF01 A	8	0	µg/l	0.0203	± 0.00327	0.0158	0.0254	0.00309	15
	PF01 B	7	1	µg/l	0.084	± 0.0105	0.0684	0.0938	0.00928	11
6:2 Fluorotelomersulfonat (6:2 FTS)	PF01 A	11	1	µg/l	0.0197	± 0.0025	0.0147	0.0254	0.00276	14
	PF01 B	11	1	µg/l	0.17	± 0.0168	0.146	0.214	0.0185	11
8:2 Fluorotelomersulfonat (8:2 FTS)	PF01 A	8	1	µg/l	0.0348	± 0.00888	0.022	0.049	0.00837	24
	PF01 B	9	0	µg/l	0.113	± 0.0246	0.0759	0.146	0.0246	22
Perfluor-4,8-dioxa-3H-nonansäure (DONA)	PF01 A	7	1	µg/l	0.0298	± 0.00402	0.0235	0.0352	0.00355	12
	PF01 B	8	0	µg/l	0.115	± 0.0292	0.0781	0.168	0.0275	24
2,3,3,3-Tetrafluor-2-(heptafluorpropoxy)propansäure (GenX)	PF01 A	7	0	µg/l	0.0431	± 0.00732	0.0371	0.056	0.00646	15
	PF01 B	7	0	µg/l	0.226	± 0.0149	0.203	0.239	0.0131	5.8
9-Chlorhexadecafluor-3-oxanon-sulfonsäure (Hauptkomponente F-53B)	PF01 A	7	0	µg/l	0.0172	± 0.00257	0.0143	0.02	0.00227	13
	PF01 B	7	0	µg/l	0.148	± 0.0234	0.115	0.175	0.0206	14

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

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

- Number of registrations: 21
- Number of submitted data records: 21
- Dispatch of samples: November 08<sup>th</sup>, 2022
- Closing date for submission of data: December 06<sup>th</sup>, 2022

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

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

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

The sampling of drinking water and ground water was carried out on 27<sup>th</sup> of October 2022 (drinking water) and on 25<sup>th</sup> of October 2022 (ground water).

The following samples were made available

- 1 sample drinking water (PF01 A)
- 1 sample ground water (PF01 B)

The samples were filtered (40 µm) and partly spiked with specific substances in the stirring vessel. On the 31<sup>st</sup> of October 2022, the samples were filled into bottles under continuous stirring (stirring vessel) and stabilized by cooling.

Both samples were stored at 4 +/- 3°C until sample shipment.

The homogeneous proficiency test items were dispatched on November 08<sup>th</sup>, 2022.

Each participant received:

- 2 samples each 1000 ml, filled in 1 x 1000 ml HDPE bottles.

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

For reasons of stability, it was recommended to start the analysis by the 16<sup>th</sup> of November 2022 at the latest.

In course of the sample dispatch all participants were informed by e-mail that rinsing of the samples or filling up with methanol directly in the 1 l bottle was not intended for the PF01 - per- and polyfluoroalkyl substances (PFAS) - proficiency test round 2022 and that the concentration of PFAS had to be determined in the aqueous phase.

Furthermore, the participants were advised to fill the required volume for further sample preparation and afterwards to handle the test items in the same manner as the majority of routinely tested samples.

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

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

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

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

During evaluation the relative standard deviation between the individual results of the control test samples was assessed 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 bottles were filled for the proficiency test: No systematic trends could be identified.

Based on past experience and on the trend test evaluation of the current round, the stability of the test items for proficiency testing of real water samples can be confirmed for the recommended analysis period until deadline for submission of data.



## E1.6. Determination of the assigned values

The analytical results had to be made available to the organiser not later than 06<sup>th</sup> of December 2022. Any values received at a later date were not considered.

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

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

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

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

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

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

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

## E2. Criteria of performance evaluation

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

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

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

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

In this context,

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

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

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

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

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

In this context,

$x_i$	is the measurement value (result) of the participating laboratory
$\bar{X}$	assigned value

the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4

$U(x_i)$	expanded measurement uncertainty for the result of the participating laboratory, $k=2$
$U(\bar{X})$	expanded measurement uncertainty for the assigned value, $k=2$

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

For following listed parameters scores were calculated according to E2:

Perfluoropentanoic acid (PFPeA), Perfluorooctanoic acid (PFOA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnDA), Perfluorododecanoic acid (PFDoDA), Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononane sulfonic acid (PFNS), Perfluorodecane sulfonic acid (PFDS), 6:2 Fluorotelomer sulfonate (6:2 FTS), 8:2 Fluorotelomer sulfonate (8:2 FTS), Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA), 9-Chlorhexadecafluoro-3-oxanone sulfonic acid (main component F-53B), 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX) for sample PF01 A and Perfluorobutanoic acid (PFBA), Perfluoropentanoic acid (PFPeA), Perfluorooctanoic acid (PFOA), Perfluorononoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnDA), Perfluorododecanoic acid (PFDoDA), Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononane sulfonic acid (PFNS), Perfluorodecane sulfonic acid (PFDS), Perfluoroundecane sulfonic acid (PFUnDS), 6:2 Fluorotelomer sulfonate (6:2 FTS), Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA), 9-Chlorhexadecafluoro-3-oxanon sulfonic acid (main component F-53B), 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX) and N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA) for sample PF01 B.

Parameter Perfluorotridecane sulfonic acid (PFTTrDS) for sample PF01 A:

No assigned value could be determined due to the too high scatter between the results of the participating laboratories ( $vR > 50\%$ ). For this parameter we recommend to compare your results with the calculated mean of the group of accredited laboratories without Hampel-outliers (H95) in course of your internal quality assurance measures (QA):

PFTTrDS MV (n=6): 0.0153 +/- 0.0080 U(k=2) µg/l.

Parameter N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA) for sample PF01 A: An assigned value could not be calculated because of the small number of submitted valid results after outlier elimination ( $n < 6$ ). For this parameter we recommend to compare your results with the mean of the results of the participating laboratories:

N-EtFOSAA MV (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l.

Parameters Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorononanoic acid (PFNA), Perfluorotridecanoic acid (PFTTrDA), Perfluorotetradecanoic acid (PFTTeDA), Perfluoroundecane sulfonic acid (PFUnDS), Perfluorododecane sulfonic acid (PFDoS), 4:2 Fluorotelomer sulfonate (4:2 FTS) for sample PF01 A and Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorotridecanoic acid (PFTTrDA), Perfluorotetradecanoic acid (PFTTeDA), Perfluorododecane sulfonic acid (PFDoS), Perfluorotridecane sulfonic acid (PFTTrDS), 4:2 Fluorotelomer sulfonate (4:2 FTS), 8:2 Fluorotelomer sulfonate (8:2 FTS) for sample PF01 B:

The assigned values calculated based on the participant 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.

## E5. Annotations on tables and charts

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

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

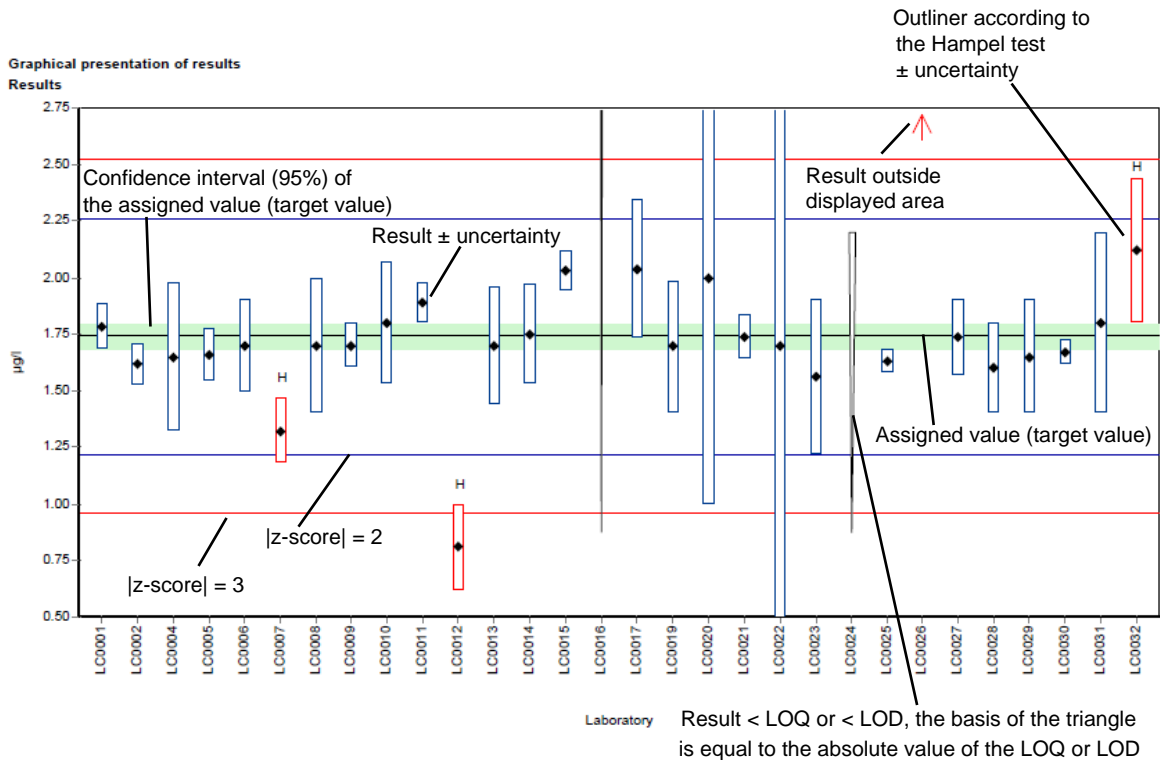
Criteria	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criteria [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99 % confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Control test value ± U (k=2)	Mean of control test value ± expanded measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result ± U	Result as indicated by participant (max. 5 decimal places) combined measurement uncertainty without expansion factor (k=1), as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on assigned value (target value) (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on the assigned value (target value) given as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
E <sub>n</sub> -Score	Deviation of result based on the assigned value (target value) given as a multiple of the combined expanded measurement uncertainty of the participant's results and expanded measurement uncertainty for the assigned value (3 significant digits, max. 2 decimal places given). Note: E <sub>n</sub> -Score assessment takes into account the measurement uncertainty of the participants.
-	No data available or no calculation possible
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test

FN	False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.
FP	False positive – for parameters where no target value is available because of a too low analyte content ( $n < 6$ ): Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.
Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
*	mark for additional comments
**	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:

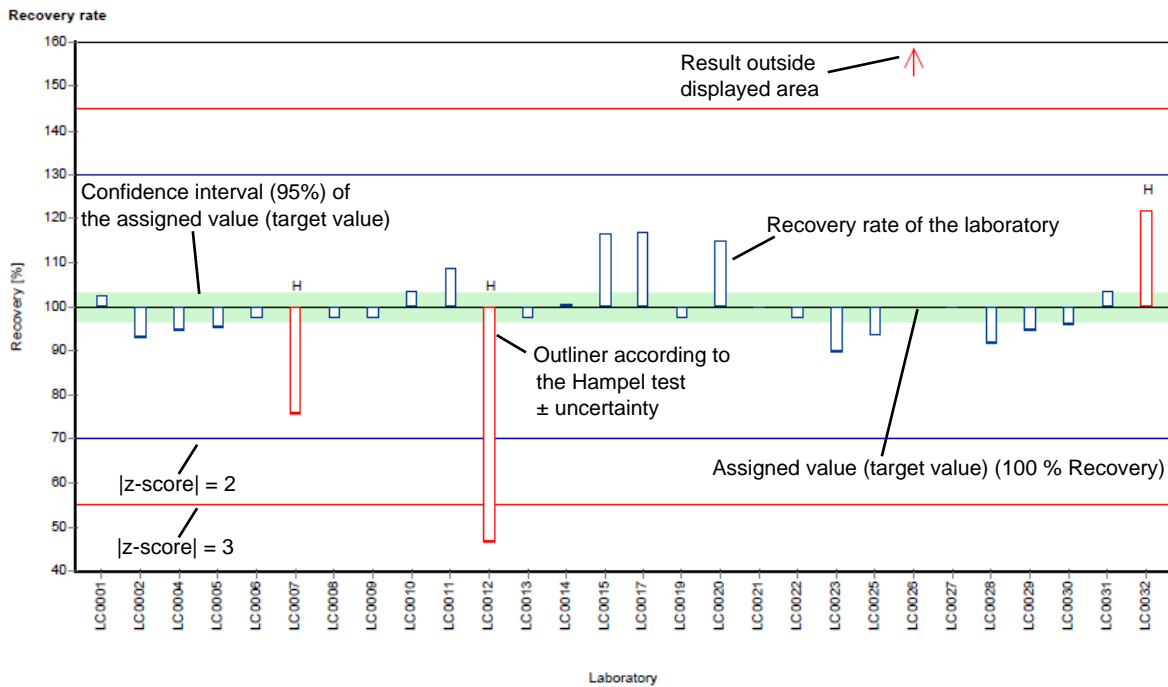
### Example chart: Results



Different analysis methods are represented with different colors.

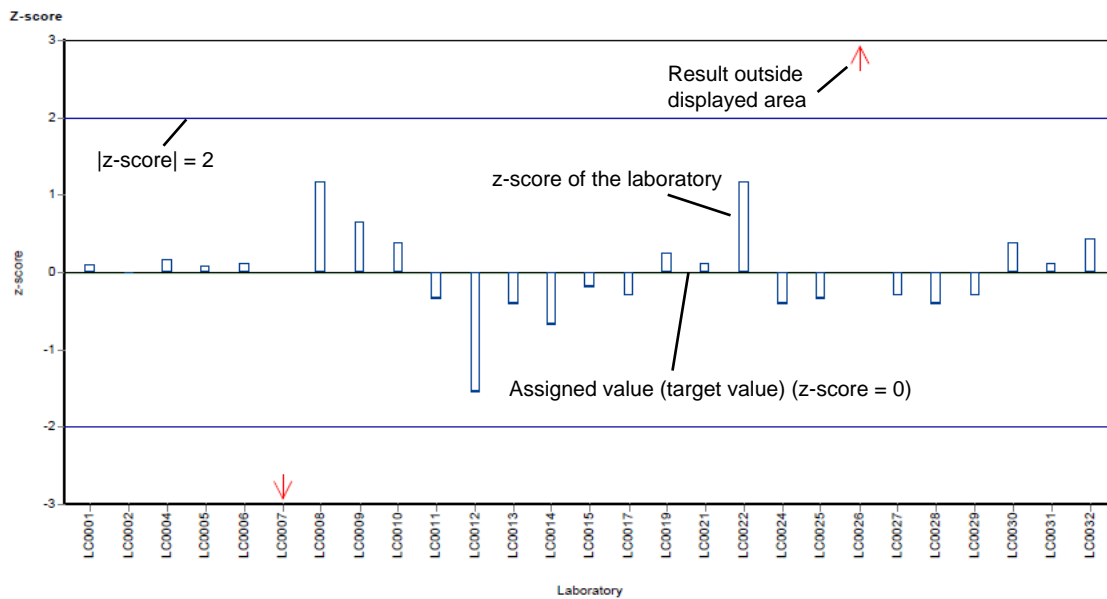


### Example chart: Recovery



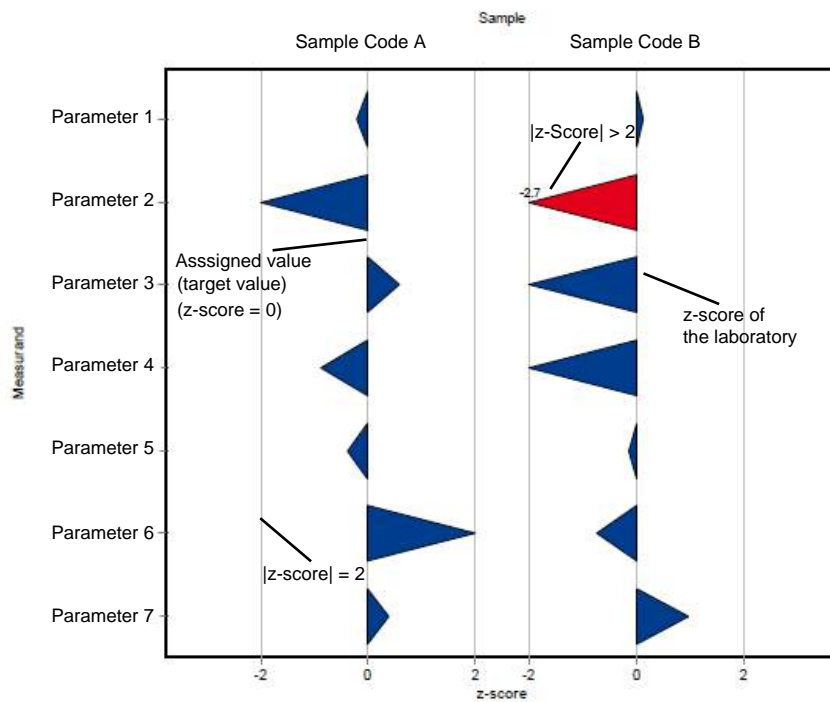
Different analysis methods are represented with different colors.

### Example chart: z-score

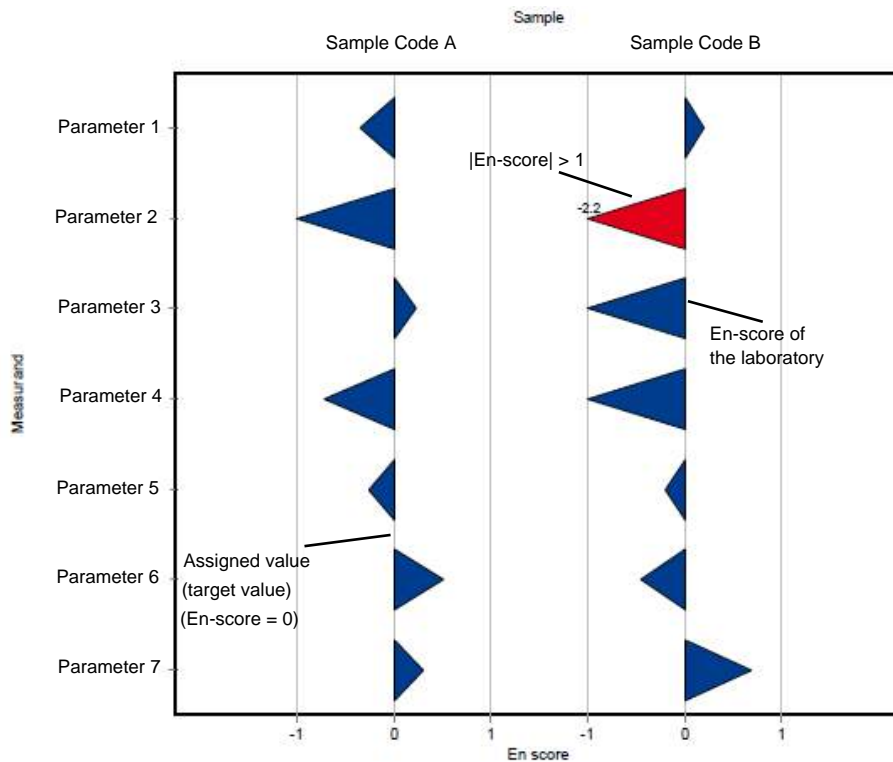


Different analysis methods are represented with different colors.

**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 [%]
Perfluorobutanoic acid (PFBA) - PF4C	PF01 A	µg/l	0.0156 ± 0.000853	0.00219	14
	PF01 B	µg/l	0.103 ± 0.00675	0.0144	14
Perfluoropentanoic acid (PFPeA) - PF5C	PF01 A	µg/l	0.0162 ± 0.000935	0.0021	13
	PF01 B	µg/l	0.0828 ± 0.00365	0.00828	10
Perfluorohexanoic acid (PFHxA) - PF6C	PF01 A	µg/l	0.011 ± 0.000606	0.00143	13
	PF01 B	µg/l	0.176 ± 0.00728	0.0176	10
Perfluoroheptanoic acid (PFHpA) - PF7C	PF01 A	µg/l	0.0126 ± 0.000981	0.00177	14
	PF01 B	µg/l	0.0385 ± 0.00246	0.00539	14
Perfluorooctanoic acid (PFOA) - PF8C	PF01 A	µg/l	0.0314 ± 0.00153	0.00346	11
	PF01 B	µg/l	0.168 ± 0.0102	0.0236	14
Perfluorononanoic acid (PFNA) - PF9C	PF01 A	µg/l	0.0118 ± 0.000741	0.00141	12
	PF01 B	µg/l	0.116 ± 0.00542	0.0116	10
Perfluorodecanoic acid (PFDA) - PF10C	PF01 A	µg/l	0.00808 ± 0.000565	0.00121	15
	PF01 B	µg/l	0.0392 ± 0.00321	0.00706	18
Perfluoroundecanoic acid (PFUnDA) - PF11C	PF01 A	µg/l	0.0122 ± 0.00108	0.00219	18
	PF01 B	µg/l	0.0538 ± 0.00561	0.0118	22
Perfluorododecanoic acid (PFDoDA) - PF12C	PF01 A	µg/l	0.0127 ± 0.00122	0.00241	19
	PF01 B	µg/l	0.02 ± 0.00255	0.0054	27
Perfluorotridecanoic acid (PFTrDA) - PF13C	PF01 A	µg/l	0.00528 ± 0.000706	0.0018	34
	PF01 B	µg/l	0.0114 ± 0.00116	0.00262	23
Perfluorotetradecanoic acid (PFTeDA) - PF14C	PF01 A	µg/l	0.00566 ± 0.00182	0.00277	49
	PF01 B	µg/l	0.0128 ± 0.00278	0.00588	46
Perfluorobutane sulfonic acid (PFBS) - PF4S	PF01 A	µg/l	0.0254 ± 0.00127	0.00279	11
	PF01 B	µg/l	0.0301 ± 0.00259	0.00602	20
Perfluoropentane sulfonic acid (PFPeS) - PF5S	PF01 A	µg/l	0.0184 ± 0.00108	0.00221	12
	PF01 B	µg/l	0.0745 ± 0.00382	0.00819	11
Perfluorohexane sulfonic acid (PFHxS) - PF6S	PF01 A	µg/l	0.04 ± 0.00169	0.004	10
	PF01 B	µg/l	0.0547 ± 0.00369	0.00821	15
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF01 A	µg/l	0.022 ± 0.0015	0.00309	14
	PF01 B	µg/l	0.039 ± 0.00409	0.00898	23
Perfluorooctane sulfonic acid (PFOS) - PF8S	PF01 A	µg/l	0.0443 ± 0.00302	0.00665	15
	PF01 B	µg/l	0.118 ± 0.00961	0.0213	18

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Perfluorononane sulfonic acid (PFNS) - PF9S	PF01 A	µg/l	0.0177 ±	0.00303	0.00548	31
	PF01 B	µg/l	0.0915 ±	0.00999	0.0174	19
Perfluorodecane sulfonic acid (PFDS) - PF10S	PF01 A	µg/l	0.02 ±	0.00244	0.0048	24
	PF01 B	µg/l	0.0561 ±	0.00765	0.0157	28
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF01 A	µg/l	0.0183 ±	0.00558	0.00714	39
	PF01 B	µg/l	0.0288 ±	0.00548	0.0095	33
Perfluorododecane sulfonic acid (PFDoS) - PF12S	PF01 A	µg/l	0.0141 ±	0.00504	0.00618	44
	PF01 B	µg/l	0.011 ±	0.00203	0.00307	28
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S *	PF01 A	µg/l	- ±	-	-	-
	PF01 B	µg/l	0.0119 ±	0.00377	0.00499	42
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)**	PF01 A	µg/l	- ±	-	-	-
	PF01 B	µg/l	0.0598 ±	0.00631	0.00777	13
4:2 Fluorotelomer sulfonate (4:2 FTS)	PF01 A	µg/l	0.0202 ±	0.00251	0.00323	16
	PF01 B	µg/l	0.0847 ±	0.00815	0.0135	16
6:2 Fluorotelomer sulfonate (6:2 FTS)	PF01 A	µg/l	0.0197 ±	0.00167	0.00276	14
	PF01 B	µg/l	0.17 ±	0.0112	0.0187	11
8:2 Fluorotelomer sulfonate (8:2 FTS)	PF01 A	µg/l	0.0348 ±	0.00592	0.00835	24
	PF01 B	µg/l	0.113 ±	0.0186	0.0261	23
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	PF01 A	µg/l	0.0298 ±	0.00268	0.00357	12
	PF01 B	µg/l	0.115 ±	0.0195	0.0275	24
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	PF01 A	µg/l	0.0431 ±	0.00488	0.00646	15
	PF01 B	µg/l	0.226 ±	0.00994	0.0226	10
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	PF01 A	µg/l	0.0172 ±	0.00171	0.00223	13
	PF01 B	µg/l	0.148 ±	0.0156	0.0207	14

\*Due to a too high scatter between the results of the participating laboratories for Perfluorotridecane sulfonic acid (PFTrDS) - PF13S for sample PF01 A, the definition of an assigned value is not possible. For this substance, the calculated mean value MV +/- U(k=2) based on the data of the accredited laboratories (n) is listed for information. This can be used for comparison as part of your internal QA measures.

Perfluorotridecane sulfonic acid (PFTrDS) - PF13S PF01 A (n=6): 0.0153 +/- 0.0080 U(k=2) µg/l

\*\*Due to the small number of submitted results for N-Ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) for sample PF01 A the definition of an assigned value is not possible.

For this substance, the calculated mean value MV +/- U(k=2) based on the data of the laboratories (n) is listed for information. This can be used for comparison as part of your internal QA measures.

N-Ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) PF01 A (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l

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

Parameter	Sample	Number of results for	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Perfluorobutanoic acid (PFBA) - PF4C	PF01 A	16	3	µg/l	0.0154	± 0.00114	0.013	0.018	0.00152	9.9
	PF01 B	18	2	µg/l	0.103	± 0.0101	0.071	0.139	0.0143	14
Perfluoropentanoic acid (PFPeA) - PF5C	PF01 A	19	1	µg/l	0.0162	± 0.0014	0.012	0.0195	0.00204	13
	PF01 B	18	3	µg/l	0.0828	± 0.00548	0.0659	0.103	0.00775	9.4
Perfluorohexanoic acid (PFHxA) - PF6C	PF01 A	16	3	µg/l	0.0107	± 0.000748	0.009	0.0124	0.000998	9.3
	PF01 B	19	1	µg/l	0.171	± 0.0118	0.138	0.201	0.0172	10
Perfluoroheptanoic acid (PFHpA) - PF7C	PF01 A	20	1	µg/l	0.0125	± 0.00118	0.00943	0.016	0.00176	14
	PF01 B	20	1	µg/l	0.0379	± 0.00352	0.03	0.0481	0.00525	14
Perfluorooctanoic acid (PFOA) - PF8C	PF01 A	19	2	µg/l	0.0314	± 0.0023	0.026	0.04	0.00333	11
	PF01 B	20	1	µg/l	0.168	± 0.0153	0.13	0.213	0.0229	14
Perfluorononanoic acid (PFNA) - PF9C	PF01 A	19	1	µg/l	0.0115	± 0.000964	0.009	0.0145	0.0014	12
	PF01 B	19	2	µg/l	0.116	± 0.00813	0.091	0.132	0.0118	10
Perfluorodecanoic acid (PFDA) - PF10C	PF01 A	18	1	µg/l	0.00808	± 0.000848	0.006	0.01	0.0012	15
	PF01 B	19	2	µg/l	0.0392	± 0.00481	0.024	0.0498	0.00699	18
Perfluoroundecanoic acid (PFUnDA) - PF11C	PF01 A	17	1	µg/l	0.0122	± 0.00162	0.0095	0.017	0.00222	18
	PF01 B	18	1	µg/l	0.0538	± 0.00841	0.0228	0.073	0.0119	22
Perfluorododecanoic acid (PFDoDA) - PF12C	PF01 A	16	2	µg/l	0.0127	± 0.00183	0.0079	0.0171	0.00243	19
	PF01 B	18	0	µg/l	0.02	± 0.00383	0.00888	0.0273	0.00541	27
Perfluorotridecanoic acid (PFTrDA) - PF13C	PF01 A	12	3	µg/l	0.00483	± 0.00111	0.00243	0.0072	0.00128	26

Parameter	Sample	Number of results for	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Perfluorotetradecanoic acid (PFTeDA) - PF14C	PF01 B	12	3	µg/l	0.0107	± 0.00216	0.00582	0.014	0.0025	23
	PF01 A	6	1	µg/l	0.00566	± 0.00273	0.00224	0.00911	0.00223	39
Perfluorobutane sulfonic acid (PFBS) - PF4S	PF01 B	7	2	µg/l	0.0124	± 0.00372	0.00738	0.017	0.00328	26
	PF01 A	19	2	µg/l	0.0254	± 0.0019	0.0219	0.0315	0.00276	11
Perfluoropentane sulfonic acid (PFPeS) - PF5S	PF01 B	21	0	µg/l	0.0301	± 0.00389	0.0138	0.04	0.00594	20
	PF01 A	17	2	µg/l	0.0184	± 0.00162	0.015	0.023	0.00222	12
Perfluorohexane sulfonic acid (PFHxS) - PF6S	PF01 B	17	2	µg/l	0.0745	± 0.00573	0.057	0.0882	0.00787	11
	PF01 A	18	3	µg/l	0.04	± 0.00254	0.034	0.047	0.00359	9
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF01 B	20	1	µg/l	0.0547	± 0.00554	0.042	0.0719	0.00826	15
	PF01 A	17	2	µg/l	0.022	± 0.00225	0.015	0.027	0.00309	14
Perfluorooctane sulfonic acid (PFOS) - PF8S	PF01 B	19	0	µg/l	0.039	± 0.00613	0.0167	0.0537	0.0089	23
	PF01 A	20	1	µg/l	0.0443	± 0.00453	0.035	0.0582	0.00676	15
Perfluorononane sulfonic acid (PFNS) - PF9S	PF01 B	20	1	µg/l	0.118	± 0.0144	0.08	0.161	0.0215	18
	PF01 A	13	1	µg/l	0.0177	± 0.00455	0.00703	0.028	0.00547	31
Perfluorodecane sulfonic acid (PFDS) - PF10S	PF01 B	12	2	µg/l	0.0915	± 0.015	0.066	0.134	0.0173	19
	PF01 A	15	2	µg/l	0.02	± 0.00366	0.00926	0.029	0.00473	24
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF01 B	17	1	µg/l	0.0561	± 0.0115	0.0271	0.0799	0.0158	28
	PF01 A	10	2	µg/l	0.0162	± 0.00602	0.00678	0.0294	0.00635	39

Parameter	Sample	Number of results for	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF01 B	12	1	µg/l	0.0288	± 0.00821	0.0162	0.049	0.00948	33
Perfluorododecane sulfonic acid (PFDoS) - PF12S	PF01 A	11	1	µg/l	0.0128	± 0.00481	0.00614	0.0215	0.00532	42
	PF01 B	10	1	µg/l	0.0103	± 0.00274	0.0056	0.0154	0.00289	28
Perfluorotridecane sulfonic acid (PFTTrDS) - PF13S	PF01 A	10	0	µg/l	0.017	± 0.0112	0.00521	0.042	0.0119	70
	PF01 B	10	1	µg/l	0.0119	± 0.00456	0.00422	0.0181	0.00481	40
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	PF01 A	5	2	µg/l	-	± -	0.0121	0.016	-	-
	PF01 B	6	0	µg/l	0.0598	± 0.00946	0.047	0.0688	0.00773	13
4:2 Fluorotelomer sulfonate (4:2 FTS)	PF01 A	8	0	µg/l	0.0203	± 0.00327	0.0158	0.0254	0.00309	15
	PF01 B	7	1	µg/l	0.084	± 0.0105	0.0684	0.0938	0.00928	11
6:2 Fluorotelomer sulfonate (6:2 FTS)	PF01 A	11	1	µg/l	0.0197	± 0.0025	0.0147	0.0254	0.00276	14
	PF01 B	11	1	µg/l	0.17	± 0.0168	0.146	0.214	0.0185	11
8:2 Fluorotelomer sulfonate (8:2 FTS)	PF01 A	8	1	µg/l	0.0348	± 0.00888	0.022	0.049	0.00837	24
	PF01 B	9	0	µg/l	0.113	± 0.0246	0.0759	0.146	0.0246	22
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	PF01 A	7	1	µg/l	0.0298	± 0.00402	0.0235	0.0352	0.00355	12
	PF01 B	8	0	µg/l	0.115	± 0.0292	0.0781	0.168	0.0275	24
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	PF01 A	7	0	µg/l	0.0431	± 0.00732	0.0371	0.056	0.00646	15
	PF01 B	7	0	µg/l	0.226	± 0.0149	0.203	0.239	0.0131	5.8
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	PF01 A	7	0	µg/l	0.0172	± 0.00257	0.0143	0.02	0.00227	13
	PF01 B	7	0	µg/l	0.148	± 0.0234	0.115	0.175	0.0206	14

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Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

## Parameter oriented report

### PF01 A

#### Perfluorobutanoic acid (PFBA) - PF4C

Unit	µg/l
Assigned value ± U (k=2)	0.0156 ± 0.000853
Criterion	0.00219 (14 %)
Minimum - Maximum	0.013 - 0.018
Control test value ± U (k=2)	0.0111 ± 0.005

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0143	0.00057	91.5	-0.6	
LC0002	0.013	0.002	83.2	-1.2	
LC0003	0.0167	0.0025	107	0.49	
LC0004	0.015	0.004	96	-0.28	
LC0005	0.0149	0.006	95.4	-0.33	
LC0006	0.0149	0.00536	95.4	-0.33	
LC0007	0.015	0.003	96	-0.28	
LC0008	0.018	0.009	115	1.09	
LC0009	0.00719	0.00252	46	-3.86	H
LC0010	0.0207	0.0014	133	2.32	H
LC0011	-	-	-	-	
LC0012	0.01744	0.00802	112	0.83	
LC0013	0.016	0.005	102	0.17	
LC0014	0.0148	0.00445	94.7	-0.38	
LC0015	0.0137	0.0055	87.7	-0.88	
LC0016	0.0208	0.003	133	2.37	H
LC0017	0.014	0.003	89.6	-0.74	
LC0018	0.0169	0.0056	108	0.58	
LC0019	0.0145	0.0025	92.8	-0.51	
LC0020	< 0.03 (LOQ)	-	-	-	
LC0021	0.0178	0.0054	114	1	

#### Characteristics of parameter

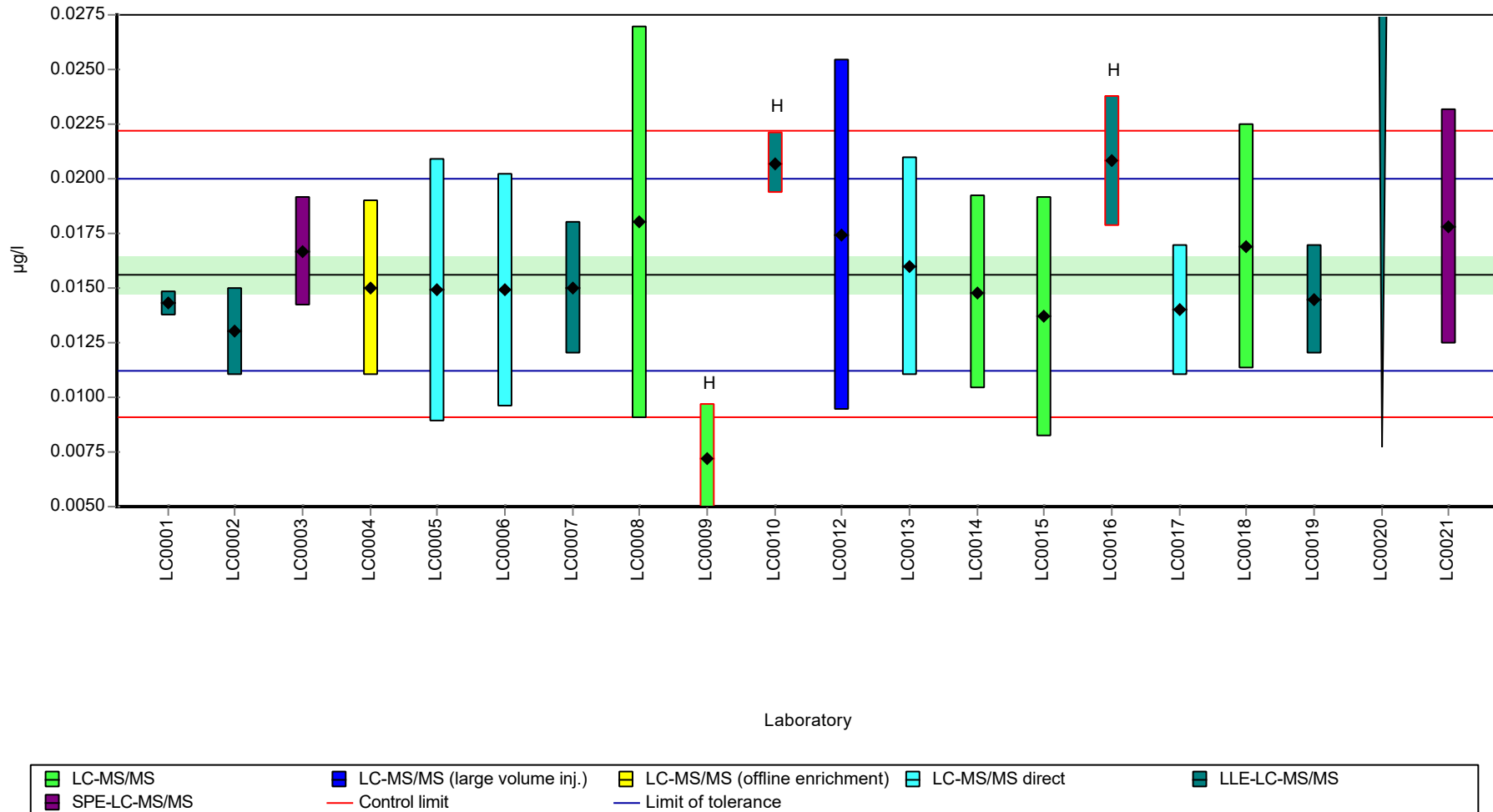
	all results	without outliers	Unit
Mean ± CI (99%)	0.0156 ± 0.00205	0.0154 ± 0.00114	µg/l
Minimum	0.00719	0.013	µg/l
Maximum	0.0208	0.018	µg/l
Standard deviation	0.00297	0.00152	µg/l
rel. standard deviation	19.1	9.87	%
n	19	16	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

Graphical presentation of results

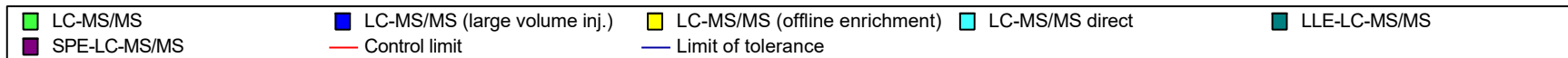
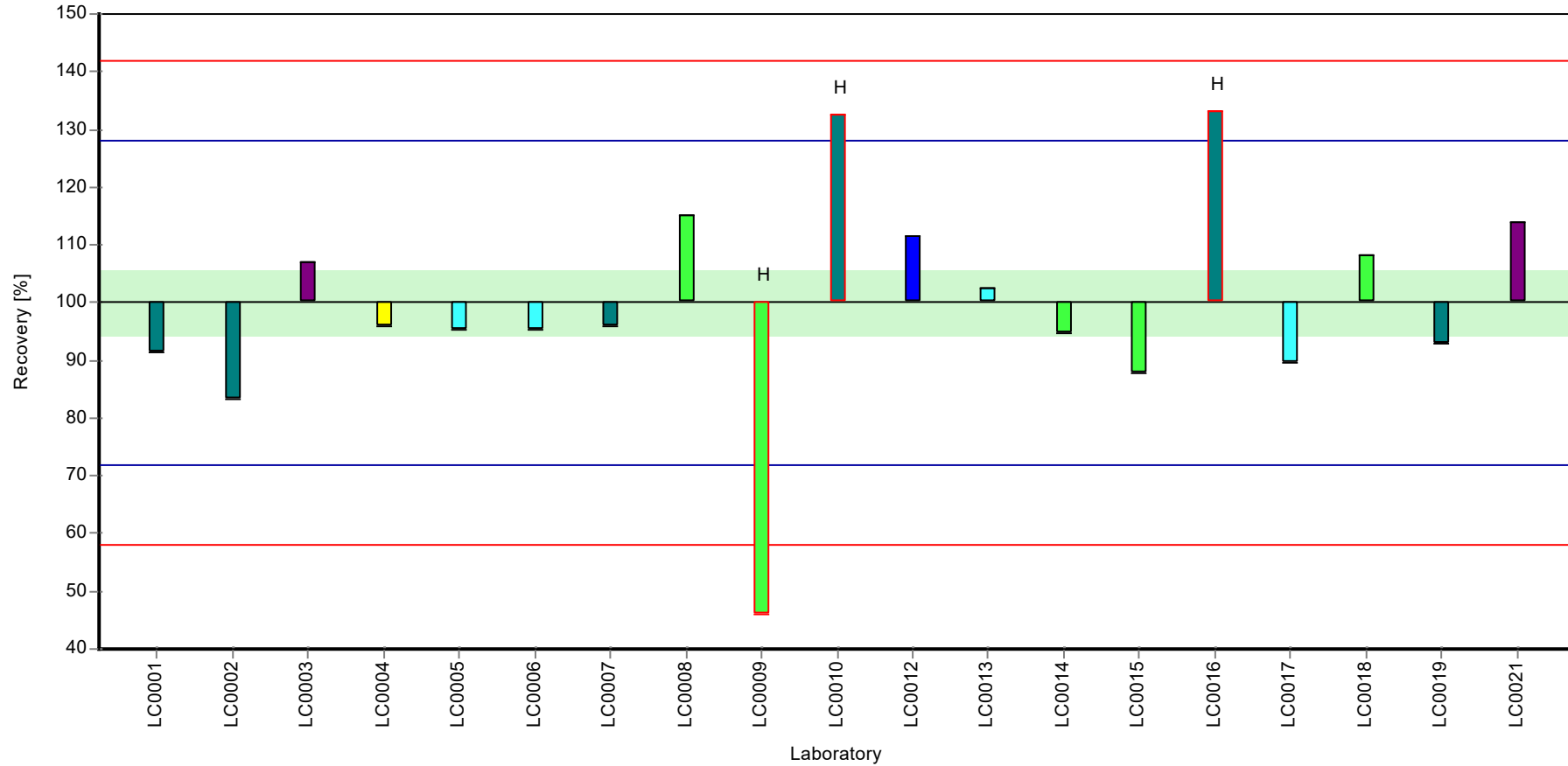
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

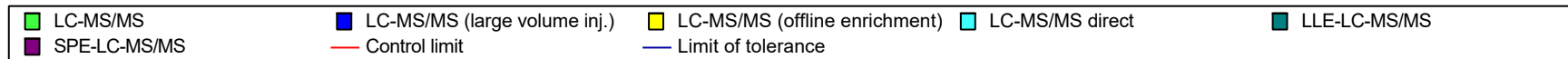
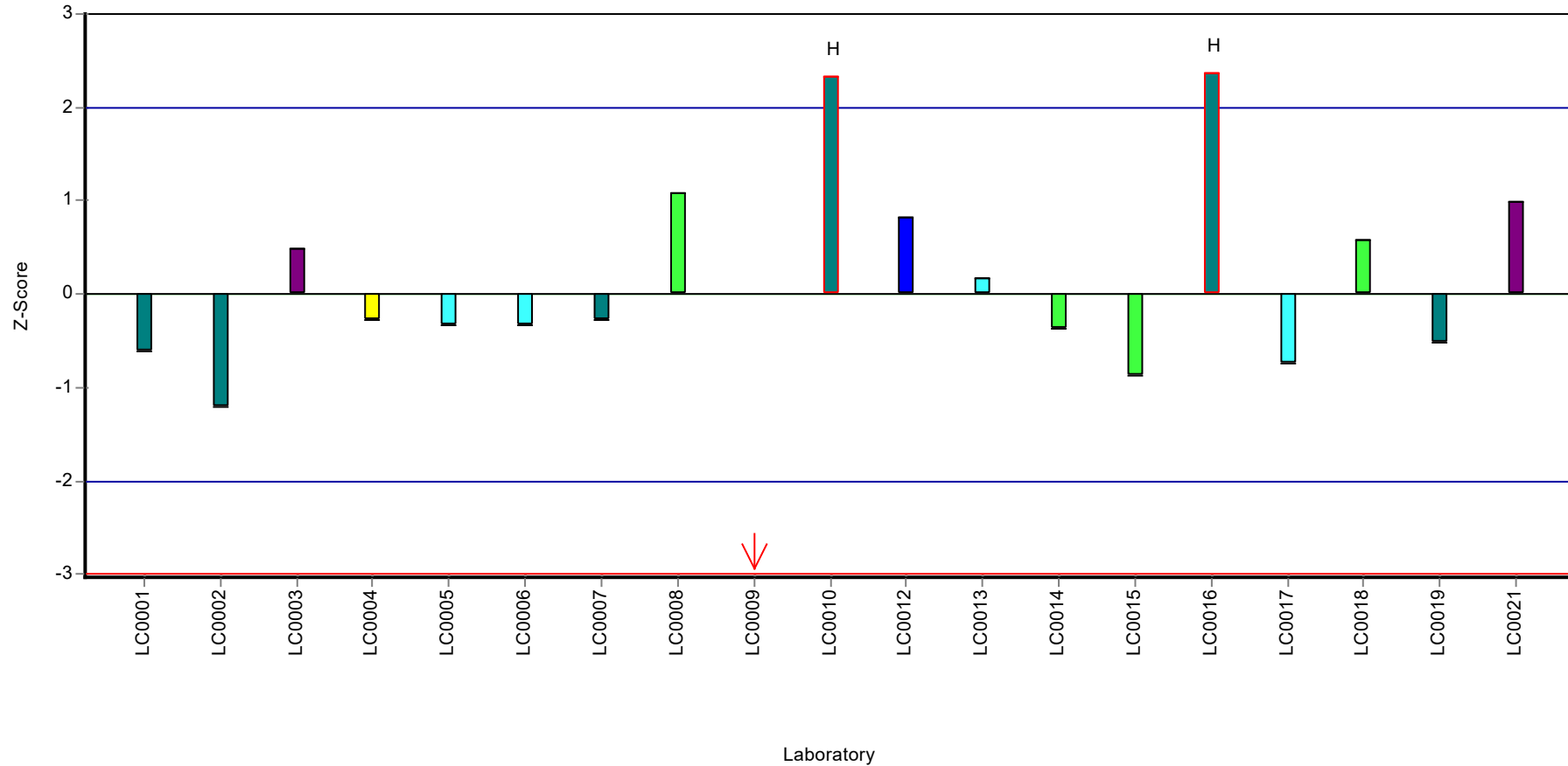
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

## Parameter oriented report

### PF01 B

#### Perfluorobutanoic acid (PFBA) - PF4C

Unit	µg/l
Assigned value ± U (k=2)	0.103 ± 0.00675
Criterion	0.0144 (14 %)
Minimum - Maximum	0.071 - 0.139
Control test value ± U (k=2)	0.0794 ± 0.0357

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.1003	0.004	97.6	-0.17	
LC0002	0.092	0.002	89.6	-0.75	
LC0003	0.114	0.017	111	0.78	
LC0004	0.101	0.03	98.3	-0.12	
LC0005	0.1086	0.0434	106	0.41	
LC0006	0.1069	0.0385	104	0.29	
LC0007	0.109	0.02	106	0.44	
LC0008	0.108	0.033	105	0.37	
LC0009	0.0509	0.0178	49.6	-3.6	H
LC0010	0.102	0.0101	99.3	-0.05	
LC0011	-	-	-	-	
LC0012	0.071	0.03266	69.1	-2.21	
LC0013	0.111	0.033	108	0.58	
LC0014	0.0994	0.0298	96.8	-0.23	
LC0015	0.09	0.036	87.6	-0.88	
LC0016	0.139	0.021	135	2.52	
LC0017	0.105	0.021	102	0.16	
LC0018	0.111	0.0369	108	0.58	
LC0019	0.0997	0.0169	97.1	-0.21	
LC0020	0.081	0.024	78.9	-1.51	
LC0021	0.0274	0.0082	26.7	-5.24	H

#### Characteristics of parameter

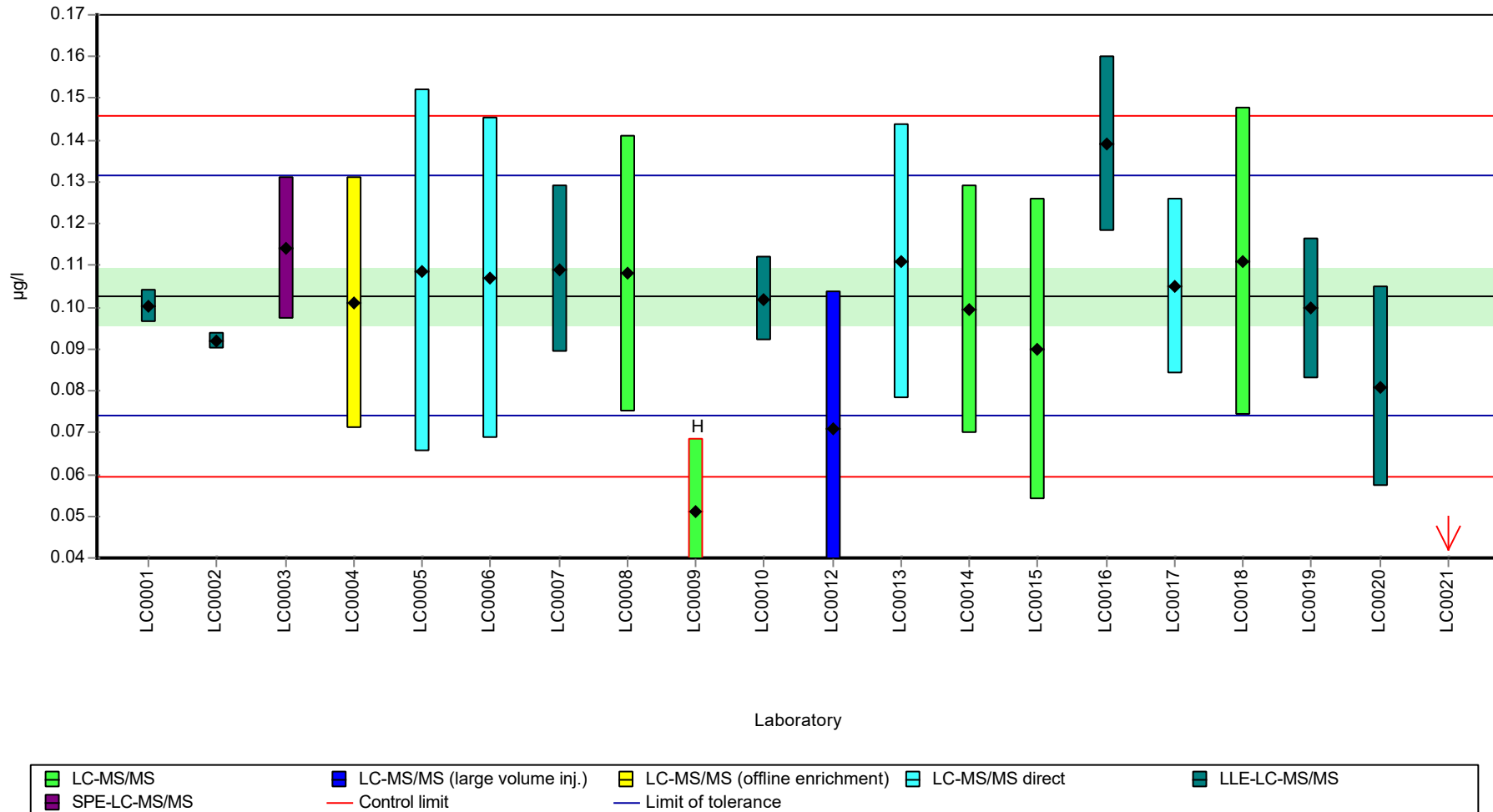
	all results	without outliers	Unit
Mean ± CI (99%)	0.0964 ± 0.0162	0.103 ± 0.0101	µg/l
Minimum	0.0274	0.071	µg/l
Maximum	0.139	0.139	µg/l
Standard deviation	0.0241	0.0143	µg/l
rel. standard deviation	25	13.9 %	
n	20	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

Graphical presentation of results

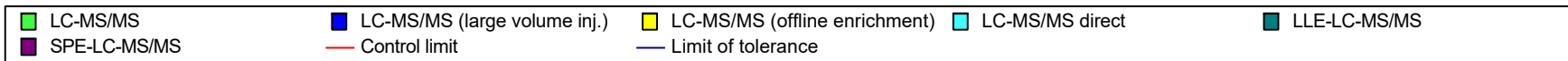
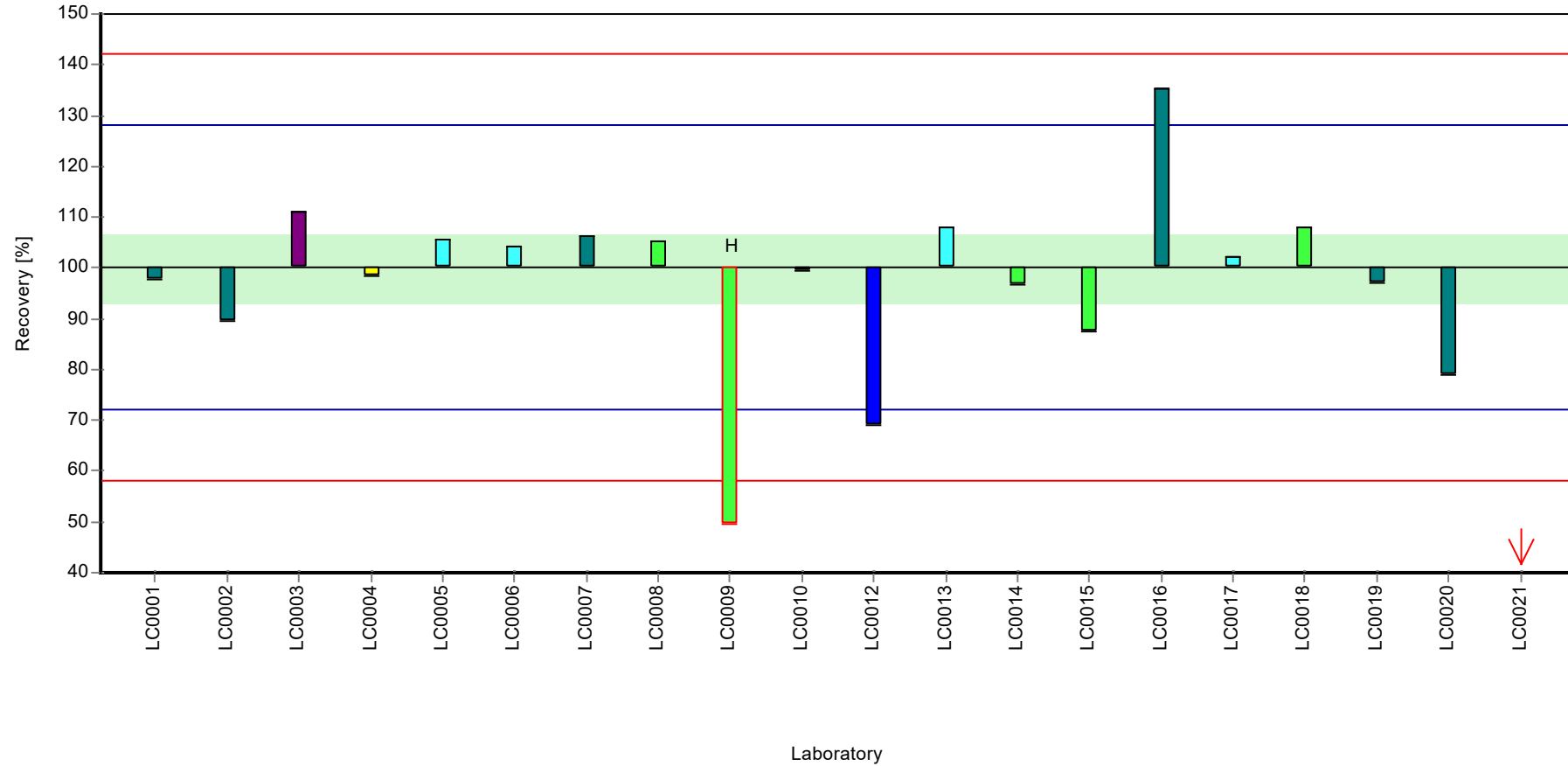
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

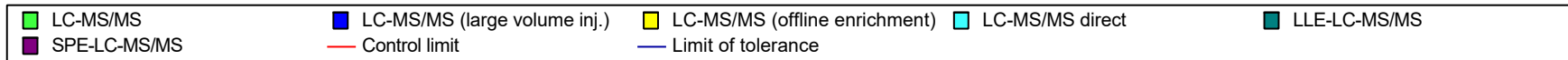
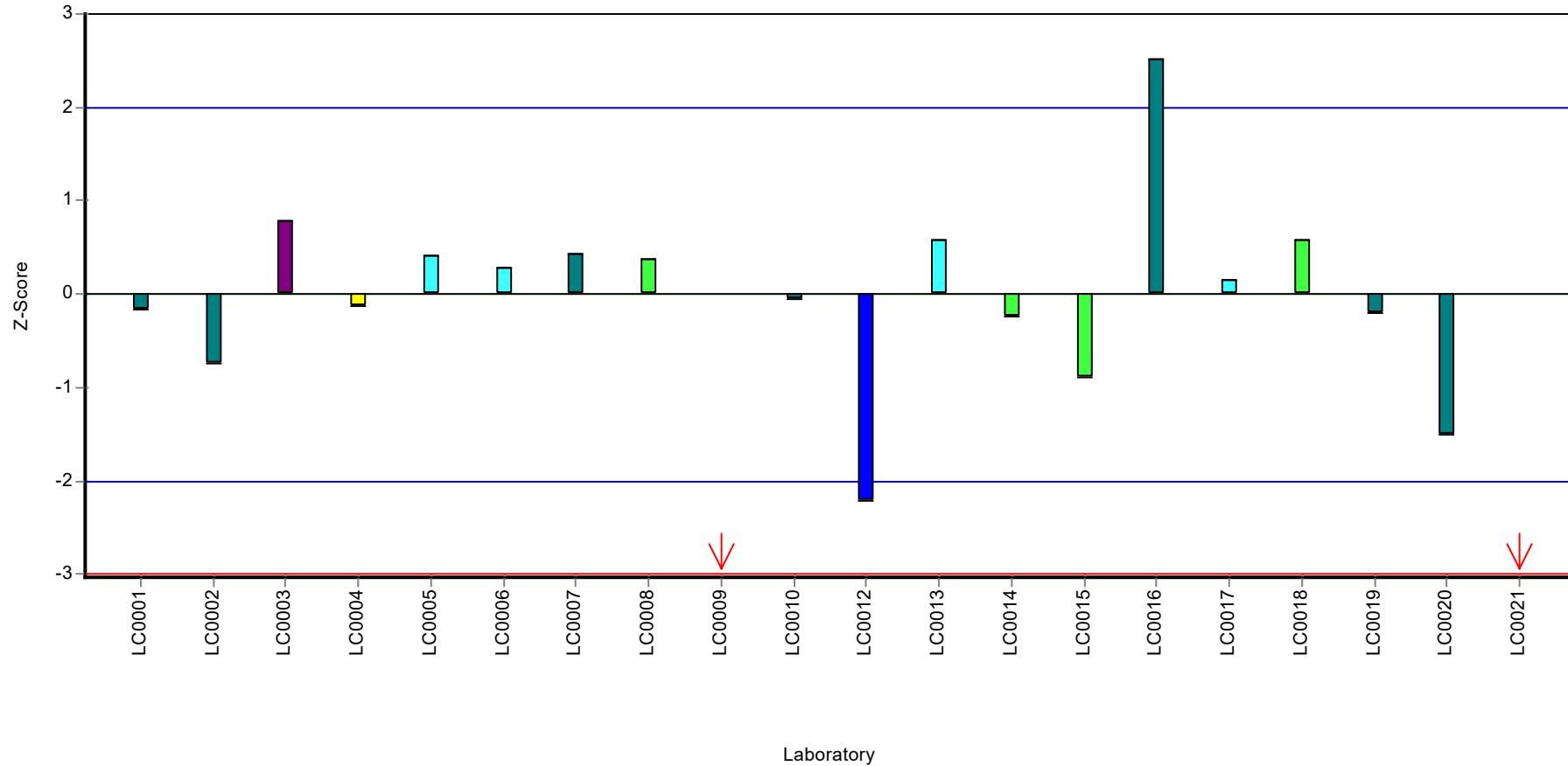
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutanoic acid (PFBA) - PF4C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

## Parameter oriented report

### PF01 A

#### Perfluoropentanoic acid (PFPeA) - PF5C

Unit	µg/l
Assigned value ± U (k=2)	0.0162 ± 0.000935
Criterion	0.0021 (13 %)
Minimum - Maximum	0.012 - 0.0195
Control test value ± U (k=2)	0.01180 ± 0.00533

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.015	0.0006	92.8	-0.56	
LC0002	0.012	0.002	74.2	-1.98	
LC0003	0.0171	0.0026	106	0.44	
LC0004	0.016	0.005	99	-0.08	
LC0005	0.0195	0.0078	121	1.59	
LC0006	0.0163	0.00588	101	0.06	
LC0007	0.015	0.003	92.8	-0.56	
LC0008	0.018	0.009	111	0.87	
LC0009	0.00846	0.00296	52.3	-3.67	H
LC0010	0.0156	0.0019	96.5	-0.27	
LC0011	0.0125	0.0031	77.3	-1.74	
LC0012	0.01708	0.00273	106	0.43	
LC0013	0.018	0.005	111	0.87	
LC0014	0.016	0.00479	99	-0.08	
LC0015	0.0143	0.0057	88.4	-0.89	
LC0016	0.0195	0.002	121	1.59	
LC0017	0.016	0.003	99	-0.08	
LC0018	0.0185	0.0057	114	1.11	
LC0019	0.0152	0.0052	94	-0.46	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	0.0156	0.0047	96.5	-0.27	

#### Characteristics of parameter

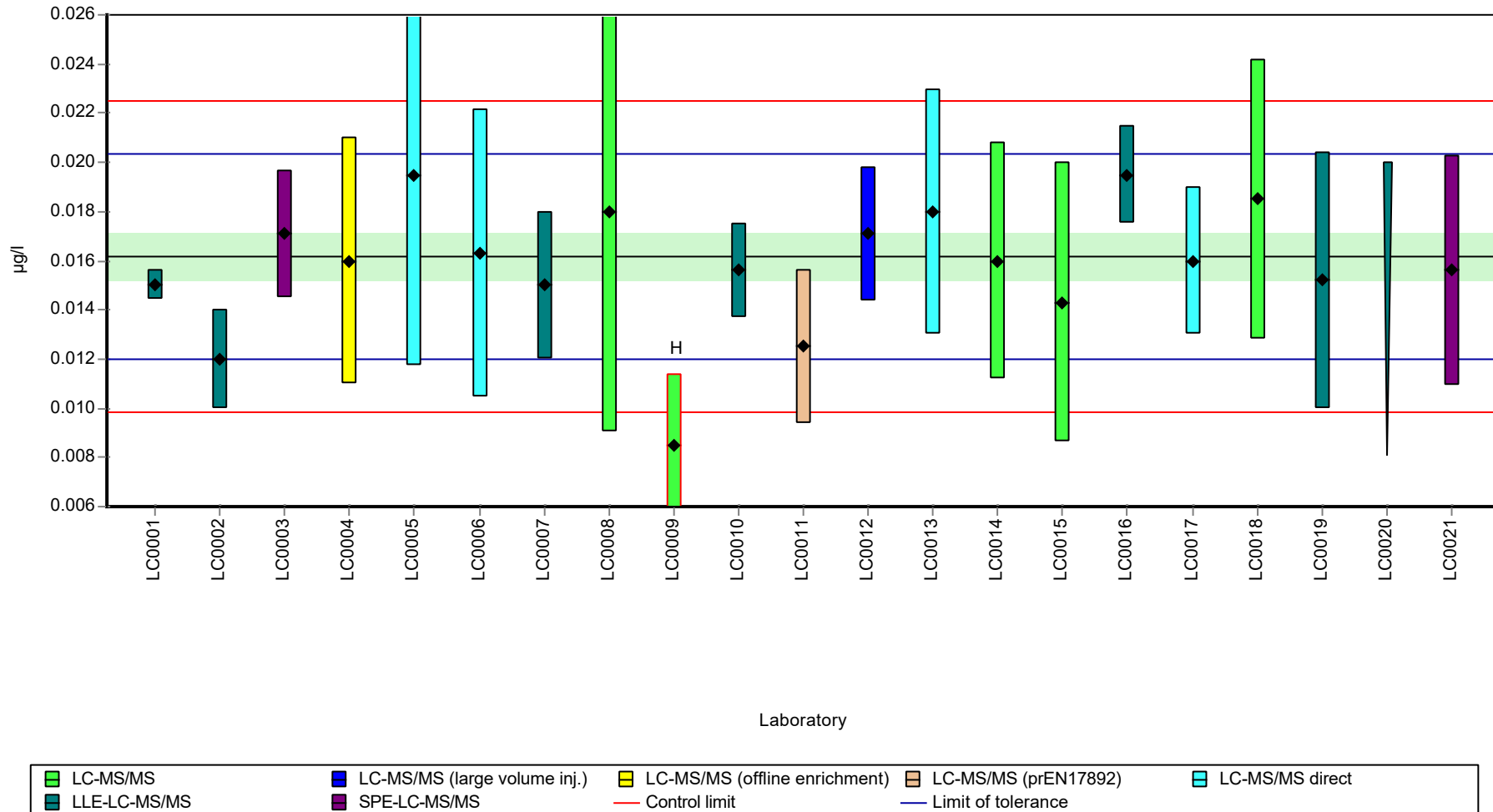
	all results	without outliers	Unit
Mean ± CI (99%)	0.0158 ± 0.00176	0.0162 ± 0.0014	µg/l
Minimum	0.00846	0.012	µg/l
Maximum	0.0195	0.0195	µg/l
Standard deviation	0.00263	0.00204	µg/l
rel. standard deviation	16.7	12.6	%
n	20	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

Graphical presentation of results

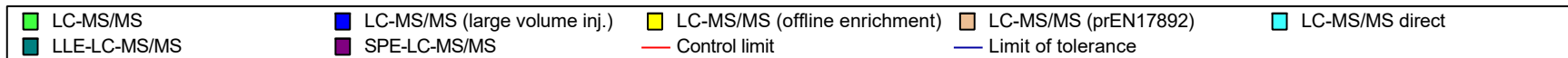
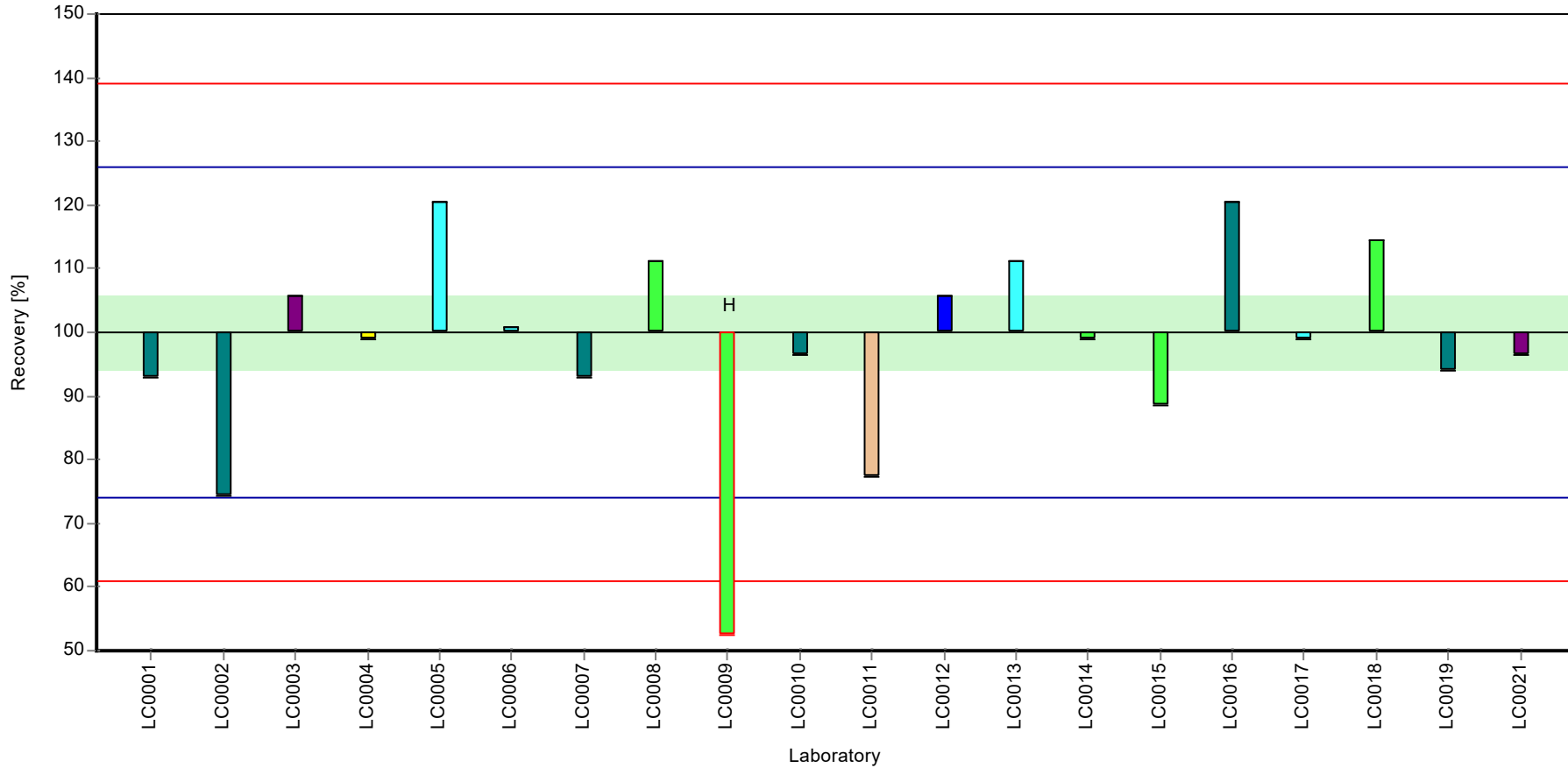
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

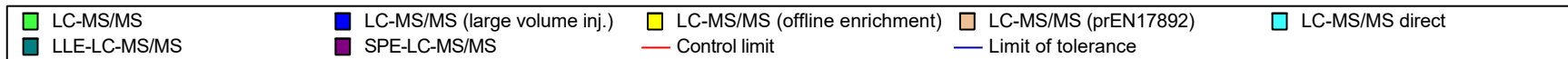
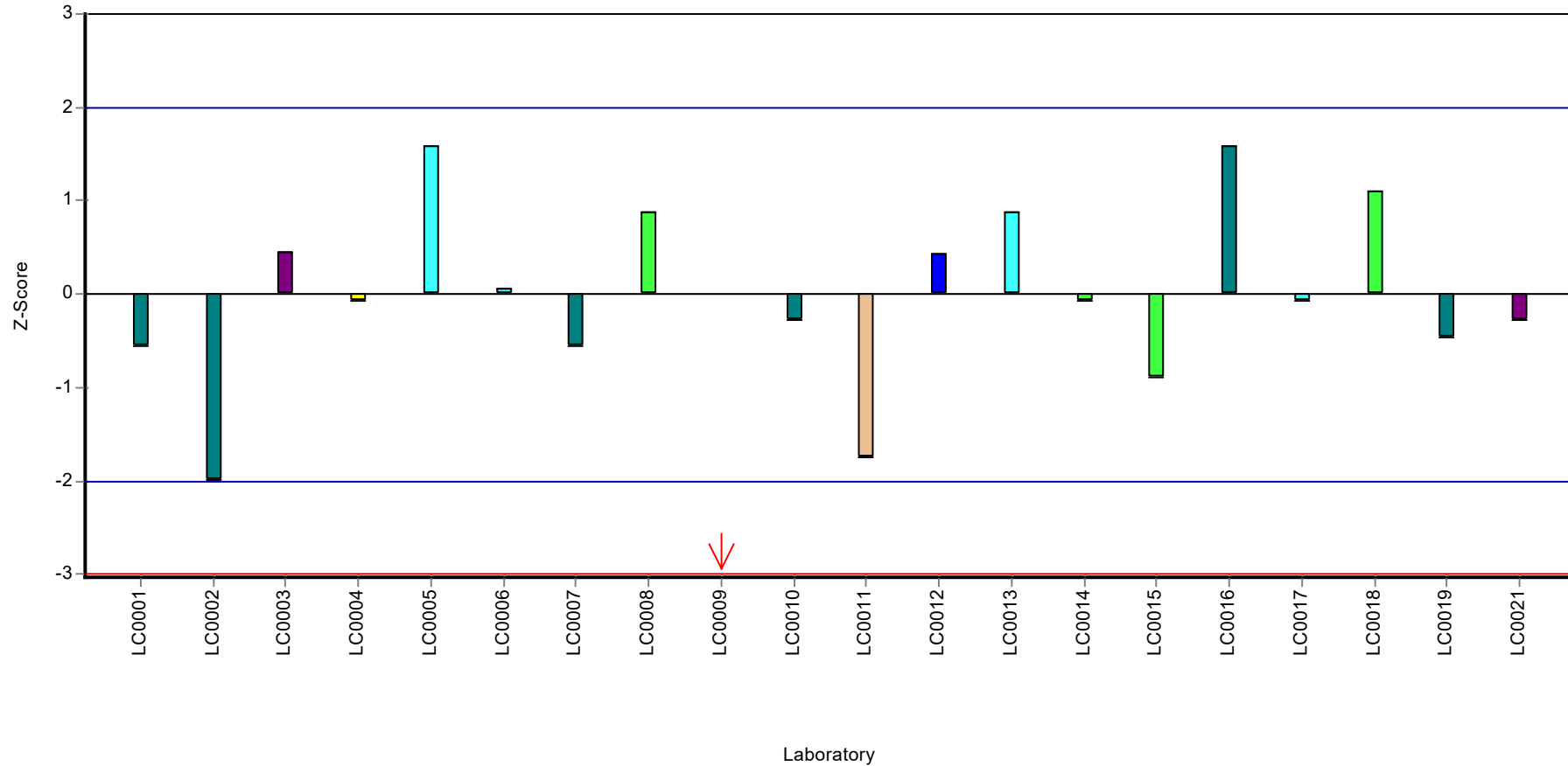
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

## Parameter oriented report

### PF01 B

#### Perfluoropentanoic acid (PFPeA) - PF5C

Unit	µg/l
Assigned value ± U (k=2)	0.0828 ± 0.00365
Criterion	0.00828 (10 %)
Minimum - Maximum	0.0659 - 0.103
Control test value ± U (k=2)	0.0602 ± 0.0271

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0845	0.0034	102	0.2	
LC0002	0.058	0.002	70	-3	H
LC0003	0.087	0.013	105	0.51	
LC0004	0.085	0.025	103	0.26	
LC0005	0.1029	0.0411	124	2.43	
LC0006	0.0822	0.02958	99.3	-0.07	
LC0007	0.081	0.02	97.8	-0.22	
LC0008	0.083	0.025	100	0.02	
LC0009	0.0384	0.0134	46.4	-5.36	H
LC0010	0.0771	0.0098	93.1	-0.69	
LC0011	0.079	0.0198	95.4	-0.46	
LC0012	0.08773	0.01404	106	0.59	
LC0013	0.092	0.028	111	1.11	
LC0014	0.0858	0.0257	104	0.36	
LC0015	0.0659	0.0264	79.6	-2.04	
LC0016	0.106	0.016	128	2.8	H
LC0017	0.08	0.016	96.6	-0.34	
LC0018	0.0851	0.026	103	0.28	
LC0019	0.0818	0.0278	98.8	-0.12	
LC0020	0.073	0.022	88.2	-1.18	
LC0021	0.0775	0.0233	93.6	-0.64	

#### Characteristics of parameter

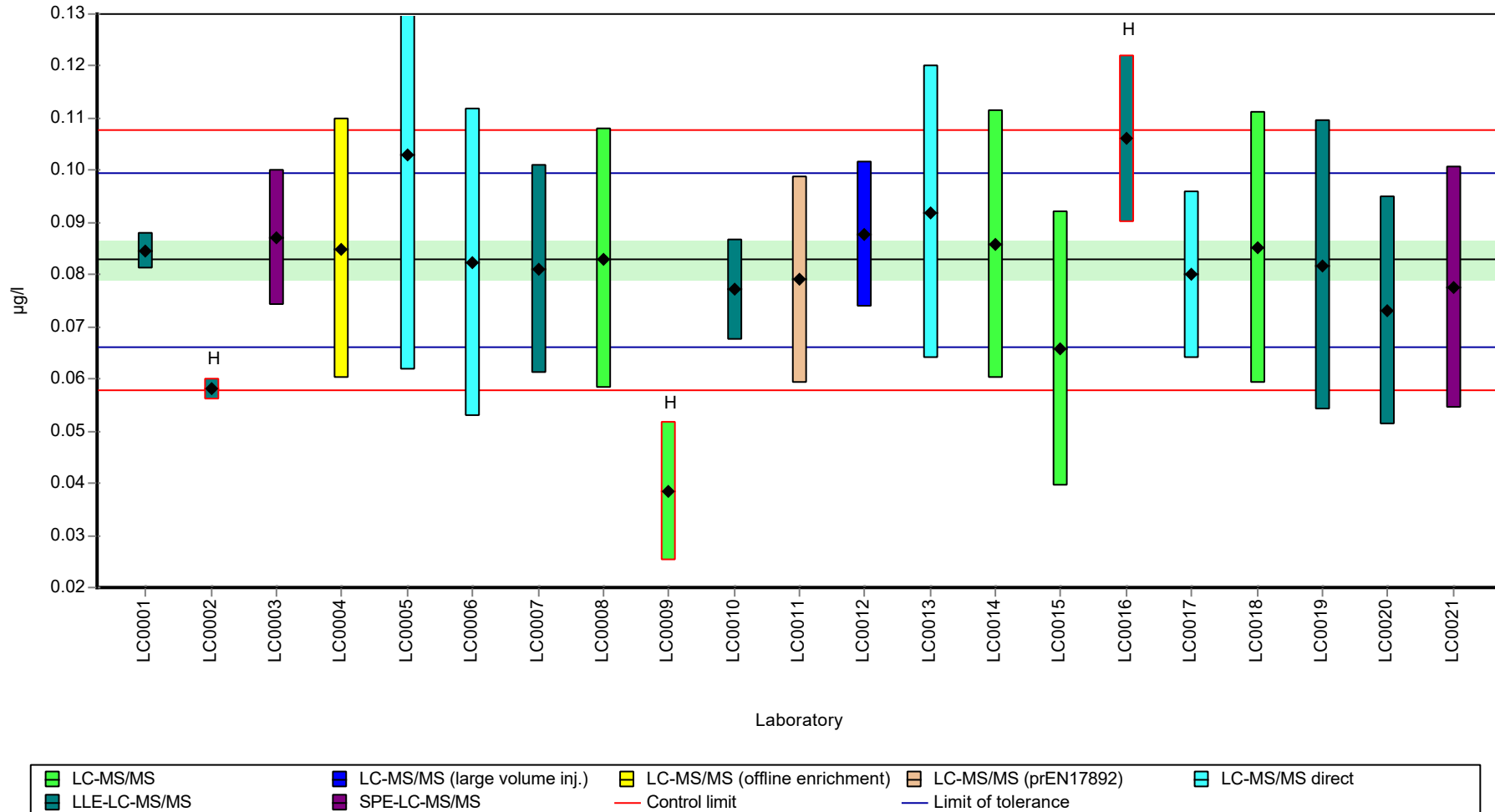
	all results	without outliers	Unit
Mean ± CI (99%)	0.0806 ± 0.00931	0.0828 ± 0.00548	µg/l
Minimum	0.0384	0.0659	µg/l
Maximum	0.106	0.103	µg/l
Standard deviation	0.0142	0.00775	µg/l
rel. standard deviation	17.6	9.36	%
n	21	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

Graphical presentation of results

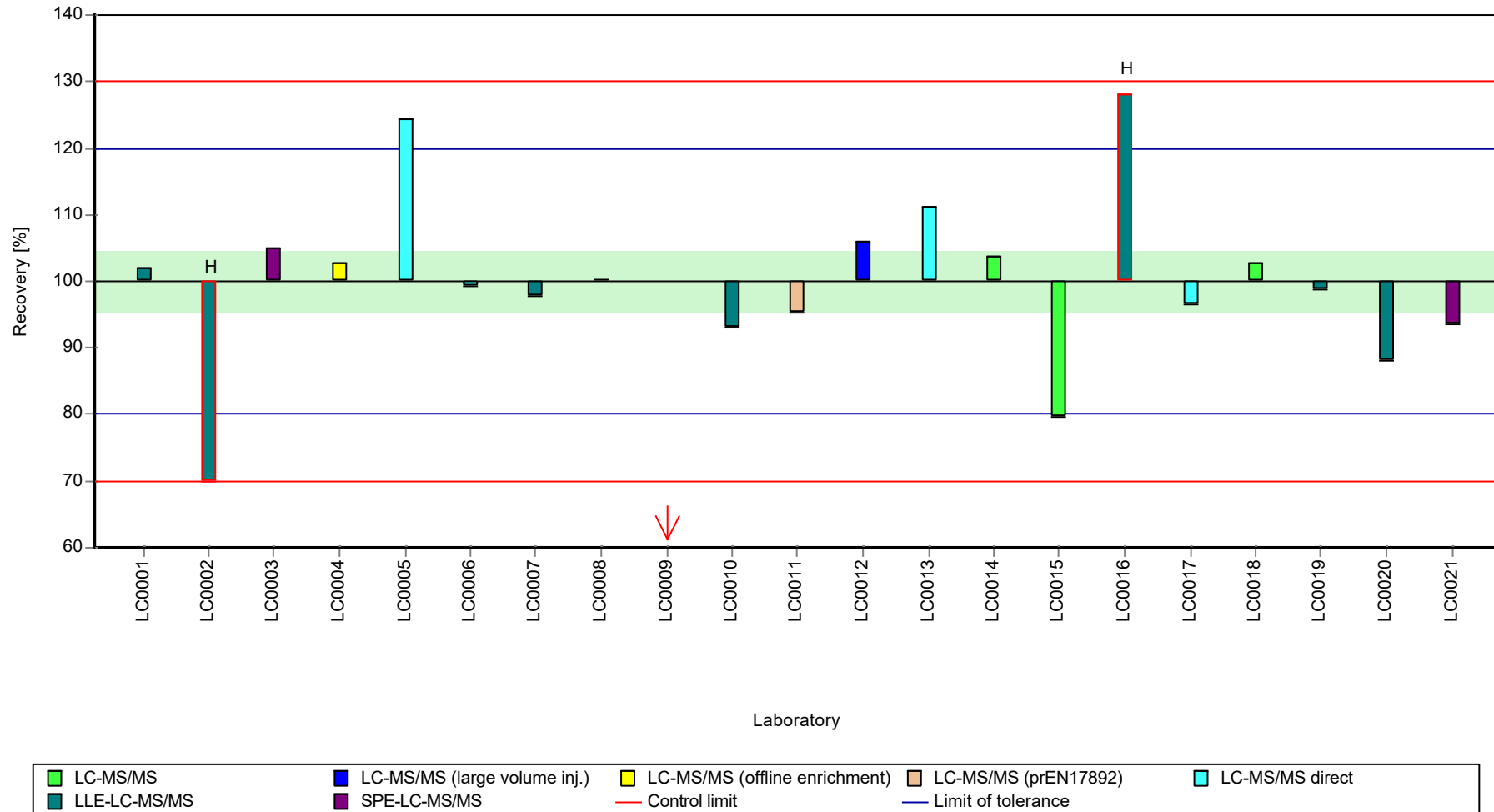
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

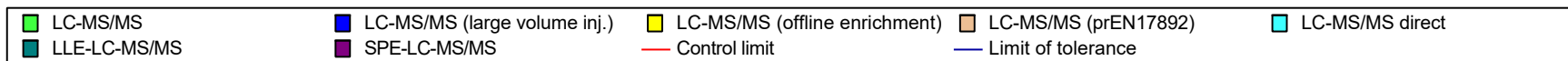
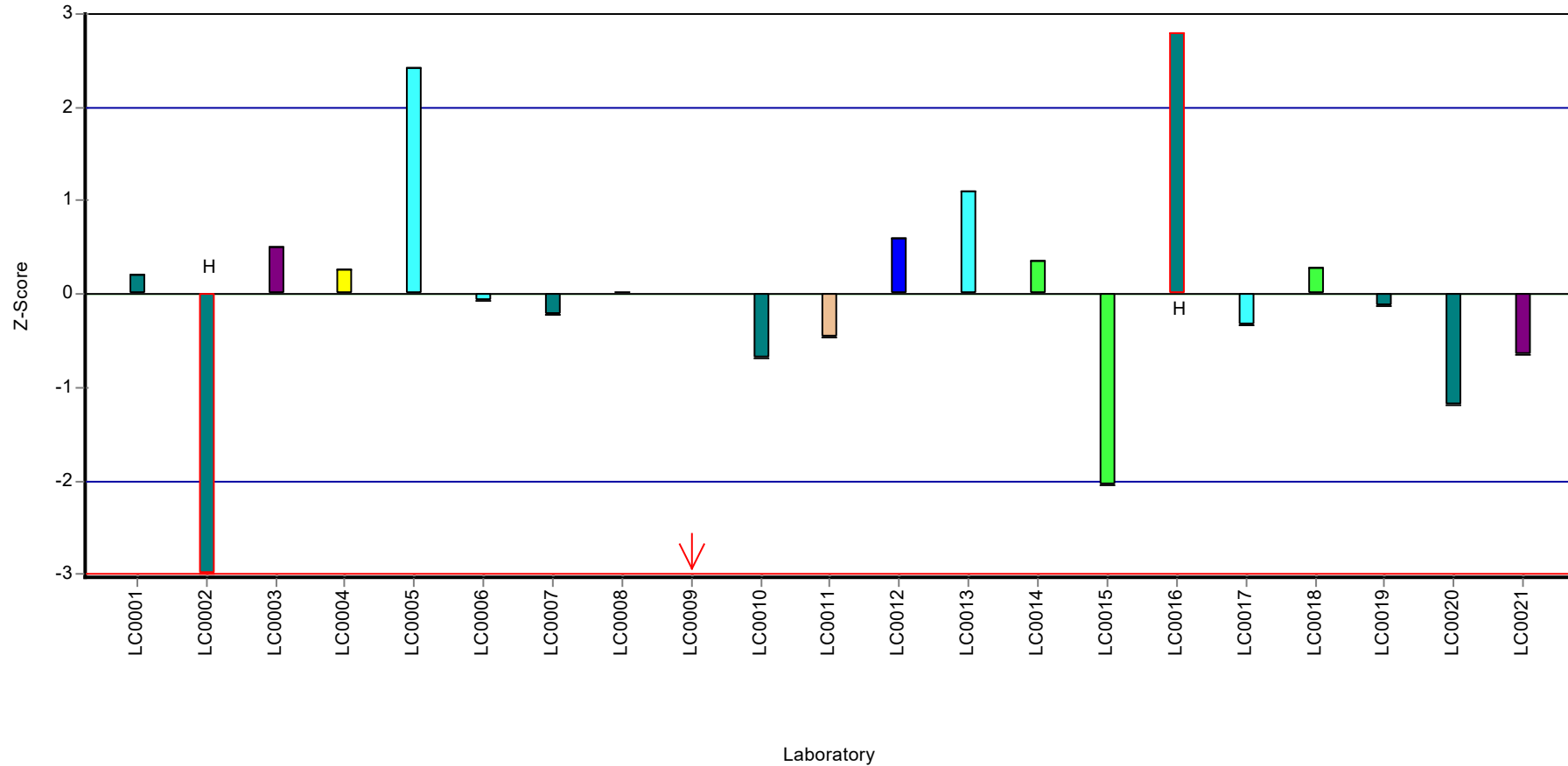
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentanoic acid (PFPeA) - PF5C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

## Parameter oriented report

### PF01 A

#### Perfluorohexanoic acid (PFHxA) - PF6C

Unit	µg/l
Assigned value ± U (k=2)	0.011 ± 0.000606
Criterion	0.00143 (13 %)
Minimum - Maximum	0.009 - 0.0124
Control test value ± U (k=2)	0.00802 ± 0.0016

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.01	0.0004	91	-0.69	
LC0002	0.009	0.002	81.9	-1.39	
LC0003	0.0109	0.0016	99.2	-0.06	
LC0004	0.01	0.003	91	-0.69	
LC0005	0.0121	0.0036	110	0.78	
LC0006	0.0108	0.0039	98.3	-0.13	
LC0007	0.011	0.002	100	0.01	
LC0008	0.014	0.007	127	2.11	H
LC0009	0.00536	0.00188	48.8	-3.94	H
LC0010	0.0109	0.00086	99.2	-0.06	
LC0011	-	-	-	-	
LC0012	0.01159	0.0022	106	0.42	
LC0013	0.012	0.004	109	0.71	
LC0014	0.0109	0.00327	99.2	-0.06	
LC0015	0.00958	0.0038	87.2	-0.98	
LC0016	0.0141	0.002	128	2.18	H
LC0017	0.011	0.002	100	0.01	
LC0018	0.0124	0.0056	113	0.99	
LC0019	0.0101	0.0027	92	-0.62	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	0.00935	0.0028	85.1	-1.14	

#### Characteristics of parameter

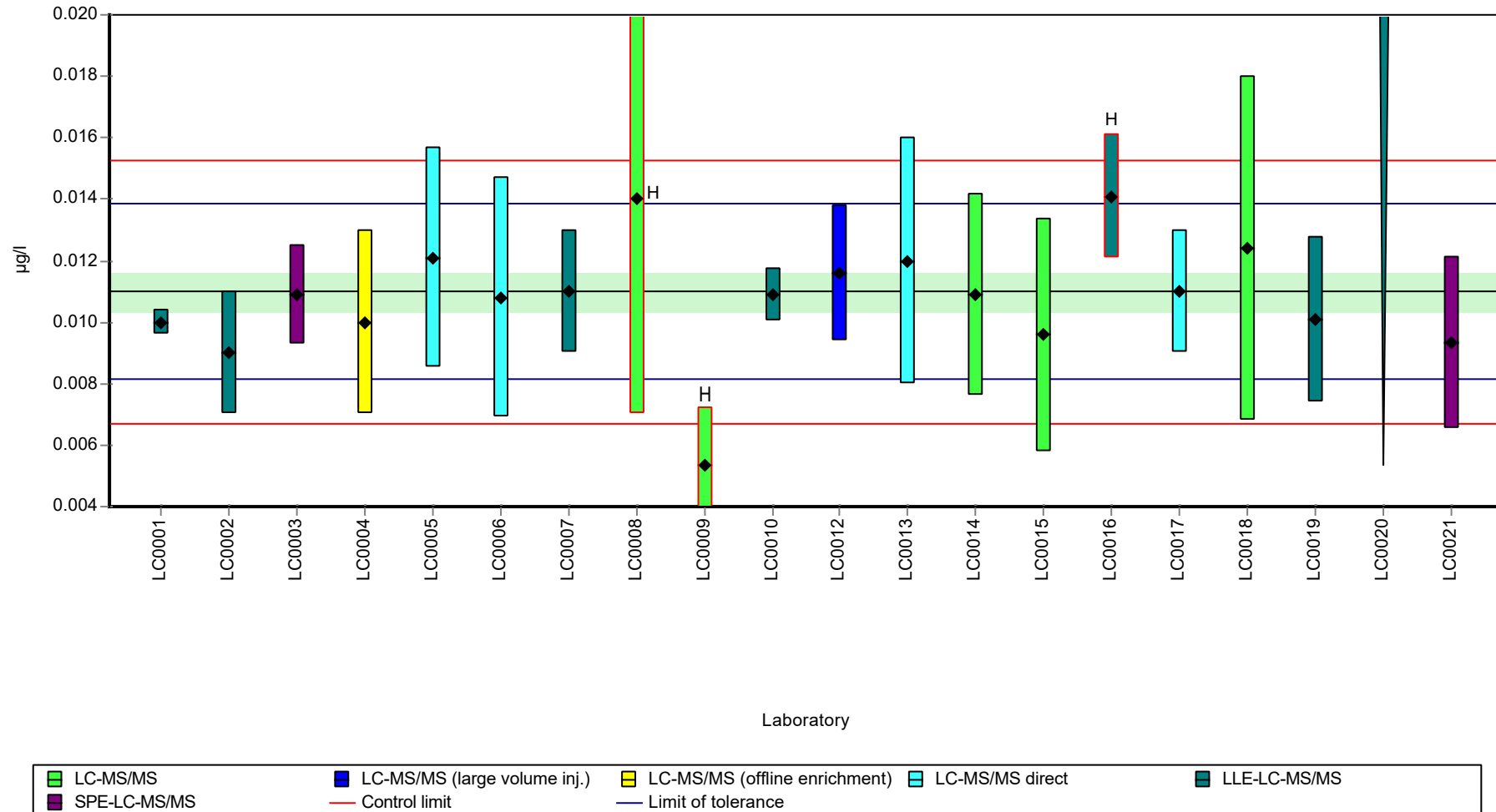
	all results	without outliers	Unit
Mean ± CI (99%)	0.0108 ± 0.00132	0.0107 ± 0.000748	µg/l
Minimum	0.00536	0.009	µg/l
Maximum	0.0141	0.0124	µg/l
Standard deviation	0.00191	0.000998	µg/l
rel. standard deviation	17.7	9.3	%
n	19	16	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

Graphical presentation of results

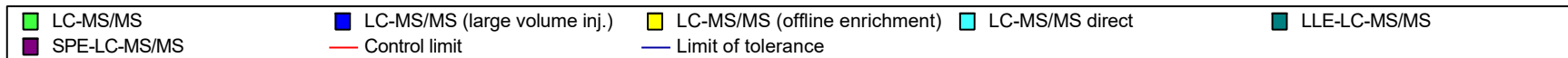
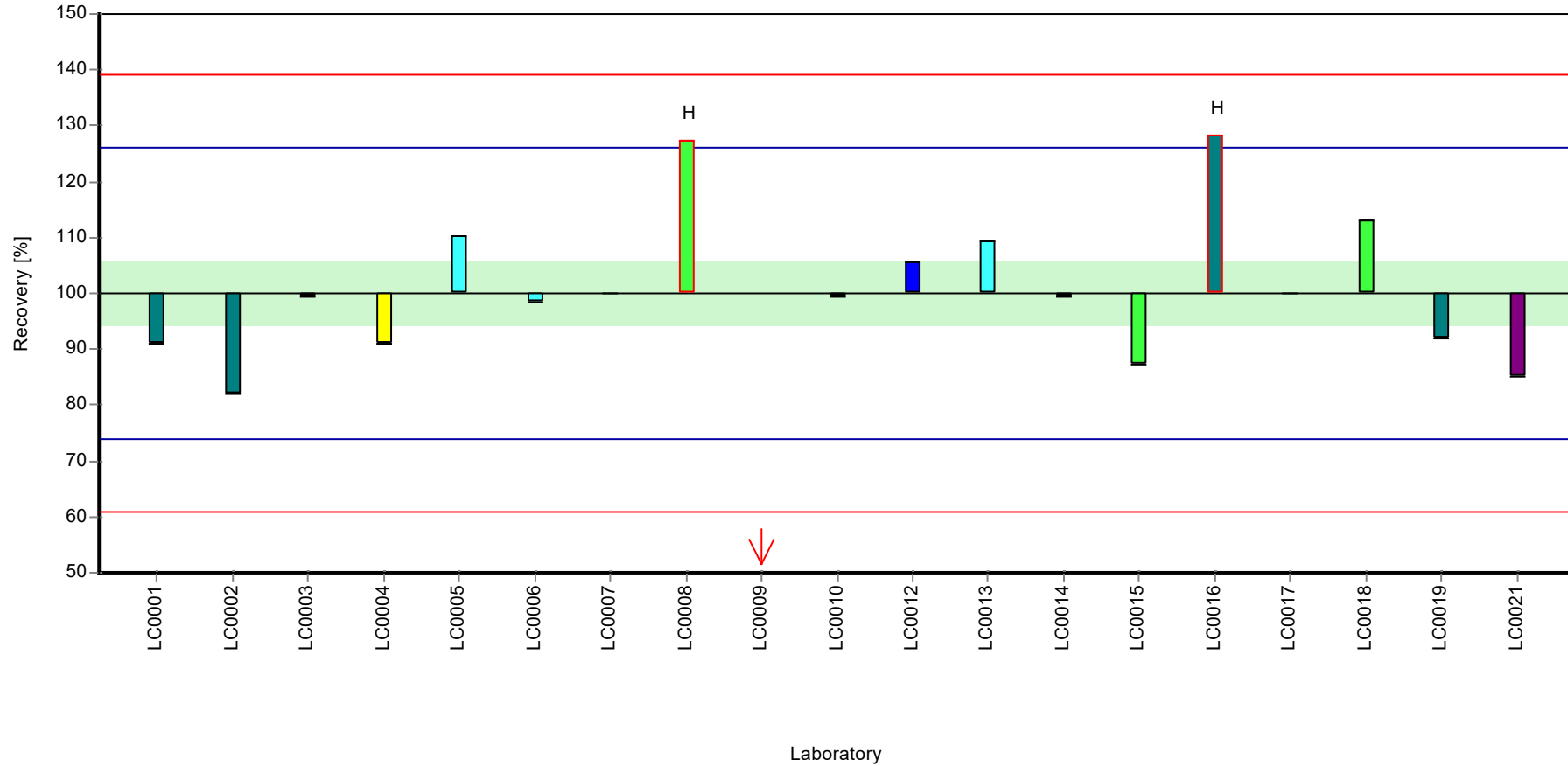
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

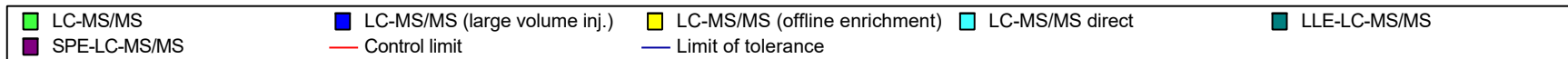
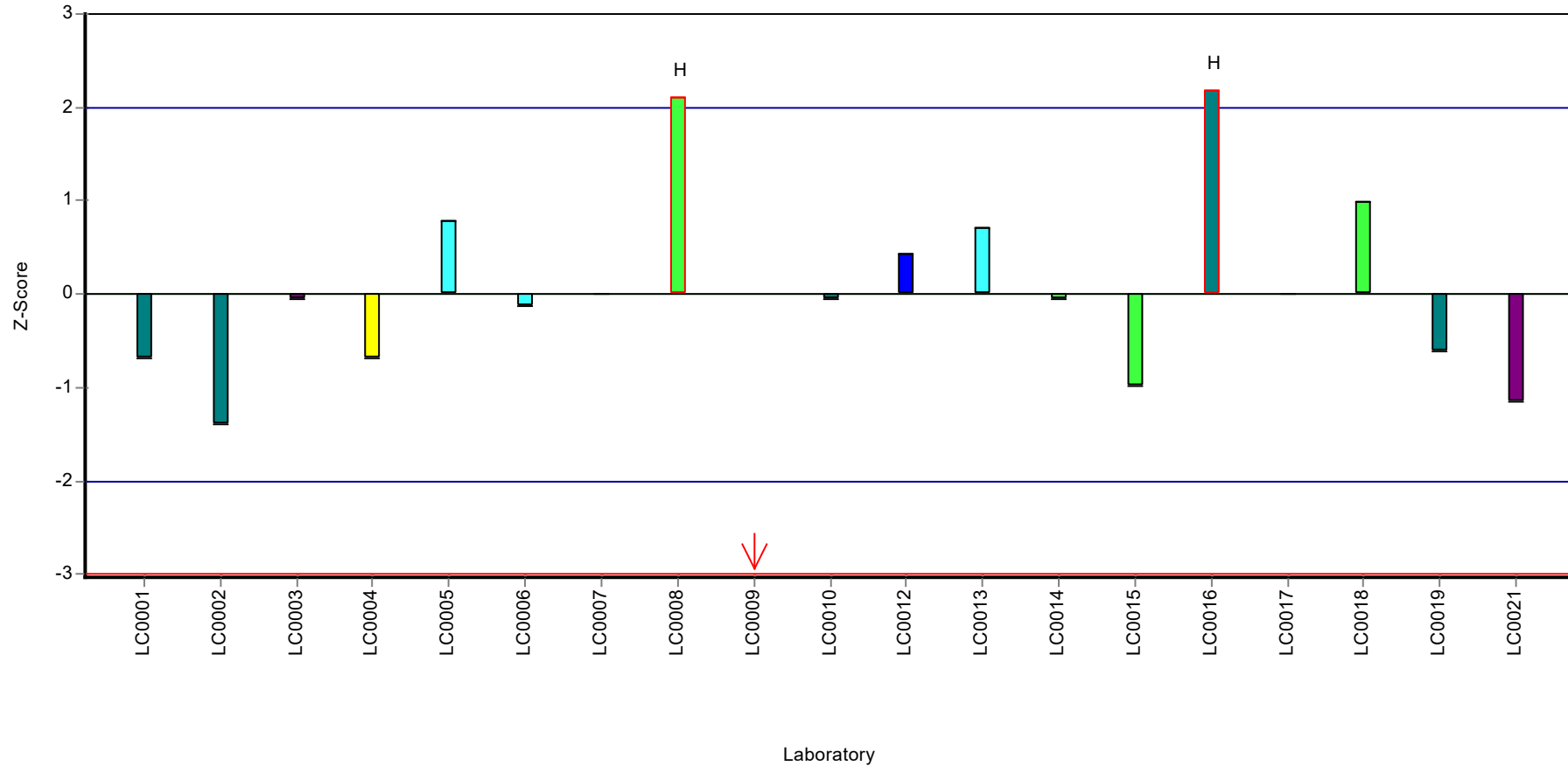
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

## Parameter oriented report

### PF01 B

#### Perfluorohexanoic acid (PFHxA) - PF6C

Unit	µg/l
Assigned value ± U (k=2)	0.176 ± 0.00728
Criterion	0.0176 (10 %)
Minimum - Maximum	0.138 - 0.201
Control test value ± U (k=2)	0.135 ± 0.027

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.1675	0.0067	95.4	-0.46	
LC0002	0.138	0.002	78.6	-2.14	
LC0003	0.176	0.026	100	0.02	
LC0004	0.154	0.046	87.7	-1.23	
LC0005	0.1791	0.0537	102	0.2	
LC0006	0.1787	0.06435	102	0.17	
LC0007	0.182	0.04	104	0.36	
LC0008	0.201	0.061	114	1.44	
LC0009	0.0802	0.0281	45.7	-5.43	H
LC0010	0.165	0.0247	93.9	-0.61	
LC0011	-	-	-	-	
LC0012	0.18239	0.03465	104	0.38	
LC0013	0.189	0.057	108	0.76	
LC0014	0.177	0.053	101	0.08	
LC0015	0.146	0.0584	83.1	-1.69	
LC0016	0.192	0.029	109	0.93	
LC0017	0.171	0.034	97.4	-0.26	
LC0018	0.1681	0.0763	95.7	-0.43	
LC0019	0.1615	0.0436	91.9	-0.81	
LC0020	0.14	0.04	79.7	-2.03	
LC0021	0.182	0.055	104	0.36	

#### Characteristics of parameter

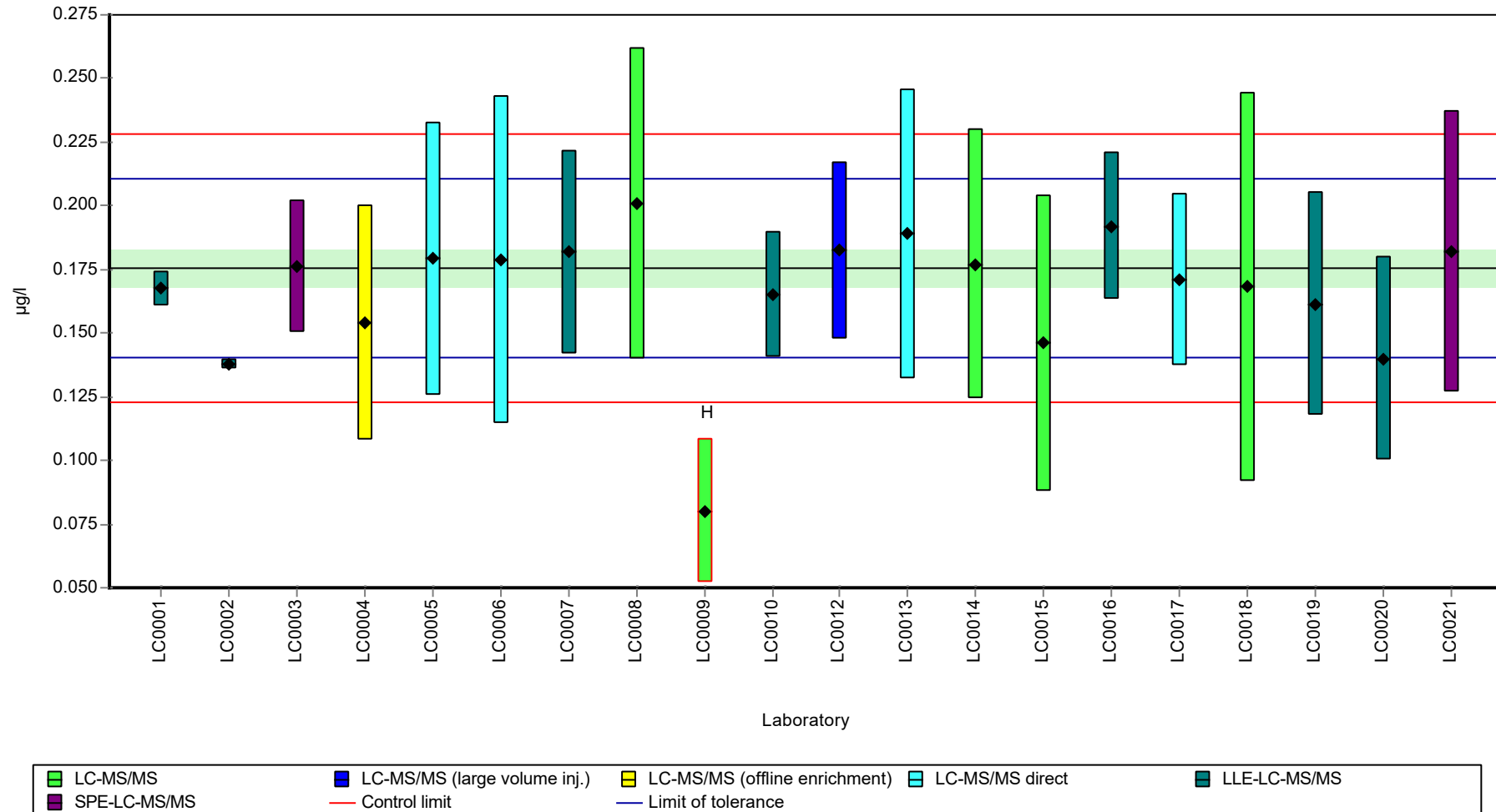
	all results	without outliers	Unit
Mean ± CI (99%)	0.167 ± 0.0177	0.171 ± 0.0118	µg/l
Minimum	0.0802	0.138	µg/l
Maximum	0.201	0.201	µg/l
Standard deviation	0.0263	0.0172	µg/l
rel. standard deviation	15.8	10.1	%
n	20	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

Graphical presentation of results

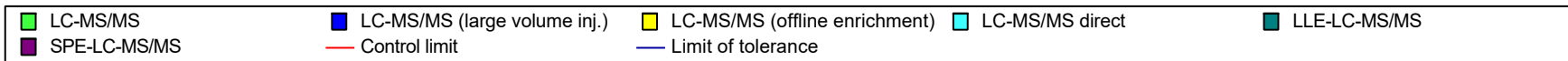
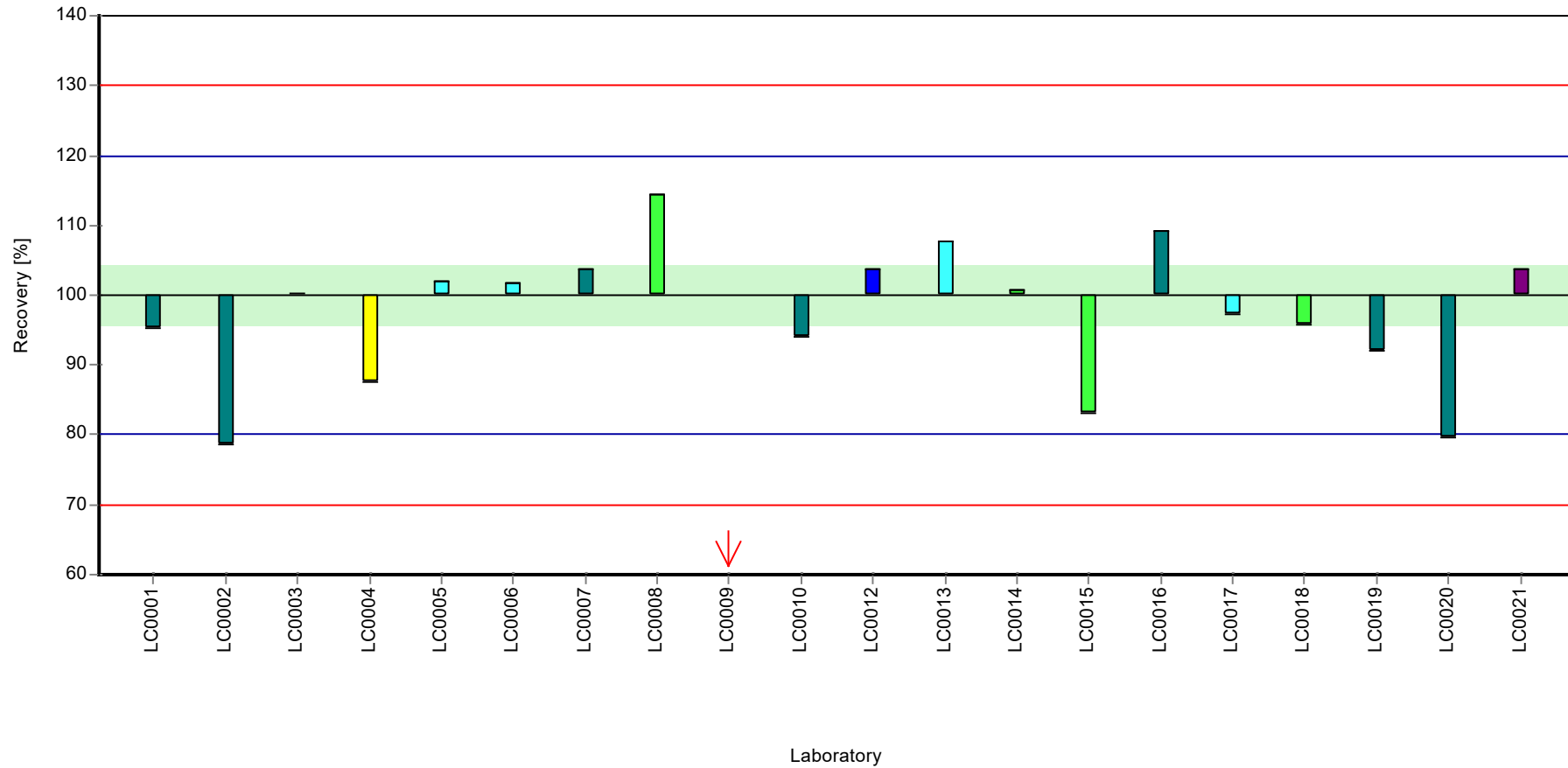
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

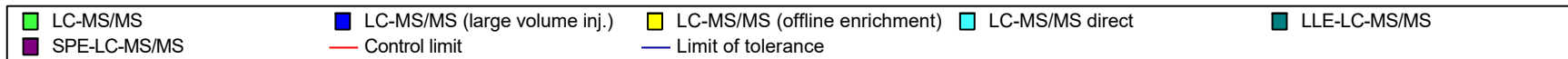
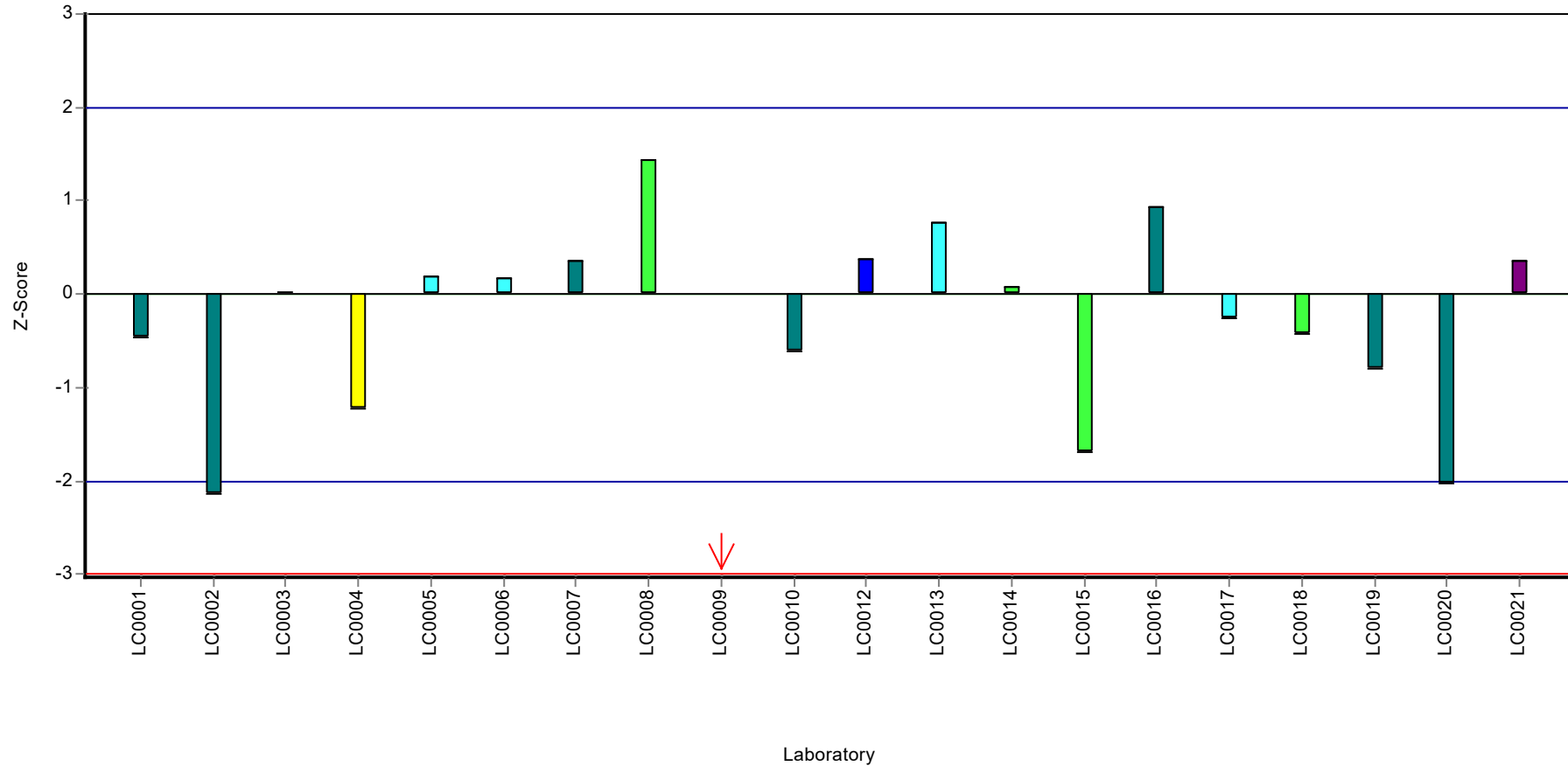
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexanoic acid (PFHxA) - PF6C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

## Parameter oriented report

### PF01 A

#### Perfluoroheptanoic acid (PFHpA) - PF7C

Unit	µg/l
Assigned value ± U (k=2)	0.0126 ± 0.000981
Criterion	0.00177 (14 %)
Minimum - Maximum	0.00943 - 0.016
Control test value ± U (k=2)	0.00878 ± 0.00176

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0109	0.0004	86.3	-0.98	
LC0002	0.011	0.002	87.1	-0.92	
LC0003	0.0123	0.0018	97.4	-0.19	
LC0004	0.01	0.003	79.2	-1.49	
LC0005	0.0156	0.0063	123	1.68	
LC0006	0.0128	0.00461	101	0.1	
LC0007	0.012	0.002	95	-0.36	
LC0008	0.016	0.008	127	1.9	
LC0009	0.00537	0.00188	42.5	-4.11	H
LC0010	0.0127	0.0015	101	0.04	
LC0011	0.0119	0.003	94.2	-0.41	
LC0012	0.01355	0.00474	107	0.52	
LC0013	0.014	0.004	111	0.77	
LC0014	0.0142	0.00427	112	0.89	
LC0015	0.0104	0.0042	82.3	-1.26	
LC0016	0.00943	0.001	74.7	-1.81	
LC0017	0.012	0.002	95	-0.36	
LC0018	0.0134	0.0048	106	0.43	
LC0019	0.0118	0.0021	93.4	-0.47	
LC0020	0.012	0.004	95	-0.36	
LC0021	0.0143	0.0043	113	0.94	

#### Characteristics of parameter

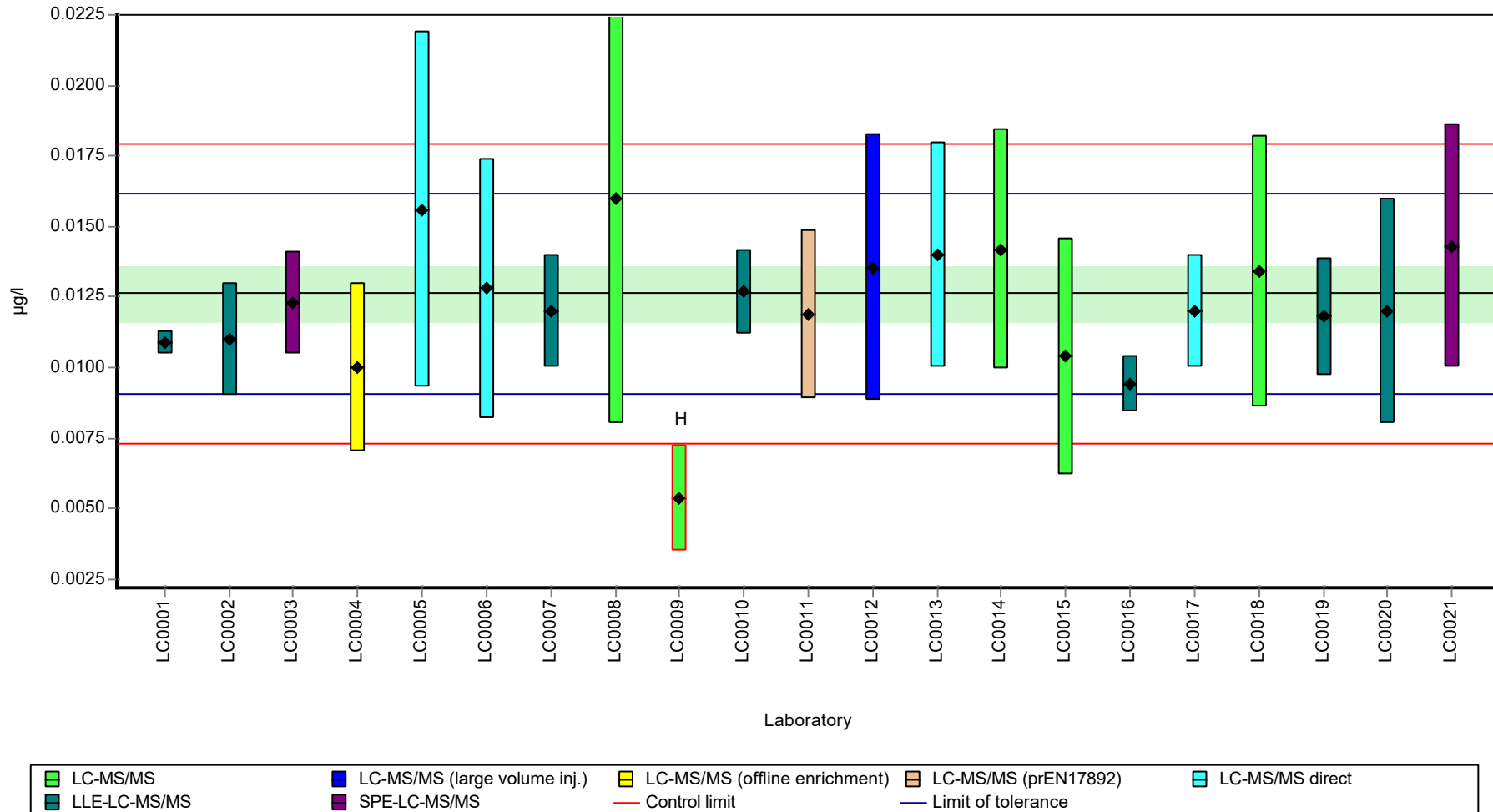
	all results	without outliers	Unit
Mean ± CI (99%)	0.0122 ± 0.00152	0.0125 ± 0.00118	µg/l
Minimum	0.00537	0.00943	µg/l
Maximum	0.016	0.016	µg/l
Standard deviation	0.00232	0.00176	µg/l
rel. standard deviation	19	14.1	%
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

Graphical presentation of results

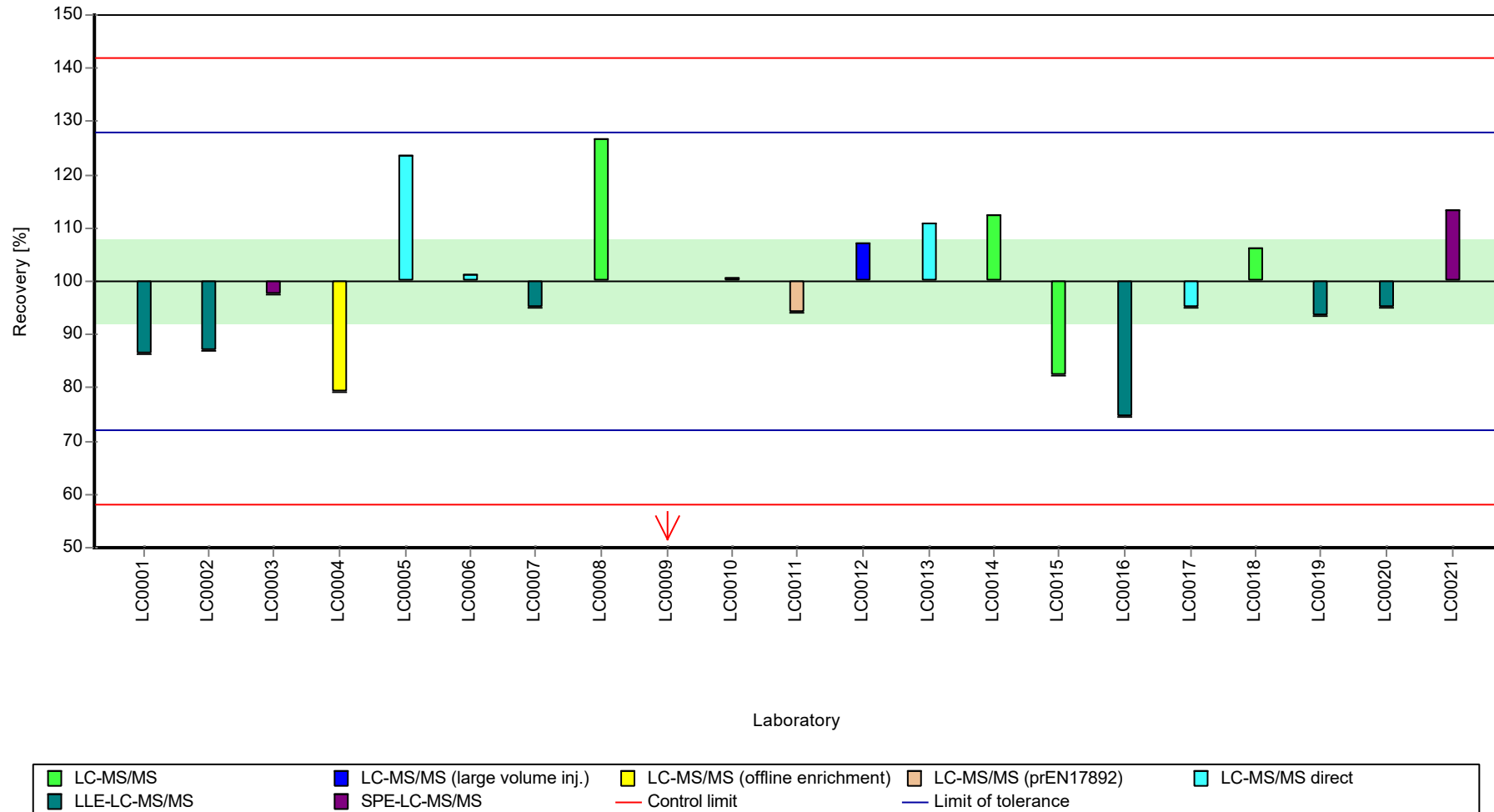
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

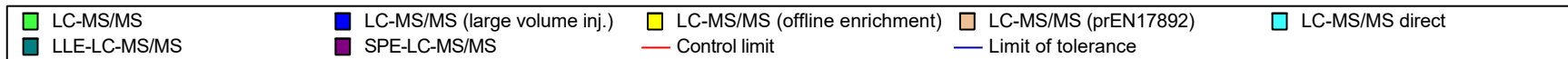
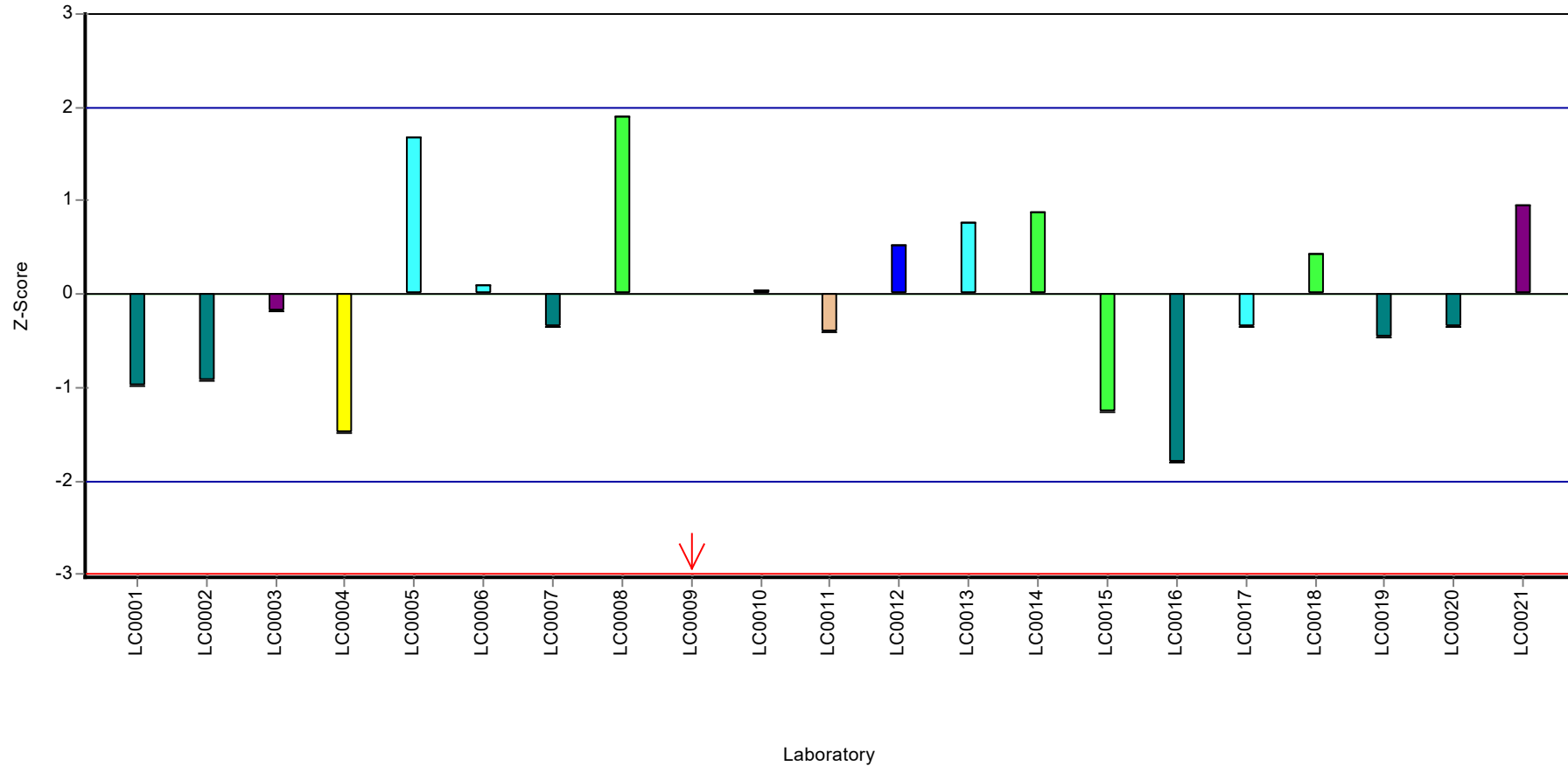
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

## Parameter oriented report

### PF01 B

#### Perfluoroheptanoic acid (PFHpA) - PF7C

Unit	µg/l
Assigned value ± U (k=2)	0.0385 ± 0.00246
Criterion	0.00539 (14 %)
Minimum - Maximum	0.03 - 0.0481
Control test value ± U (k=2)	0.0280 ± 0.0056

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0384	0.0015	99.8	-0.02	
LC0002	0.03	0.002	77.9	-1.58	
LC0003	0.0378	0.0057	98.2	-0.13	
LC0004	0.03	0.009	77.9	-1.58	
LC0005	0.0479	0.0192	124	1.75	
LC0006	0.0392	0.01413	102	0.13	
LC0007	0.04	0.008	104	0.28	
LC0008	0.045	0.014	117	1.21	
LC0009	0.019	0.00665	49.4	-3.62	H
LC0010	0.033	0.0021	85.7	-1.02	
LC0011	0.0368	0.0092	95.6	-0.31	
LC0012	0.03833	0.01342	99.6	-0.03	
LC0013	0.042	0.013	109	0.65	
LC0014	0.0481	0.0144	125	1.78	
LC0015	0.0312	0.0125	81.1	-1.35	
LC0016	0.0324	0.005	84.2	-1.13	
LC0017	0.038	0.008	98.7	-0.09	
LC0018	0.0402	0.0145	104	0.32	
LC0019	0.0378	0.0068	98.2	-0.13	
LC0020	0.034	0.01	88.3	-0.83	
LC0021	0.0371	0.0111	96.4	-0.26	

#### Characteristics of parameter

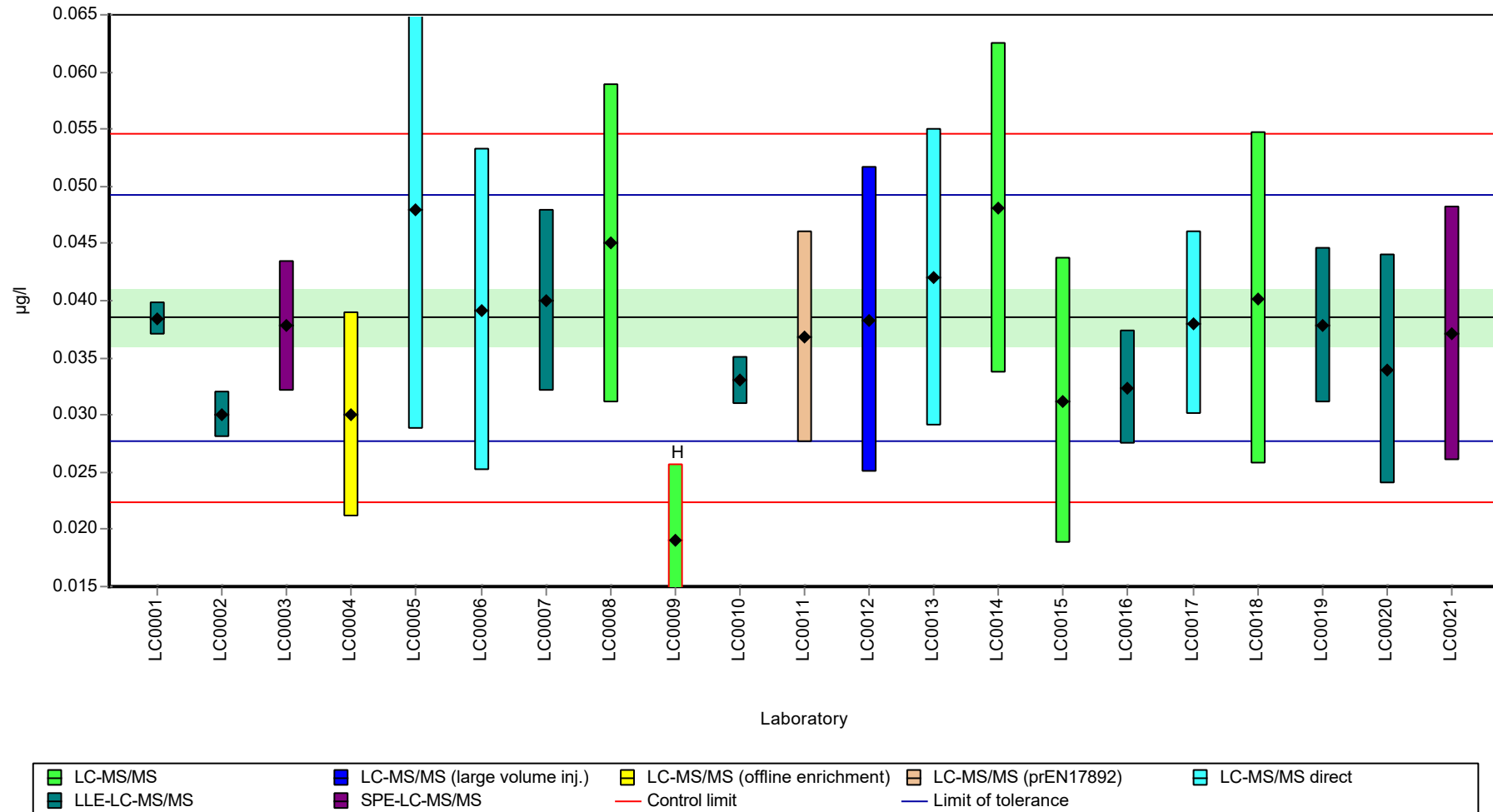
	all results	without outliers	Unit
Mean ± CI (99%)	0.037 ± 0.0043	0.0379 ± 0.00352	µg/l
Minimum	0.019	0.03	µg/l
Maximum	0.0481	0.0481	µg/l
Standard deviation	0.00657	0.00525	µg/l
rel. standard deviation	17.8	13.9 %	
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

Graphical presentation of results

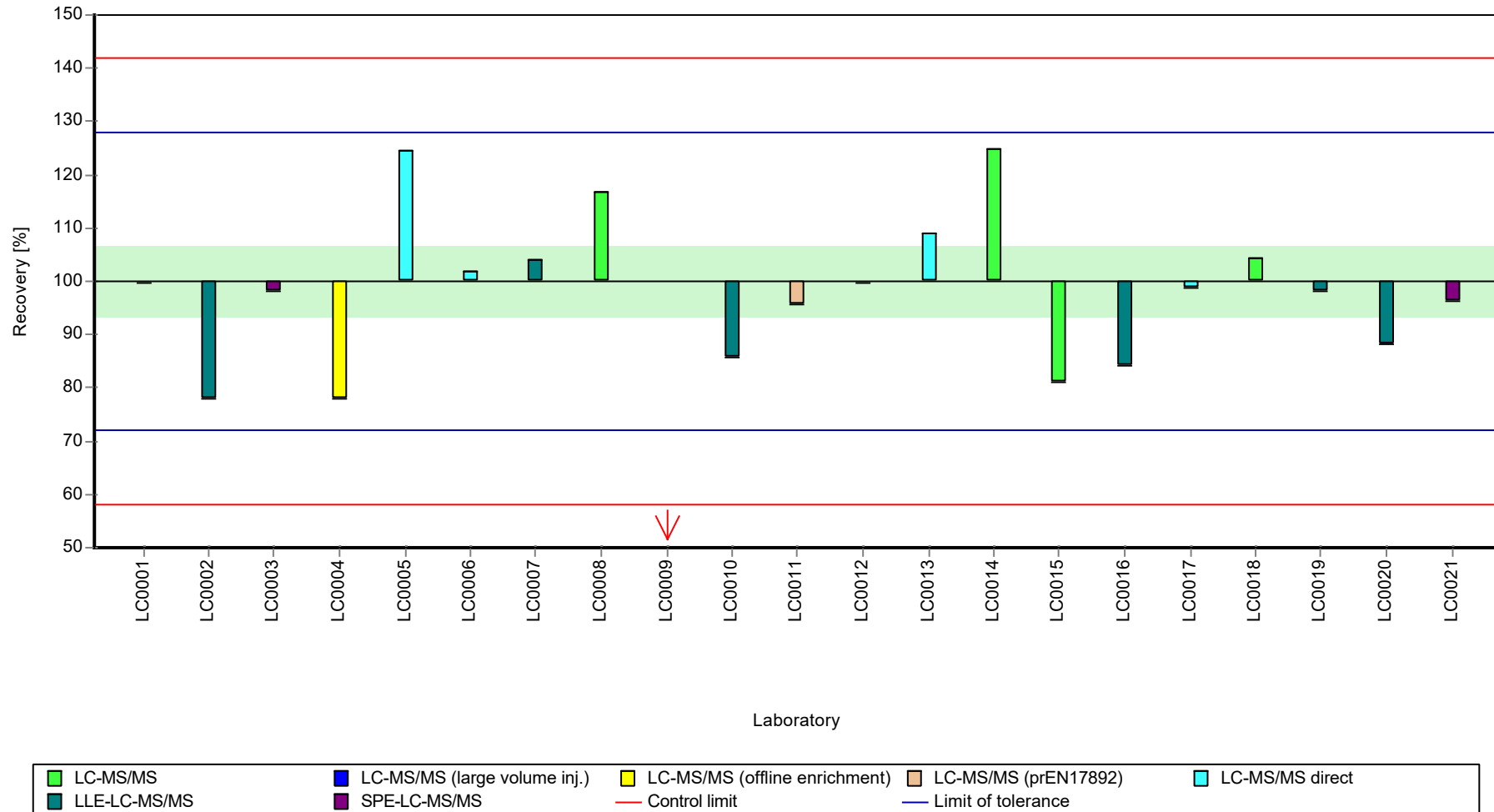
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

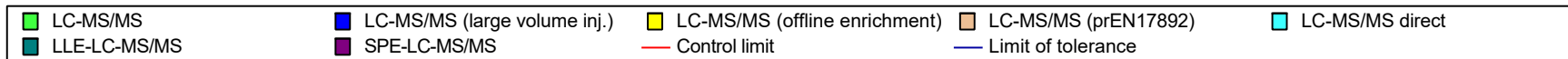
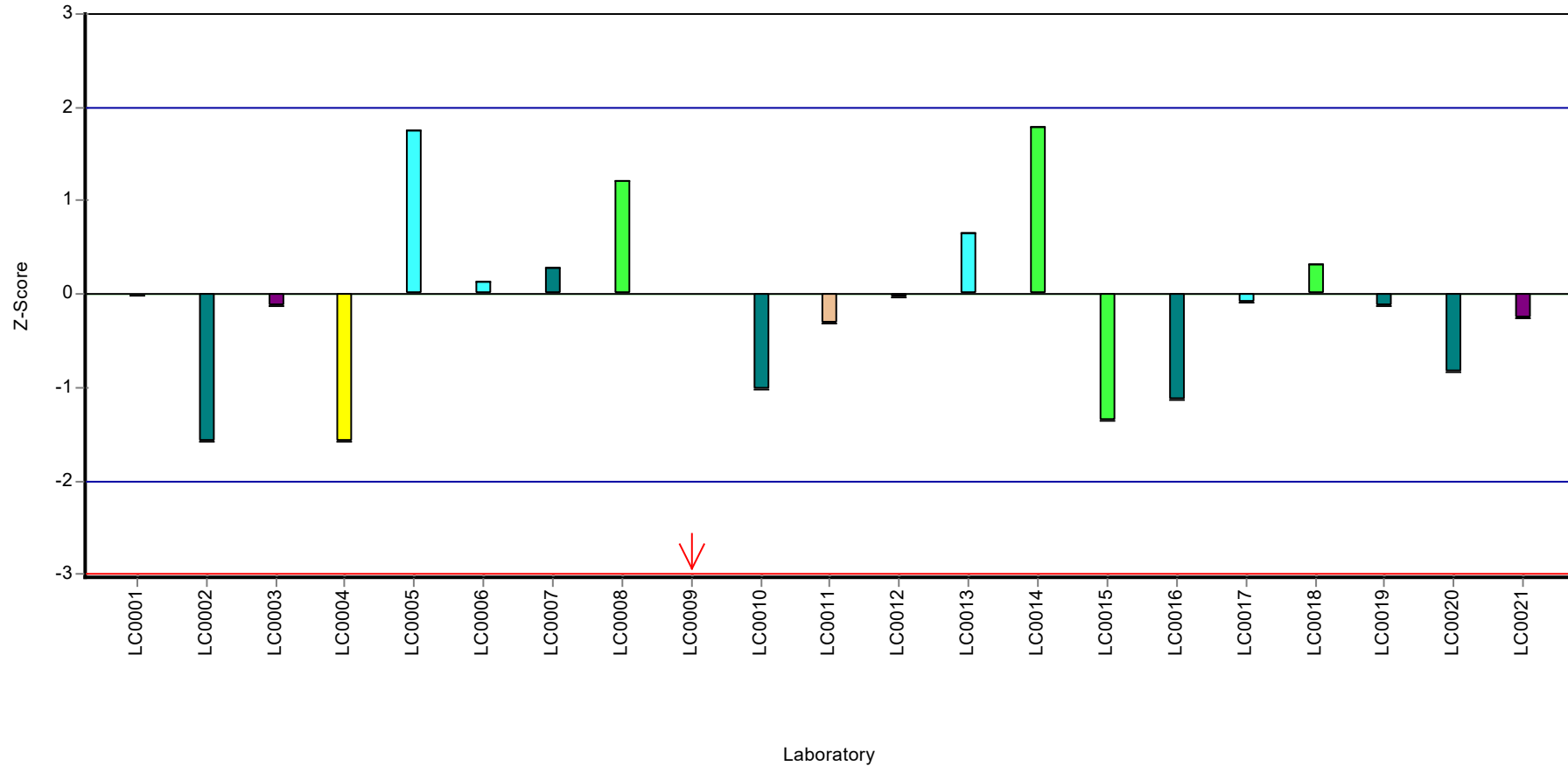
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptanoic acid (PFHpA) - PF7C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

## Parameter oriented report

### PF01 A

#### Perfluorooctanoic acid (PFOA) - PF8C

Unit	µg/l
Assigned value ± U (k=2)	0.0314 ± 0.00153
Criterion	0.00346 (11 %)
Minimum - Maximum	0.026 - 0.04
Control test value ± U (k=2)	0.0256 ± 0.0064

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0302	0.00091	96.1	-0.35	
LC0002	0.026	0.002	82.8	-1.57	
LC0003	0.0344	0.0052	110	0.86	
LC0004	0.027	0.008	86	-1.28	
LC0005	0.032	0.016	102	0.17	
LC0006	0.0329	0.01185	105	0.43	
LC0007	0.032	0.006	102	0.17	
LC0008	0.04	0.012	127	2.49	
LC0009	0.0188	0.00658	59.8	-3.65	H
LC0010	0.0322	0.0036	103	0.23	
LC0011	0.0301	0.0075	95.8	-0.38	
LC0012	0.03164	0.00696	101	0.07	
LC0013	0.034	0.01	108	0.75	
LC0014	0.0302	0.00905	96.1	-0.35	
LC0015	0.0275	0.011	87.5	-1.13	
LC0016	0.0419	0.006	133	3.04	H
LC0017	0.033	0.007	105	0.46	
LC0018	0.032	0.0099	102	0.17	
LC0019	0.0318	0.0086	101	0.11	
LC0020	0.026	0.008	82.8	-1.57	
LC0021	0.0339	0.0102	108	0.72	

#### Characteristics of parameter

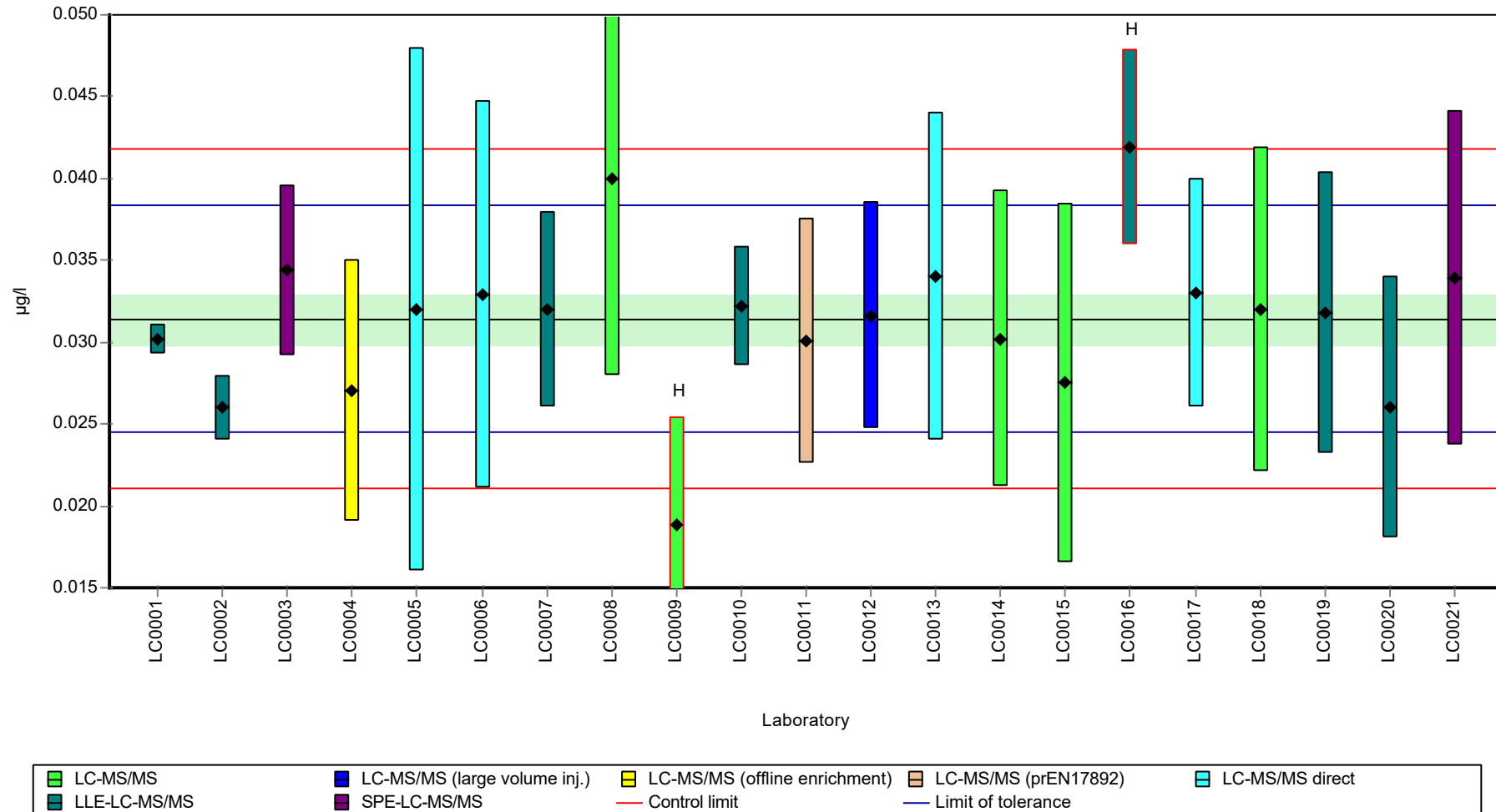
	all results	without outliers	Unit
Mean ± CI (99%)	0.0313 ± 0.00317	0.0314 ± 0.0023	µg/l
Minimum	0.0188	0.026	µg/l
Maximum	0.0419	0.04	µg/l
Standard deviation	0.00484	0.00333	µg/l
rel. standard deviation	15.5	10.6	%
n	21	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

Graphical presentation of results

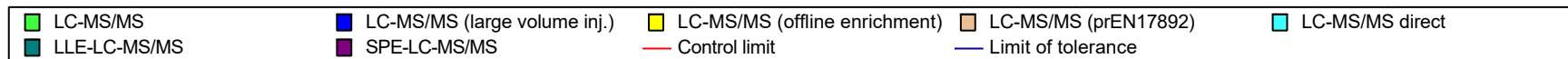
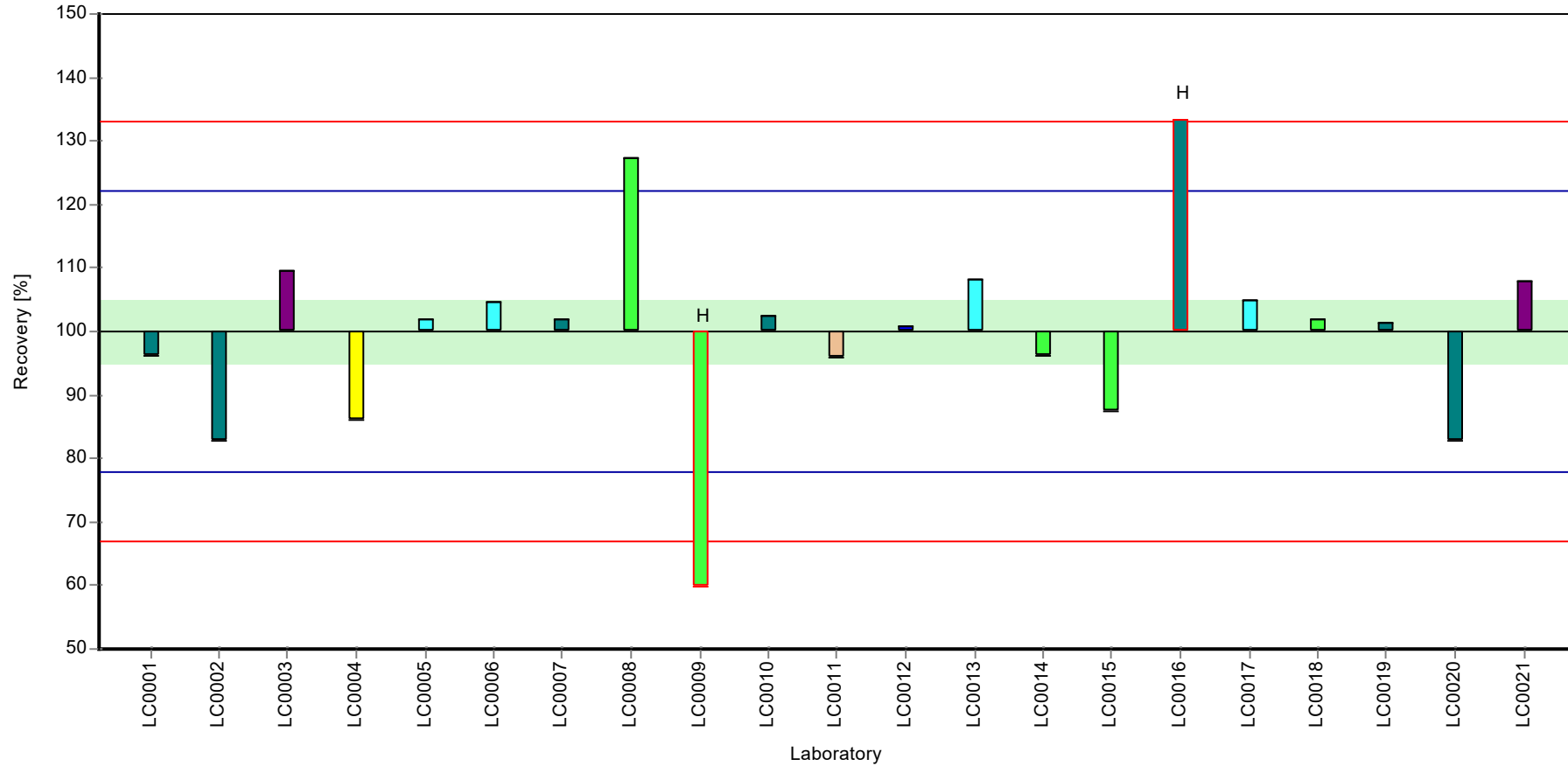
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

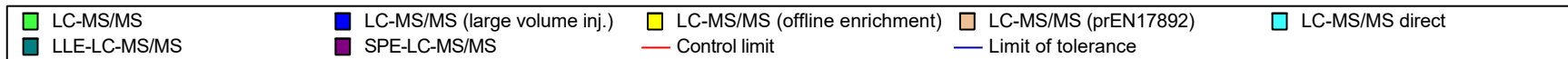
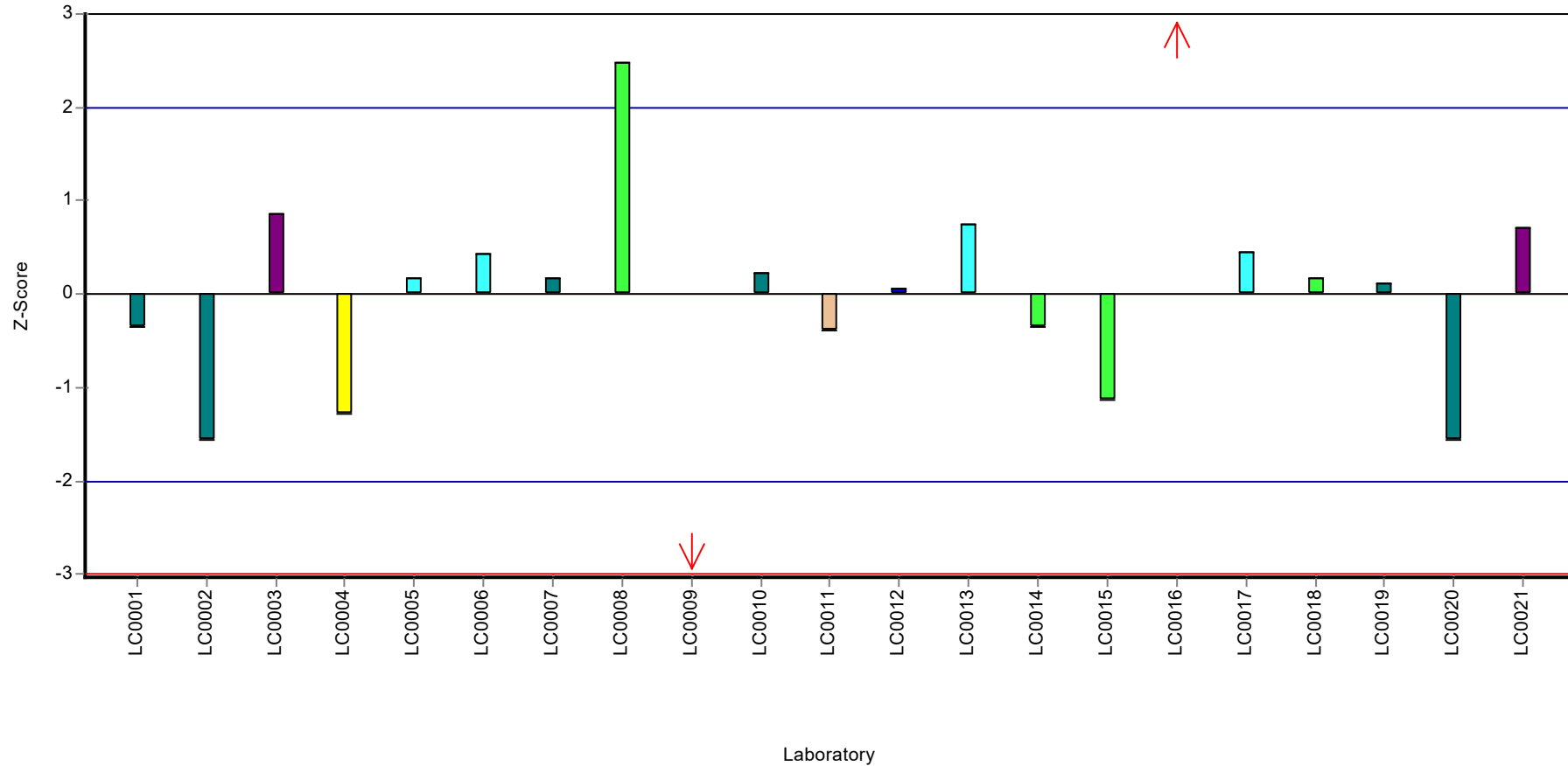
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

## Parameter oriented report

### PF01 B

#### Perfluorooctanoic acid (PFOA) - PF8C

Unit	µg/l
Assigned value ± U (k=2)	0.168 ± 0.0102
Criterion	0.0236 (14 %)
Minimum - Maximum	0.13 - 0.213
Control test value ± U (k=2)	0.141 ± 0.0353

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.1613	0.0065	95.8	-0.3	
LC0002	0.134	0.002	79.6	-1.46	
LC0003	0.185	0.028	110	0.7	
LC0004	0.151	0.045	89.7	-0.74	
LC0005	0.1985	0.0992	118	1.28	
LC0006	0.1703	0.06129	101	0.08	
LC0007	0.174	0.03	103	0.24	
LC0008	0.163	0.098	96.8	-0.23	
LC0009	0.0802	0.0281	47.6	-3.74	H
LC0010	0.162	0.0278	96.2	-0.27	
LC0011	0.1659	0.0415	98.5	-0.11	
LC0012	0.1687	0.03711	100	0.01	
LC0013	0.213	0.064	126	1.89	
LC0014	0.163	0.049	96.8	-0.23	
LC0015	0.144	0.0576	85.5	-1.03	
LC0016	0.2	0.03	119	1.34	
LC0017	0.17	0.034	101	0.07	
LC0018	0.2045	0.063	121	1.53	
LC0019	0.1418	0.0383	84.2	-1.13	
LC0020	0.13	0.04	77.2	-1.63	
LC0021	0.168	0.05	99.8	-0.02	

#### Characteristics of parameter

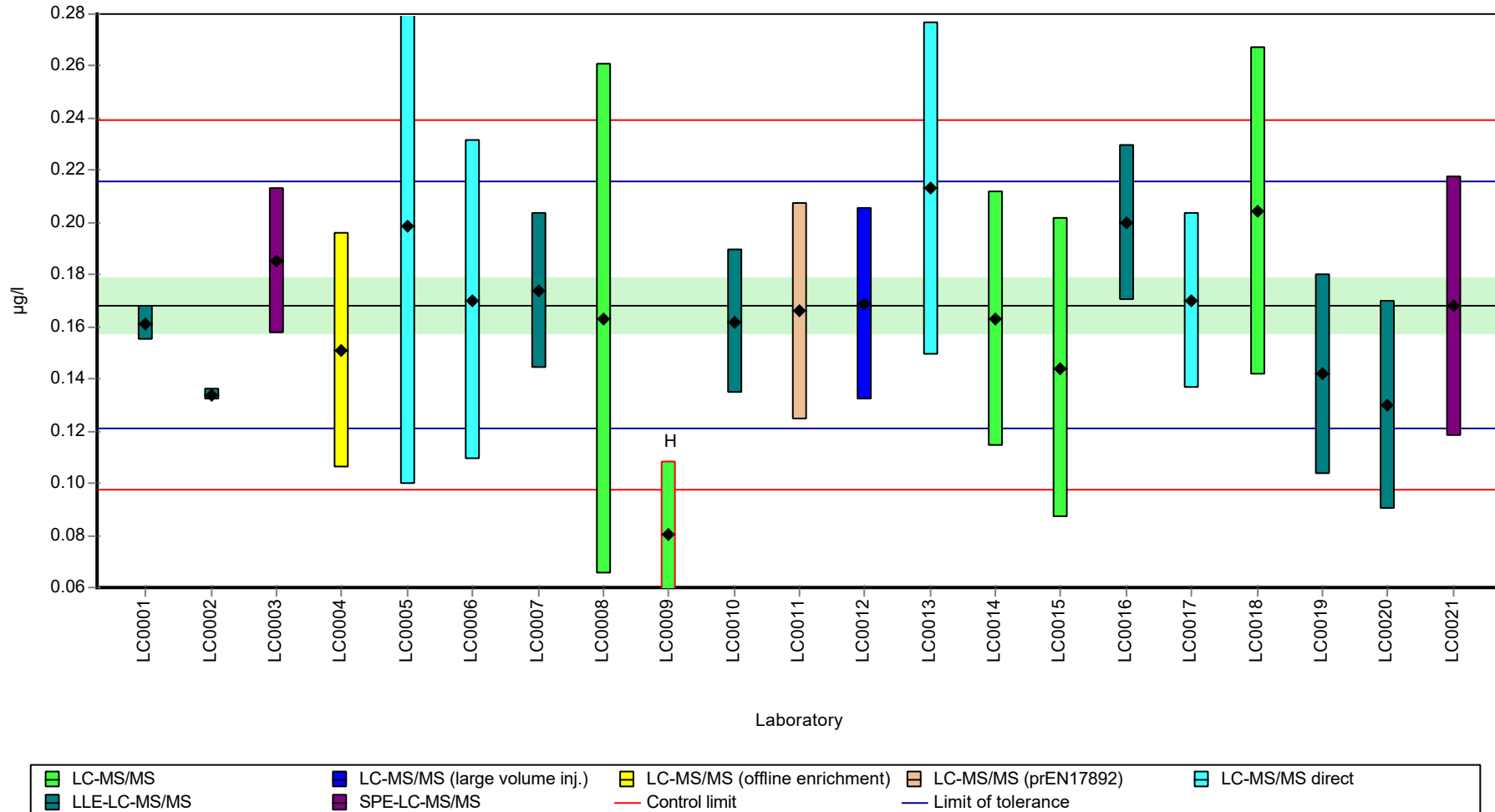
	all results	without outliers	Unit
Mean ± CI (99%)	0.164 ± 0.0193	0.168 ± 0.0153	µg/l
Minimum	0.0802	0.13	µg/l
Maximum	0.213	0.213	µg/l
Standard deviation	0.0294	0.0229	µg/l
rel. standard deviation	17.9	13.6	%
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

Graphical presentation of results

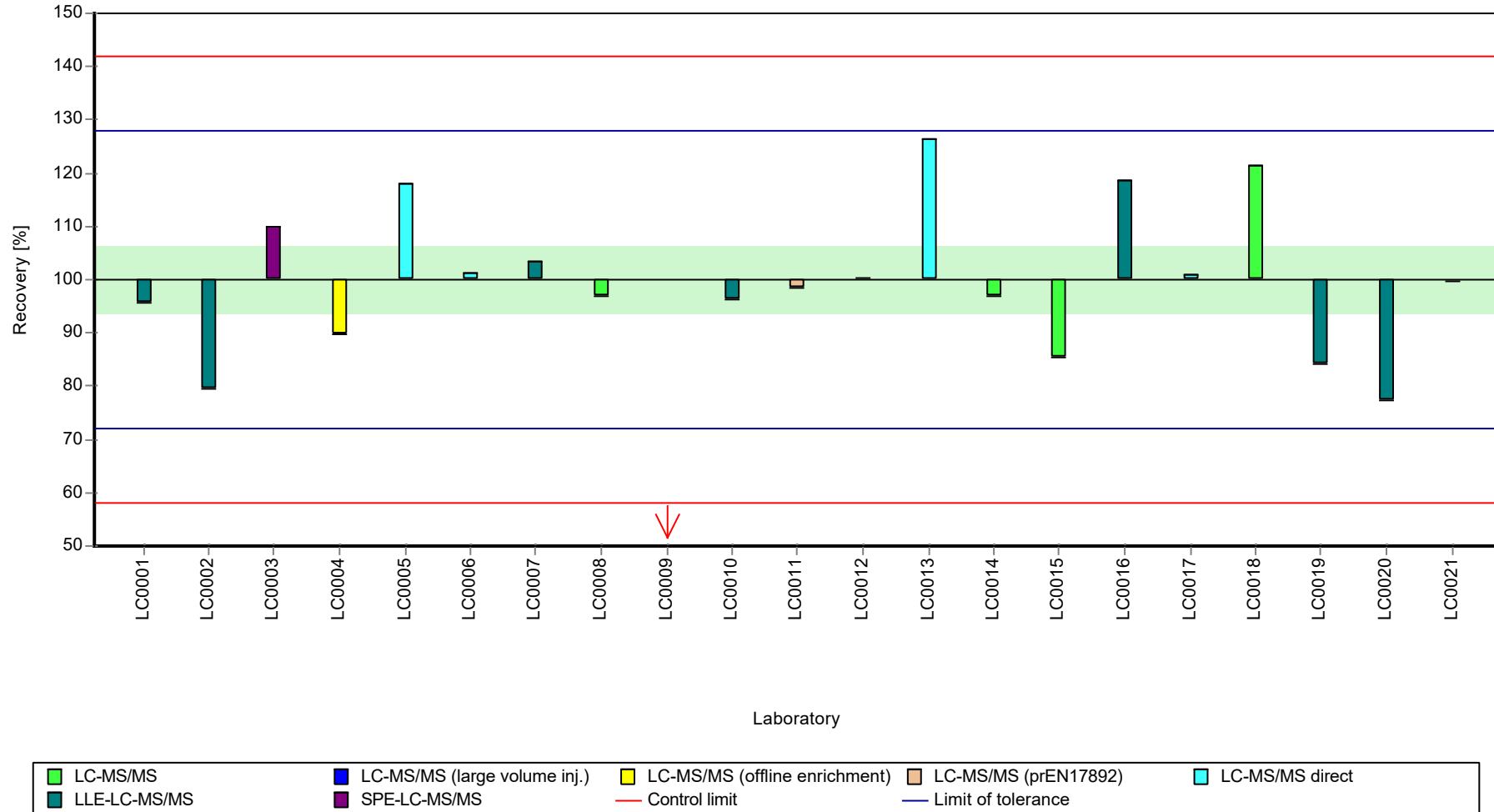
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

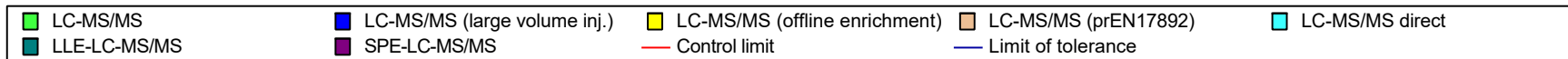
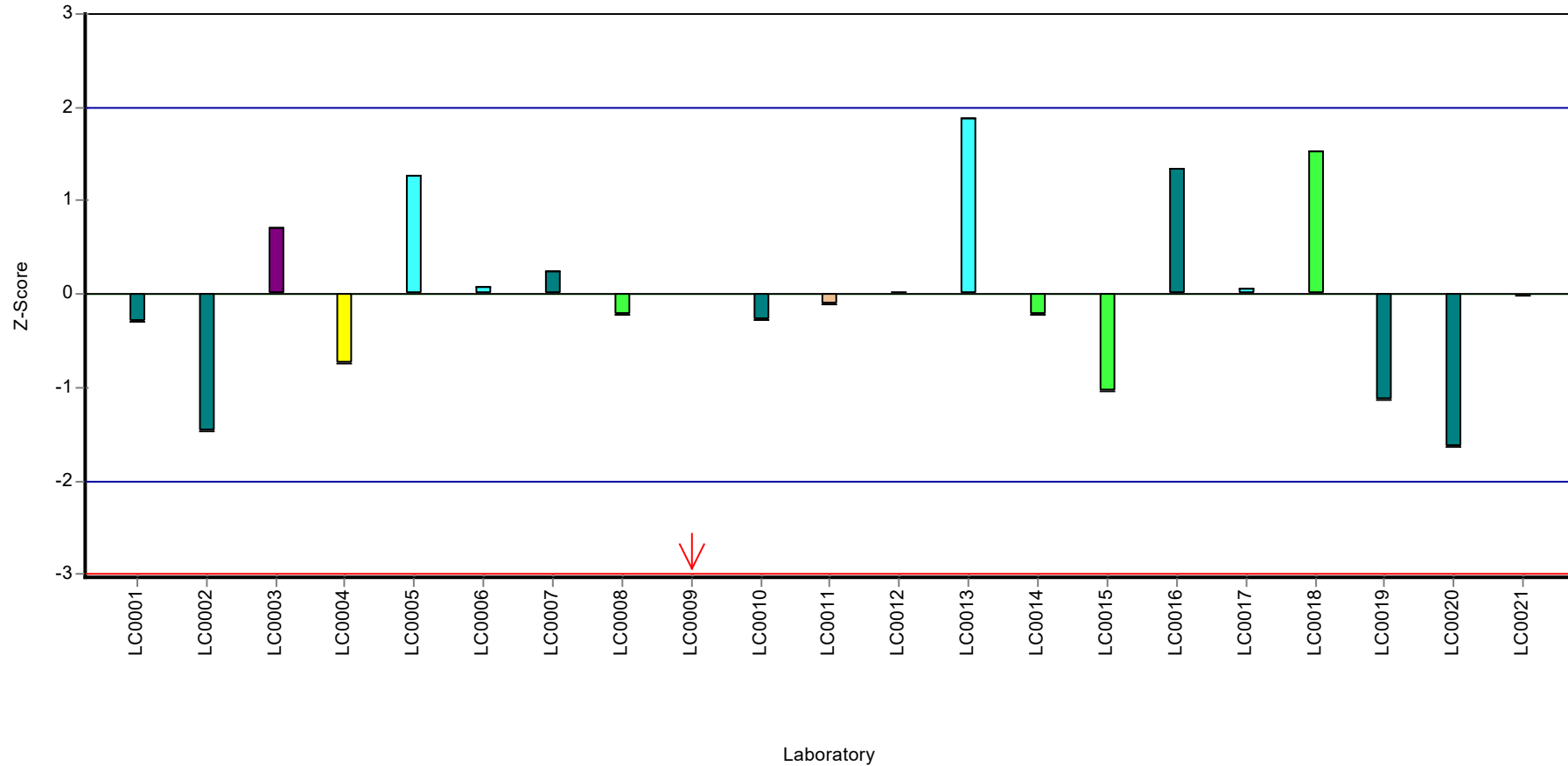
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctanoic acid (PFOA) - PF8C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononanoic acid (PFNA) - PF9C

## Parameter oriented report

### PF01 A

#### Perfluorononanoic acid (PFNA) - PF9C

Unit	µg/l
Assigned value ± U (k=2)	0.0118 ± 0.000741
Criterion	0.00141 (12 %)
Minimum - Maximum	0.009 - 0.0145
Control test value ± U (k=2)	0.00826 ± 0.00165

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.011	0.00044	93.5	-0.54	
LC0002	0.009	0.002	76.5	-1.96	
LC0003	0.0114	0.0017	96.9	-0.26	
LC0004	0.01	0.003	85	-1.25	
LC0005	0.0117	0.0047	99.4	-0.05	
LC0006	0.011	0.00397	93.5	-0.54	
LC0007	0.012	0.002	102	0.16	
LC0008	0.014	0.007	119	1.58	
LC0009	0.00459	0.00161	39	-5.08	H
LC0010	0.0112	0.0016	95.2	-0.4	
LC0011	0.0112	0.0028	95.2	-0.4	
LC0012	0.01239	0.00211	105	0.44	
LC0013	0.013	0.004	110	0.87	
LC0014	0.0104	0.00311	88.4	-0.97	
LC0015	0.00972	0.0039	82.6	-1.45	
LC0016	0.0129	0.002	110	0.8	
LC0017	0.011	0.002	93.5	-0.54	
LC0018	0.0145	0.0034	123	1.94	
LC0019	0.0107	0.0028	90.9	-0.76	
LC0020	< 0.03 (LOQ)	-	-	-	
LC0021	0.0109	0.0033	92.6	-0.61	

#### Characteristics of parameter

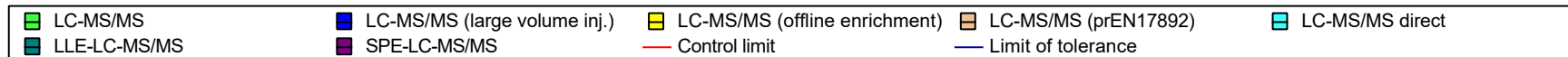
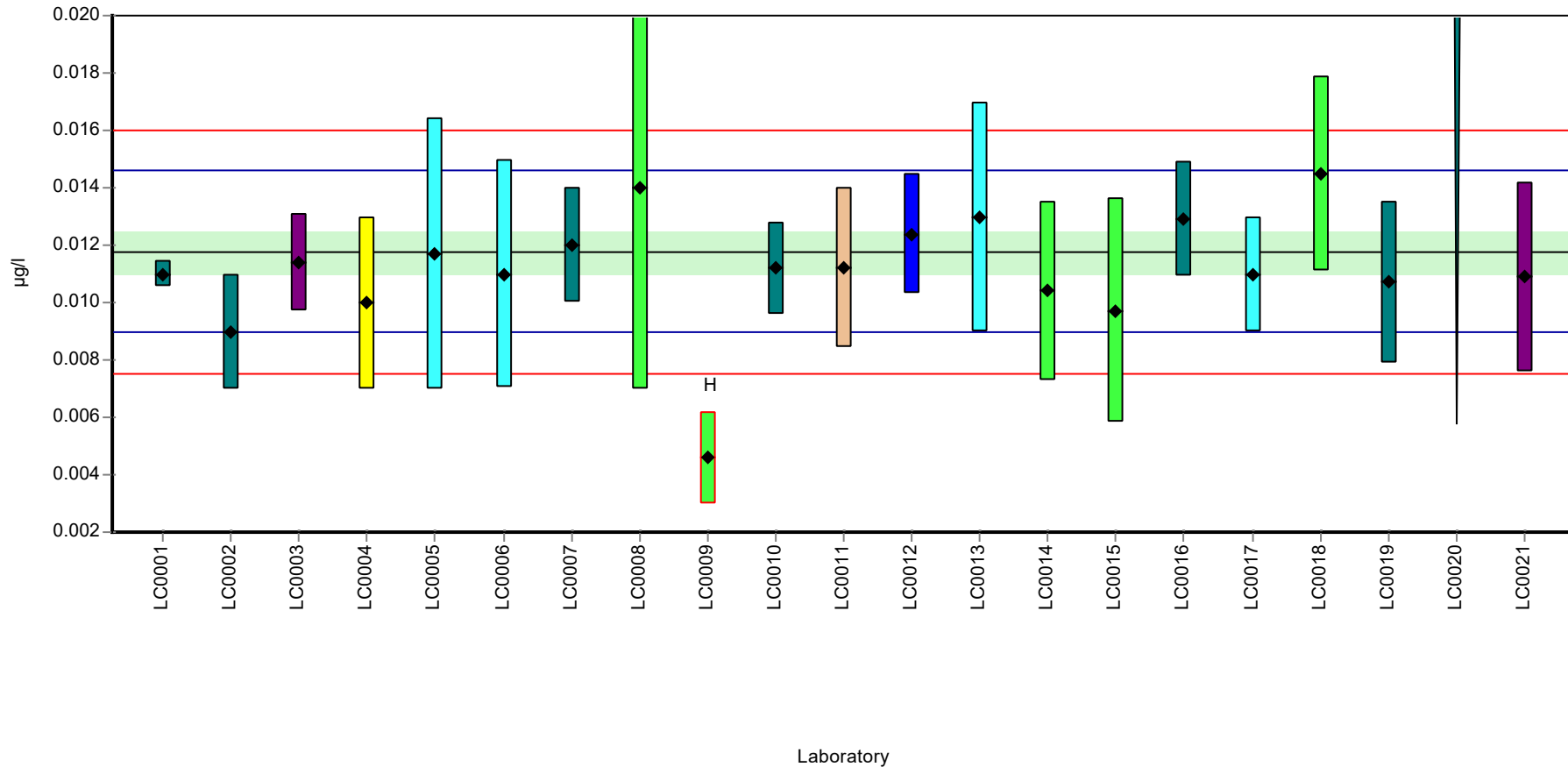
	all results	without outliers	Unit
Mean ± CI (99%)	0.0111 ± 0.00138	0.0115 ± 0.000964	µg/l
Minimum	0.00459	0.009	µg/l
Maximum	0.0145	0.0145	µg/l
Standard deviation	0.00206	0.0014	µg/l
rel. standard deviation	18.5	12.2 %	
n	20	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononanoic acid (PFNA) - PF9C

Graphical presentation of results

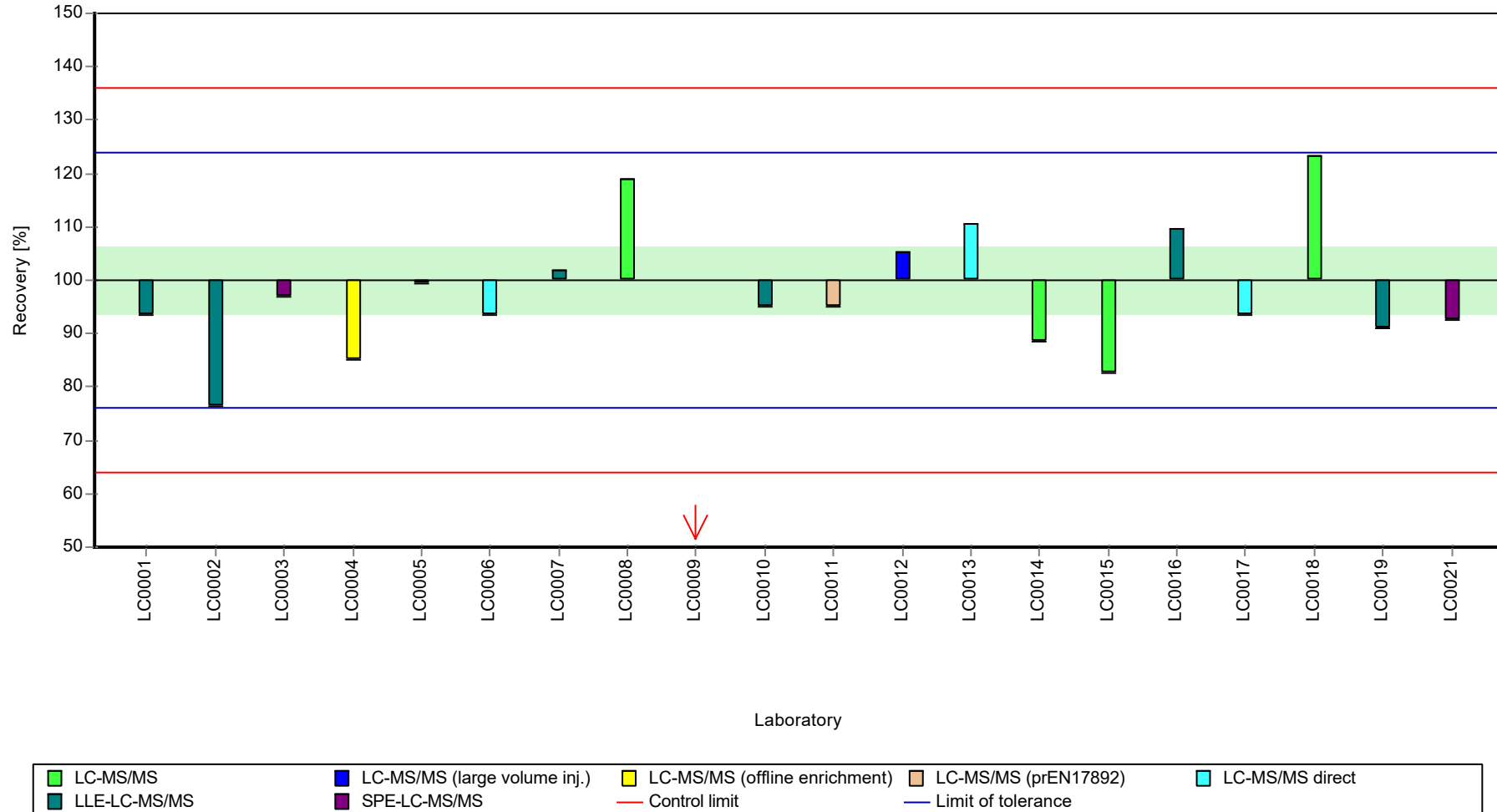
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononanoic acid (PFNA) - PF9C

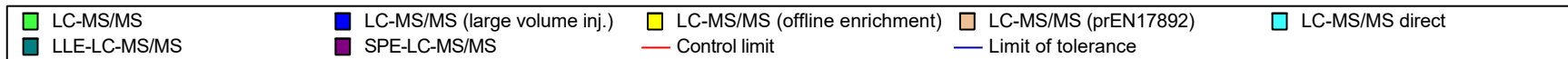
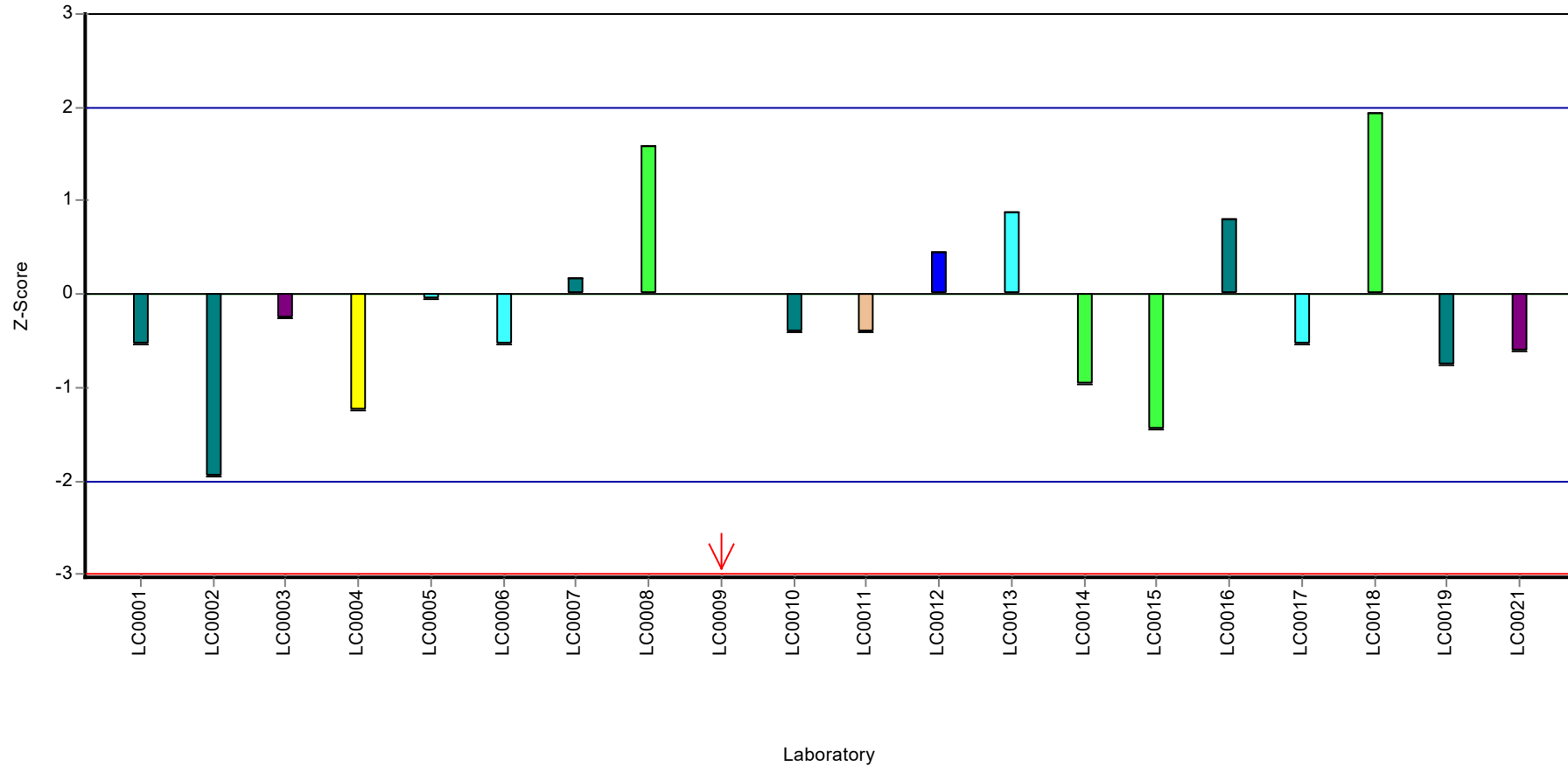
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononanoic acid (PFNA) - PF9C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononanoic acid (PFNA) - PF9C

## Parameter oriented report

### PF01 B

#### Perfluorononanoic acid (PFNA) - PF9C

Unit	µg/l
Assigned value ± U (k=2)	0.116 ± 0.00542
Criterion	0.0116 (10 %)
Minimum - Maximum	0.091 - 0.132
Control test value ± U (k=2)	0.0963 ± 0.0193

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.1215	0.0049	105	0.5	
LC0002	0.089	0.002	76.9	-2.31	H
LC0003	0.119	0.018	103	0.29	
LC0004	0.1	0.03	86.4	-1.36	
LC0005	0.1235	0.0494	107	0.68	
LC0006	0.1151	0.04143	99.5	-0.05	
LC0007	0.132	0.03	114	1.41	
LC0008	0.098	0.059	84.7	-1.53	
LC0009	0.0553	0.0194	47.8	-5.22	H
LC0010	0.1	0.0122	86.4	-1.36	
LC0011	0.12	0.03	104	0.37	
LC0012	0.11323	0.01925	97.9	-0.21	
LC0013	0.131	0.041	113	1.32	
LC0014	0.118	0.0353	102	0.2	
LC0015	0.104	0.0416	89.9	-1.01	
LC0016	0.117	0.018	101	0.11	
LC0017	0.124	0.025	107	0.72	
LC0018	0.1303	0.031	113	1.26	
LC0019	0.1193	0.031	103	0.31	
LC0020	0.091	0.027	78.7	-2.13	
LC0021	0.121	0.036	105	0.46	

#### Characteristics of parameter

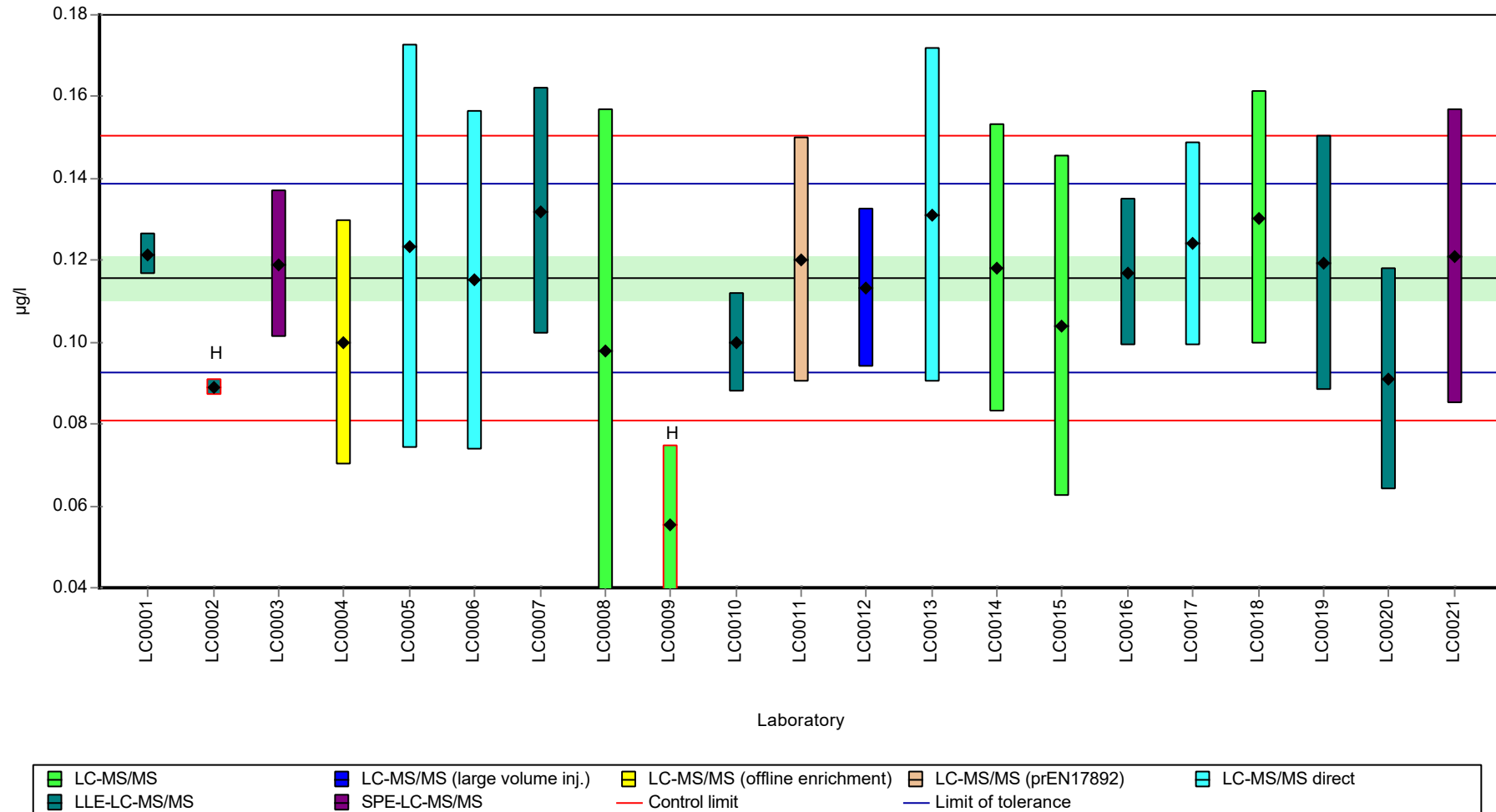
	all results	without outliers	Unit
Mean ± CI (99%)	0.112 ± 0.0118	0.116 ± 0.00813	µg/l
Minimum	0.0553	0.091	µg/l
Maximum	0.132	0.132	µg/l
Standard deviation	0.018	0.0118	µg/l
rel. standard deviation	16.2	10.2 %	
n	21	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononanoic acid (PFNA) - PF9C

Graphical presentation of results

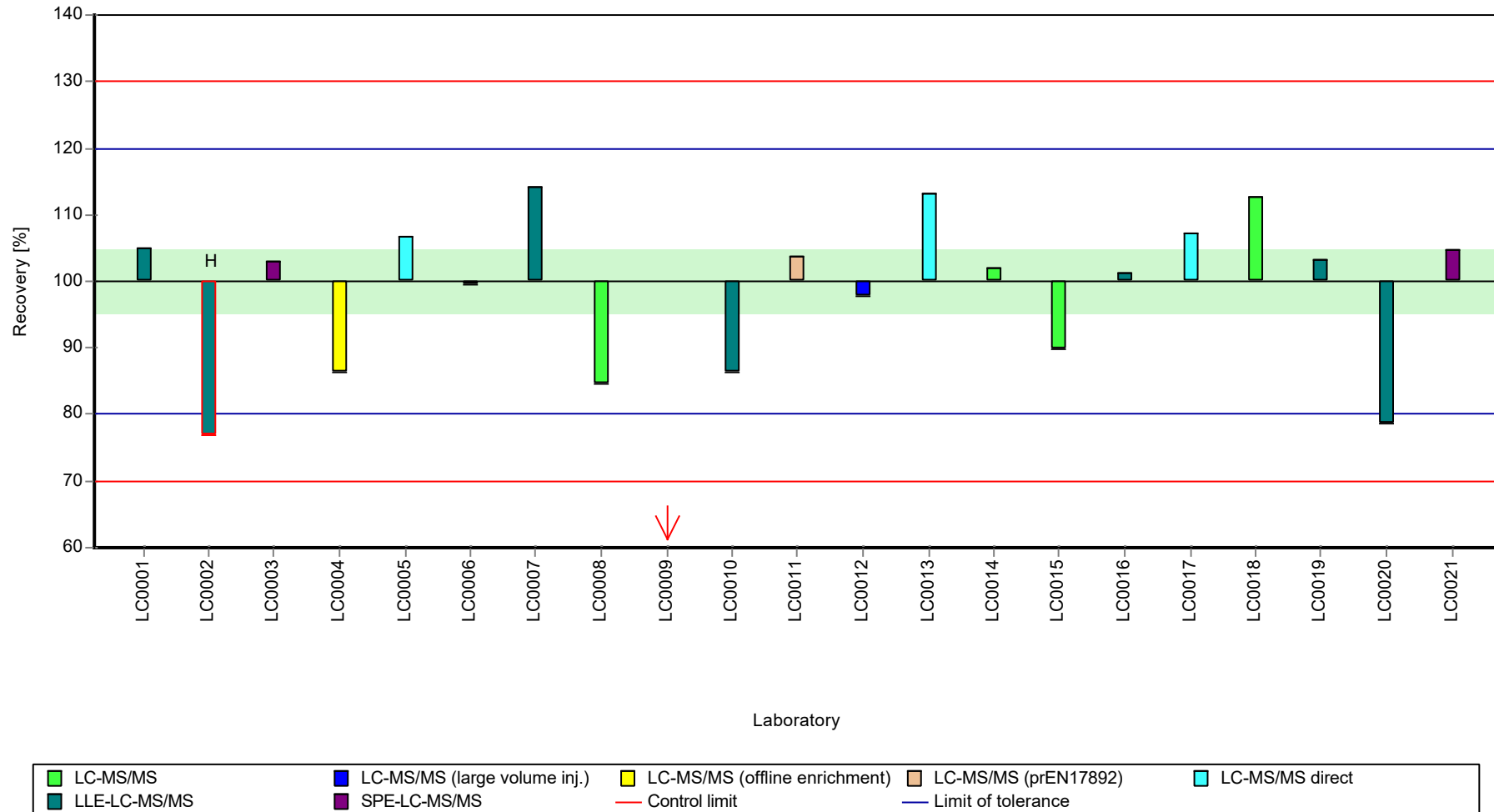
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononanoic acid (PFNA) - PF9C

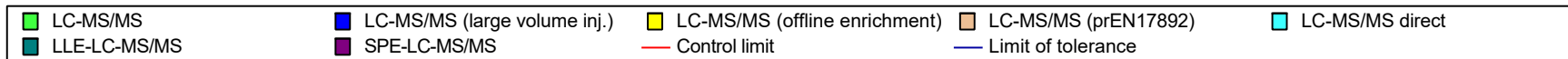
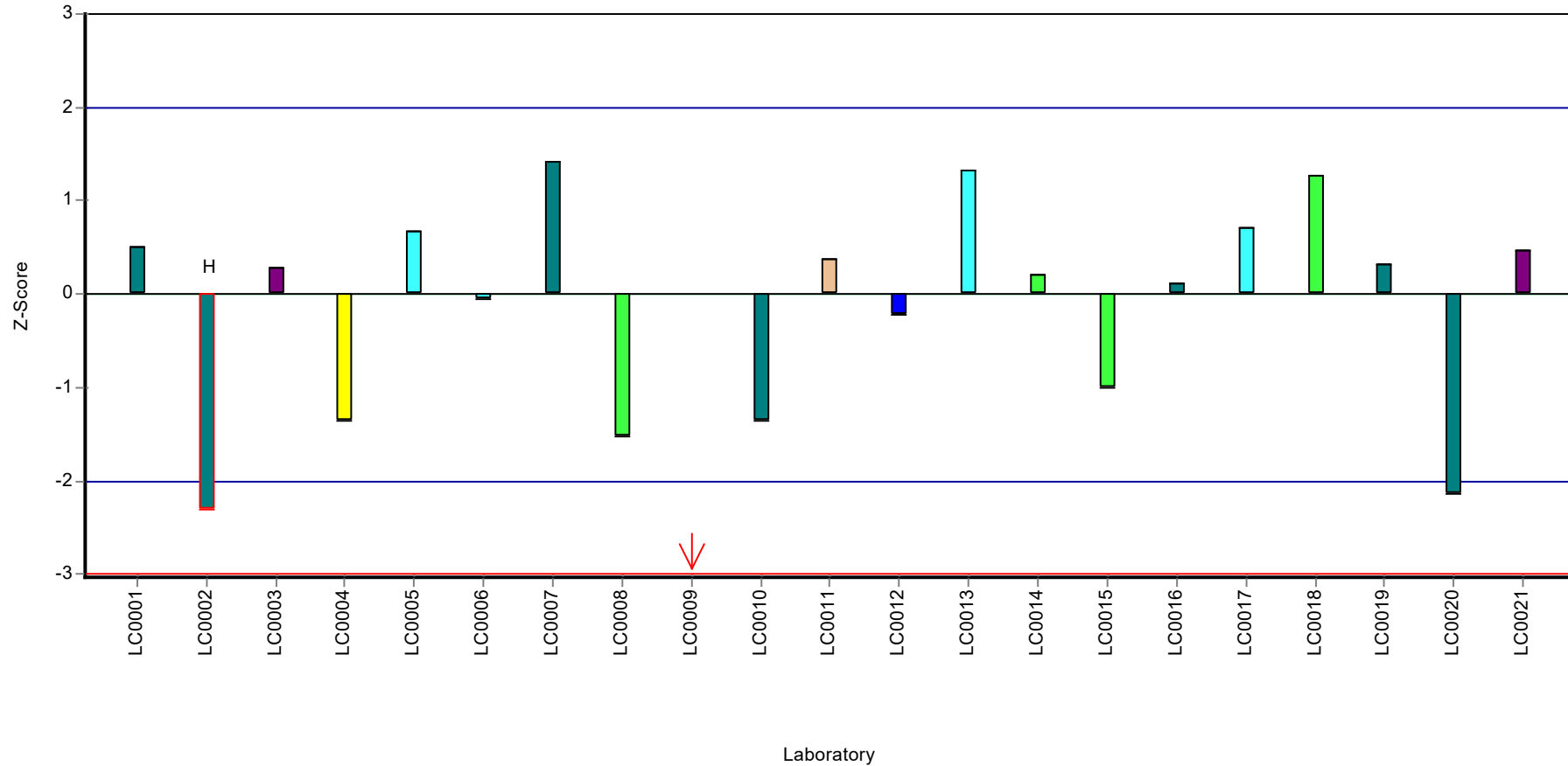
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononanoic acid (PFNA) - PF9C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

## Parameter oriented report

### PF01 A

#### Perfluorodecanoic acid (PFDA) - PF10C

Unit	µg/l
Assigned value ± U (k=2)	0.00808 ± 0.000565
Criterion	0.00121 (15 %)
Minimum - Maximum	0.006 - 0.01
Control test value ± U (k=2)	0.00656 ± 0.00164

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0095	0.00038	118	1.17	
LC0002	0.006	0.002	74.3	-1.72	
LC0003	0.00873	0.0013	108	0.54	
LC0004	0.006	0.002	74.3	-1.72	
LC0005	0.0084	0.0034	104	0.26	
LC0006	0.0075	0.00271	92.8	-0.48	
LC0007	0.008	0.002	99	-0.07	
LC0008	0.01	0.005	124	1.59	
LC0009	0.00266	0.00093	32.9	-4.47	H
LC0010	< 0.01 (LOQ)	-	-	-	
LC0011	0.0072	0.0018	89.1	-0.73	
LC0012	0.00831	0.00133	103	0.19	
LC0013	0.009	0.003	111	0.76	
LC0014	0.00835	0.00251	103	0.22	
LC0015	0.00681	0.0027	84.3	-1.05	
LC0016	0.00904	0.001	112	0.79	
LC0017	0.008	0.0015	99	-0.07	
LC0018	0.0098	0.0046	121	1.42	
LC0019	0.0081	0.0031	100	0.02	
LC0020	< 0.01 (LOQ)	-	-	-	
LC0021	0.00668	0.002	82.7	-1.15	

#### Characteristics of parameter

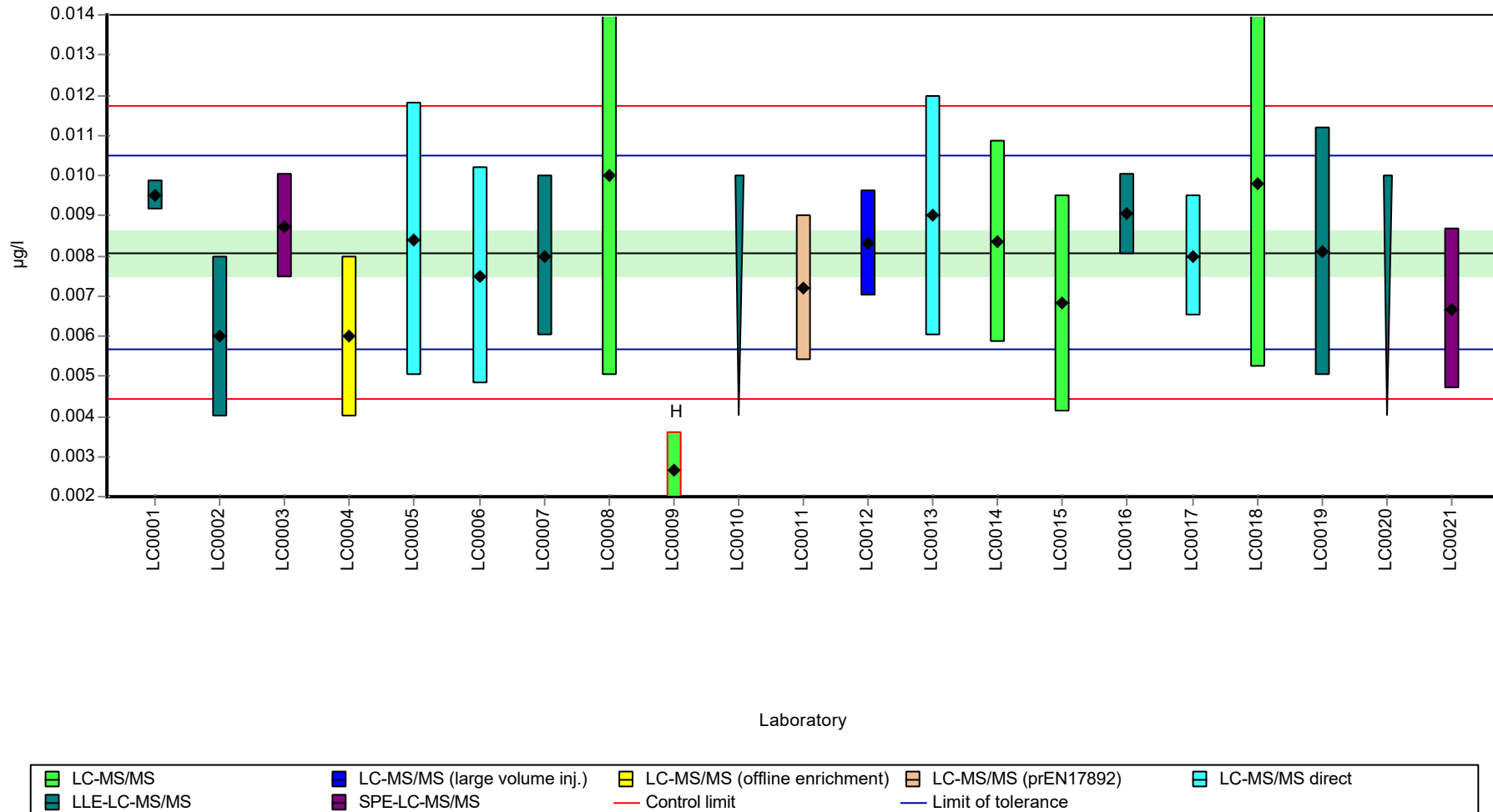
	all results	without outliers	Unit
Mean ± CI (99%)	0.00779 ± 0.00117	0.00808 ± 0.000848	µg/l
Minimum	0.00266	0.006	µg/l
Maximum	0.01	0.01	µg/l
Standard deviation	0.0017	0.0012	µg/l
rel. standard deviation	21.9	14.8	%
n	19	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

Graphical presentation of results

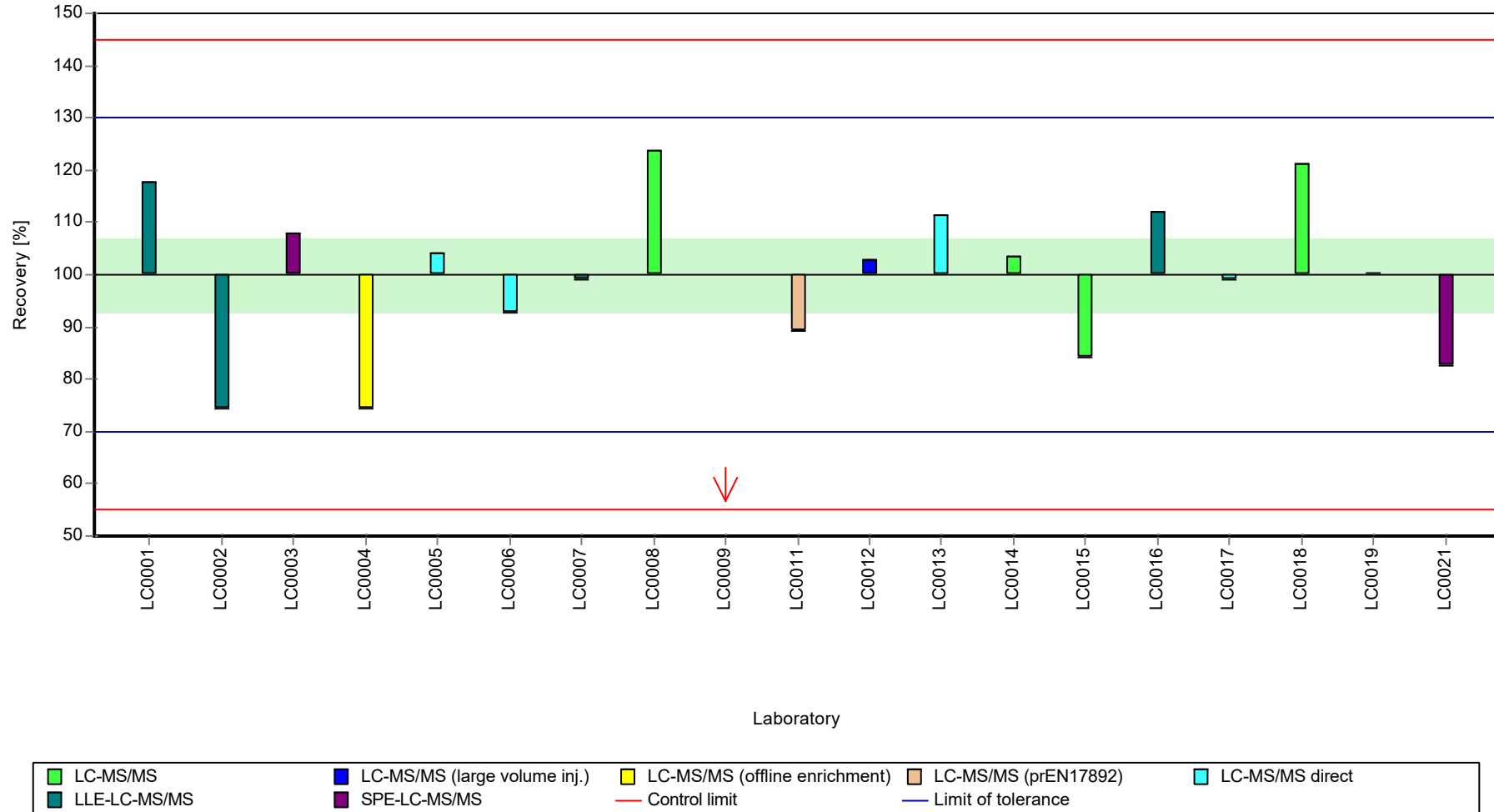
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

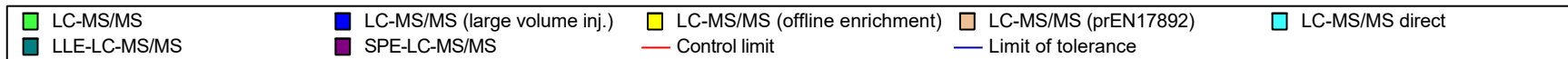
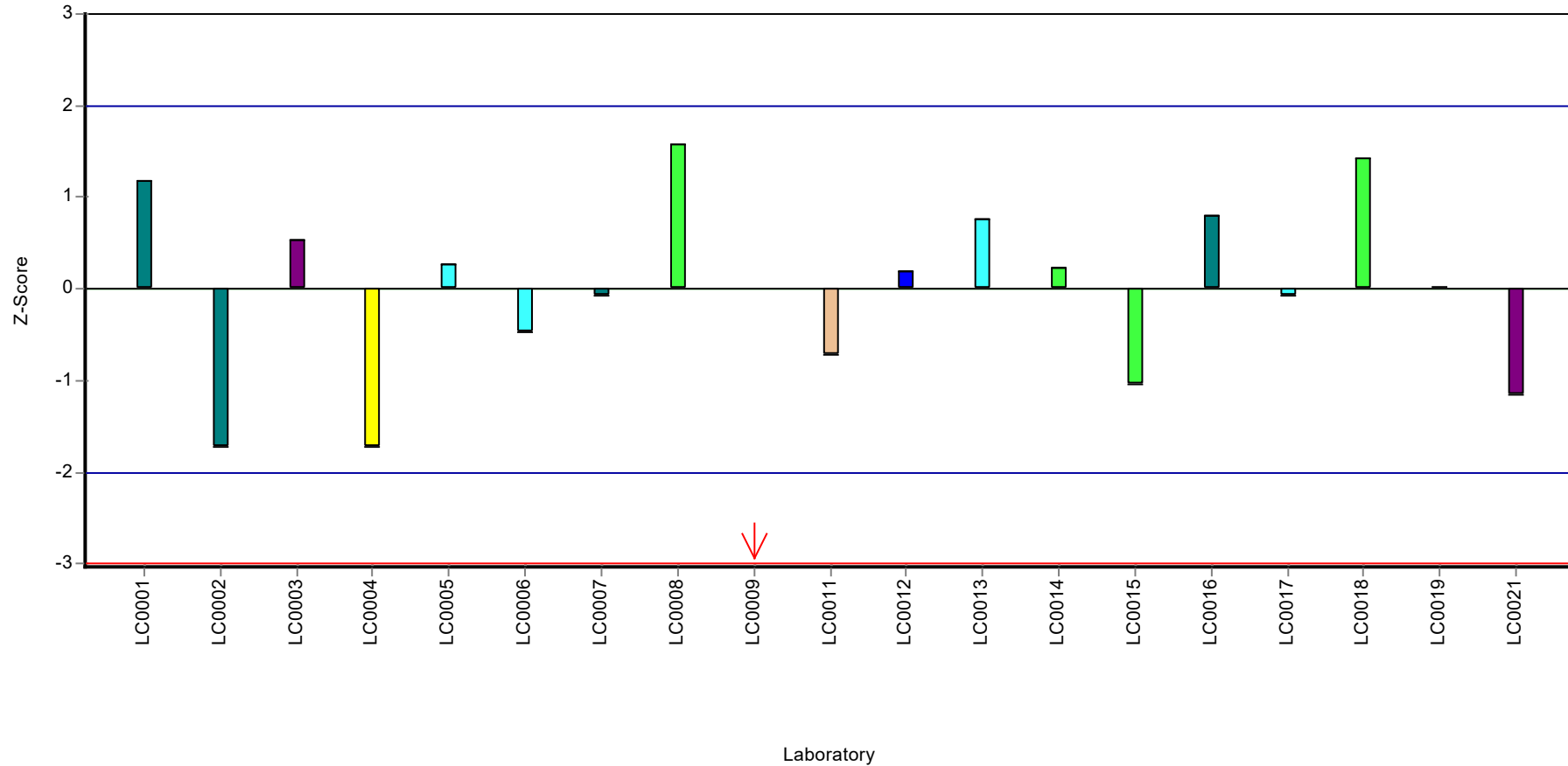
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

## Parameter oriented report

### PF01 B

#### Perfluorodecanoic acid (PFDA) - PF10C

Unit	µg/l
Assigned value ± U (k=2)	0.0392 ± 0.00321
Criterion	0.00706 (18 %)
Minimum - Maximum	0.024 - 0.0498
Control test value ± U (k=2)	0.0322 ± 0.00805

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0382	0.0015	97.3	-0.15	
LC0002	0.024	0.002	61.2	-2.16	
LC0003	0.0462	0.0069	118	0.98	
LC0004	0.035	0.01	89.2	-0.6	
LC0005	0.0396	0.0159	101	0.05	
LC0006	0.0368	0.01327	93.8	-0.35	
LC0007	0.04	0.008	102	0.11	
LC0008	0.016	0.01	40.8	-3.29	H
LC0009	0.0161	0.00564	41	-3.28	H
LC0010	0.0291	0.003	74.1	-1.44	
LC0011	0.0378	0.0095	96.3	-0.2	
LC0012	0.04276	0.00684	109	0.5	
LC0013	0.047	0.014	120	1.1	
LC0014	0.041	0.0123	104	0.25	
LC0015	0.0375	0.015	95.6	-0.25	
LC0016	0.0425	0.006	108	0.46	
LC0017	0.045	0.009	115	0.81	
LC0018	0.0492	0.0229	125	1.41	
LC0019	0.0498	0.0189	127	1.49	
LC0020	0.028	0.008	71.3	-1.59	
LC0021	0.0362	0.0108	92.2	-0.43	

#### Characteristics of parameter

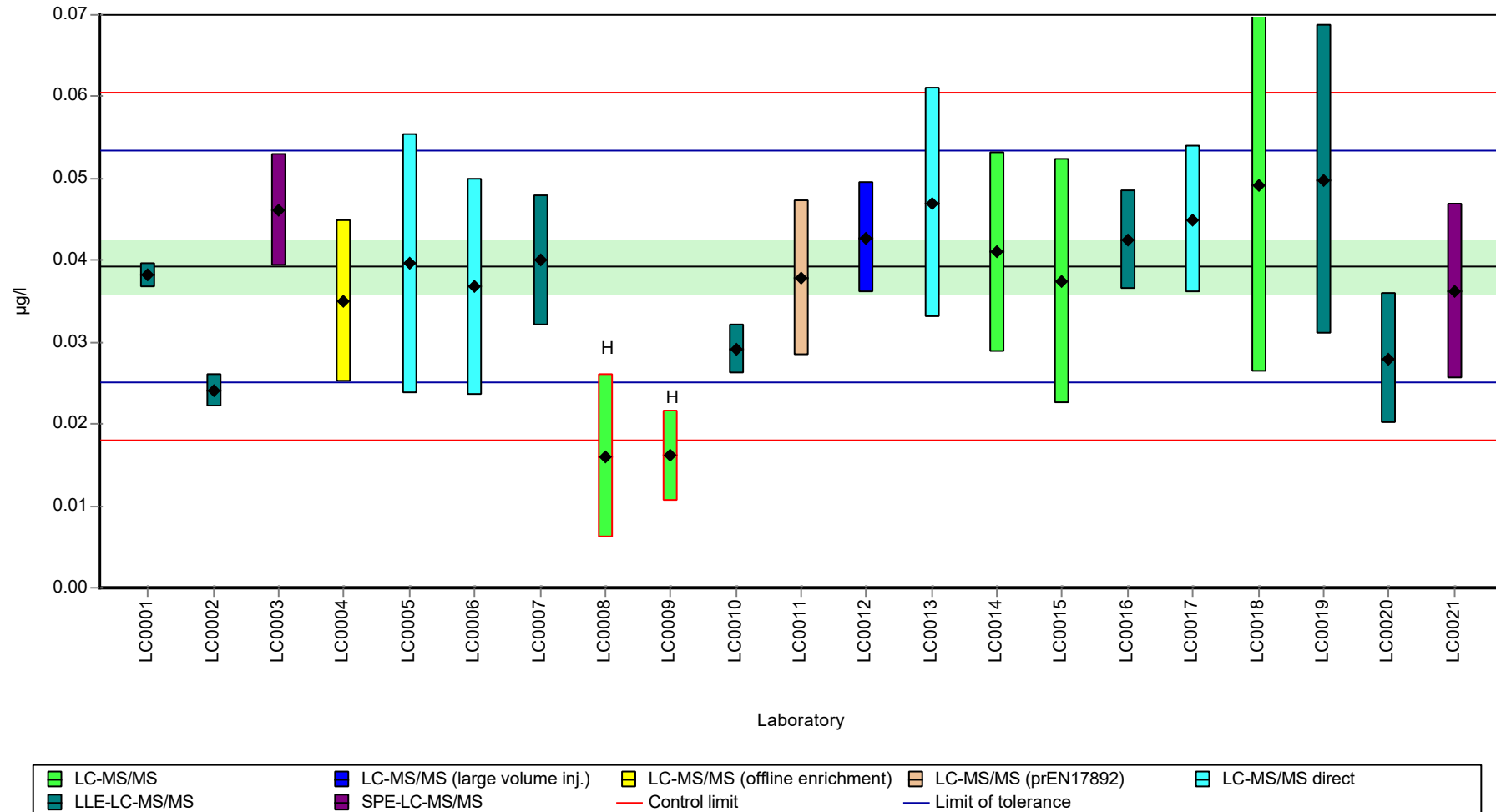
	all results	without outliers	Unit
Mean ± CI (99%)	0.037 ± 0.0063	0.0392 ± 0.00481	µg/l
Minimum	0.016	0.024	µg/l
Maximum	0.0498	0.0498	µg/l
Standard deviation	0.00963	0.00699	µg/l
rel. standard deviation	26	17.8 %	
n	21	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

Graphical presentation of results

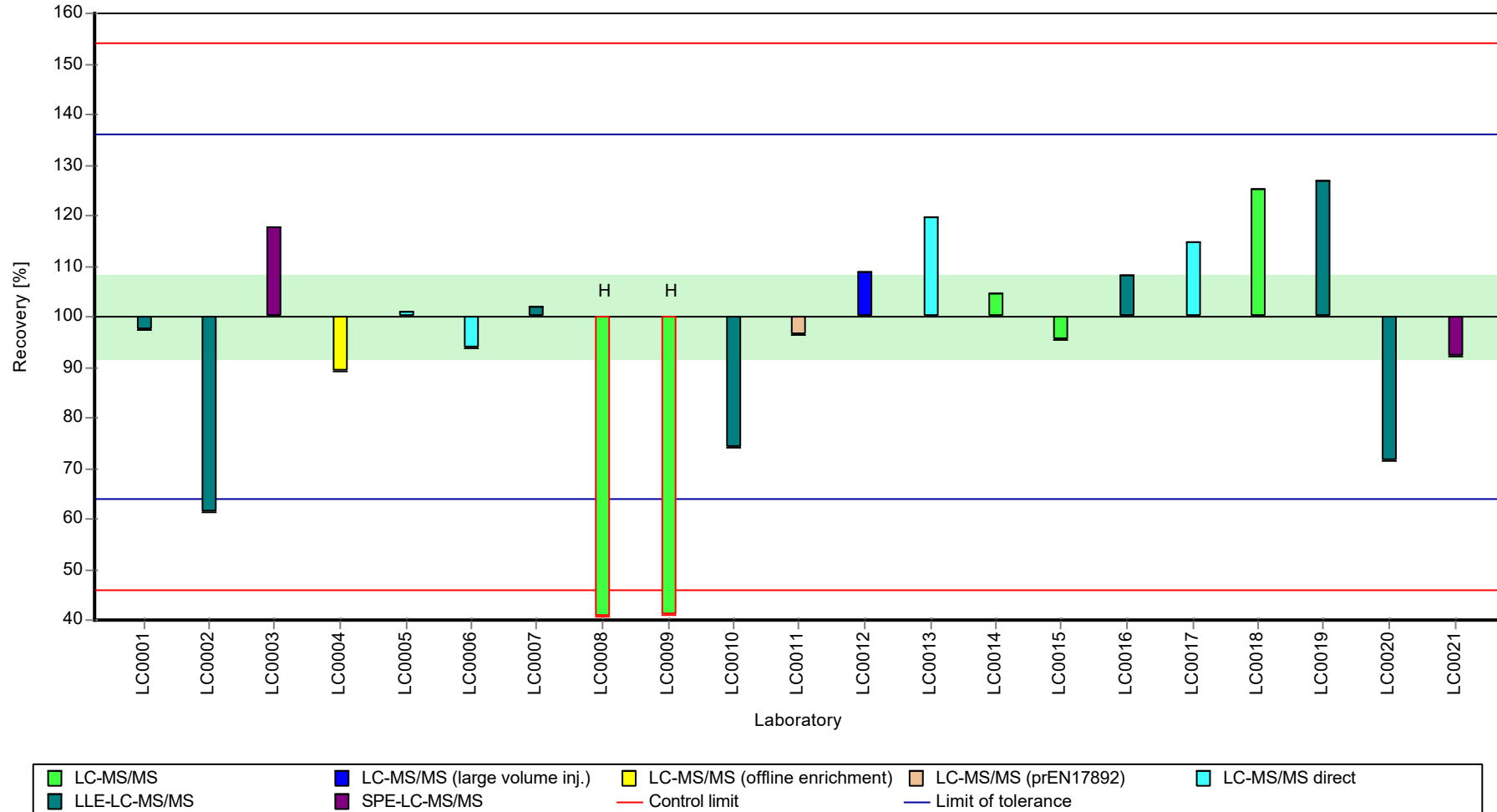
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

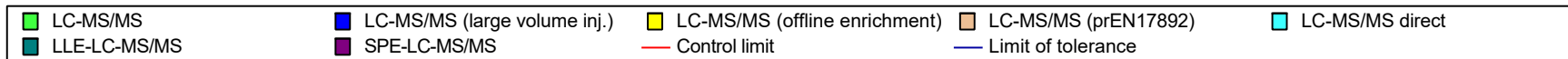
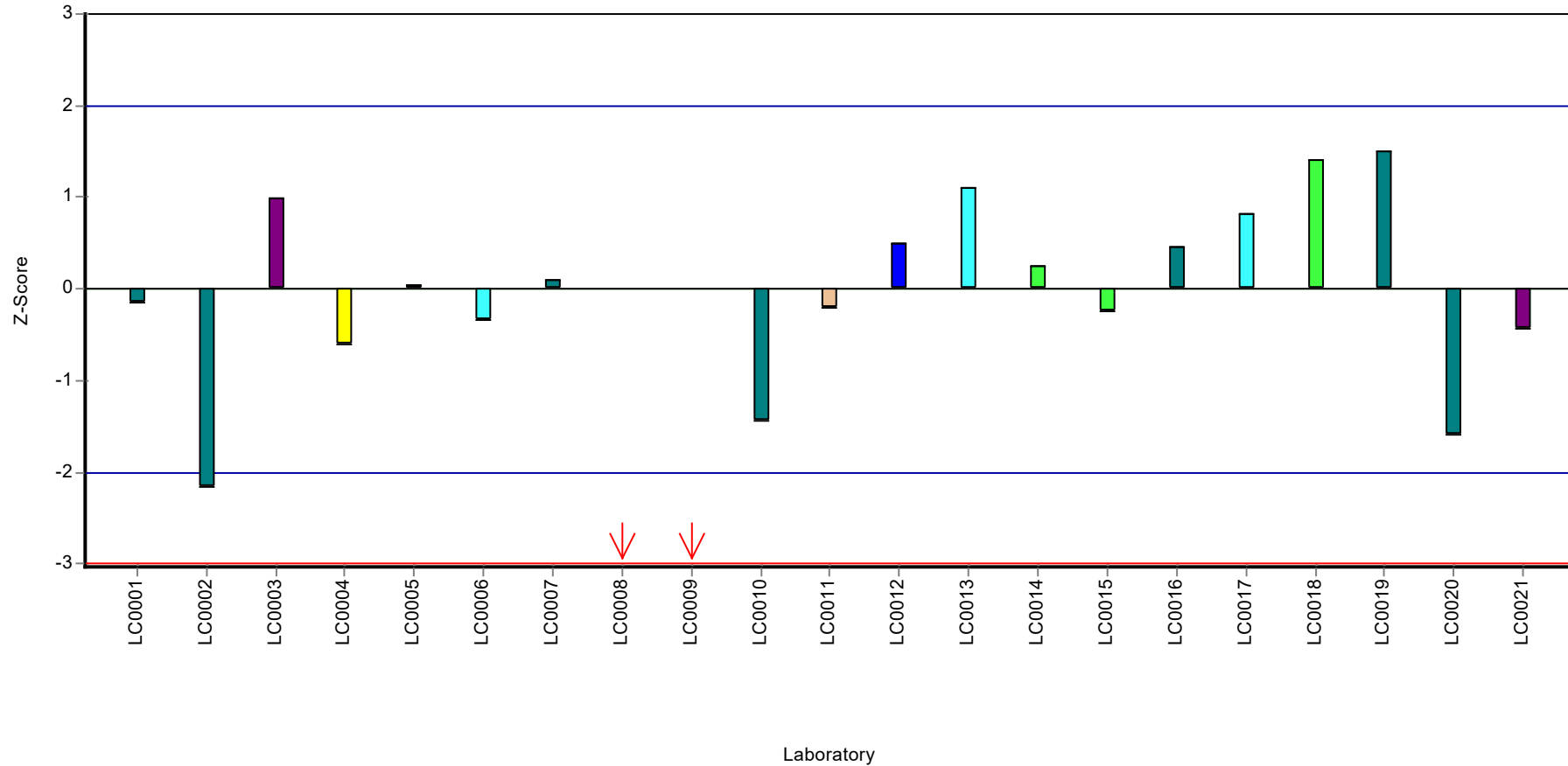
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecanoic acid (PFDA) - PF10C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

## Parameter oriented report

### PF01 A

#### Perfluoroundecanoic acid (PFUnDA) - PF11C

Unit	µg/l
Assigned value ± U (k=2)	0.0122 ± 0.00108
Criterion	0.00219 (18 %)
Minimum - Maximum	0.0095 - 0.017
Control test value ± U (k=2)	0.00986 ± 0.00394

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0132	0.002	108	0.46	
LC0004	0.01	0.003	82	-1	
LC0005	0.0121	0.0042	99.2	-0.04	
LC0006	0.0111	0.004	91	-0.5	
LC0007	0.012	0.002	98.4	-0.09	
LC0008	0.014	0.007	115	0.82	
LC0009	0.00357	0.00125	29.3	-3.93	H
LC0010	0.0103	0.0016	84.5	-0.86	
LC0011	0.0095	0.0024	77.9	-1.23	
LC0012	0.01368	0.00465	112	0.68	
LC0013	0.017	0.005	139	2.19	
LC0014	0.013	0.00391	107	0.37	
LC0015	0.00979	0.0039	80.3	-1.09	
LC0016	0.0102	0.002	83.7	-0.91	
LC0017	0.011	0.002	90.2	-0.54	
LC0018	0.0151	0.0075	124	1.32	
LC0019	0.0151	0.0033	124	1.32	
LC0020	< 0.01 (LOQ)	-	-	-	
LC0021	0.0102	0.0031	83.7	-0.91	

#### Characteristics of parameter

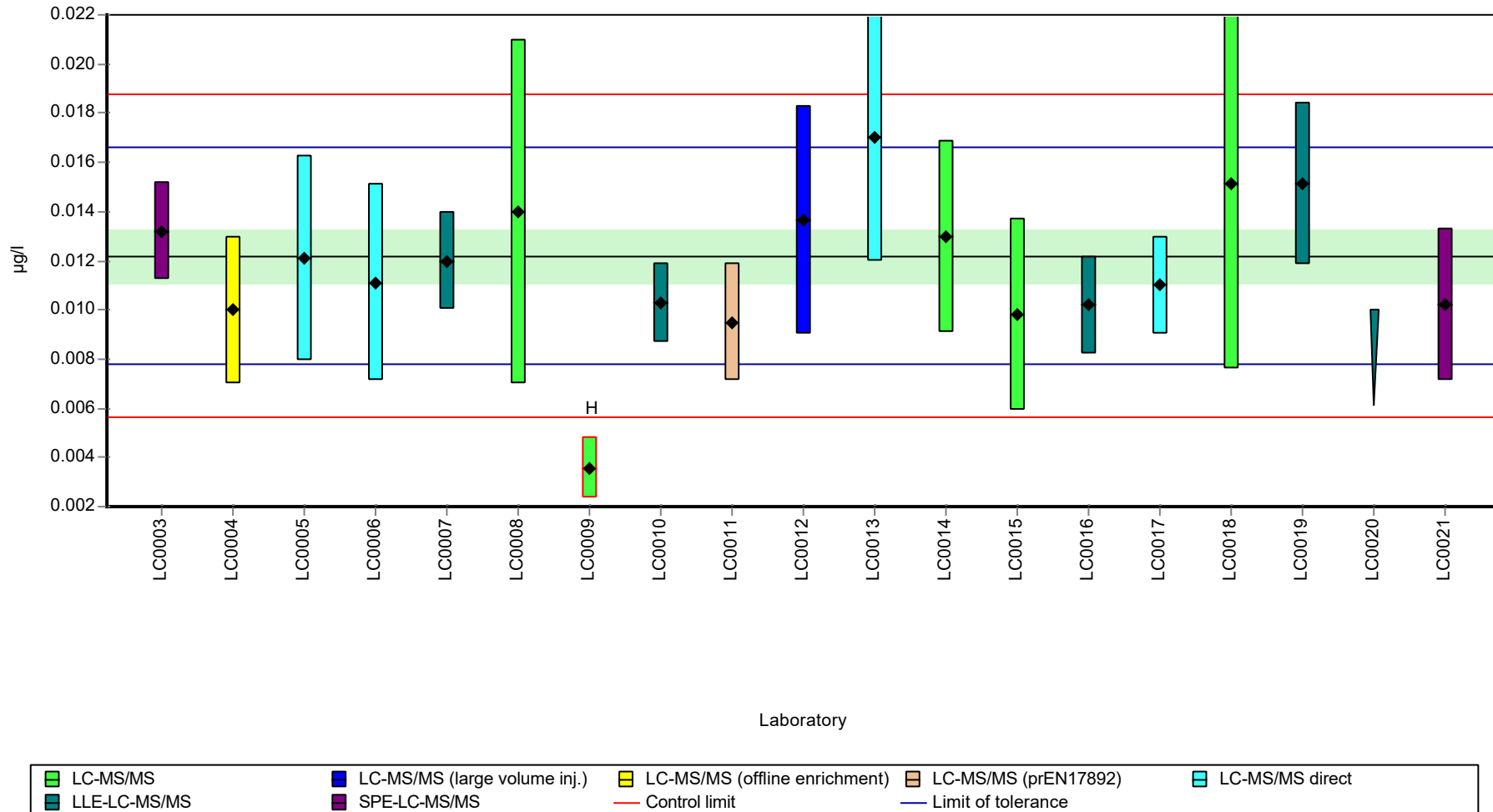
	all results	without outliers	Unit
Mean ± CI (99%)	0.0117 ± 0.0021	0.0122 ± 0.00162	µg/l
Minimum	0.00357	0.0095	µg/l
Maximum	0.017	0.017	µg/l
Standard deviation	0.00296	0.00222	µg/l
rel. standard deviation	25.3	18.2 %	
n	18	17	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

Graphical presentation of results

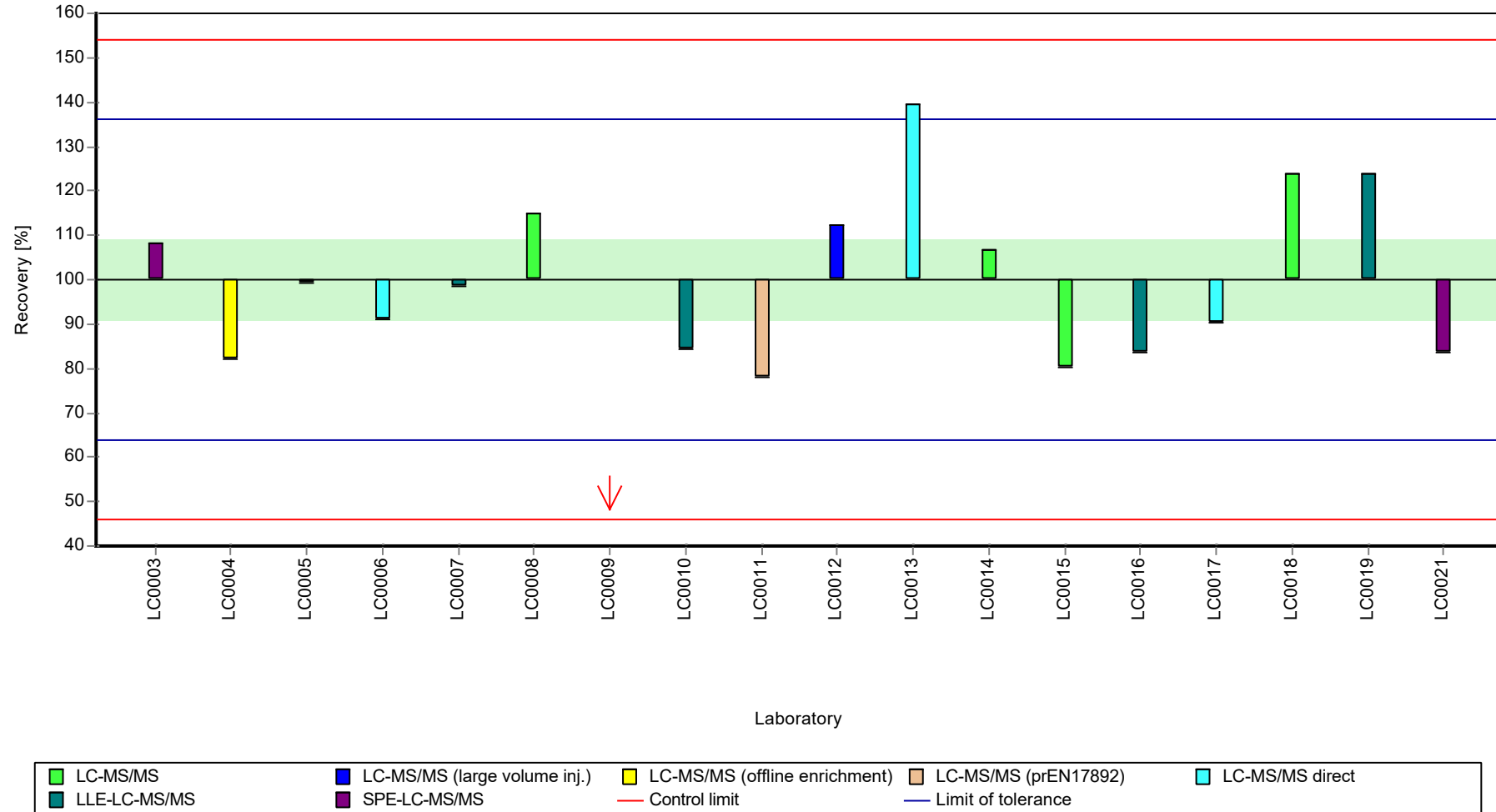
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

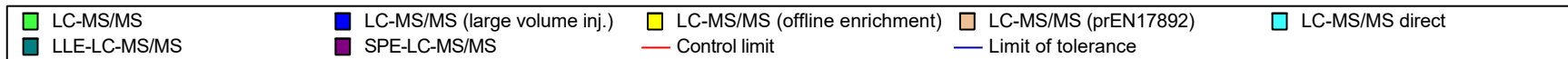
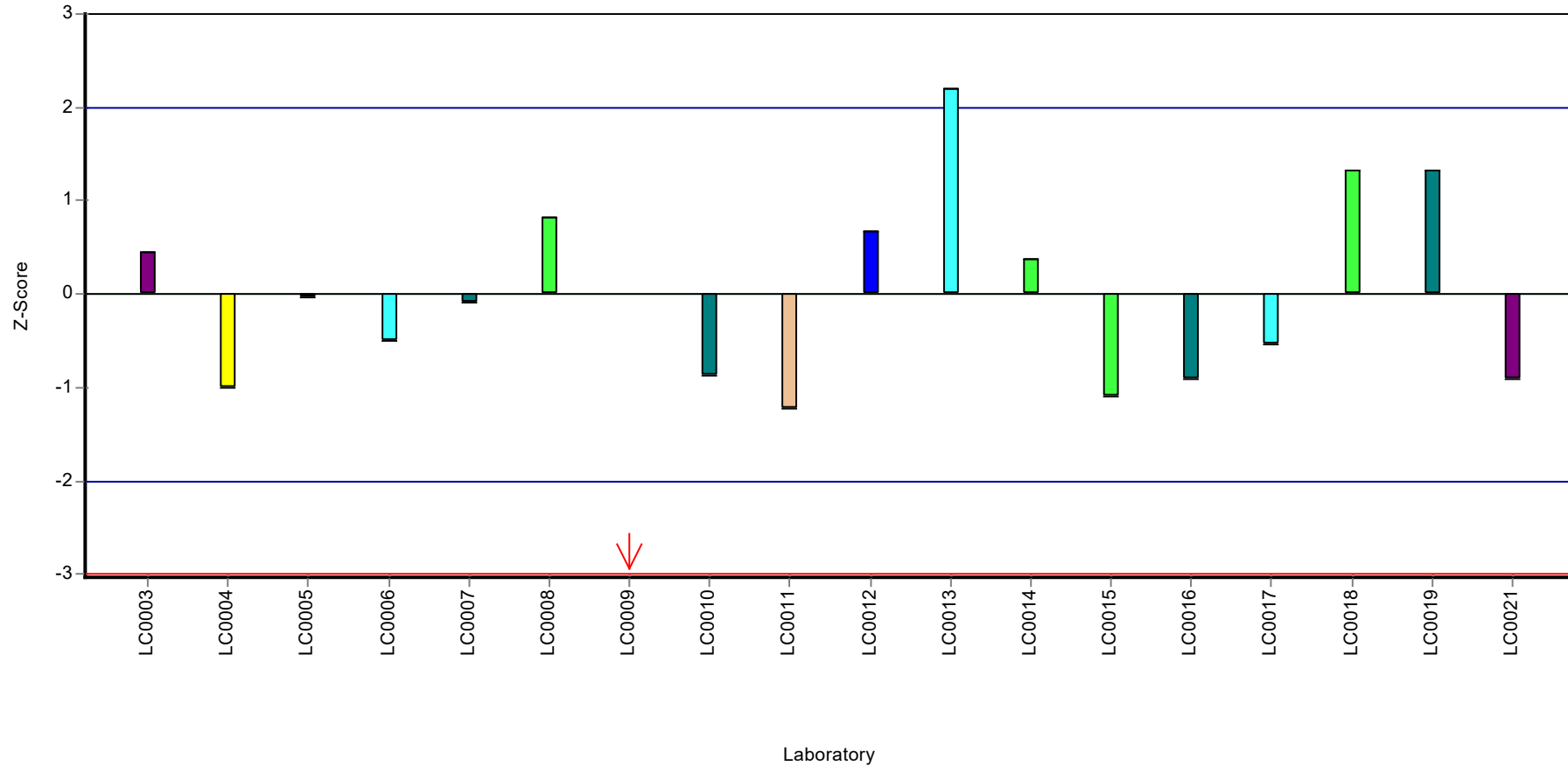
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

## Parameter oriented report

### PF01 B

#### Perfluoroundecanoic acid (PFUnDA) - PF11C

Unit	µg/l
Assigned value ± U (k=2)	0.0538 ± 0.00561
Criterion	0.0118 (22 %)
Minimum - Maximum	0.0228 - 0.073
Control test value ± U (k=2)	0.0484 ± 0.0194

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0584	0.0088	109	0.39	
LC0004	0.051	0.015	94.9	-0.23	
LC0005	0.0623	0.0218	116	0.72	
LC0006	0.0523	0.01885	97.3	-0.12	
LC0007	0.06	0.01	112	0.53	
LC0008	0.016	0.01	29.8	-3.19	H
LC0009	0.0228	0.00798	42.4	-2.62	
LC0010	0.0444	0.0074	82.6	-0.79	
LC0011	0.0488	0.0122	90.8	-0.42	
LC0012	0.05186	0.01763	96.5	-0.16	
LC0013	0.073	0.022	136	1.63	
LC0014	0.0573	0.0172	107	0.3	
LC0015	0.0519	0.0208	96.5	-0.16	
LC0016	0.0472	0.007	87.8	-0.55	
LC0017	0.06	0.012	112	0.53	
LC0018	0.0677	0.0339	126	1.18	
LC0019	0.0707	0.0156	131	1.43	
LC0020	0.039	0.012	72.5	-1.25	
LC0021	0.0491	0.0147	91.3	-0.39	

#### Characteristics of parameter

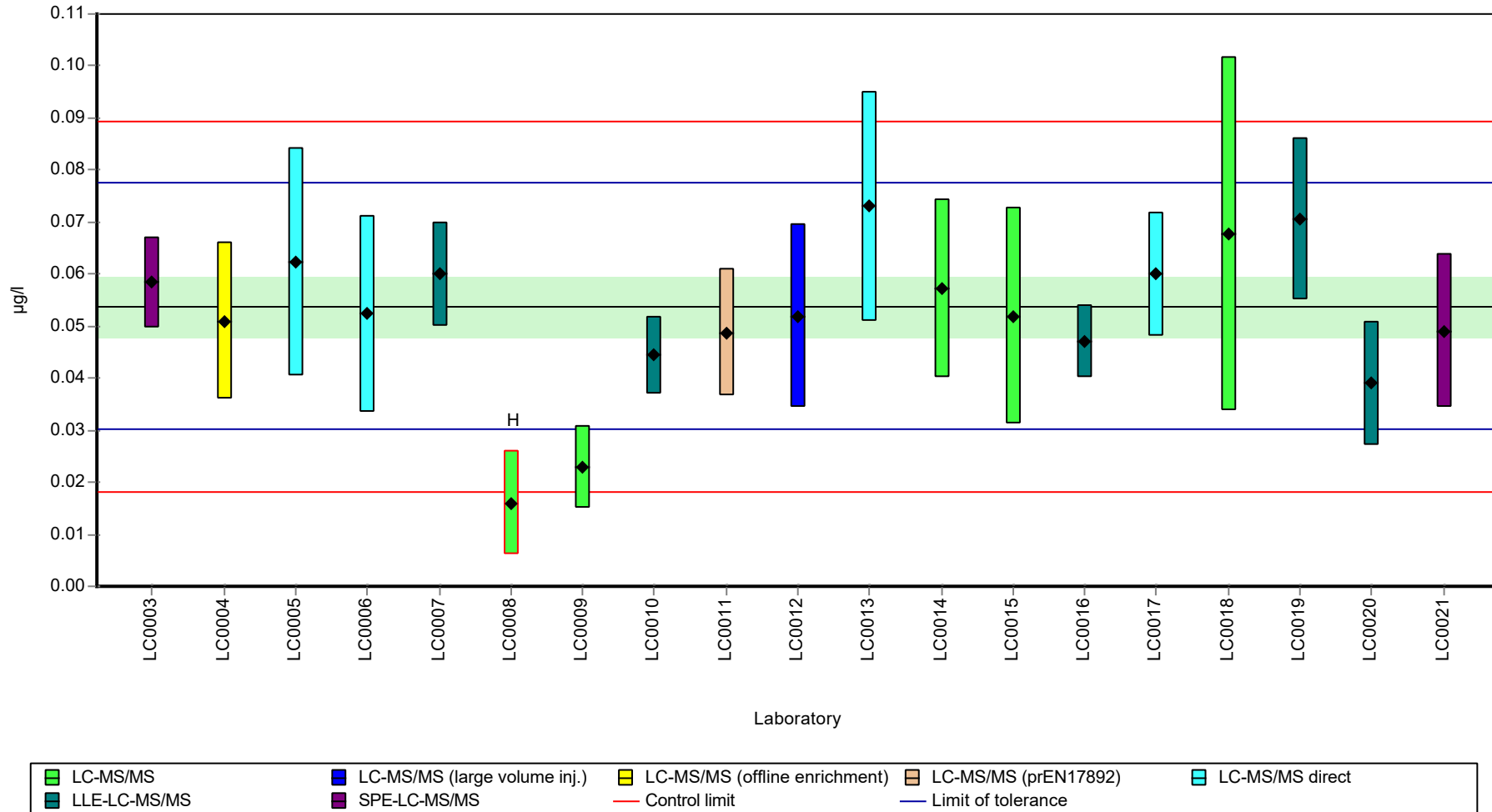
	all results	without outliers	Unit
Mean ± CI (99%)	0.0518 ± 0.00994	0.0538 ± 0.00841	µg/l
Minimum	0.016	0.0228	µg/l
Maximum	0.073	0.073	µg/l
Standard deviation	0.0144	0.0119	µg/l
rel. standard deviation	27.9	22.1	%
n	19	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

Graphical presentation of results

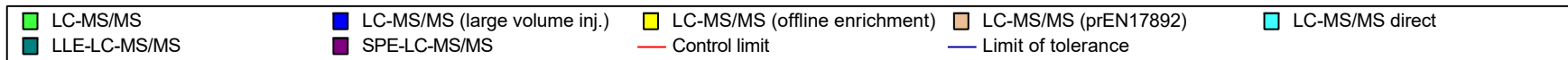
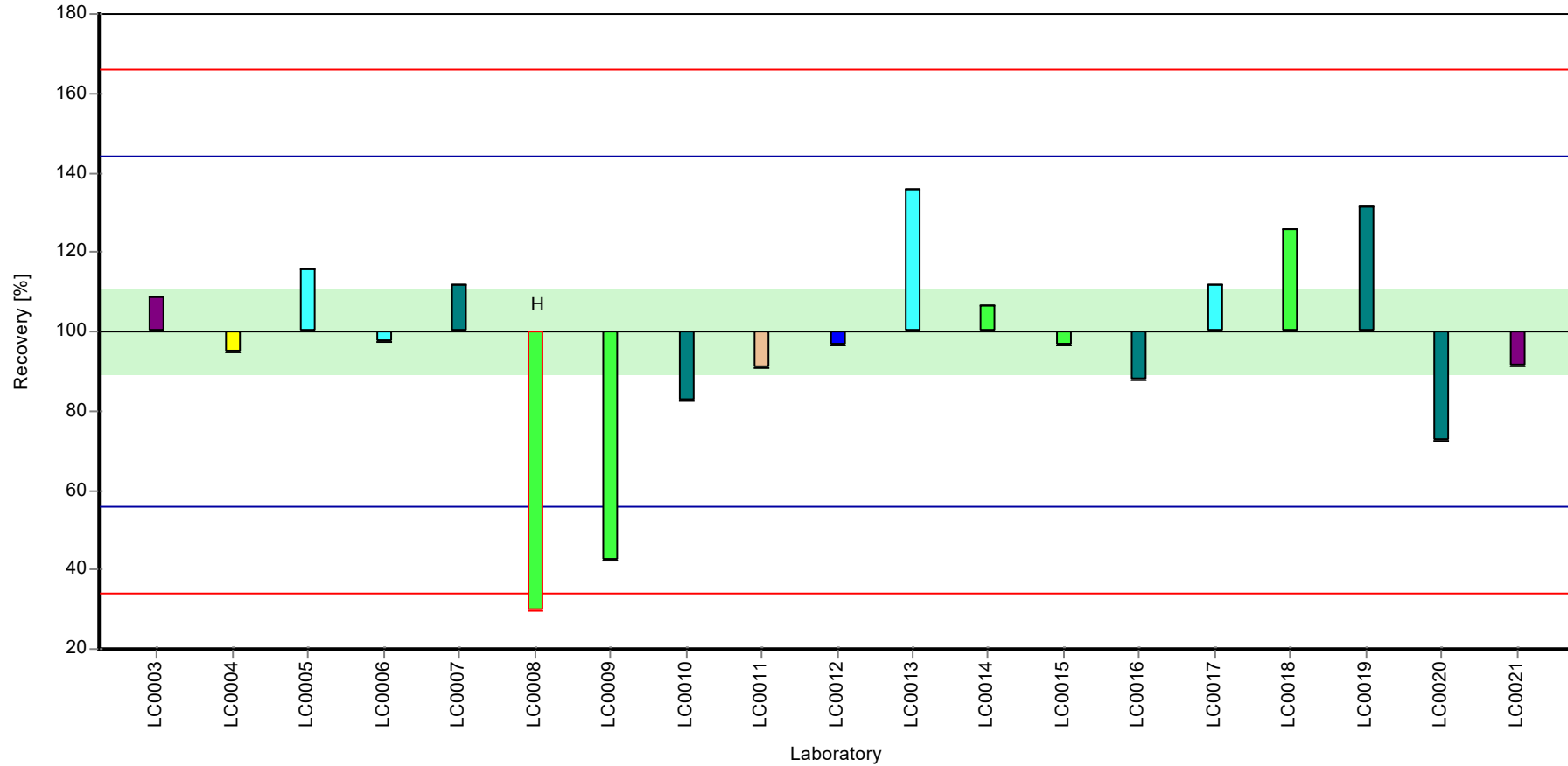
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

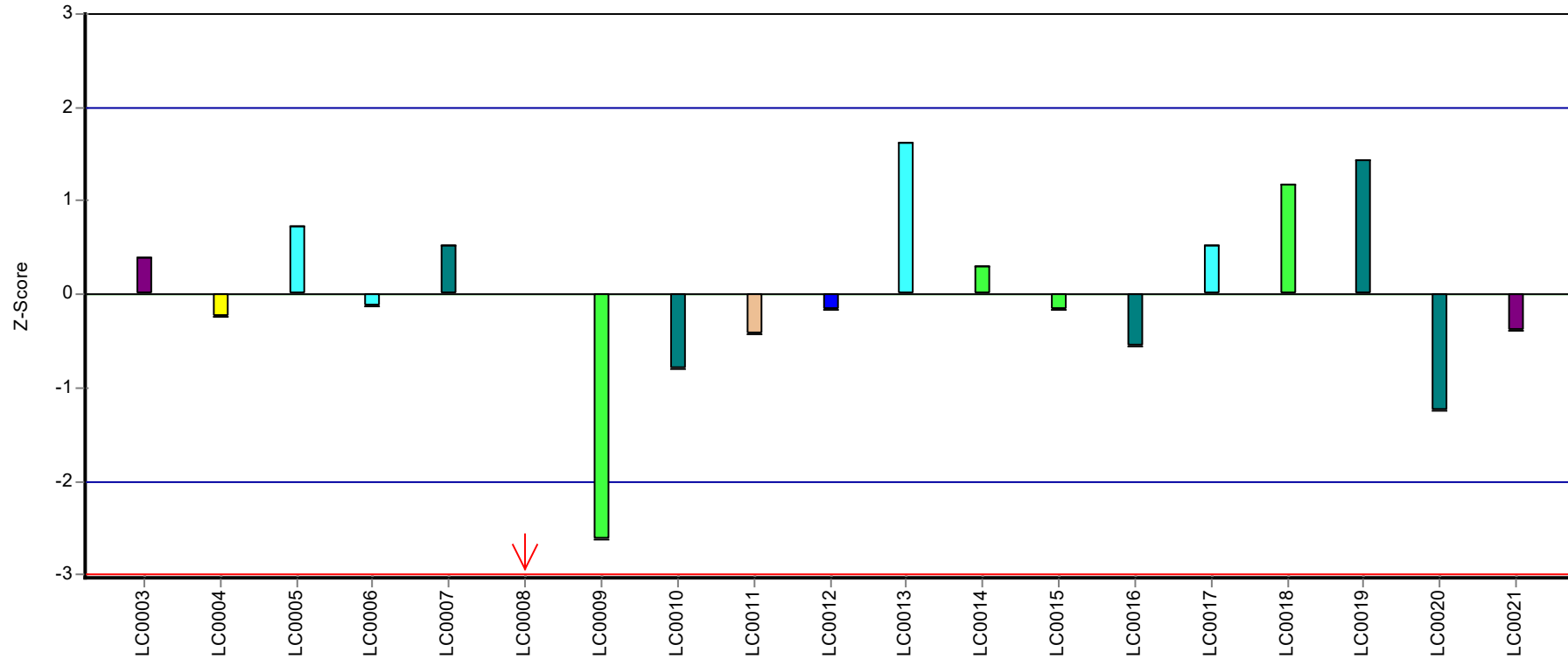
Recovery rate



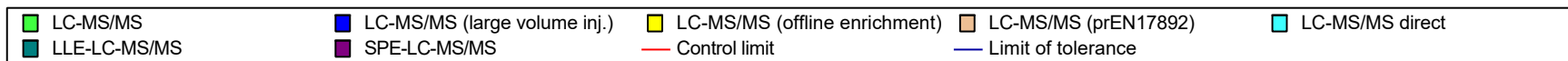
Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecanoic acid (PFUnDA) - PF11C

Z-score



Laboratory





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

## Parameter oriented report

### PF01 A

#### Perfluorododecanoic acid (PFDoDA) - PF12C

Unit	µg/l
Assigned value ± U (k=2)	0.0127 ± 0.00122
Criterion	0.00241 (19 %)
Minimum - Maximum	0.0079 - 0.0171
Control test value ± U (k=2)	0.0104 ± 0.00418

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0171	0.0026	135	1.84	
LC0004	0.012	0.003	94.8	-0.28	
LC0005	0.0114	0.0045	90	-0.52	
LC0006	0.0104	0.00375	82.1	-0.94	
LC0007	0.012	0.002	94.8	-0.28	
LC0008	0.013	0.007	103	0.14	
LC0009	0.00413	0.00145	32.6	-3.55	H
LC0010	0.0128	0.003	101	0.06	
LC0011	0.0079	0.002	62.4	-1.98	
LC0012	0.0138	0.00621	109	0.47	
LC0013	0.027	0.008	213	5.96	H
LC0014	0.0165	0.00494	130	1.6	
LC0015	0.0114	0.0046	90	-0.52	
LC0016	0.0111	0.002	87.7	-0.65	
LC0017	0.011	0.002	86.9	-0.69	
LC0018	0.0136	0.0068	107	0.39	
LC0019	0.0165	0.0036	130	1.6	
LC0020	< 0.01 (LOQ)	-	-	-	
LC0021	0.0121	0.0036	95.6	-0.23	

#### Characteristics of parameter

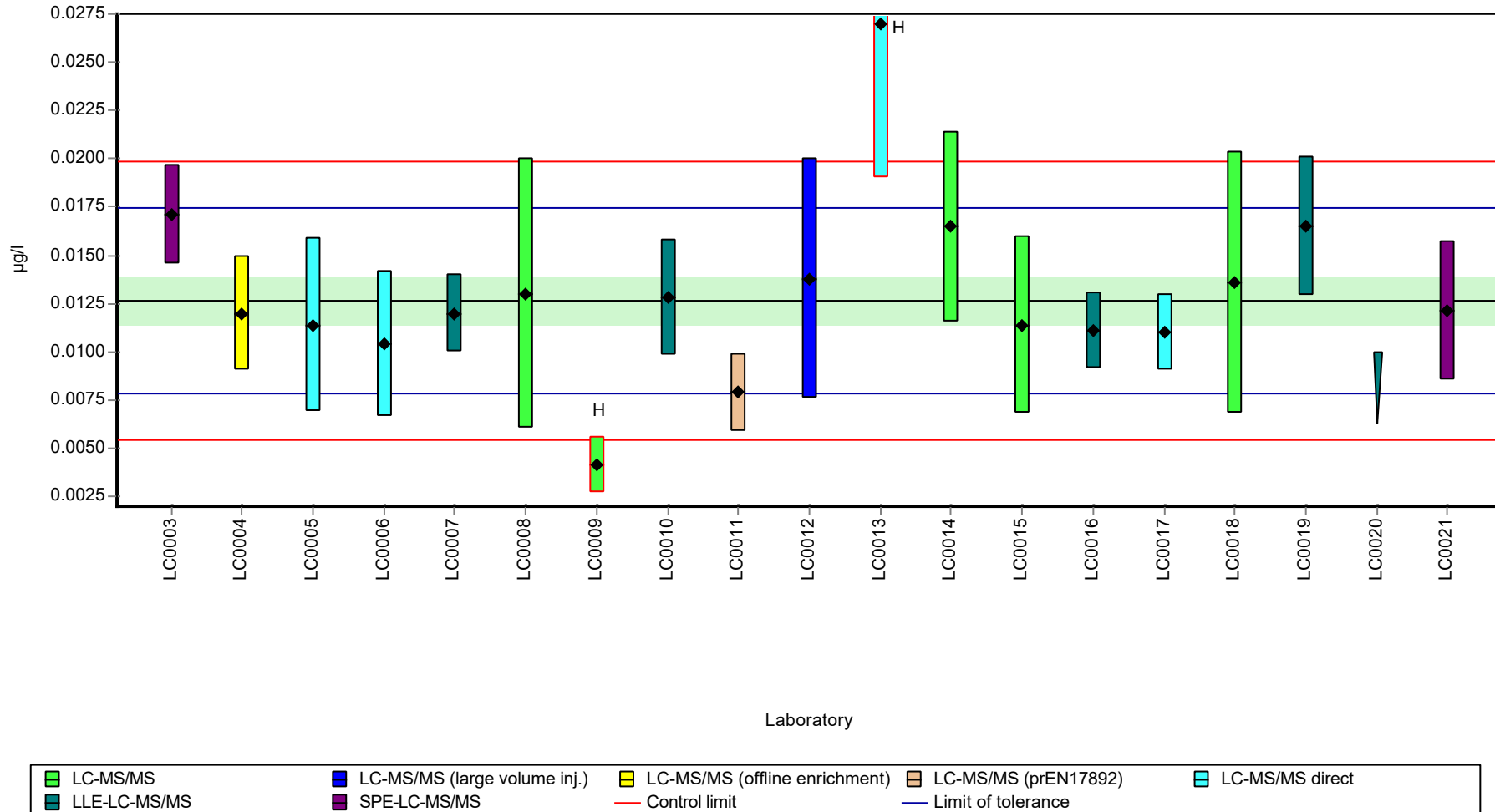
	all results	without outliers	Unit
Mean ± CI (99%)	0.013 ± 0.00328	0.0127 ± 0.00183	µg/l
Minimum	0.00413	0.0079	µg/l
Maximum	0.027	0.0171	µg/l
Standard deviation	0.00464	0.00243	µg/l
rel. standard deviation	35.7	19.2 %	
n	18	16	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

Graphical presentation of results

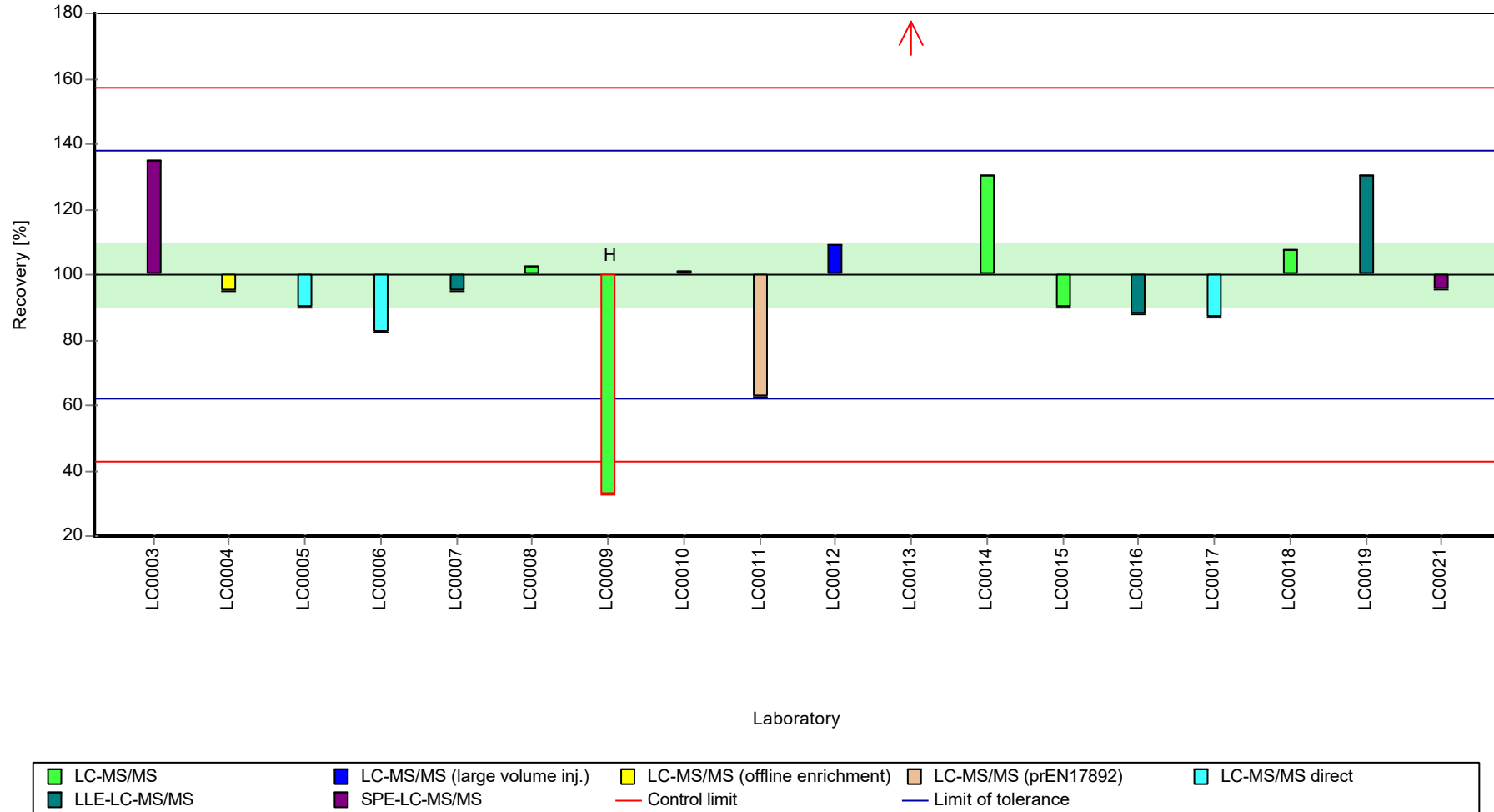
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

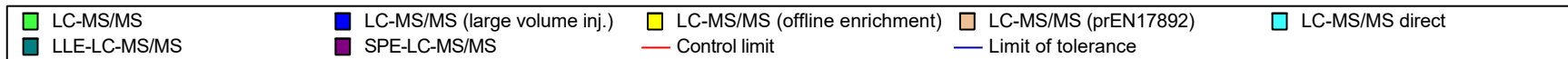
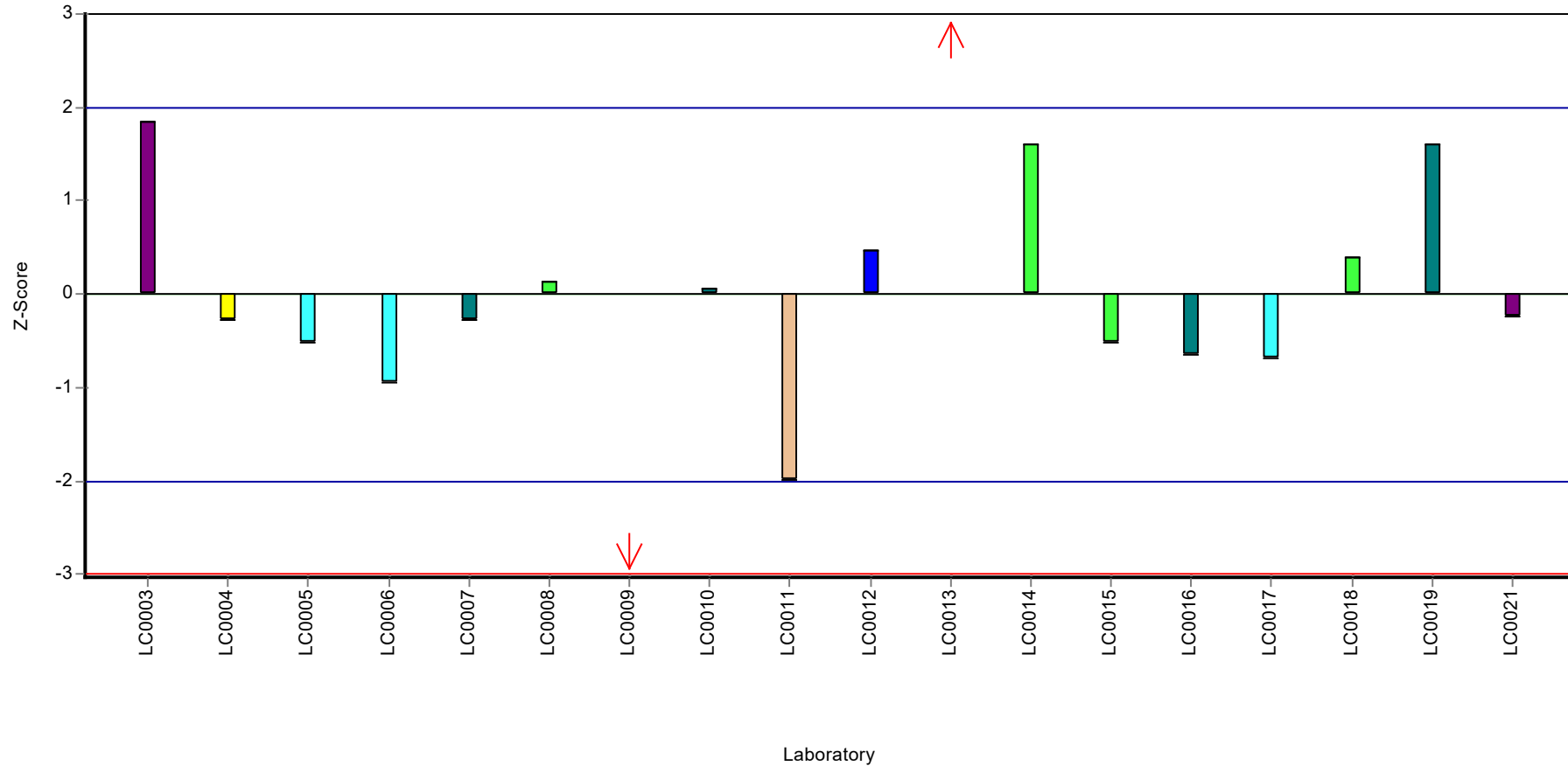
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

## Parameter oriented report

### PF01 B

#### Perfluorododecanoic acid (PFDoDA) - PF12C

Unit	µg/l
Assigned value ± U (k=2)	0.02 ± 0.00255
Criterion	0.0054 (27 %)
Minimum - Maximum	0.00888 - 0.0273
Control test value ± U (k=2)	0.0161 ± 0.00646

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0211	0.0032	105	0.2	
LC0004	0.022	0.007	110	0.37	
LC0005	0.0244	0.0097	122	0.81	
LC0006	0.0256	0.00921	128	1.03	
LC0007	0.021	0.004	105	0.18	
LC0008	0.01	0.006	50	-1.85	
LC0009	0.00888	0.00311	44.4	-2.06	
LC0010	0.0227	0.0066	113	0.5	
LC0011	0.014	0.0035	69.9	-1.11	
LC0012	0.0176	0.00792	87.9	-0.45	
LC0013	0.027	0.008	135	1.29	
LC0014	0.0229	0.00686	114	0.53	
LC0015	0.0227	0.0091	113	0.5	
LC0016	0.0193	0.003	96.4	-0.13	
LC0017	0.02	0.004	99.9	0.00	
LC0018	-	-	-	-	
LC0019	0.0273	0.006	136	1.35	
LC0020	0.013	0.004	64.9	-1.3	
LC0021	0.0208	0.0062	104	0.15	

#### Characteristics of parameter

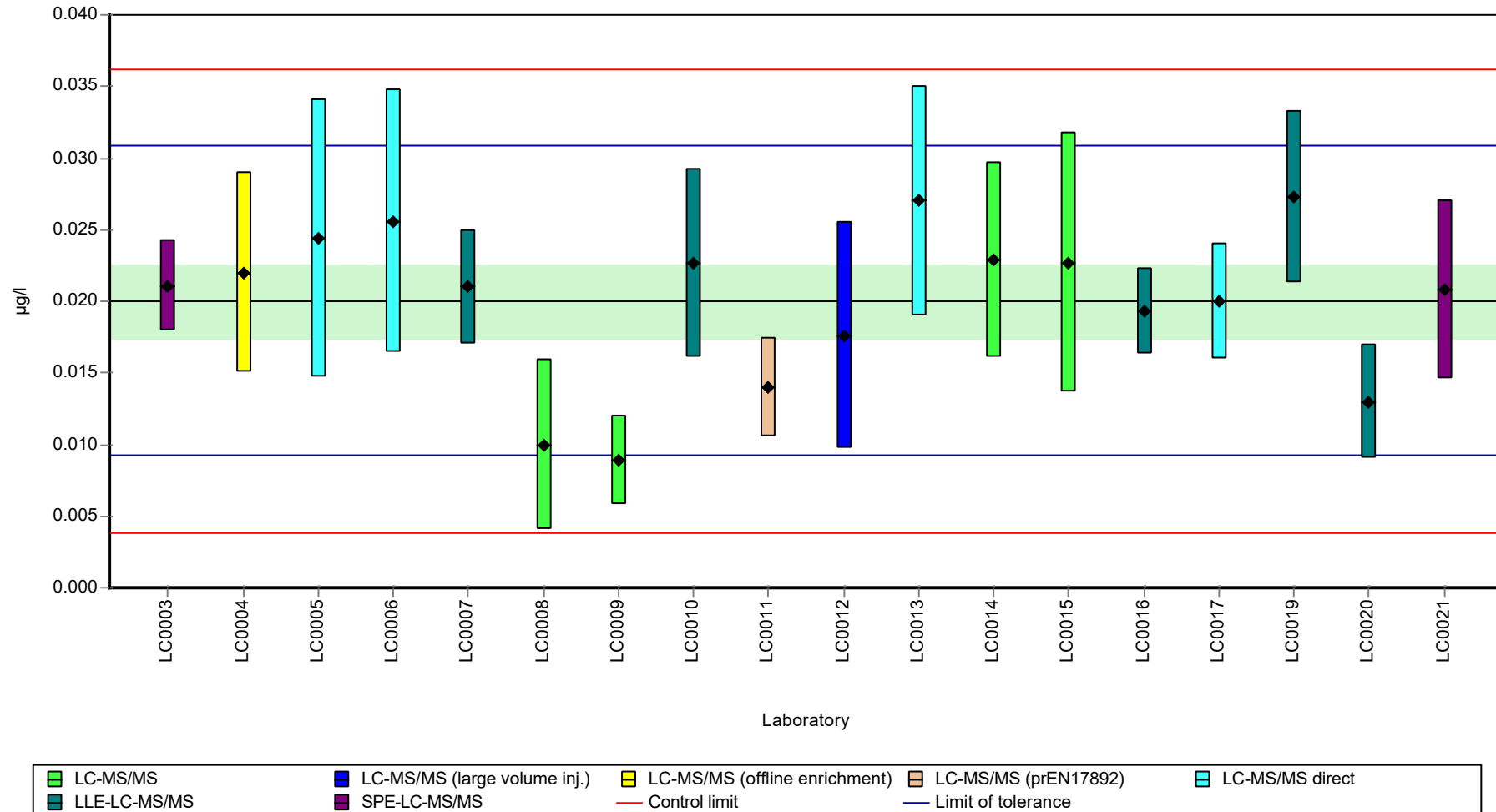
	all results	without outliers	Unit
Mean ± CI (99%)	0.02 ± 0.00383	0.02 ± 0.00383	µg/l
Minimum	0.00888	0.00888	µg/l
Maximum	0.0273	0.0273	µg/l
Standard deviation	0.00541	0.00541	µg/l
rel. standard deviation	27	27	%
n	18	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

Graphical presentation of results

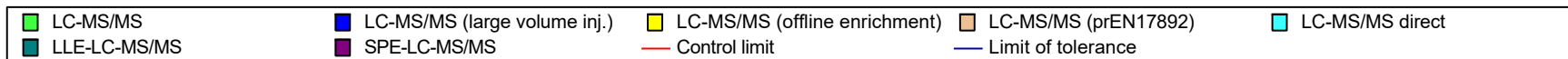
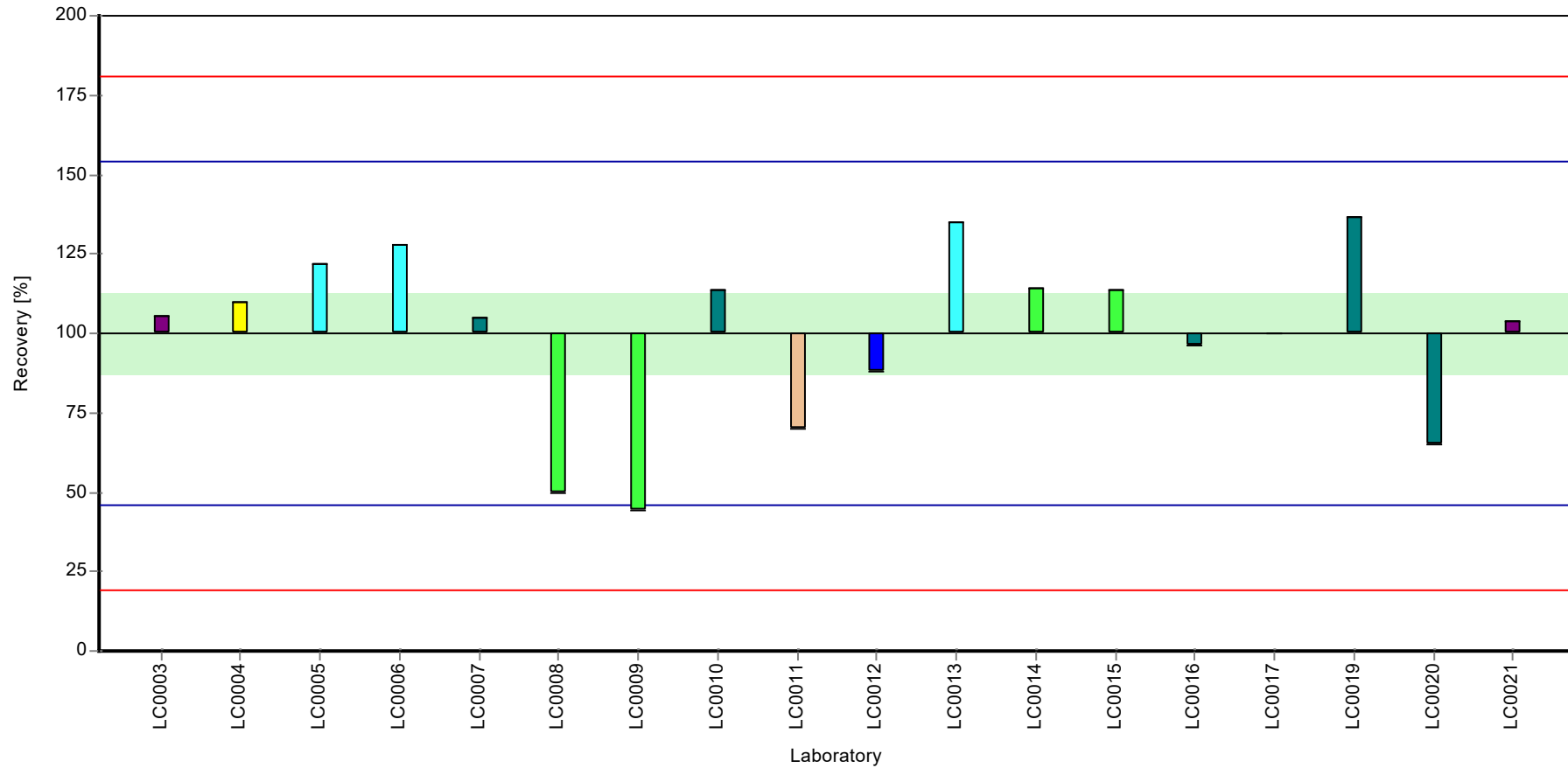
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

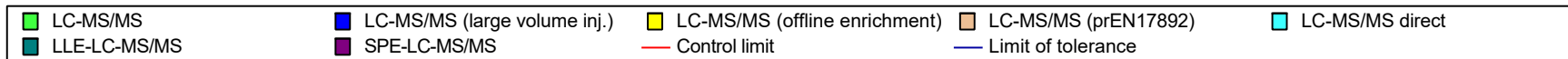
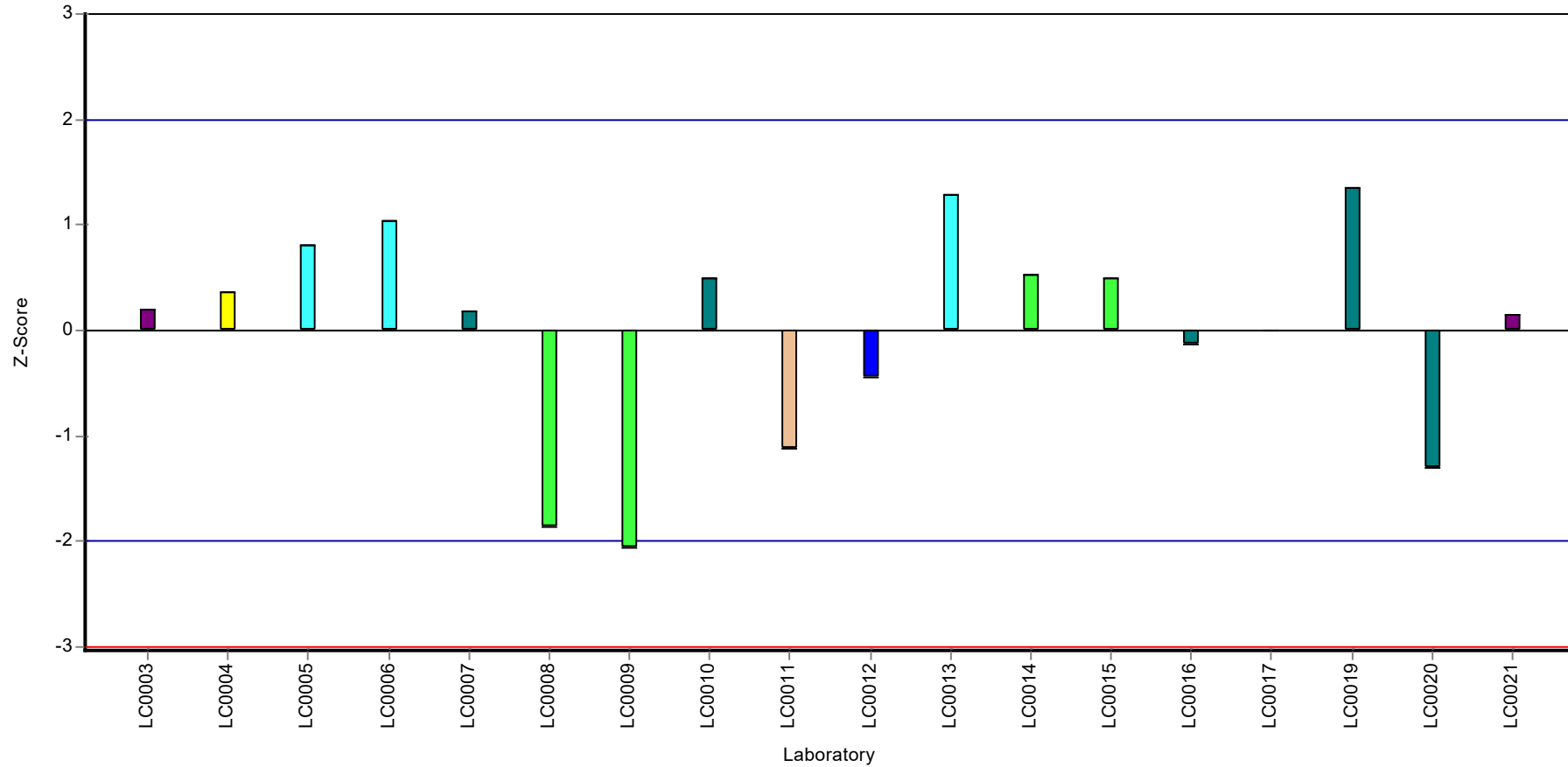
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecanoic acid (PFDoDA) - PF12C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecanoic acid (PFTrDA) - PF13C

## Parameter oriented report

### PF01 A

#### Perfluorotridecanoic acid (PFTrDA) - PF13C

Unit	µg/l
Assigned value ± U (k=2)	0.00528 ± 0.000706
Criterion	0.0018 (34 %)
Minimum - Maximum	0.00243 - 0.0072
Control test value ± U (k=2)	0.00236 ± 0.0013

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.00928	0.0014	176	2.23	H
LC0004	0.005	0.002	94.7	-0.16	
LC0005	0.0049	0.0022	92.8	-0.21	
LC0006	0.0041	0.00147	77.6	-0.66	
LC0007	0.006	0.001	114	0.4	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	0.00243	0.00085	46	-1.59	
LC0010	0.0101	0.0046	191	2.68	H
LC0011	0.003	0.0008	56.8	-1.27	
LC0012	0.0051	0.00076	96.5	-0.1	
LC0013	0.011	0.003	208	3.18	H
LC0014	0.0053	0.00159	100	0.01	
LC0015	< 0.0012 (LOQ)	-	-	-	
LC0016	0.00429	0.001	81.2	-0.55	
LC0017	0.005	0.001	94.7	-0.16	
LC0018	-	-	-	-	
LC0019	0.0072	0.0015	136	1.07	
LC0020	< 0.01 (LOQ)	-	-	-	
LC0021	0.00567	0.0017	107	0.22	

#### Characteristics of parameter

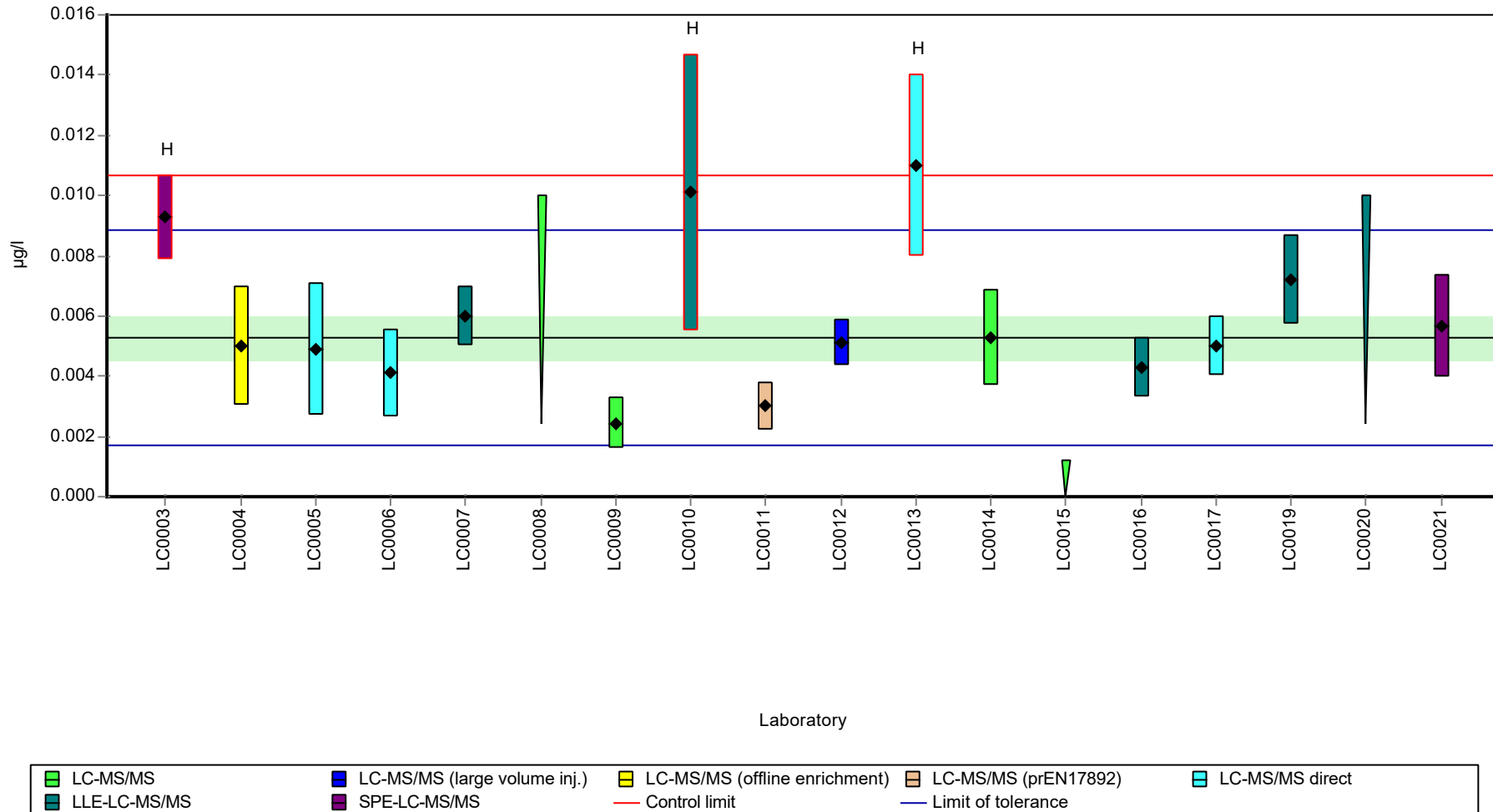
	all results	without outliers	Unit
Mean ± CI (99%)	0.00589 ± 0.00193	0.00483 ± 0.00111	µg/l
Minimum	0.00243	0.00243	µg/l
Maximum	0.011	0.0072	µg/l
Standard deviation	0.00249	0.00128	µg/l
rel. standard deviation	42.2	26.5 %	
n	15	12	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecanoic acid (PFTrDA) - PF13C

Graphical presentation of results

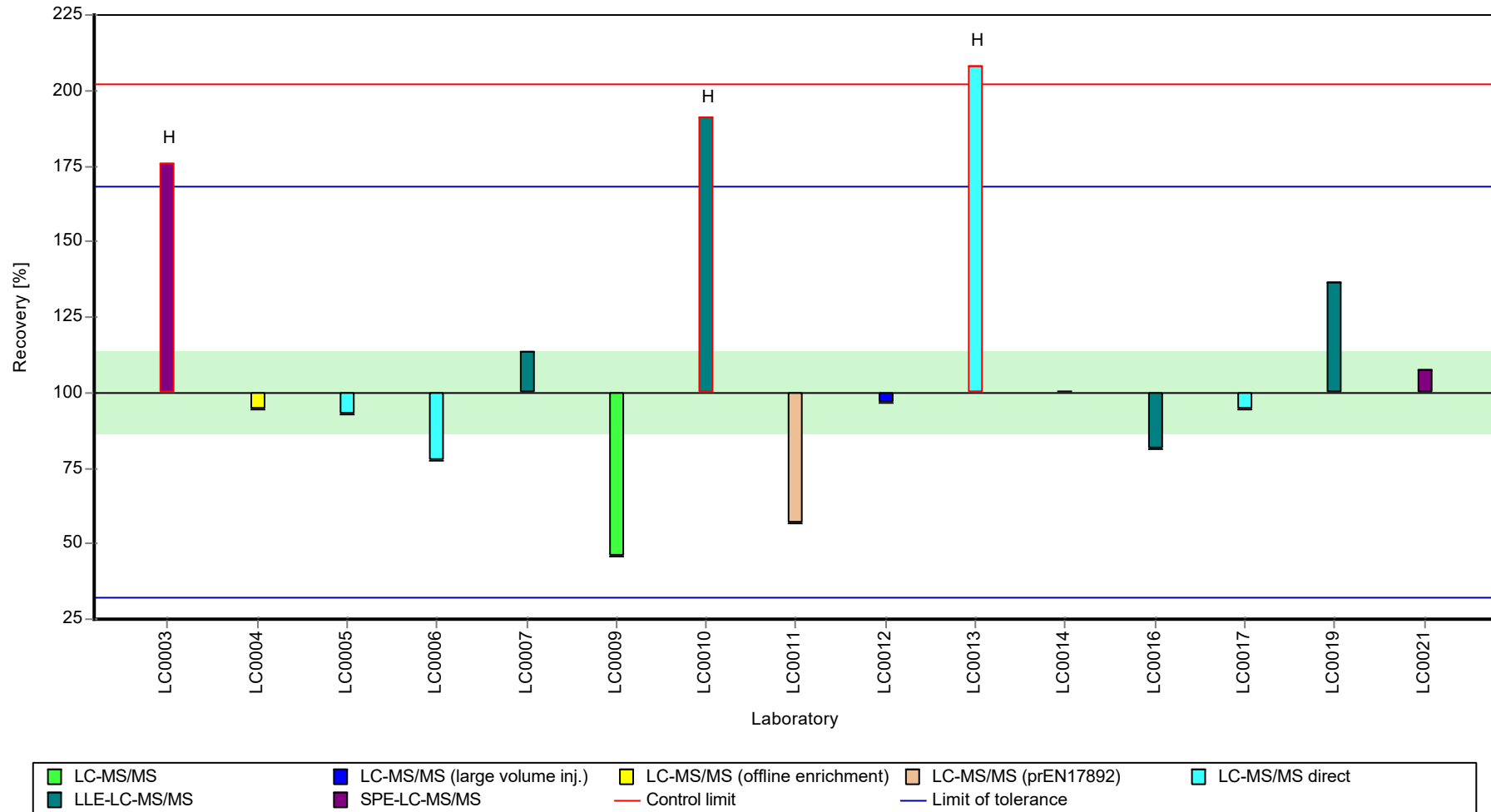
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecanoic acid (PFTTrDA) - PF13C

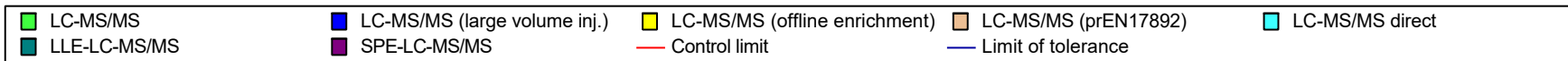
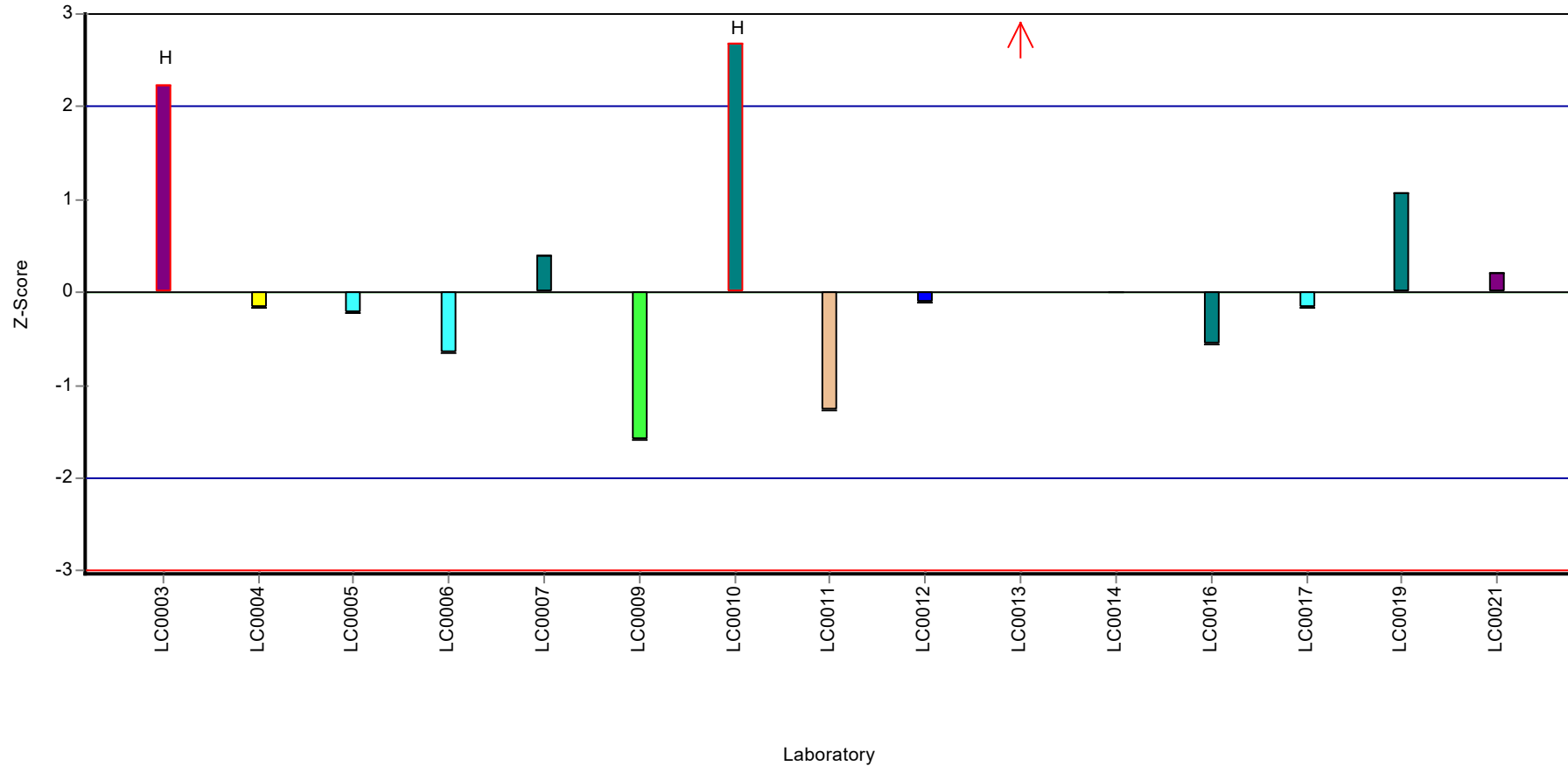
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecanoic acid (PFTTrDA) - PF13C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecanoic acid (PFTrDA) - PF13C

## Parameter oriented report

### PF01 B

#### Perfluorotridecanoic acid (PFTrDA) - PF13C

Unit	µg/l
Assigned value ± U (k=2)	0.0114 ± 0.00116
Criterion	0.00262 (23 %)
Minimum - Maximum	0.00582 - 0.014
Control test value ± U (k=2)	0.00566 ± 0.00311

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0122	0.0018	107	0.31	
LC0004	0.021	0.006	184	3.66	H
LC0005	0.0111	0.005	97.4	-0.11	
LC0006	0.0269	0.0097	236	5.91	H
LC0007	0.014	0.003	123	0.99	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	0.00582	0.00204	51.1	-2.13	
LC0010	0.0243	0.0092	213	4.92	H
LC0011	0.0071	0.0018	62.3	-1.64	
LC0012	0.00789	0.00118	69.2	-1.34	
LC0013	0.011	0.003	96.5	-0.15	
LC0014	0.0125	0.00375	110	0.42	
LC0015	< 0.0012 (LOQ)	-	-	-	FN
LC0016	0.0111	0.002	97.4	-0.11	
LC0017	0.012	0.002	105	0.23	
LC0018	-	-	-	-	
LC0019	0.013	0.0027	114	0.61	
LC0020	< 0.01 (LOQ)	-	-	-	
LC0021	0.0103	0.0031	90.4	-0.42	

#### Characteristics of parameter

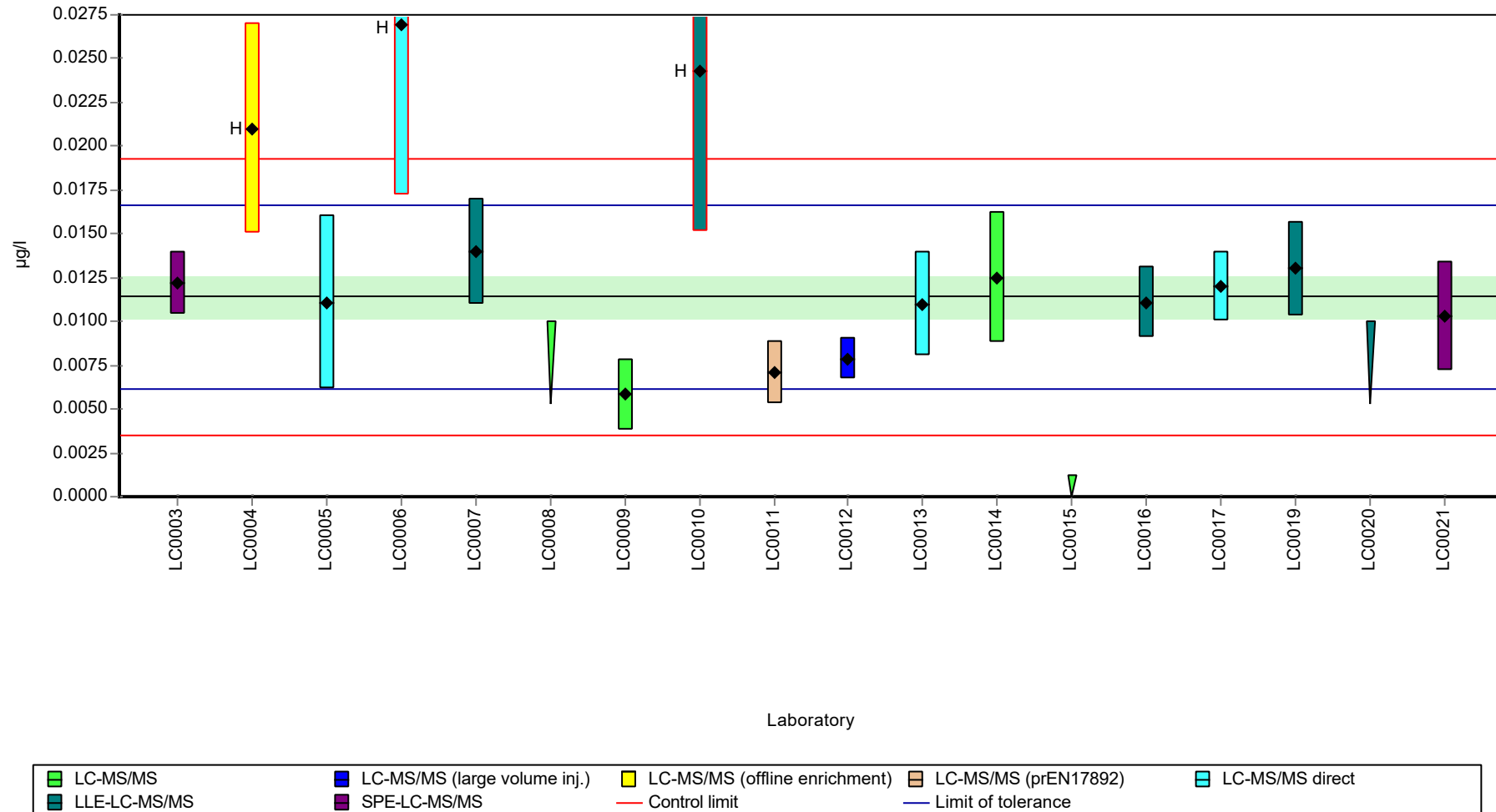
	all results	without outliers	Unit
Mean ± CI (99%)	0.0133 ± 0.00471	0.0107 ± 0.00216	µg/l
Minimum	0.00582	0.00582	µg/l
Maximum	0.0269	0.014	µg/l
Standard deviation	0.00608	0.0025	µg/l
rel. standard deviation	45.5	23.4 %	
n	15	12	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01H

Sample: PF01B, Parameter: Perfluorotridecanoic acid (PFTTrDA) - PF13C

Graphical presentation of results

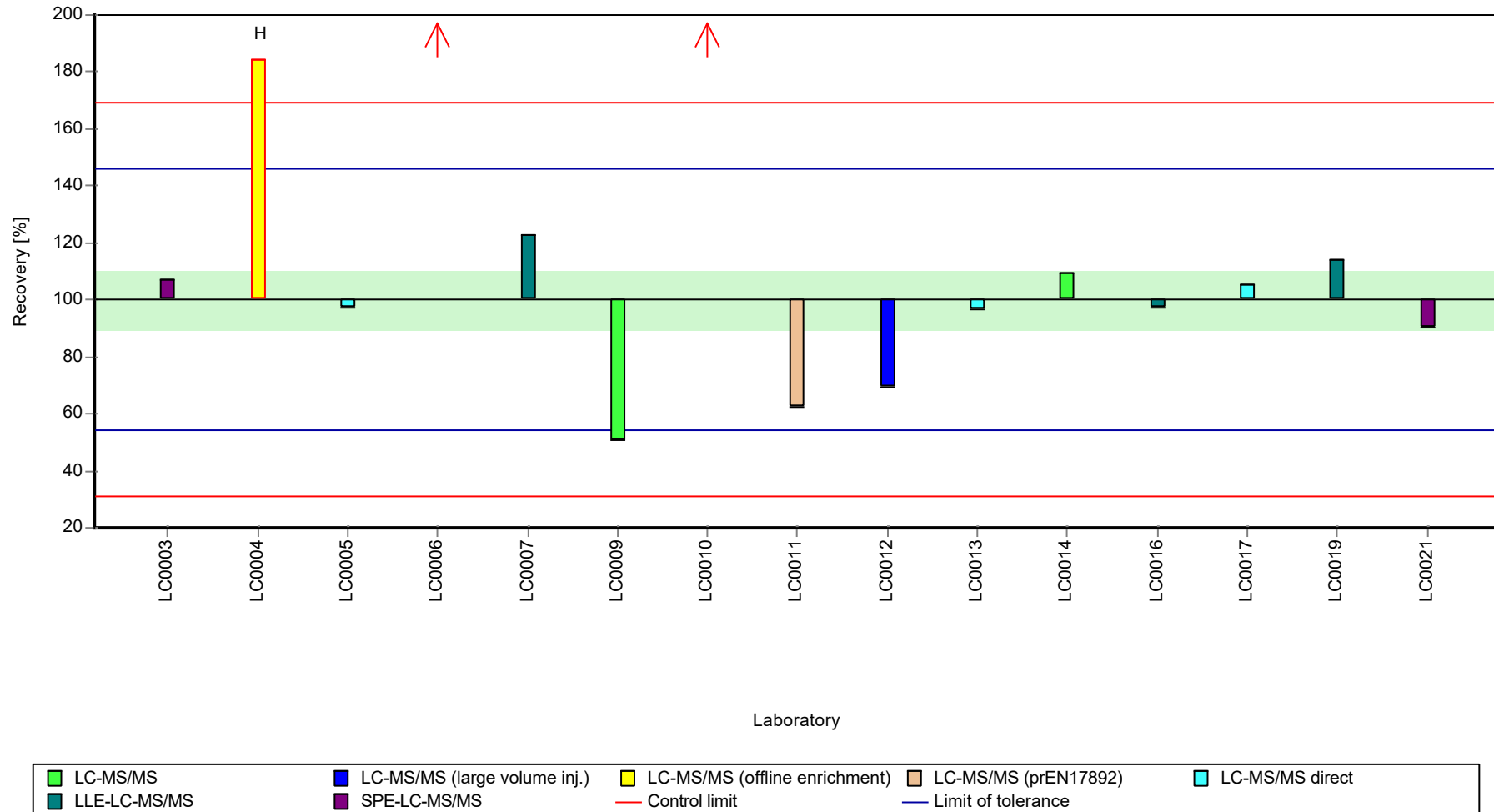
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecanoic acid (PFTTrDA) - PF13C

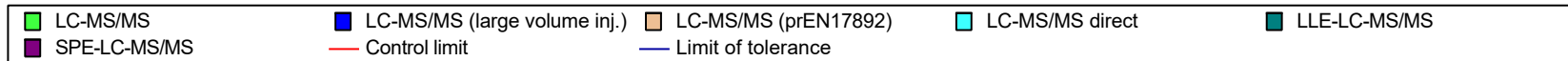
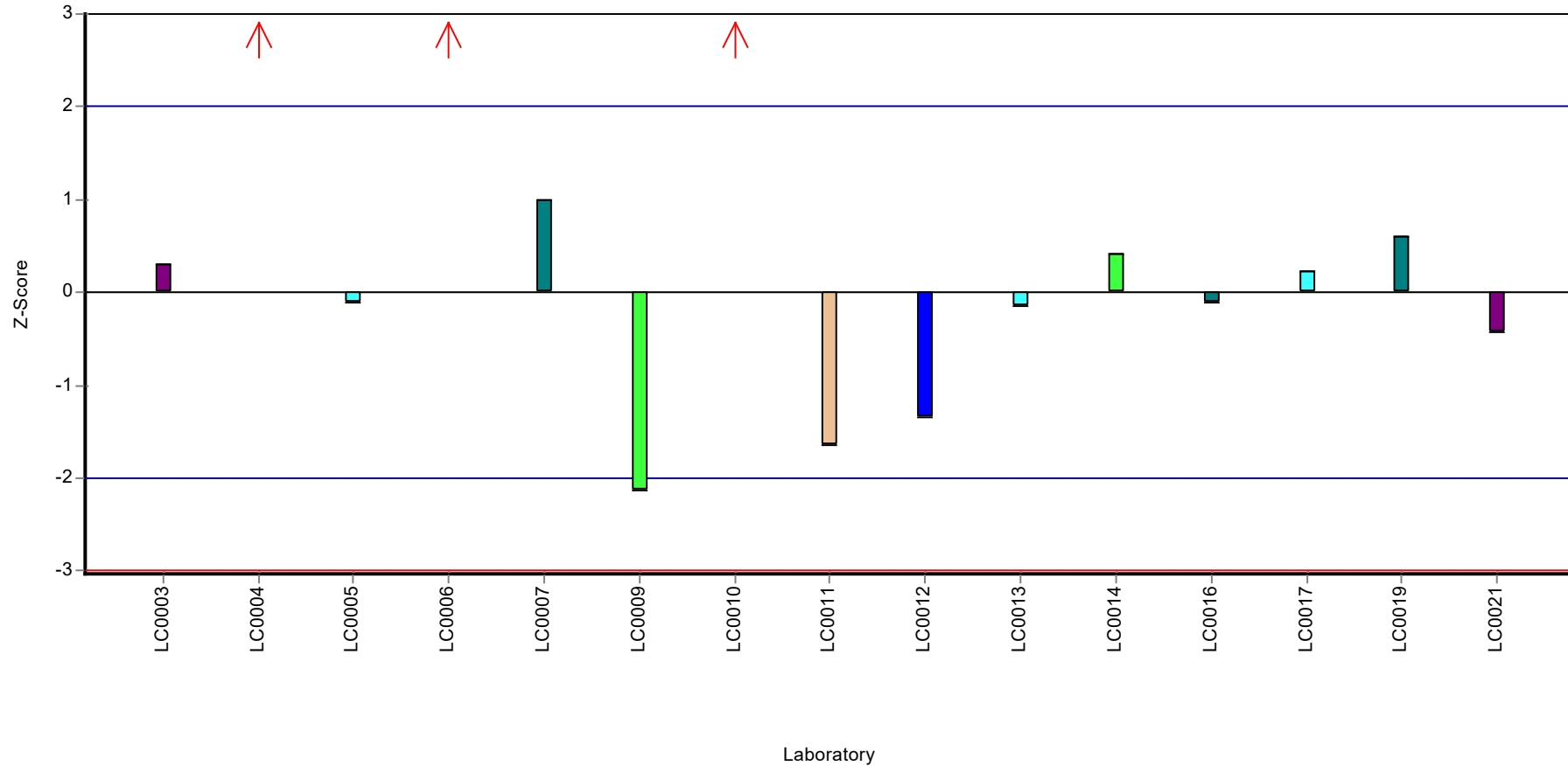
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecanoic acid (PFTTrDA) - PF13C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

## Parameter oriented report

### PF01 A

#### Perfluorotetradecanoic acid (PFTeDA) - PF14C

Unit	µg/l
Assigned value ± U (k=2)	0.00566 ± 0.00182
Criterion	0.00277 (49 %)
Minimum - Maximum	0.00224 - 0.00911
Control test value ± U (k=2)	0.0025 ± 0.00113

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.00911	0.0014	161	1.25	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0047	0.00168	83.1	-0.34	
LC0007	0.006	0.001	106	0.12	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	0.0122	0.0062	216	2.36	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	< 0.01 (LOQ)	-	-	-	
LC0015	0.00588	0.0024	104	0.08	
LC0016	0.00224	0.0006	39.6	-1.23	
LC0017	0.006	0.001	106	0.12	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	< 0.01 (LOQ)	-	-	-	

#### Characteristics of parameter

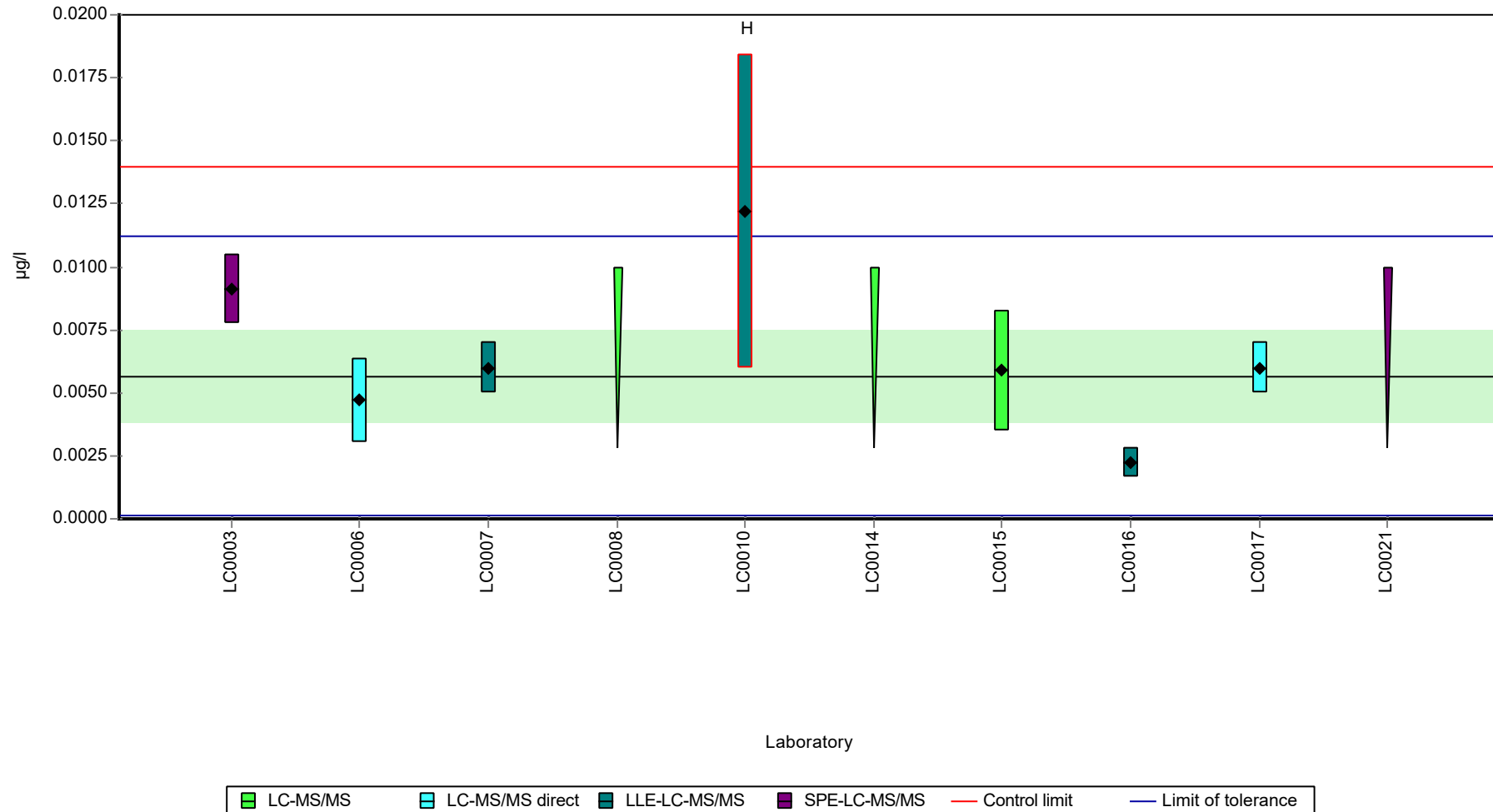
	all results	without outliers	Unit
Mean ± CI (99%)	0.00659 ± 0.00363	0.00566 ± 0.00273	µg/l
Minimum	0.00224	0.00224	µg/l
Maximum	0.0122	0.00911	µg/l
Standard deviation	0.0032	0.00223	µg/l
rel. standard deviation	48.6	39.4 %	
n	7	6	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

Graphical presentation of results

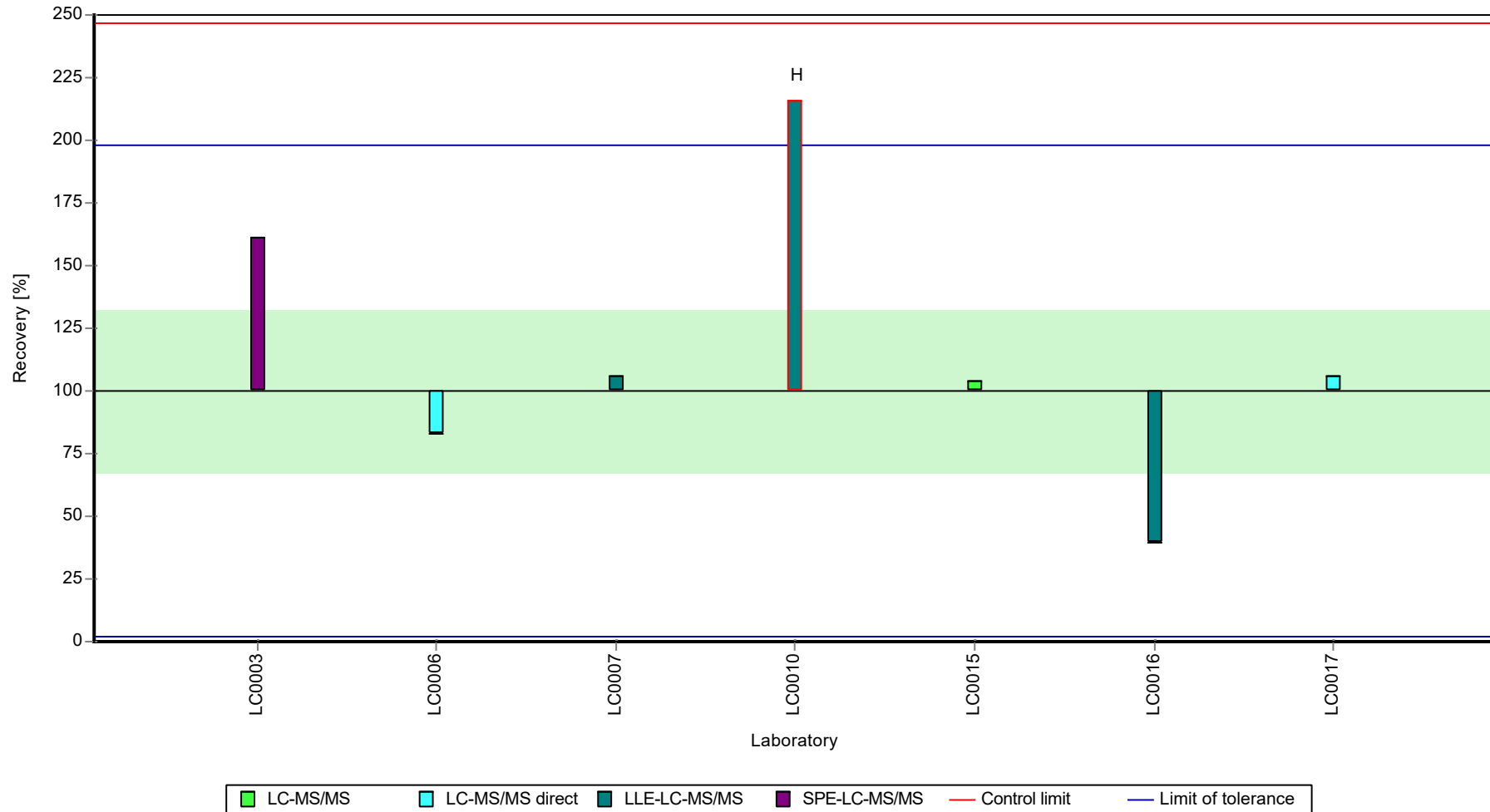
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

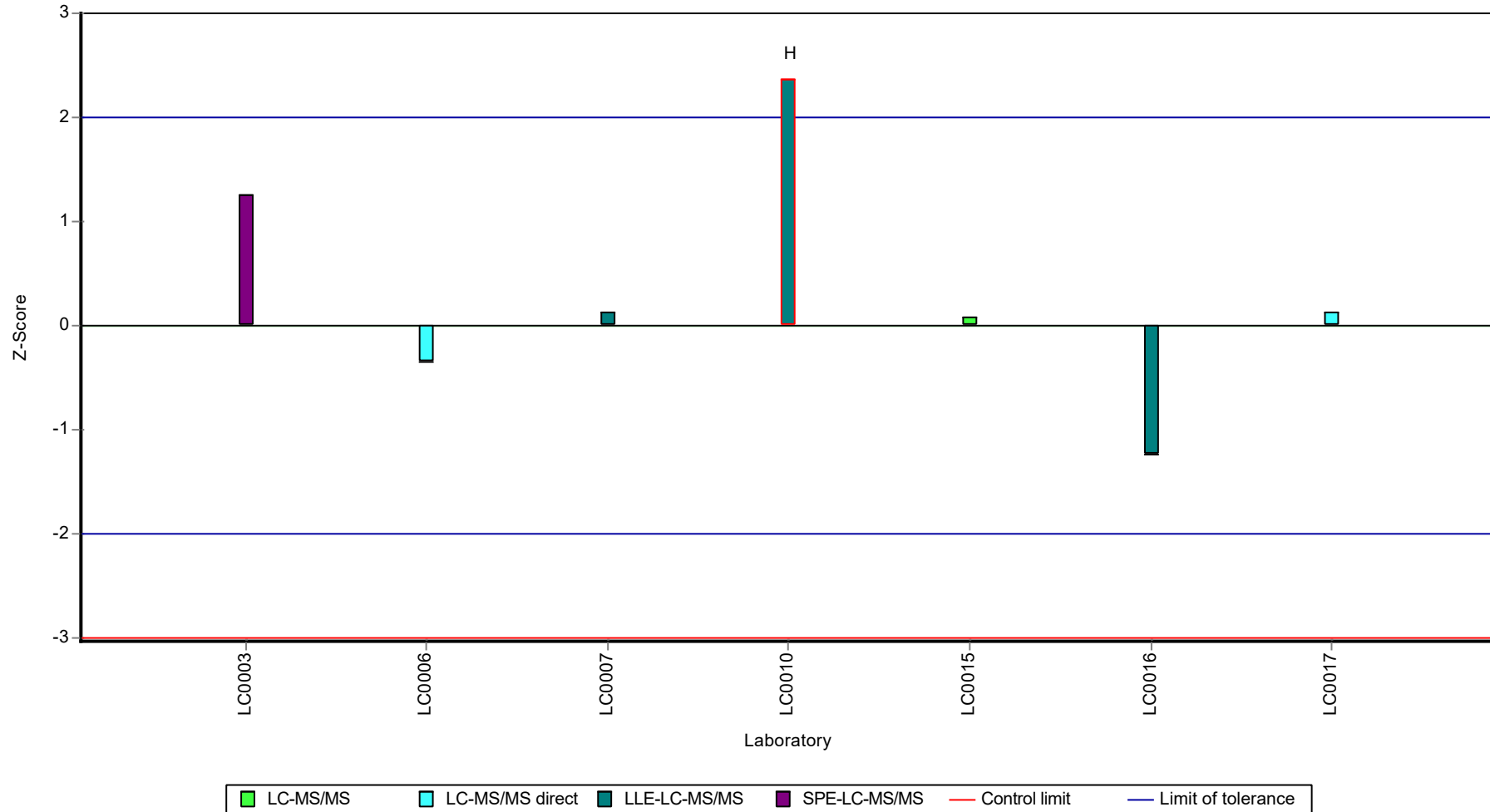
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

## Parameter oriented report

### PF01 B

#### Perfluorotetradecanoic acid (PFTeDA) - PF14C

Unit	µg/l
Assigned value ± U (k=2)	0.0128 ± 0.00278
Criterion	0.00588 (46 %)
Minimum - Maximum	0.00738 - 0.017
Control test value ± U (k=2)	0.00454 ± 0.00204

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0109	0.0016	85.3	-0.32	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.046	0.01657	360	5.65	H
LC0007	0.017	0.003	133	0.72	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	-	-	-	-	
LC0010	0.0294	0.0077	230	2.83	H
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.01	0.003	78.2	-0.47	
LC0015	0.0122	0.0049	95.5	-0.1	
LC0016	0.00738	0.001	57.7	-0.92	
LC0017	0.015	0.003	117	0.38	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0142	0.0043	111	0.24	

#### Characteristics of parameter

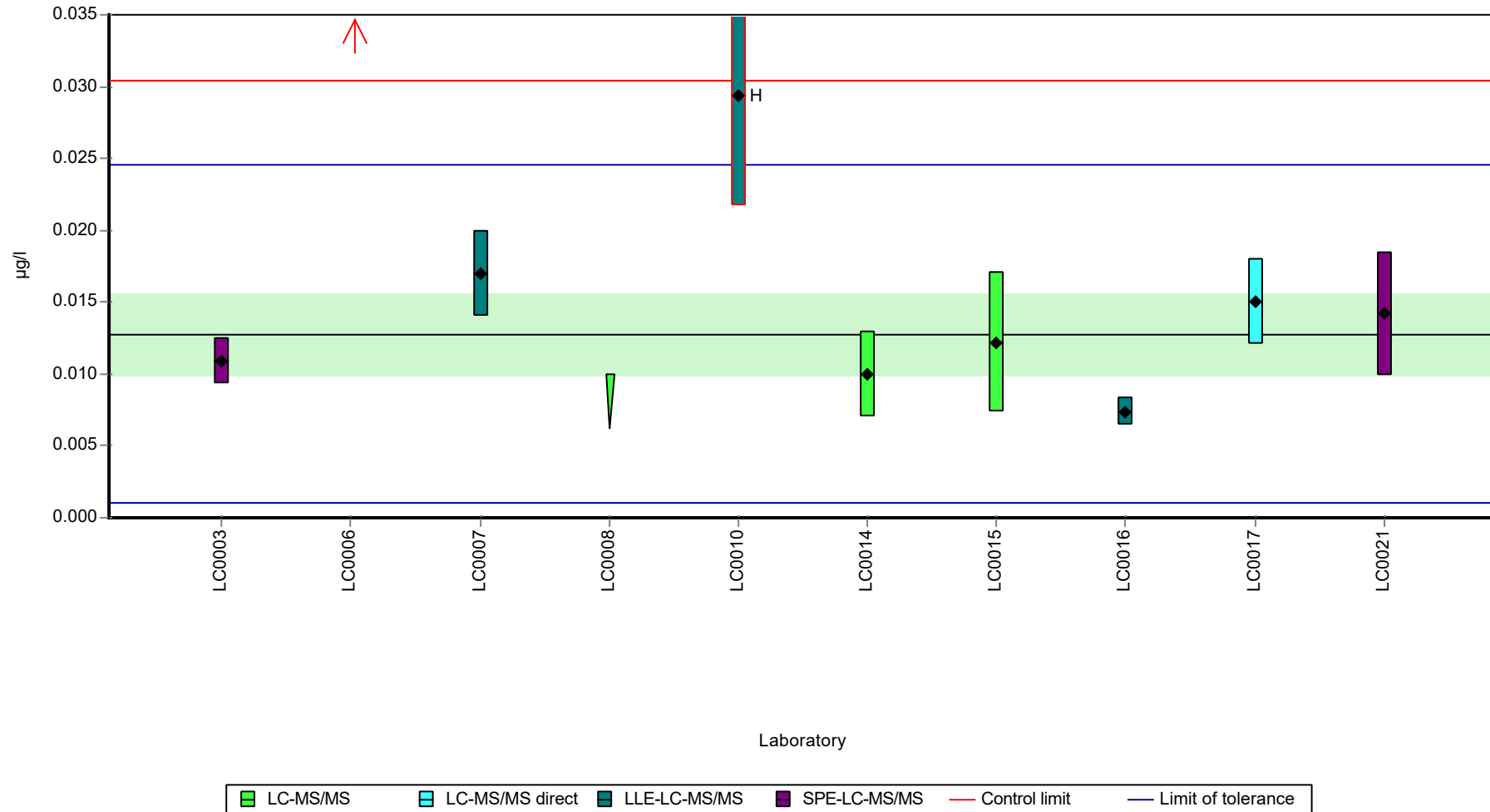
	all results	without outliers	Unit
Mean ± CI (99%)	0.018 ± 0.0122	0.0124 ± 0.00372	µg/l
Minimum	0.00738	0.00738	µg/l
Maximum	0.046	0.017	µg/l
Standard deviation	0.0122	0.00328	µg/l
rel. standard deviation	68	26.5 %	
n	9	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

Graphical presentation of results

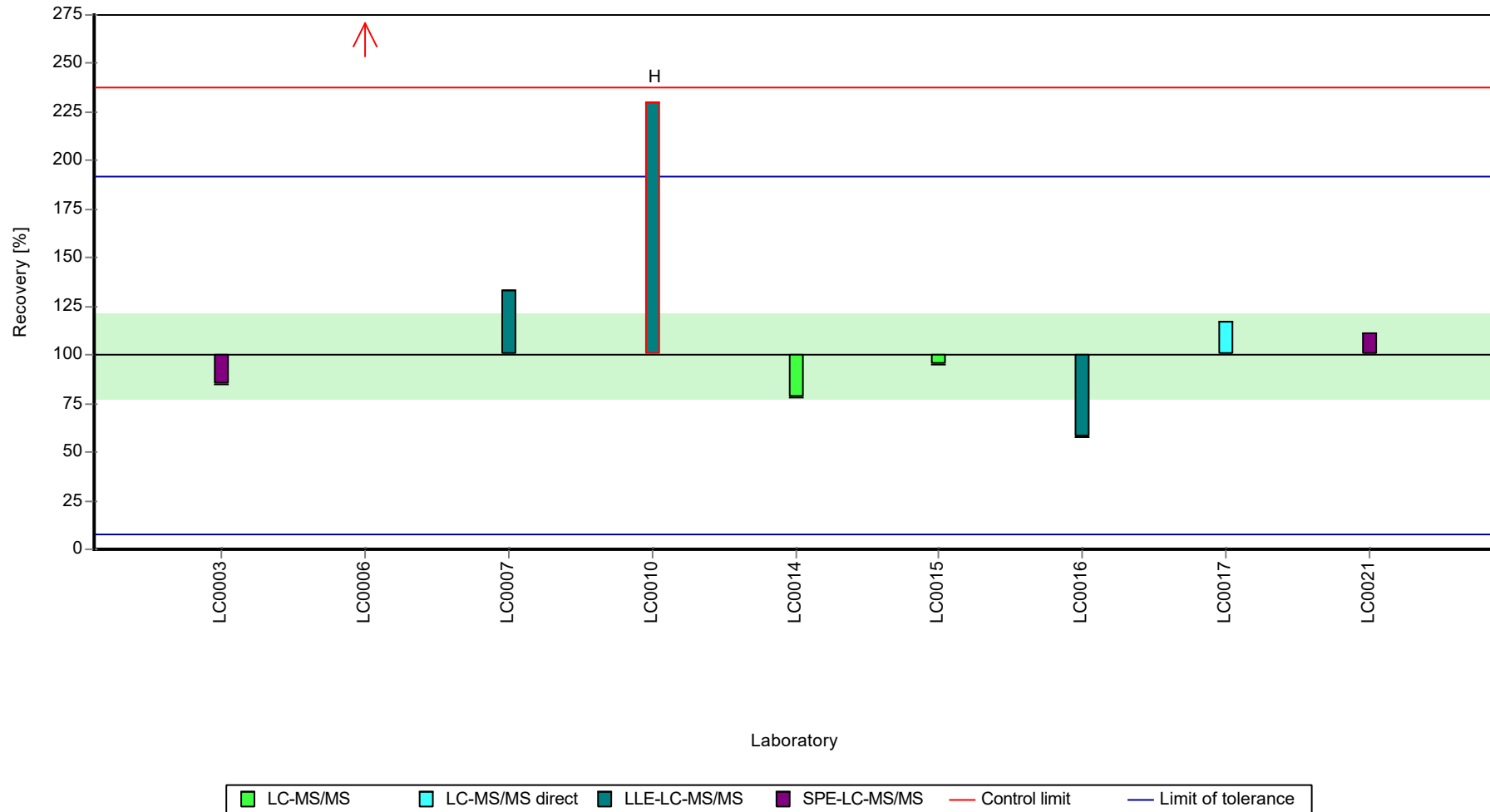
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

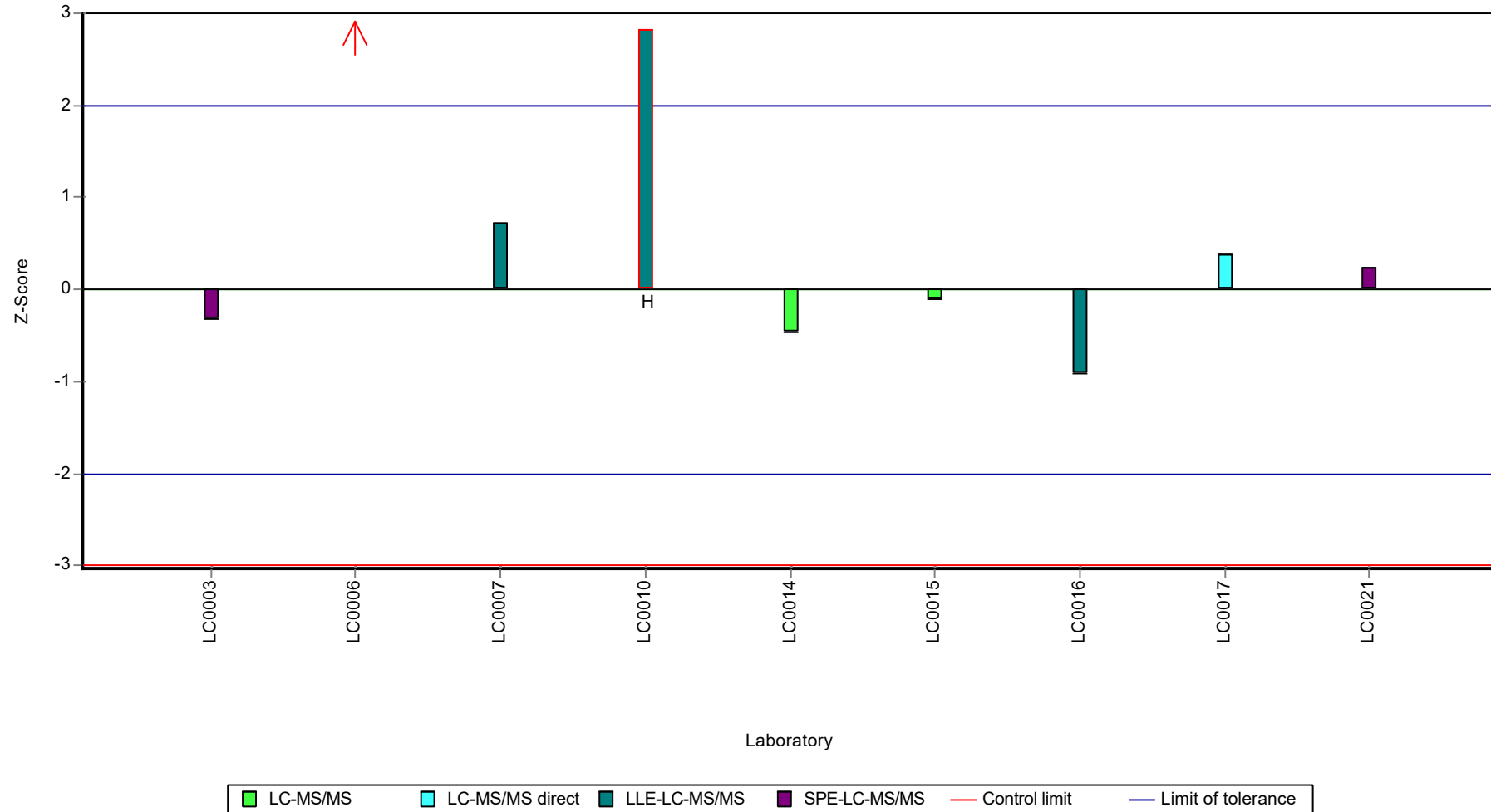
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotetradecanoic acid (PFTeDA) - PF14C

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

## Parameter oriented report

### PF01 A

#### Perfluorobutane sulfonic acid (PFBS) - PF4S

Unit	µg/l
Assigned value ± U (k=2)	0.0254 ± 0.00127
Criterion	0.00279 (11 %)
Minimum - Maximum	0.0219 - 0.0315
Control test value ± U (k=2)	0.0245 ± 0.00857

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0244	0.00098	96	-0.36	
LC0002	0.022	0.002	86.6	-1.22	
LC0003	0.0221	0.0033	87	-1.18	
LC0004	0.022	0.007	86.6	-1.22	
LC0005	0.024	0.0096	94.5	-0.5	
LC0006	0.0259	0.00932	102	0.18	
LC0007	0.024	0.004	94.5	-0.5	
LC0008	0.03	0.009	118	1.64	
LC0009	0.0125	0.00438	49.2	-4.62	H
LC0010	0.0286	0.0032	113	1.14	
LC0011	0.0219	0.0055	86.2	-1.25	
LC0012	0.02378	0.00713	93.6	-0.58	
LC0013	0.029	0.009	114	1.29	
LC0014	0.0254	0.00763	100	0.00	
LC0015	0.0254	0.0102	100	0.00	
LC0016	0.0354	0.005	139	3.58	H
LC0017	0.025	0.005	98.4	-0.14	
LC0018	0.0315	0.0069	124	2.18	
LC0019	0.0264	0.0026	104	0.36	
LC0020	0.026	0.008	102	0.21	
LC0021	0.0253	0.0076	99.6	-0.04	

#### Characteristics of parameter

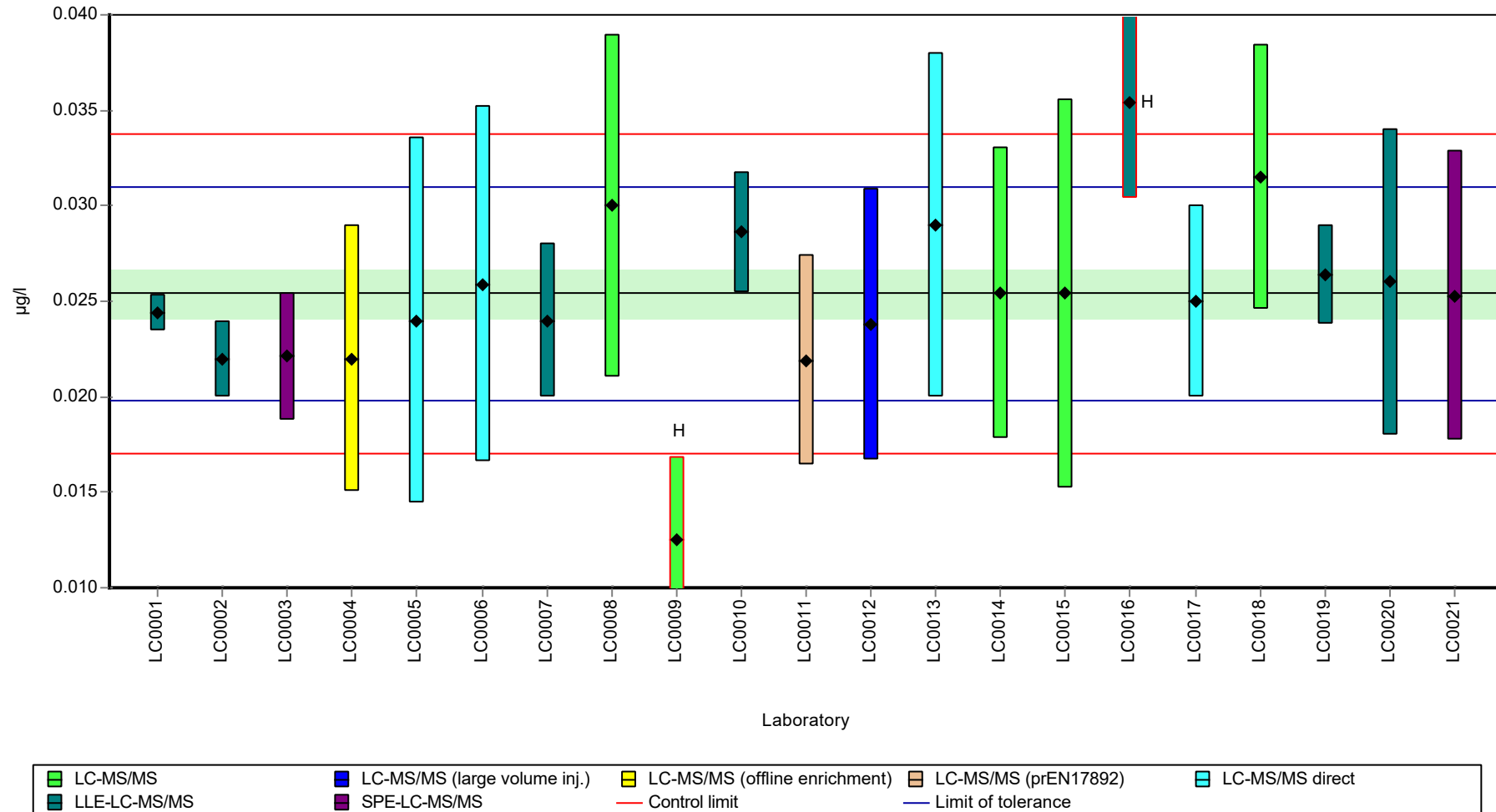
	all results	without outliers	Unit
Mean ± CI (99%)	0.0253 ± 0.00294	0.0254 ± 0.0019	µg/l
Minimum	0.0125	0.0219	µg/l
Maximum	0.0354	0.0315	µg/l
Standard deviation	0.00449	0.00276	µg/l
rel. standard deviation	17.8	10.9 %	
n	21	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

Graphical presentation of results

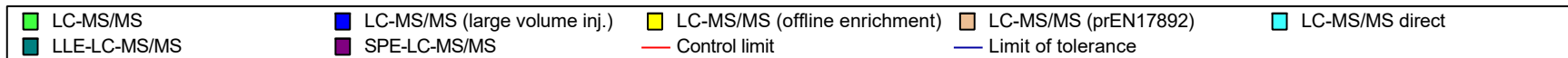
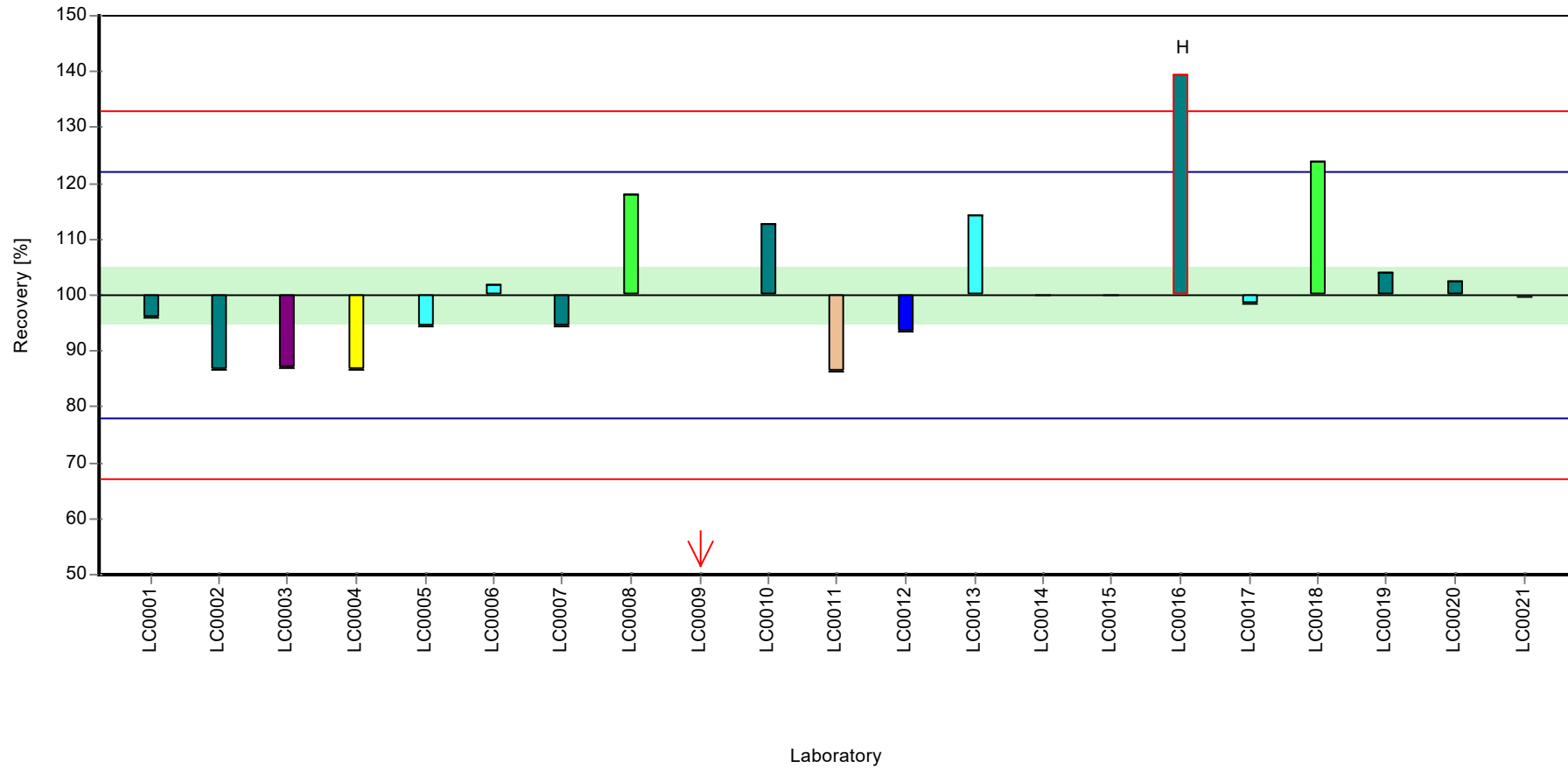
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

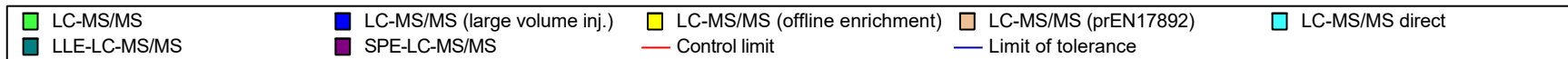
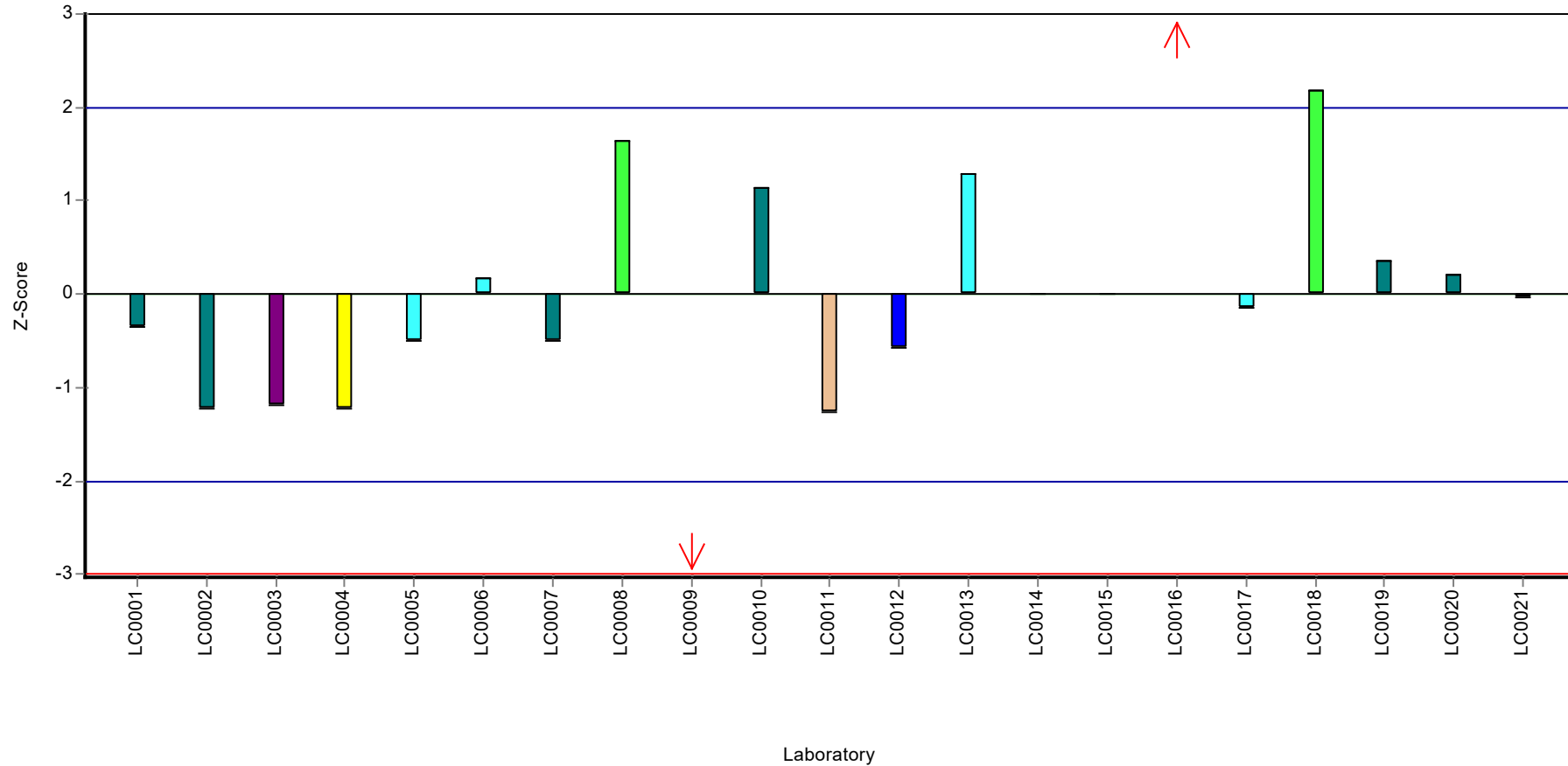
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

## Parameter oriented report

### PF01 B

#### Perfluorobutane sulfonic acid (PFBS) - PF4S

Unit	µg/l
Assigned value ± U (k=2)	0.0301 ± 0.00259
Criterion	0.00602 (20 %)
Minimum - Maximum	0.0138 - 0.04
Control test value ± U (k=2)	0.0285 ± 0.00999

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0343	0.0014	114	0.7	
LC0002	0.024	0.002	79.7	-1.01	
LC0003	0.0261	0.0039	86.7	-0.67	
LC0004	0.035	0.01	116	0.81	
LC0005	0.0271	0.0108	90	-0.5	
LC0006	0.0306	0.011	102	0.08	
LC0007	0.031	0.006	103	0.15	
LC0008	0.035	0.011	116	0.81	
LC0009	0.0138	0.00483	45.8	-2.71	
LC0010	0.0325	0.0023	108	0.4	
LC0011	0.0215	0.0054	71.4	-1.43	
LC0012	0.02659	0.00798	88.3	-0.58	
LC0013	0.035	0.011	116	0.81	
LC0014	0.0357	0.0107	119	0.93	
LC0015	0.0274	0.011	91	-0.45	
LC0016	0.04	0.006	133	1.64	
LC0017	0.029	0.006	96.3	-0.18	
LC0018	0.0354	0.0078	118	0.88	
LC0019	0.0348	0.0035	116	0.78	
LC0020	0.03	0.009	99.7	-0.02	
LC0021	0.0274	0.0082	91	-0.45	

#### Characteristics of parameter

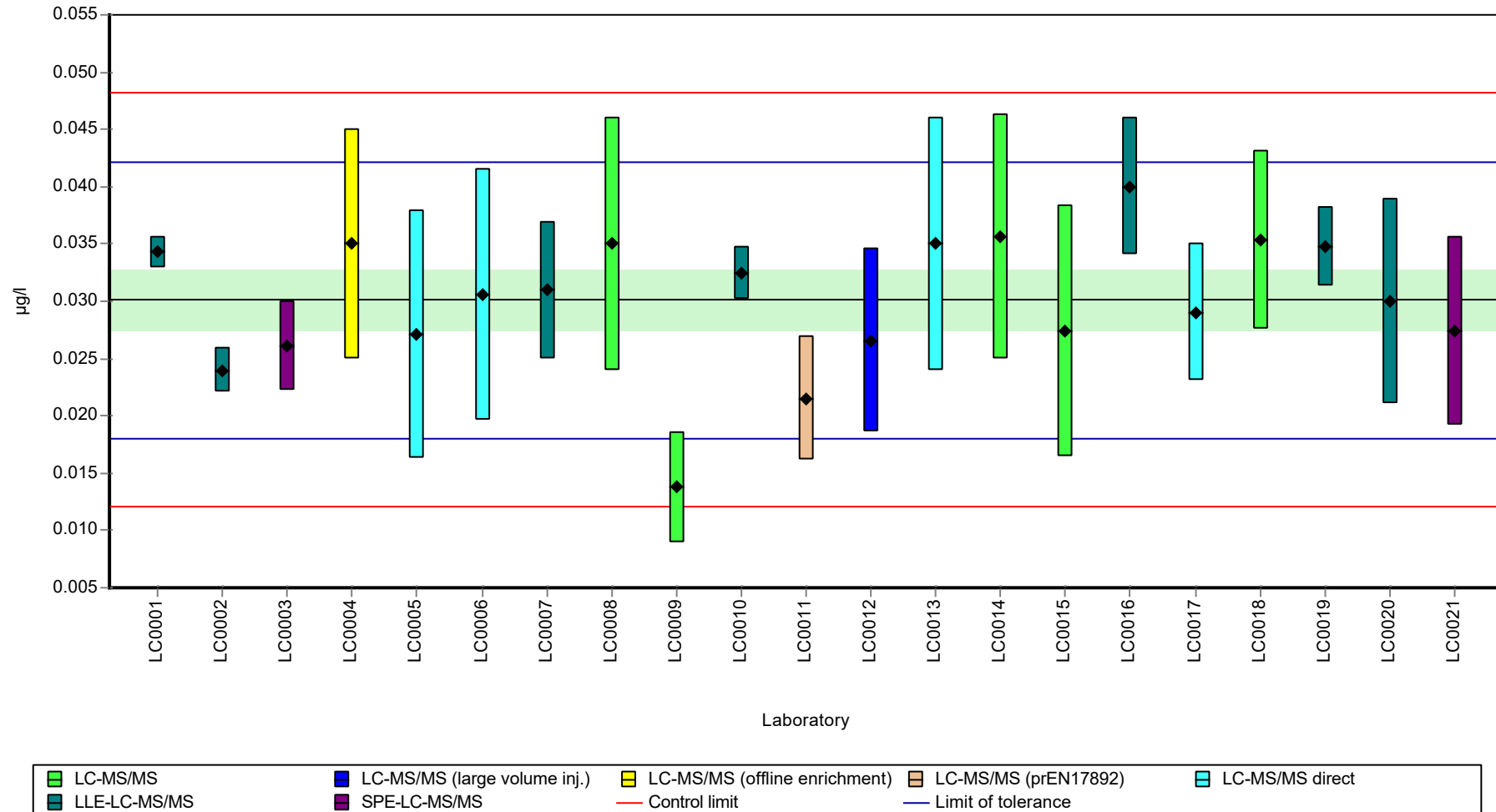
	all results	without outliers	Unit
Mean ± CI (99%)	0.0301 ± 0.00389	0.0301 ± 0.00389	µg/l
Minimum	0.0138	0.0138	µg/l
Maximum	0.04	0.04	µg/l
Standard deviation	0.00594	0.00594	µg/l
rel. standard deviation	19.7	19.7	%
n	21	21	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

Graphical presentation of results

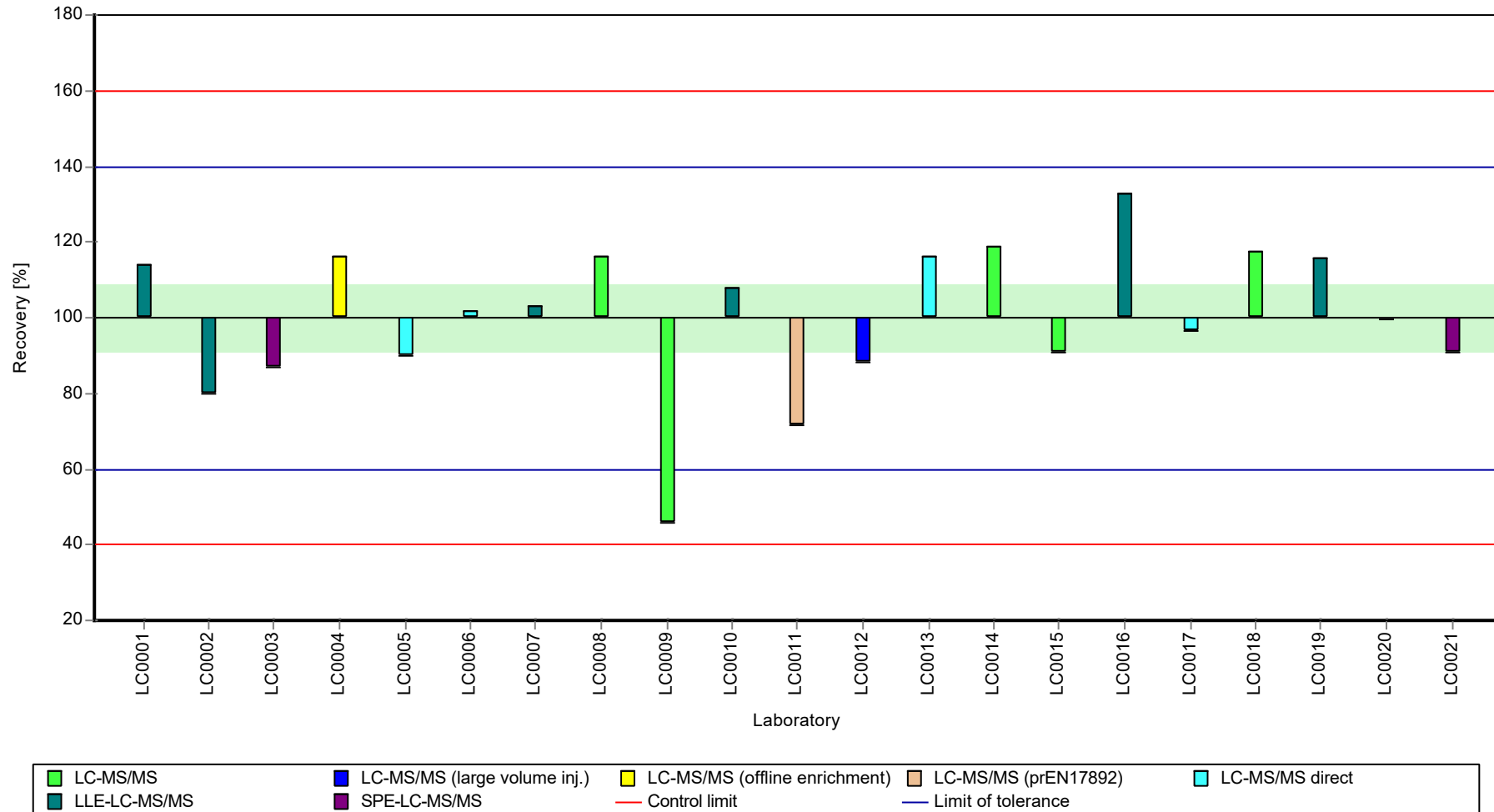
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

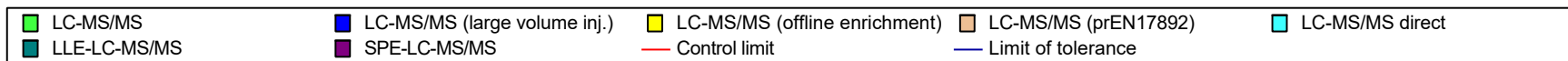
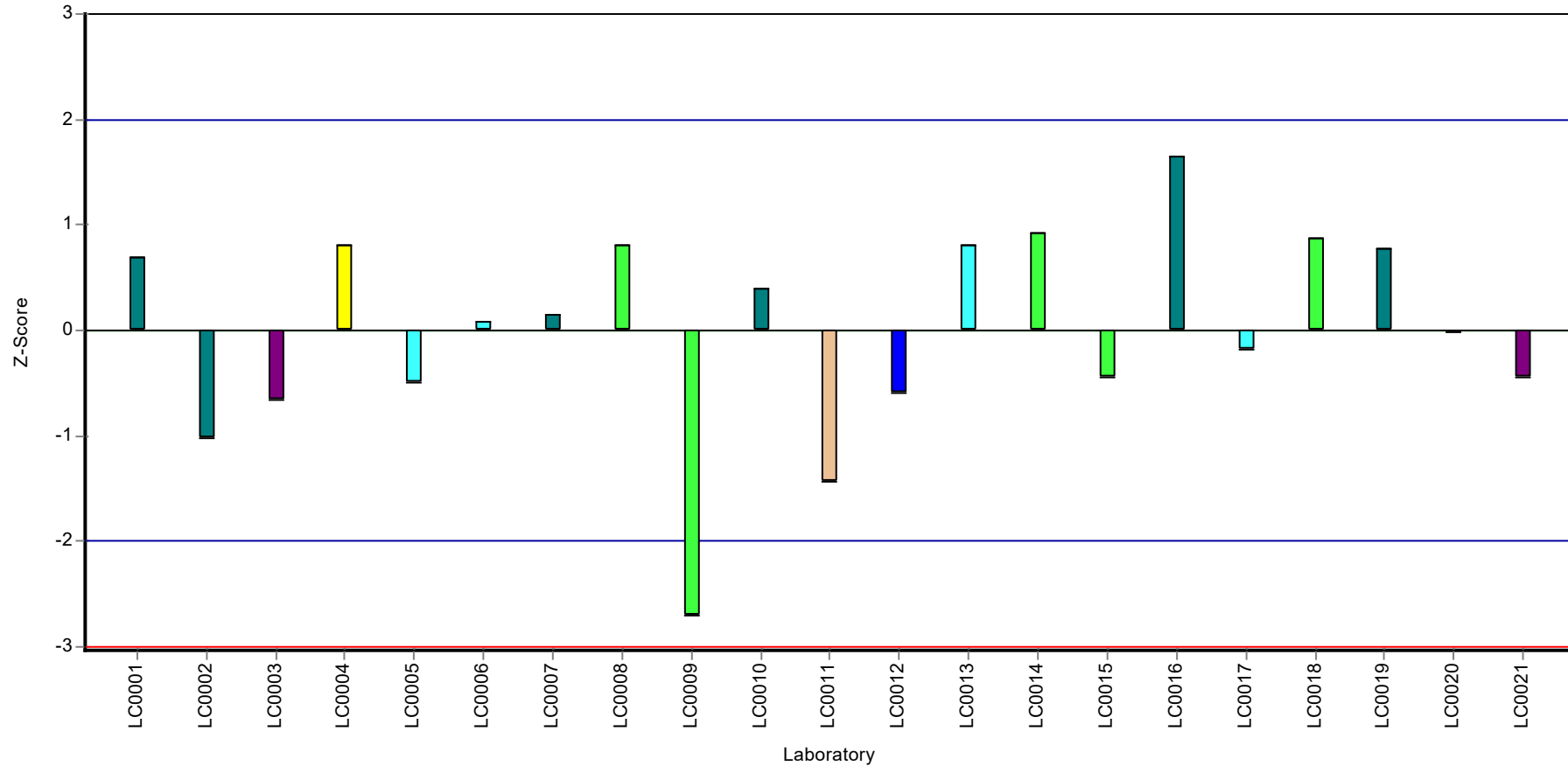
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorobutane sulfonic acid (PFBS) - PF4S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

## Parameter oriented report

### PF01 A

#### Perfluoropentane sulfonic acid (PFPeS) - PF5S

Unit	µg/l
Assigned value ± U (k=2)	0.0184 ± 0.00108
Criterion	0.00221 (12 %)
Minimum - Maximum	0.015 - 0.023
Control test value ± U (k=2)	0.0163 ± 0.0049

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0176	0.0007	95.7	-0.36	
LC0002	0.011	0.002	59.8	-3.35	H
LC0003	0.0181	0.0027	98.4	-0.13	
LC0004	0.015	0.005	81.6	-1.54	
LC0005	0.0192	0.0067	104	0.37	
LC0006	0.0194	0.00698	105	0.46	
LC0007	0.016	0.003	87	-1.08	
LC0008	0.019	0.01	103	0.28	
LC0009	0.00995	0.00348	54.1	-3.83	H
LC0010	-	-	-	-	
LC0011	0.0168	0.0042	91.3	-0.72	
LC0012	0.01978	0.00198	108	0.63	
LC0013	0.019	0.006	103	0.28	
LC0014	0.0204	0.00612	111	0.91	
LC0015	0.0169	0.0068	91.9	-0.68	
LC0016	0.023	0.003	125	2.09	
LC0017	-	-	-	-	
LC0018	0.0221	0.0044	120	1.68	
LC0019	0.0182	0.0024	99	-0.09	
LC0020	0.015	0.004	81.6	-1.54	
LC0021	0.0172	0.0052	93.5	-0.54	

#### Characteristics of parameter

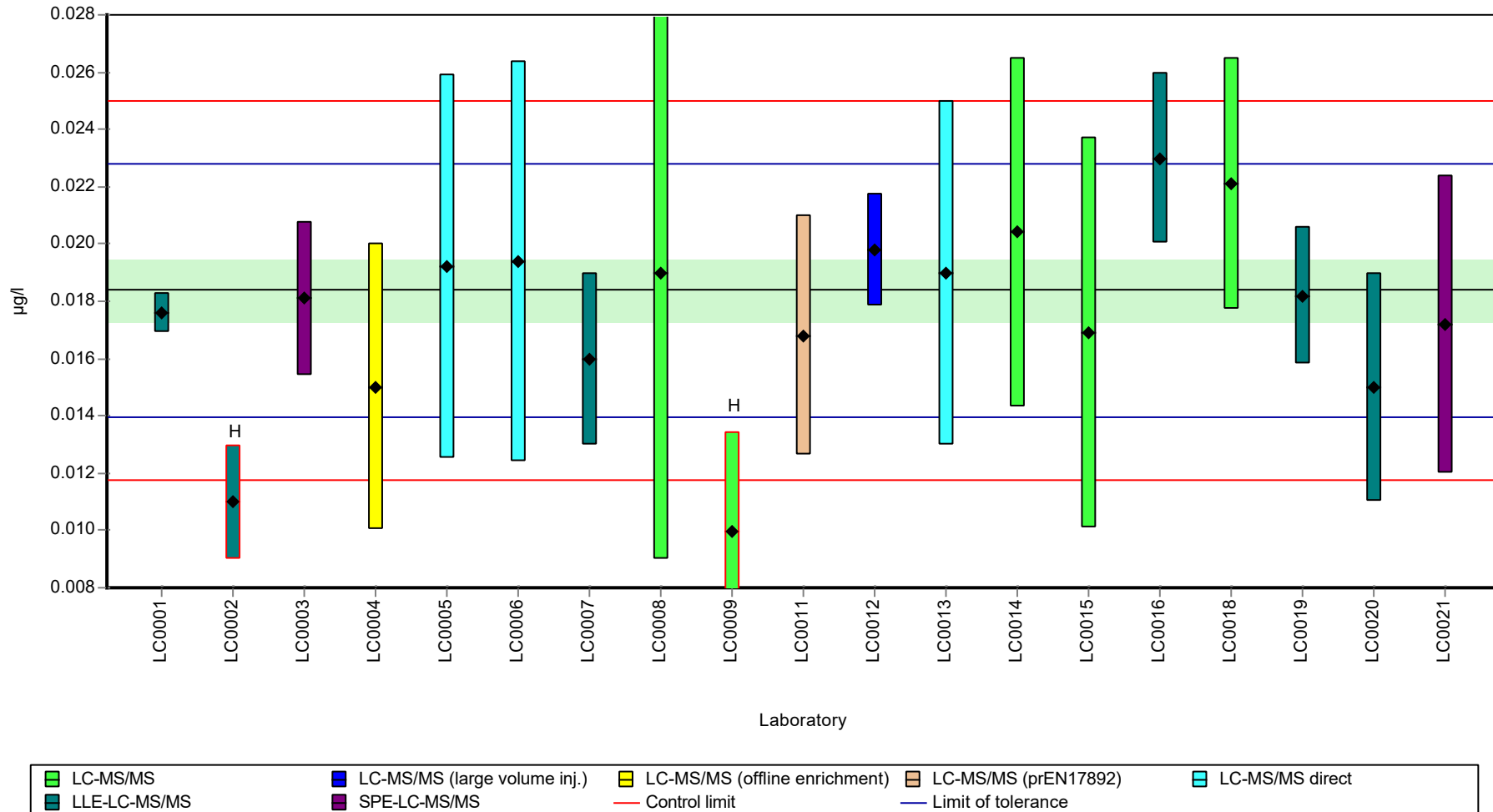
	all results	without outliers	Unit
Mean ± CI (99%)	0.0176 ± 0.00225	0.0184 ± 0.00162	µg/l
Minimum	0.00995	0.015	µg/l
Maximum	0.023	0.023	µg/l
Standard deviation	0.00326	0.00222	µg/l
rel. standard deviation	18.6	12.1	%
n	19	17	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

Graphical presentation of results

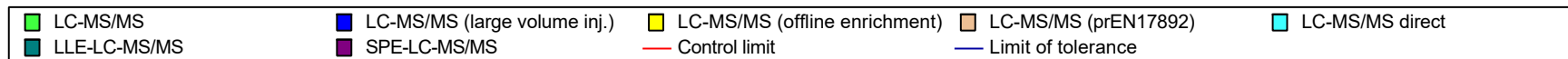
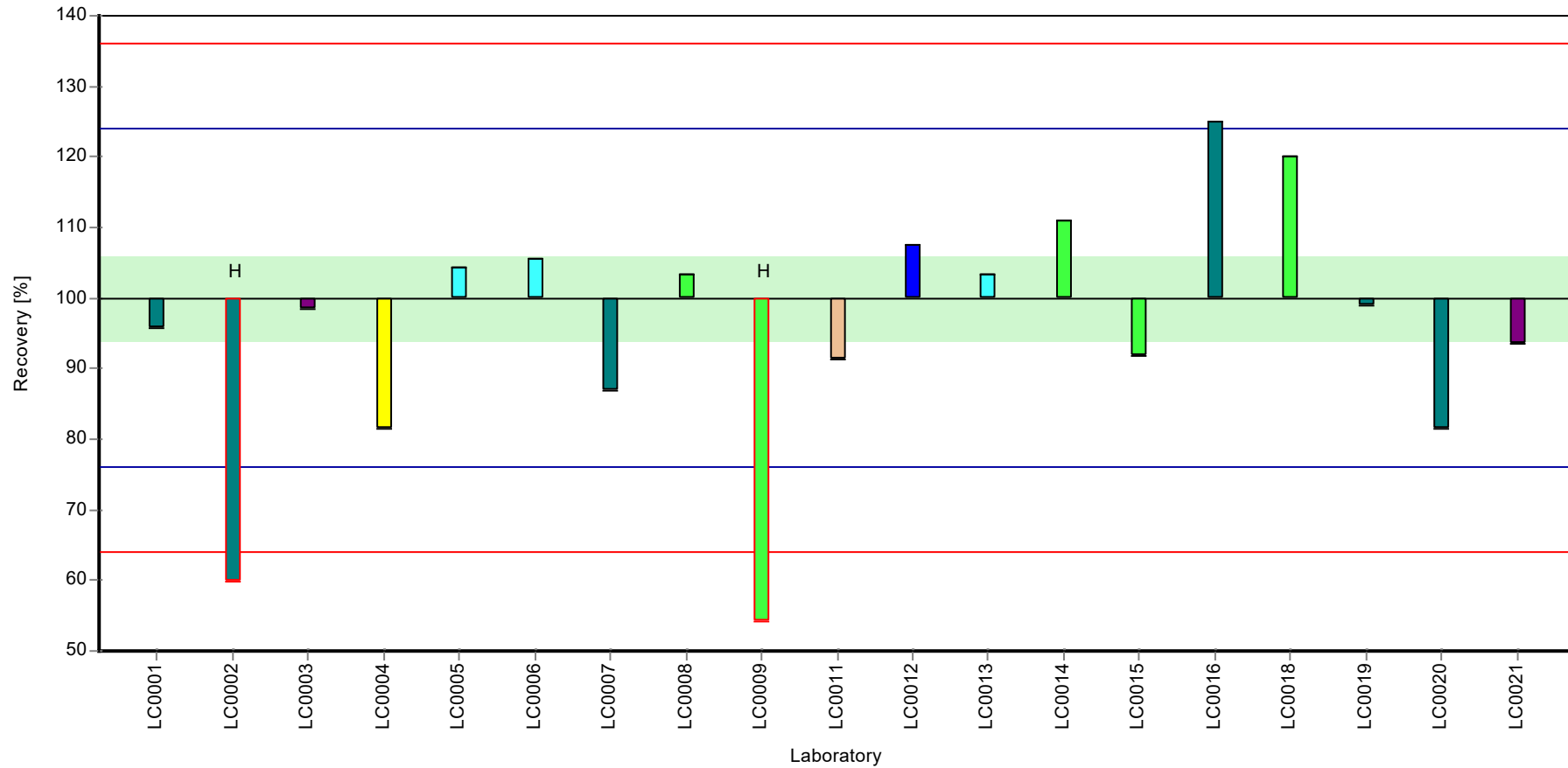
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

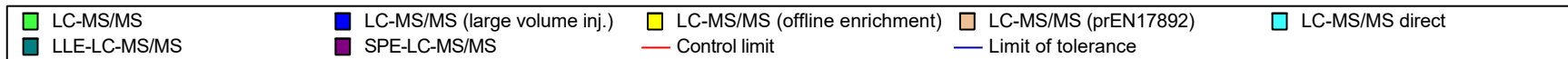
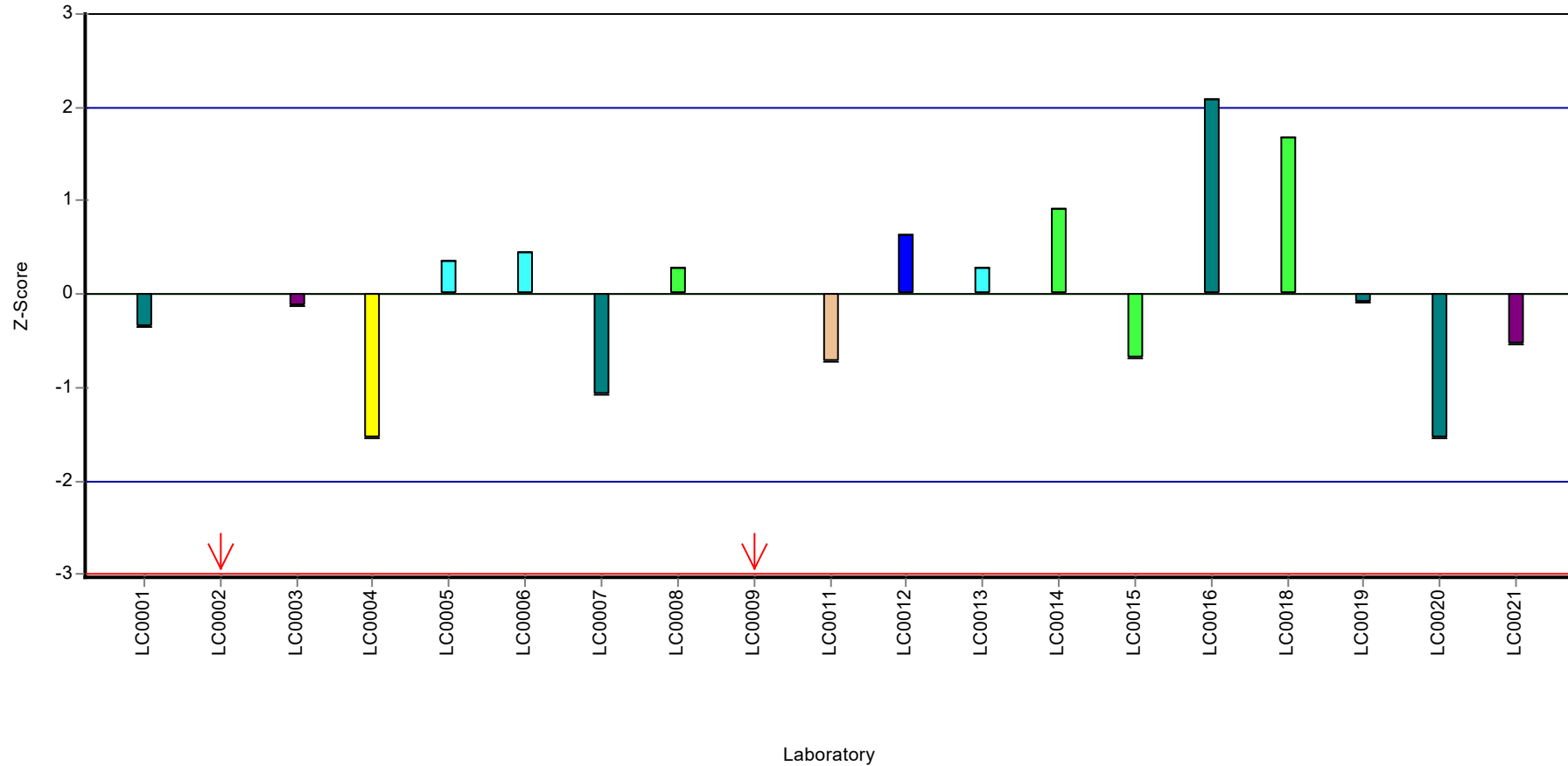
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

## Parameter oriented report

### PF01 B

#### Perfluoropentane sulfonic acid (PFPeS) - PF5S

Unit	µg/l
Assigned value ± U (k=2)	0.0745 ± 0.00382
Criterion	0.00819 (11 %)
Minimum - Maximum	0.057 - 0.0882
Control test value ± U (k=2)	0.0645 ± 0.0194

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0771	0.0031	104	0.32	
LC0002	0.041	0.002	55.1	-4.09	H
LC0003	0.057	0.0085	76.5	-2.13	
LC0004	0.071	0.021	95.3	-0.42	
LC0005	0.079	0.0276	106	0.55	
LC0006	0.0753	0.02712	101	0.1	
LC0007	0.066	0.01	88.6	-1.03	
LC0008	0.075	0.023	101	0.06	
LC0009	0.0376	0.0132	50.5	-4.5	H
LC0010	-	-	-	-	
LC0011	0.0789	0.0197	106	0.54	
LC0012	0.07669	0.00767	103	0.27	
LC0013	0.083	0.025	111	1.04	
LC0014	0.075	0.0225	101	0.06	
LC0015	0.0658	0.0263	88.4	-1.06	
LC0016	0.0882	0.013	118	1.68	
LC0017	-	-	-	-	
LC0018	0.0845	0.0167	113	1.22	
LC0019	0.0738	0.0096	99.1	-0.08	
LC0020	0.064	0.019	85.9	-1.28	
LC0021	0.0757	0.0227	102	0.15	

#### Characteristics of parameter

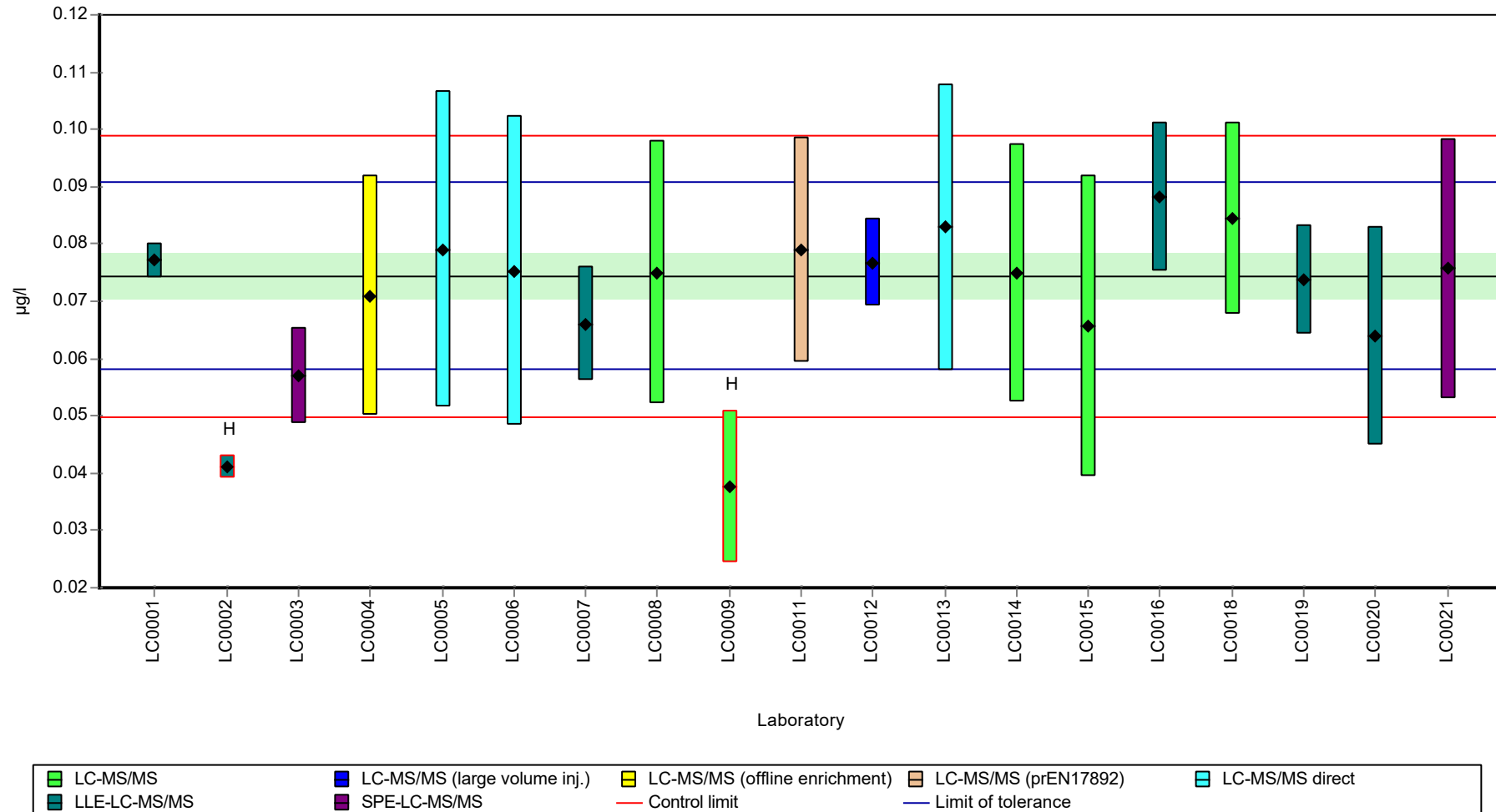
	all results	without outliers	Unit
Mean ± CI (99%)	0.0708 ± 0.00919	0.0745 ± 0.00573	µg/l
Minimum	0.0376	0.057	µg/l
Maximum	0.0882	0.0882	µg/l
Standard deviation	0.0134	0.00787	µg/l
rel. standard deviation	18.9	10.6 %	
n	19	17	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

Graphical presentation of results

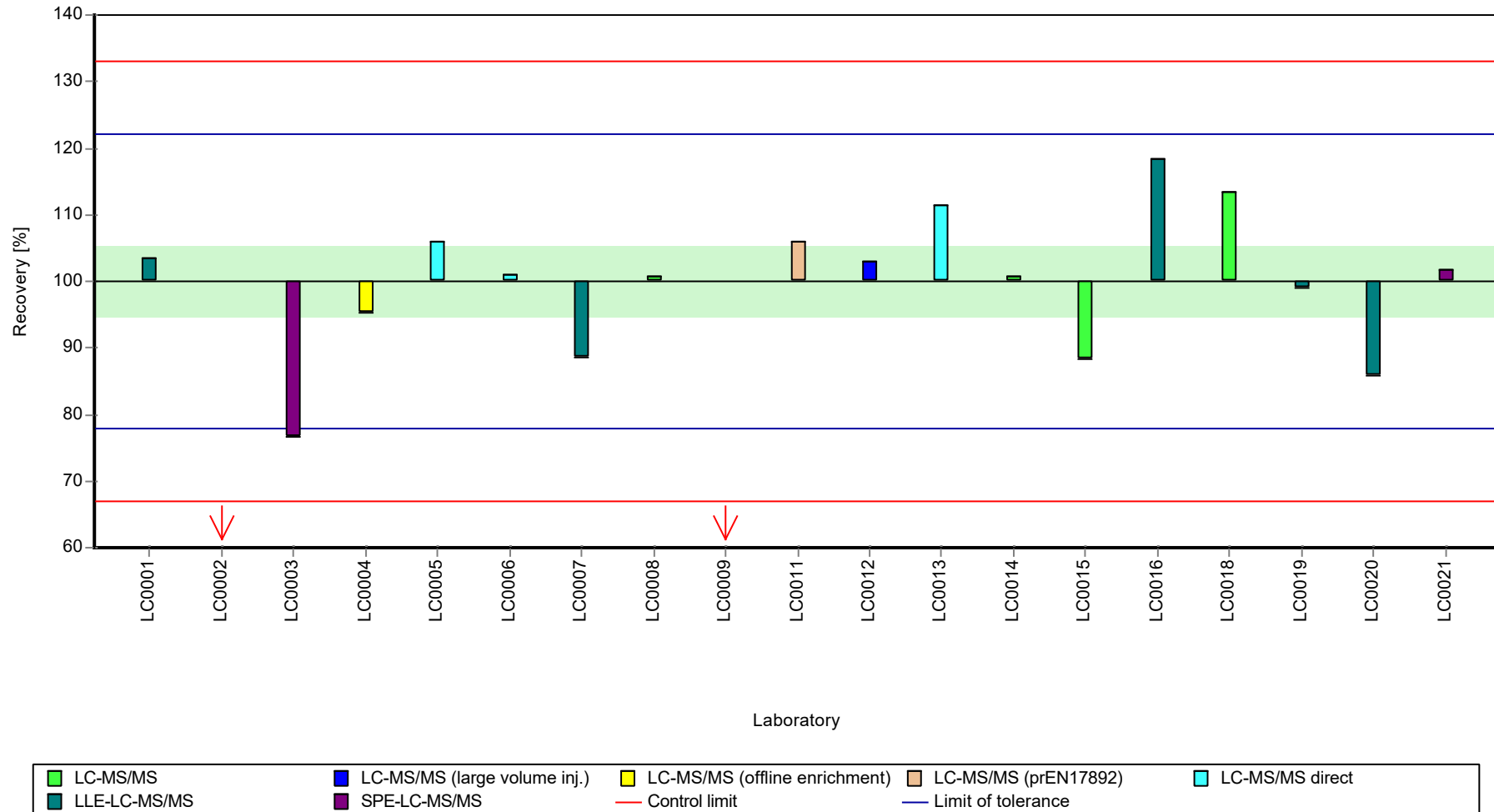
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

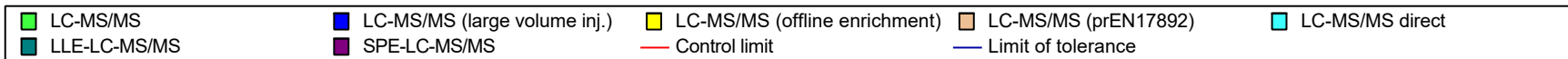
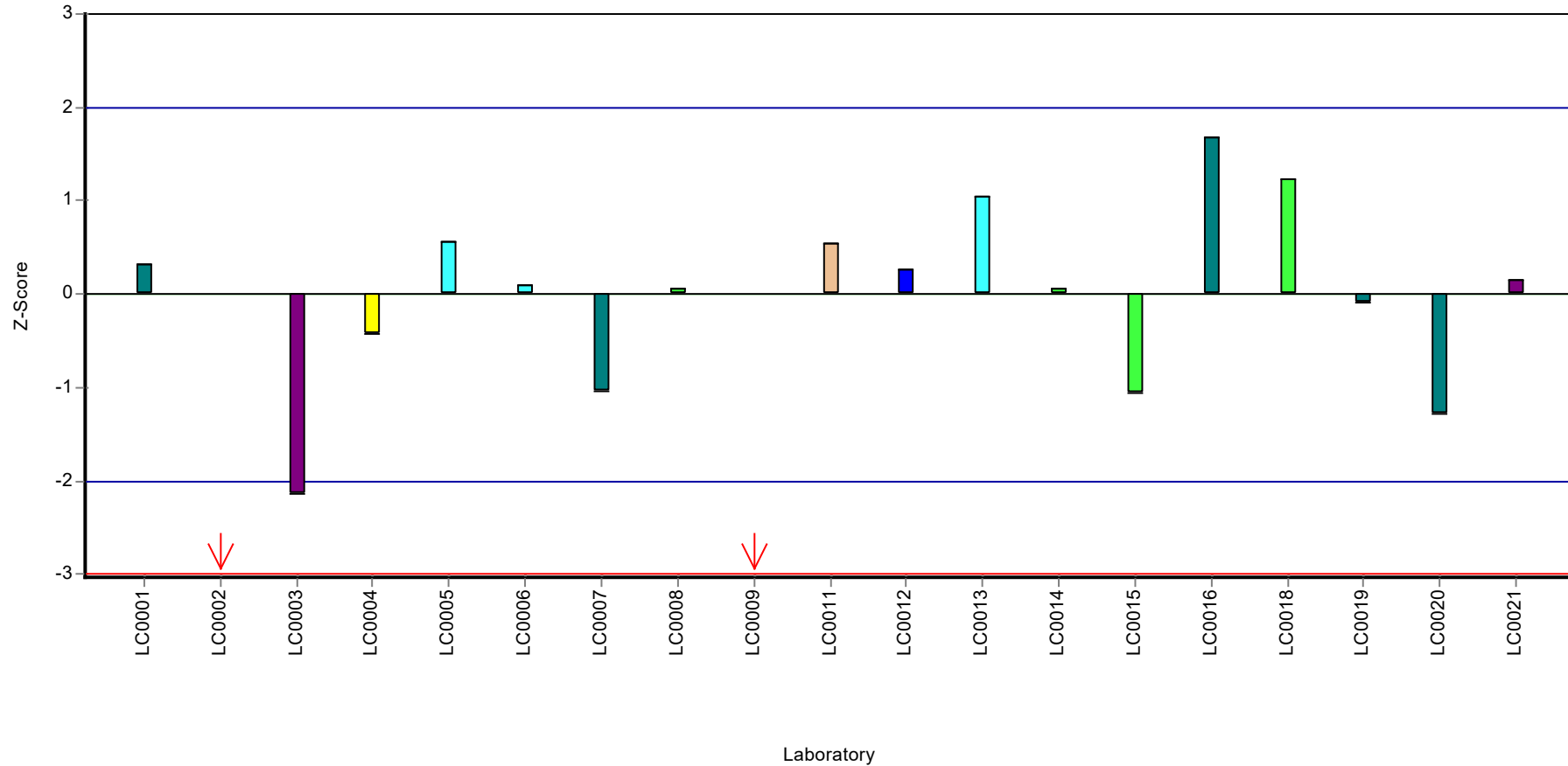
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoropentane sulfonic acid (PFPeS) - PF5S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

## Parameter oriented report

### PF01 A

#### Perfluorohexane sulfonic acid (PFHxS) - PF6S

Unit	µg/l
Assigned value ± U (k=2)	0.04 ± 0.00169
Criterion	0.004 (10 %)
Minimum - Maximum	0.034 - 0.047
Control test value ± U (k=2)	0.0325 ± 0.00975

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0416	0.0016	104	0.4	
LC0002	0.034	0.002	85	-1.5	
LC0003	0.0371	0.0056	92.8	-0.72	
LC0004	0.034	0.01	85	-1.5	
LC0005	0.0424	0.0148	106	0.6	
LC0006	0.0431	0.01552	108	0.78	
LC0007	0.04	0.008	100	0	
LC0008	0.047	0.015	118	1.75	
LC0009	0.0203	0.00711	50.8	-4.92	H
LC0010	0.0425	0.0058	106	0.63	
LC0011	0.0411	0.0103	103	0.28	
LC0012	0.04026	0.01127	101	0.07	
LC0013	0.045	0.014	113	1.25	
LC0014	0.0421	0.0126	105	0.53	
LC0015	0.0375	0.015	93.8	-0.62	
LC0016	0.0551	0.008	138	3.78	H
LC0017	0.04	0.008	100	0	
LC0018	0.0547	0.0161	137	3.68	H
LC0019	0.0385	0.0073	96.3	-0.37	
LC0020	0.035	0.011	87.5	-1.25	
LC0021	0.0388	0.012	97	-0.3	

#### Characteristics of parameter

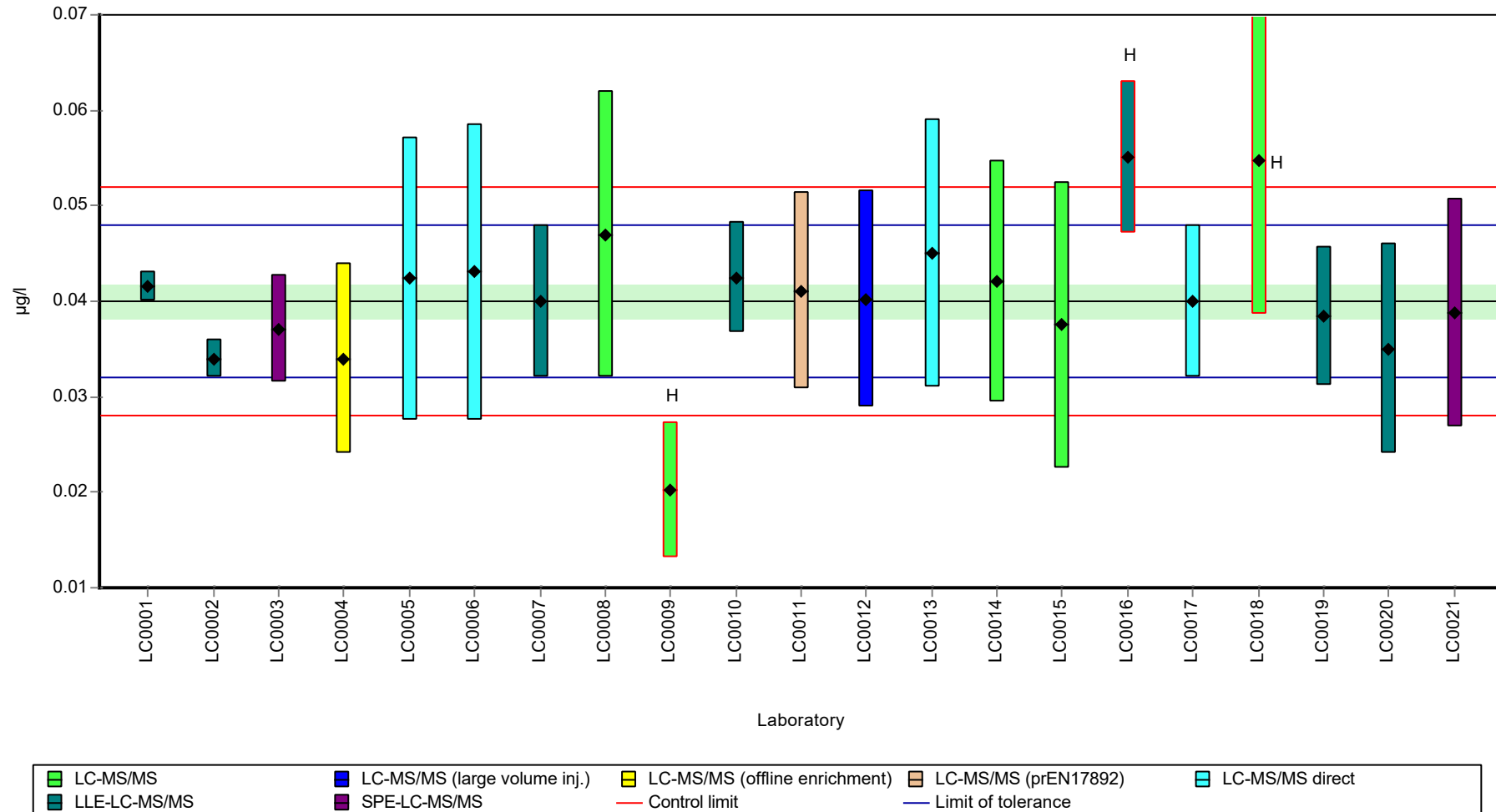
	all results	without outliers	Unit
Mean ± CI (99%)	0.0405 ± 0.00474	0.04 ± 0.00254	µg/l
Minimum	0.0203	0.034	µg/l
Maximum	0.0551	0.047	µg/l
Standard deviation	0.00723	0.00359	µg/l
rel. standard deviation	17.9	8.98	%
n	21	18	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

Graphical presentation of results

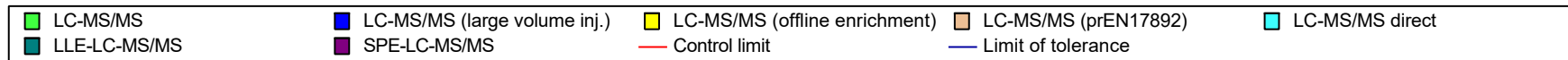
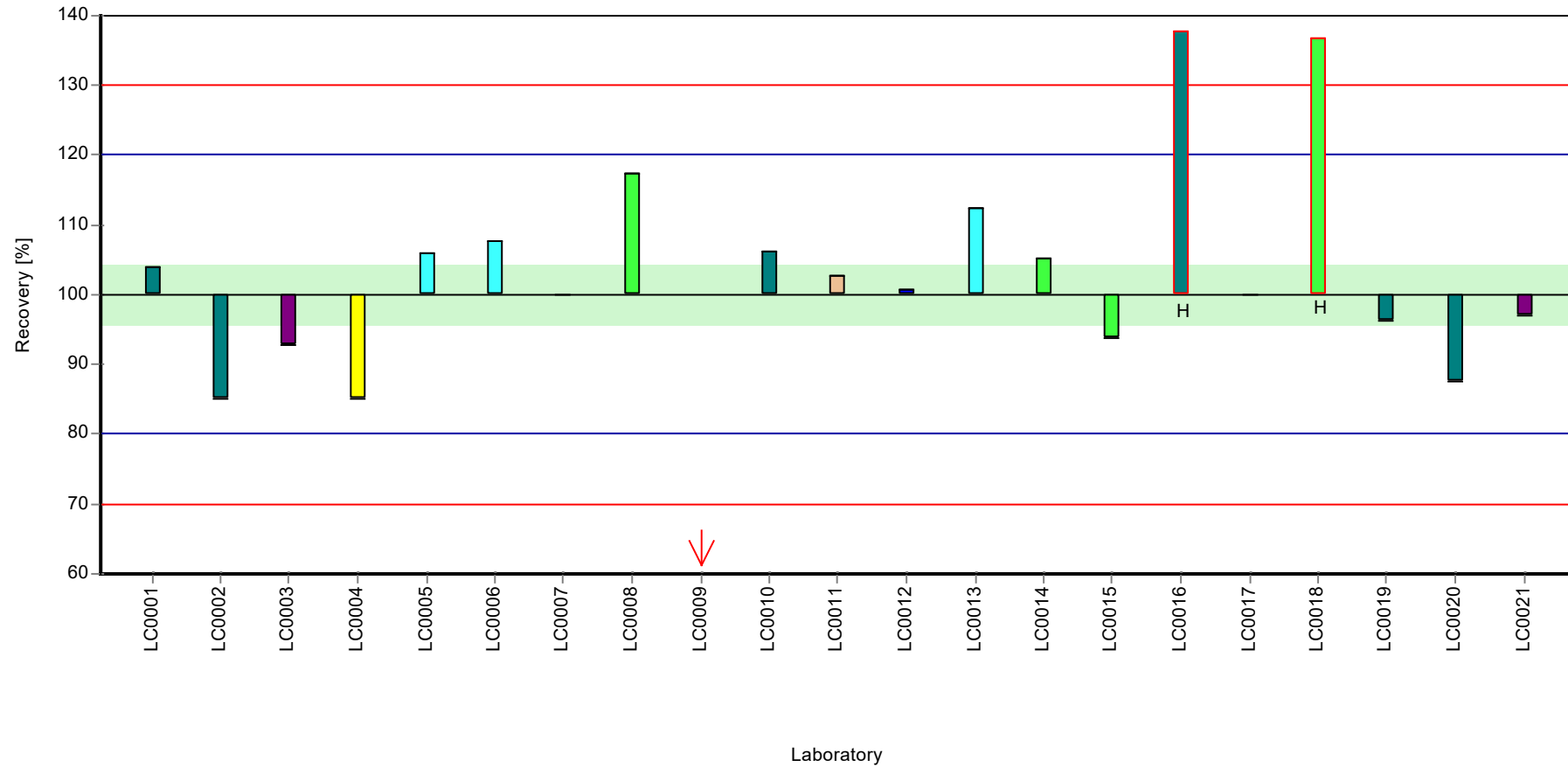
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

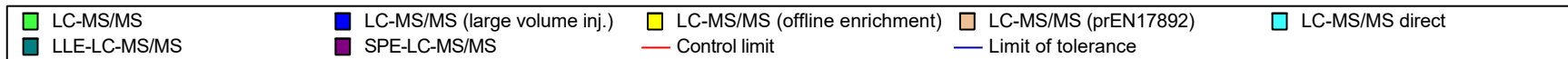
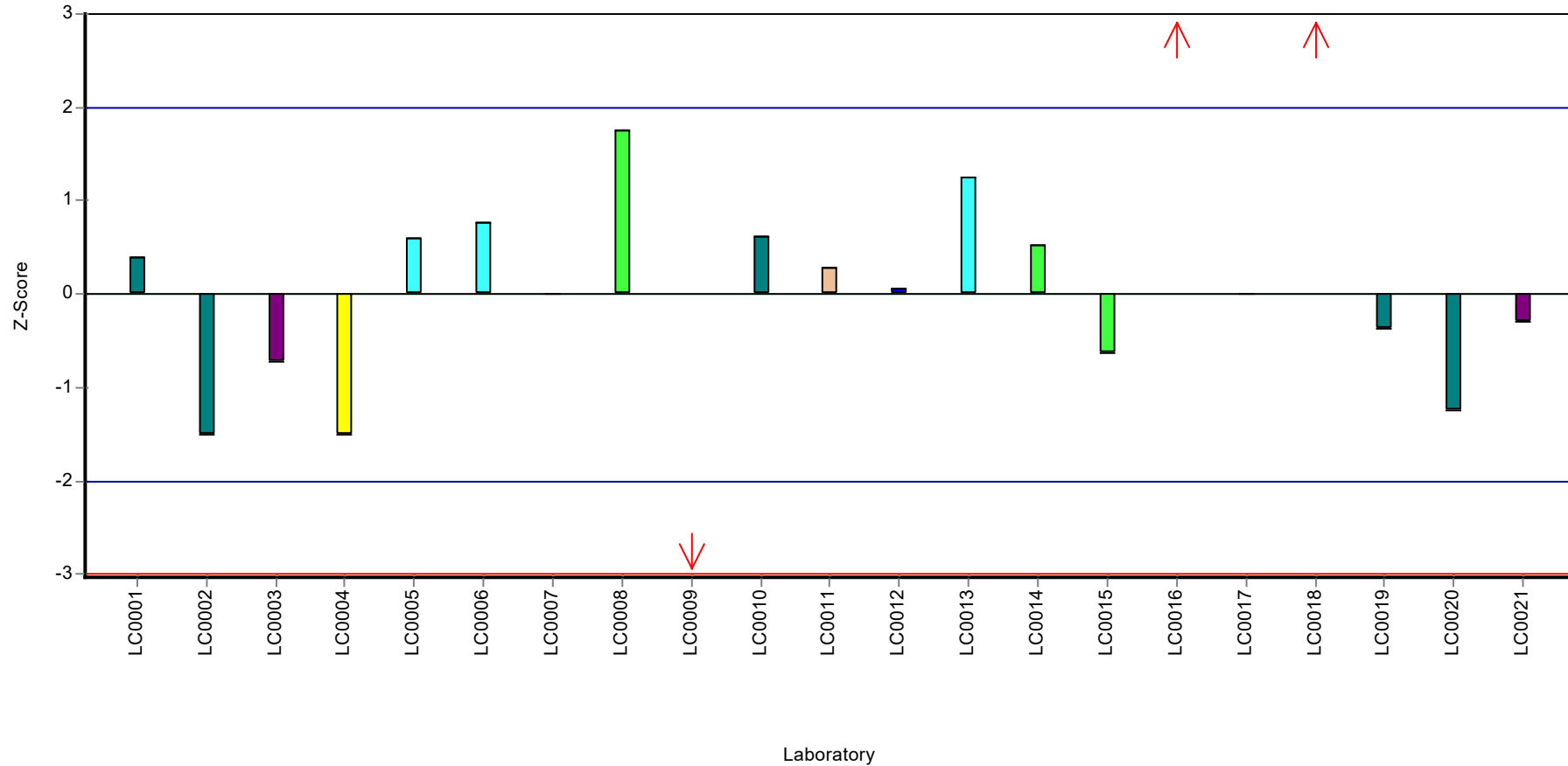
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

## Parameter oriented report

### PF01 B

#### Perfluorohexane sulfonic acid (PFHxS) - PF6S

Unit	µg/l
Assigned value ± U (k=2)	0.0547 ± 0.00369
Criterion	0.00821 (15 %)
Minimum - Maximum	0.042 - 0.0719
Control test value ± U (k=2)	0.0455 ± 0.0136

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0638	0.0026	117	1.1	
LC0002	0.043	0.002	78.6	-1.43	
LC0003	0.0474	0.0071	86.6	-0.89	
LC0004	0.042	0.013	76.7	-1.55	
LC0005	0.0535	0.0187	97.8	-0.15	
LC0006	0.0552	0.01986	101	0.06	
LC0007	0.054	0.01	98.7	-0.09	
LC0008	0.061	0.019	111	0.76	
LC0009	0.023	0.00805	42	-3.87	H
LC0010	0.0635	0.0078	116	1.07	
LC0011	0.0542	0.0136	99	-0.06	
LC0012	0.05179	0.0145	94.6	-0.36	
LC0013	0.063	0.019	115	1.01	
LC0014	0.0563	0.0169	103	0.19	
LC0015	0.0458	0.0183	83.7	-1.09	
LC0016	0.0682	0.01	125	1.64	
LC0017	0.052	0.01	95	-0.33	
LC0018	0.0719	0.0212	131	2.09	
LC0019	0.052	0.0099	95	-0.33	
LC0020	0.048	0.014	87.7	-0.82	
LC0021	0.048	0.0144	87.7	-0.82	

#### Characteristics of parameter

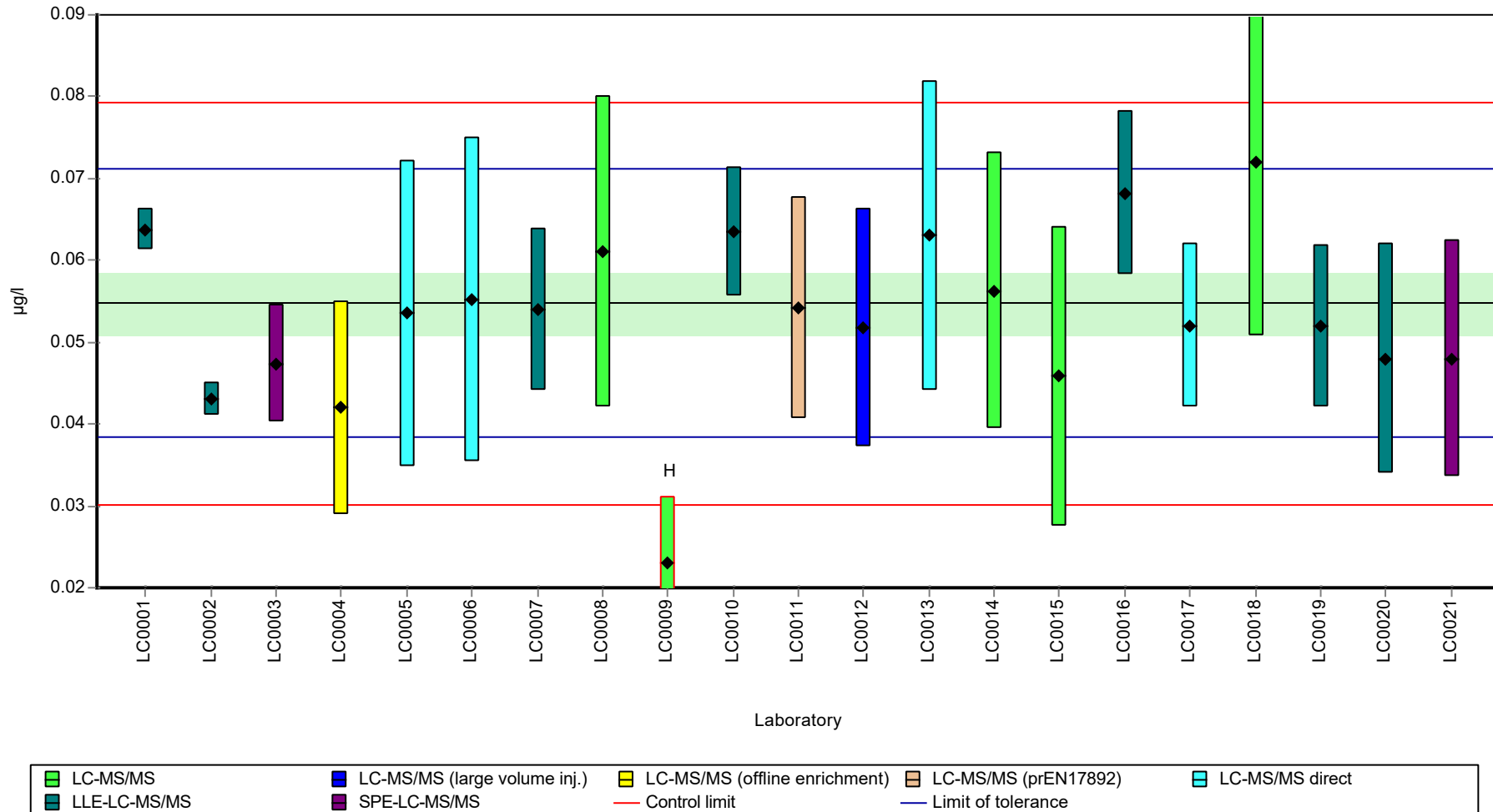
	all results	without outliers	Unit
Mean ± CI (99%)	0.0532 ± 0.00695	0.0547 ± 0.00554	µg/l
Minimum	0.023	0.042	µg/l
Maximum	0.0719	0.0719	µg/l
Standard deviation	0.0106	0.00826	µg/l
rel. standard deviation	19.9	15.1	%
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

Graphical presentation of results

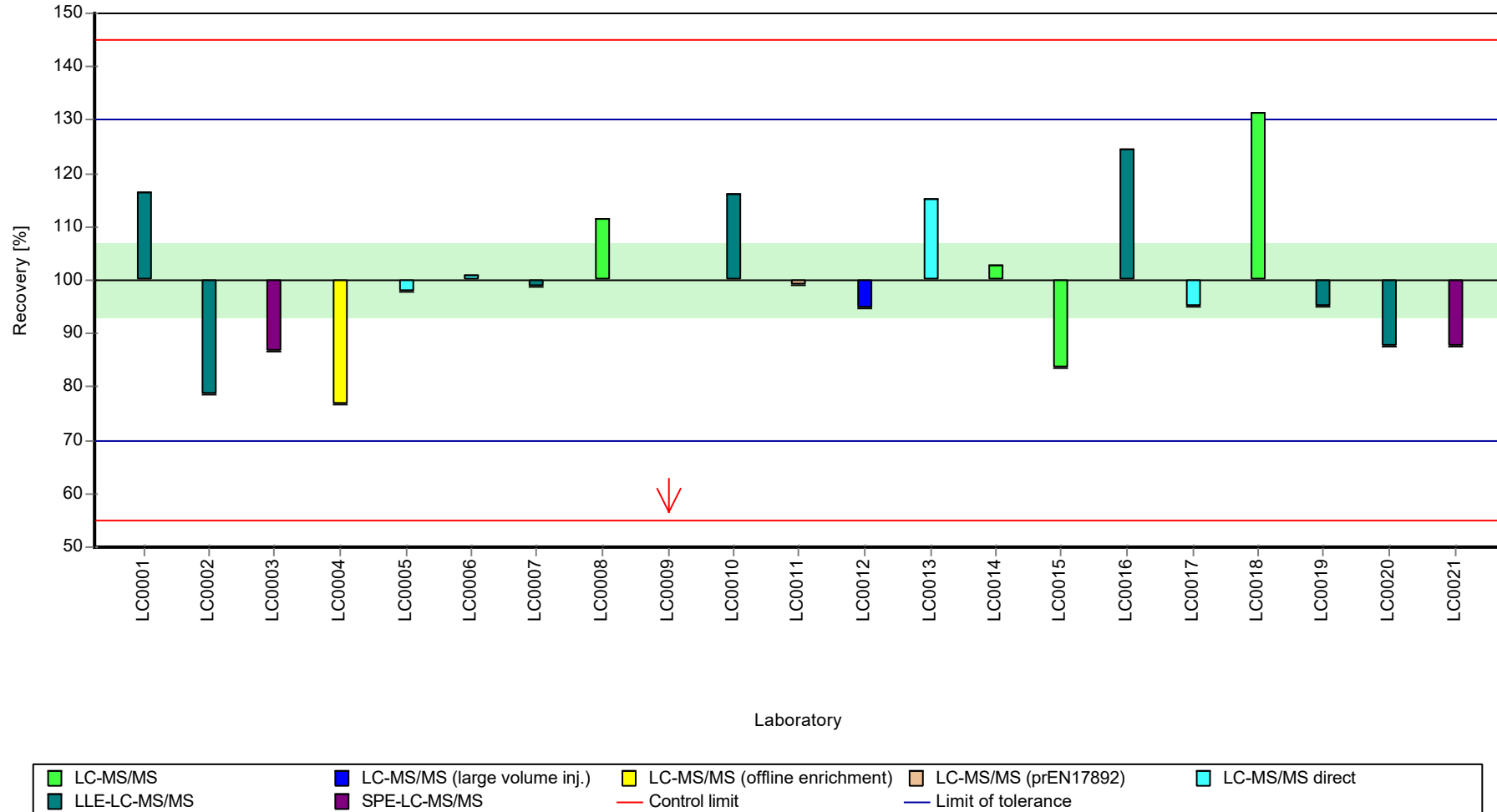
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

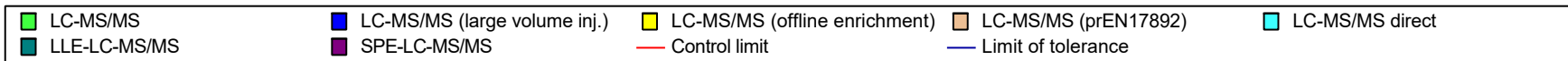
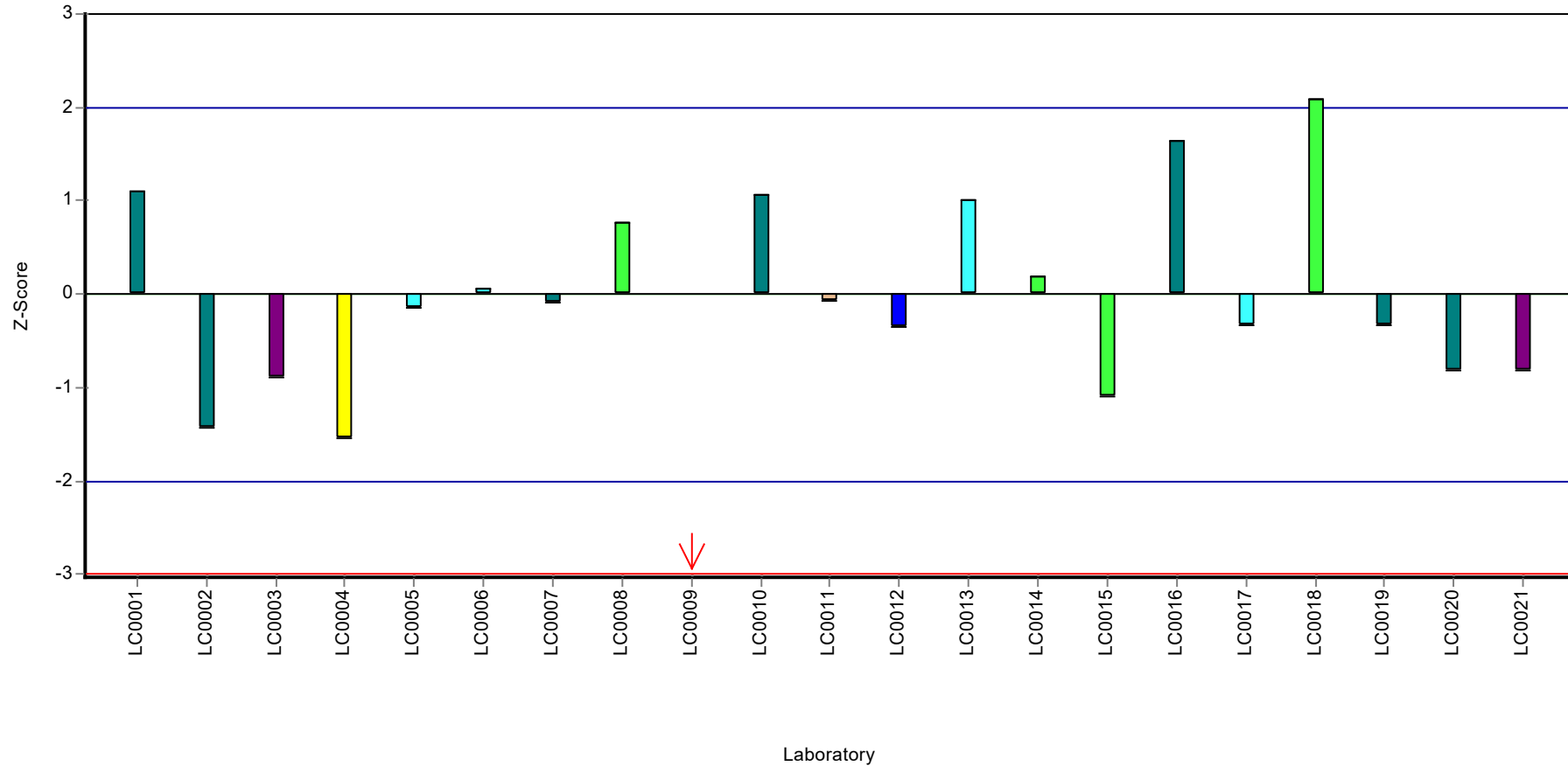
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorohexane sulfonic acid (PFHxS) - PF6S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

## Parameter oriented report

### PF01 A

#### Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Unit	µg/l
Assigned value ± U (k=2)	0.022 ± 0.0015
Criterion	0.00309 (14 %)
Minimum - Maximum	0.015 - 0.027
Control test value ± U (k=2)	0.0176 ± 0.00791

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0194	0.00078	88	-0.86	
LC0002	0.017	0.003	77.1	-1.63	
LC0003	0.0251	0.0038	114	0.99	
LC0004	0.024	0.007	109	0.64	
LC0005	0.0225	0.009	102	0.15	
LC0006	0.0221	0.00796	100	0.02	
LC0007	0.021	0.004	95.3	-0.34	
LC0008	0.024	0.012	109	0.64	
LC0009	0.00934	0.00327	42.4	-4.12	H
LC0010	-	-	-	-	
LC0011	0.0209	0.0052	94.8	-0.37	
LC0012	0.02177	0.00196	98.8	-0.09	
LC0013	0.027	0.008	123	1.61	
LC0014	0.0261	0.00783	118	1.32	
LC0015	0.0207	0.0083	93.9	-0.43	
LC0016	0.0336	0.005	152	3.75	H
LC0017	-	-	-	-	
LC0018	0.0247	0.0032	112	0.86	
LC0019	0.0225	0.0031	102	0.15	
LC0020	0.015	0.004	68.1	-2.28	
LC0021	0.0209	0.0063	94.8	-0.37	

#### Characteristics of parameter

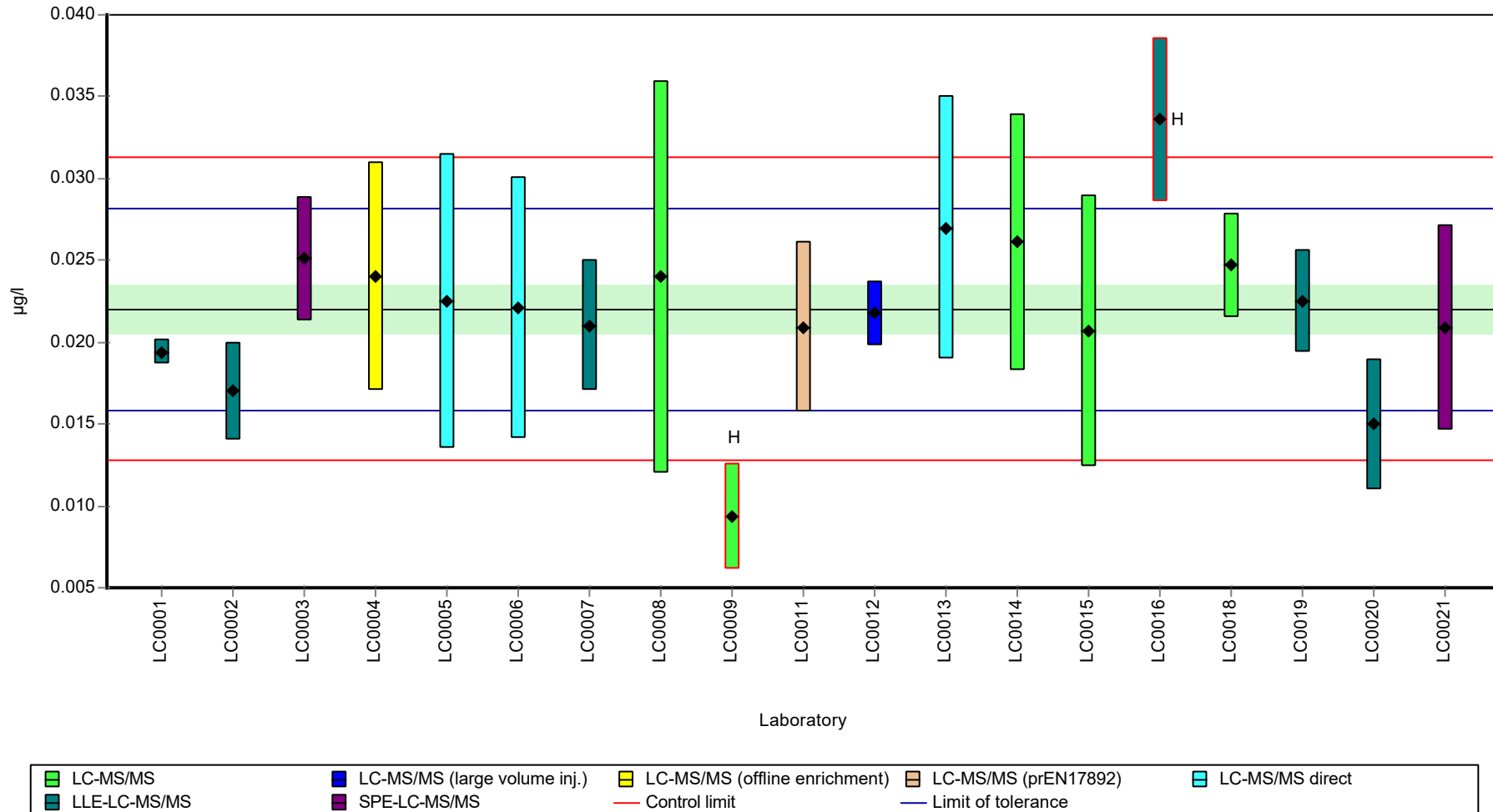
	all results	without outliers	Unit
Mean ± CI (99%)	0.022 ± 0.00343	0.022 ± 0.00225	µg/l
Minimum	0.00934	0.015	µg/l
Maximum	0.0336	0.027	µg/l
Standard deviation	0.00499	0.00309	µg/l
rel. standard deviation	22.7	14 %	
n	19	17	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Graphical presentation of results

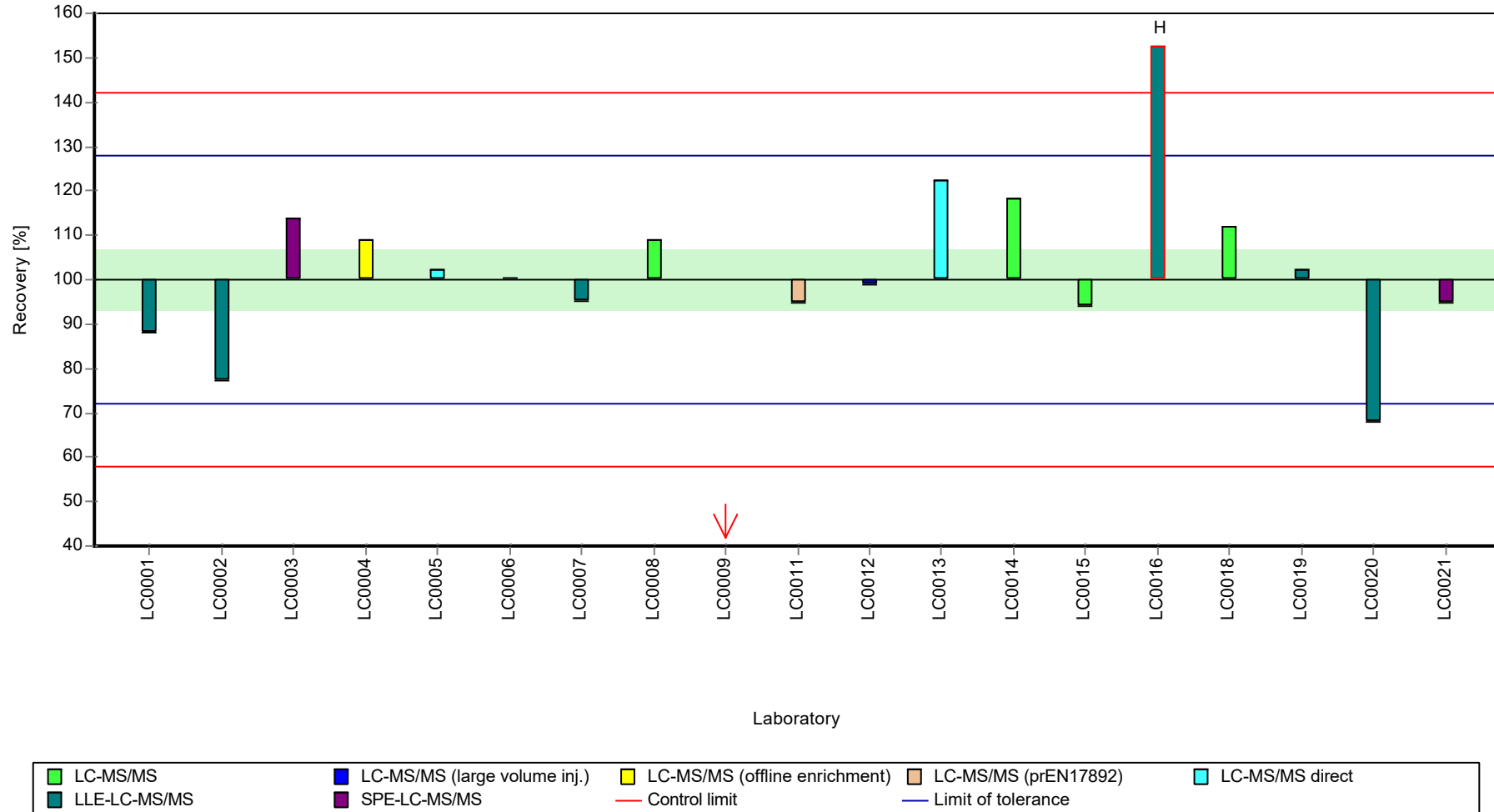
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

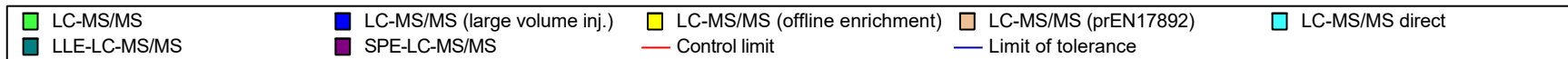
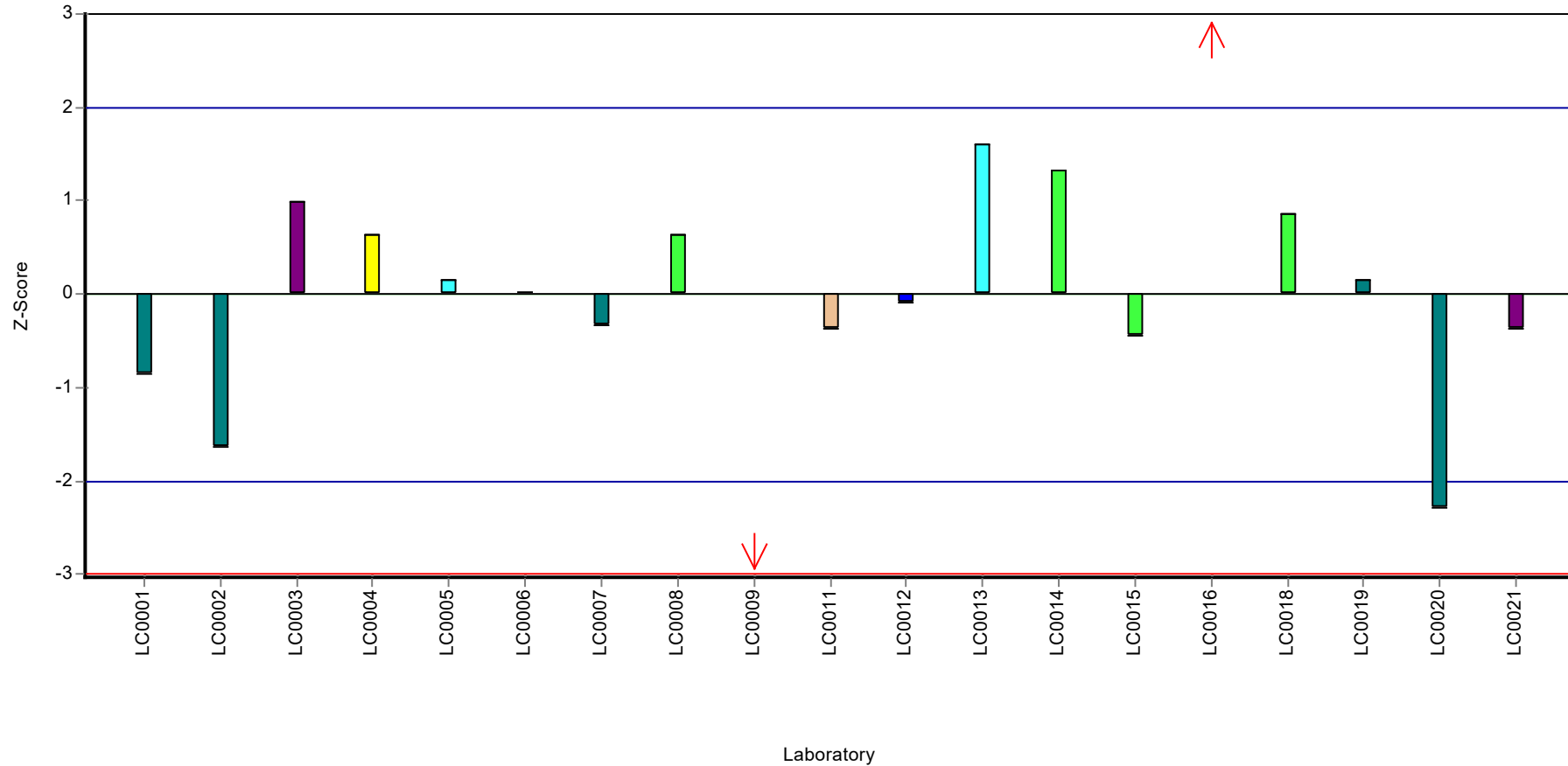
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

## Parameter oriented report

### PF01 B

#### Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Unit	µg/l
Assigned value ± U (k=2)	0.039 ± 0.00409
Criterion	0.00898 (23 %)
Minimum - Maximum	0.0167 - 0.0537
Control test value ± U (k=2)	0.0328 ± 0.0148

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0385	0.0015	98.6	-0.06	
LC0002	0.025	0.003	64	-1.56	
LC0003	0.0537	0.0081	138	1.63	
LC0004	0.045	0.014	115	0.66	
LC0005	0.0441	0.0177	113	0.56	
LC0006	0.0364	0.01309	93.2	-0.29	
LC0007	0.035	0.007	89.6	-0.45	
LC0008	0.039	0.012	99.9	0.00	
LC0009	0.0167	0.00585	42.8	-2.49	
LC0010	-	-	-	-	
LC0011	0.0355	0.0089	90.9	-0.39	
LC0012	0.0365	0.00329	93.5	-0.28	
LC0013	0.047	0.014	120	0.89	
LC0014	0.0486	0.0146	124	1.06	
LC0015	0.0459	0.0184	118	0.76	
LC0016	0.0487	0.007	125	1.08	
LC0017	-	-	-	-	
LC0018	0.0427	0.0054	109	0.41	
LC0019	0.0398	0.0056	102	0.08	
LC0020	0.032	0.01	82	-0.78	
LC0021	0.0317	0.0095	81.2	-0.82	

#### Characteristics of parameter

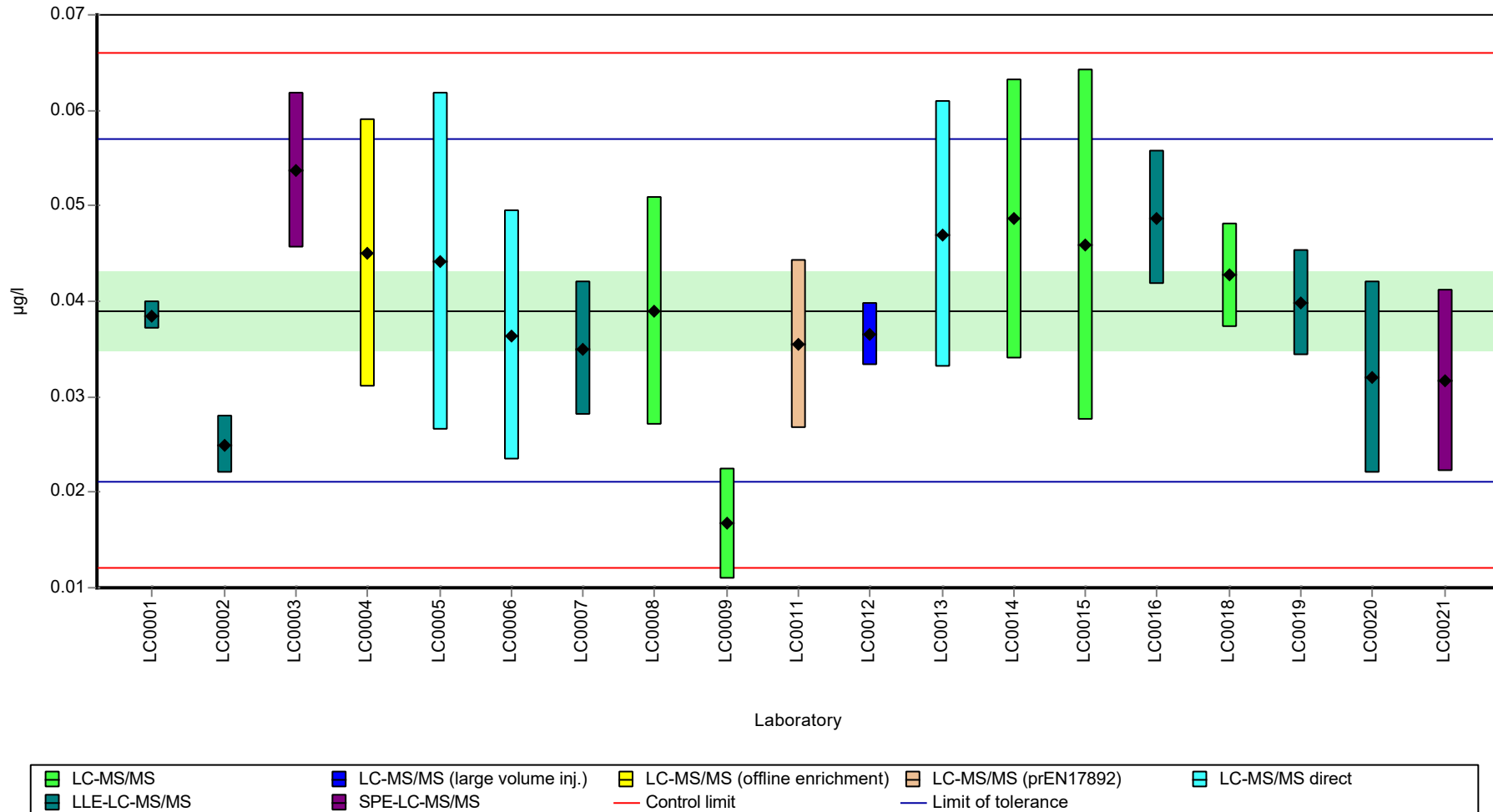
	all results	without outliers	Unit
Mean ± CI (99%)	0.039 ± 0.00613	0.039 ± 0.00613	µg/l
Minimum	0.0167	0.0167	µg/l
Maximum	0.0537	0.0537	µg/l
Standard deviation	0.0089	0.0089	µg/l
rel. standard deviation	22.8	22.8	%
n	19	19	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Graphical presentation of results

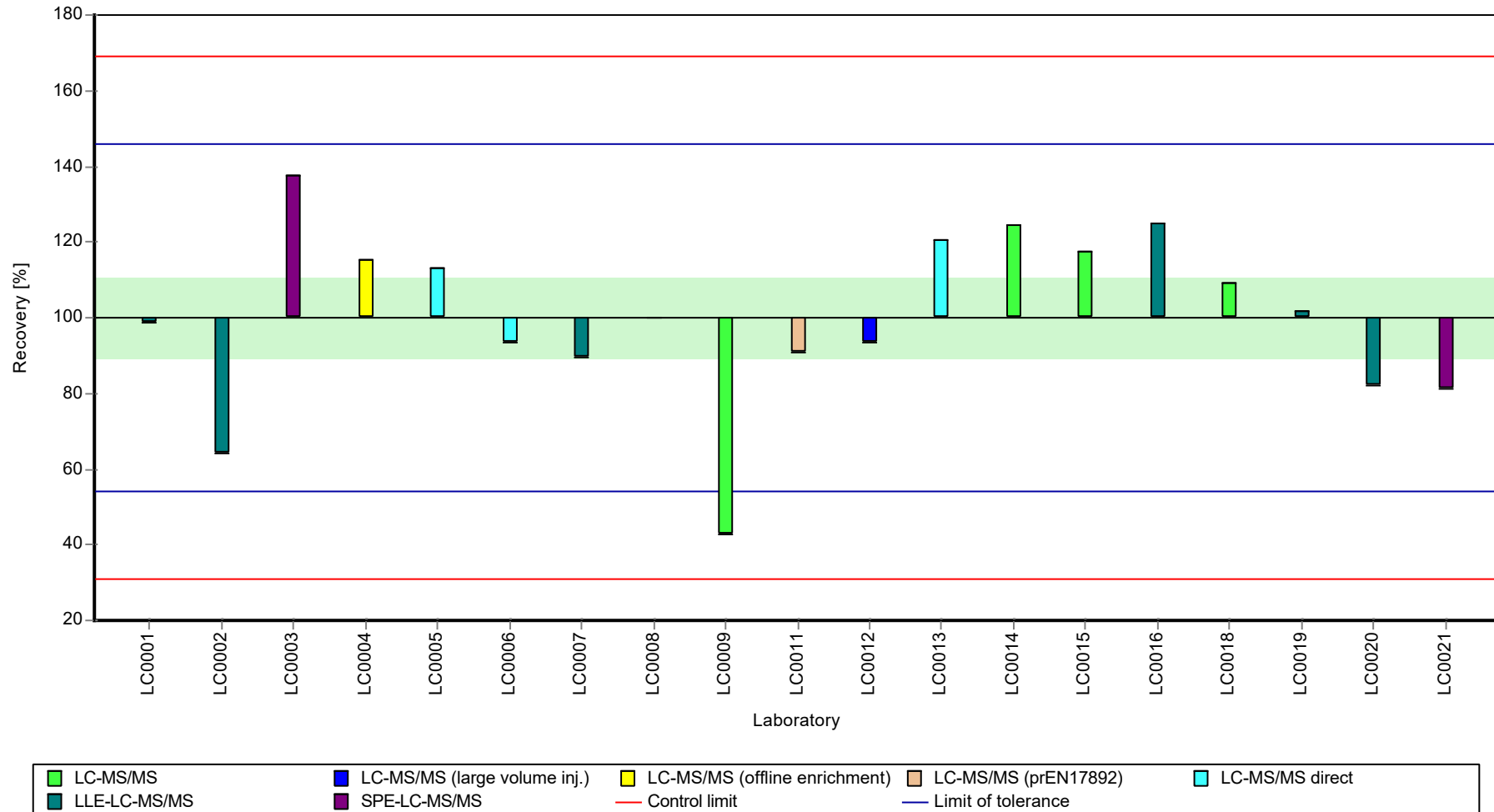
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

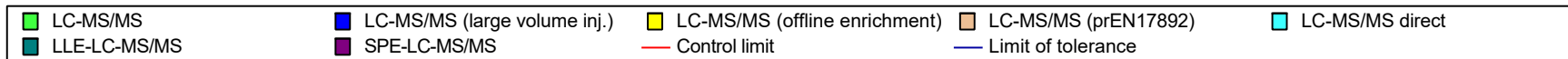
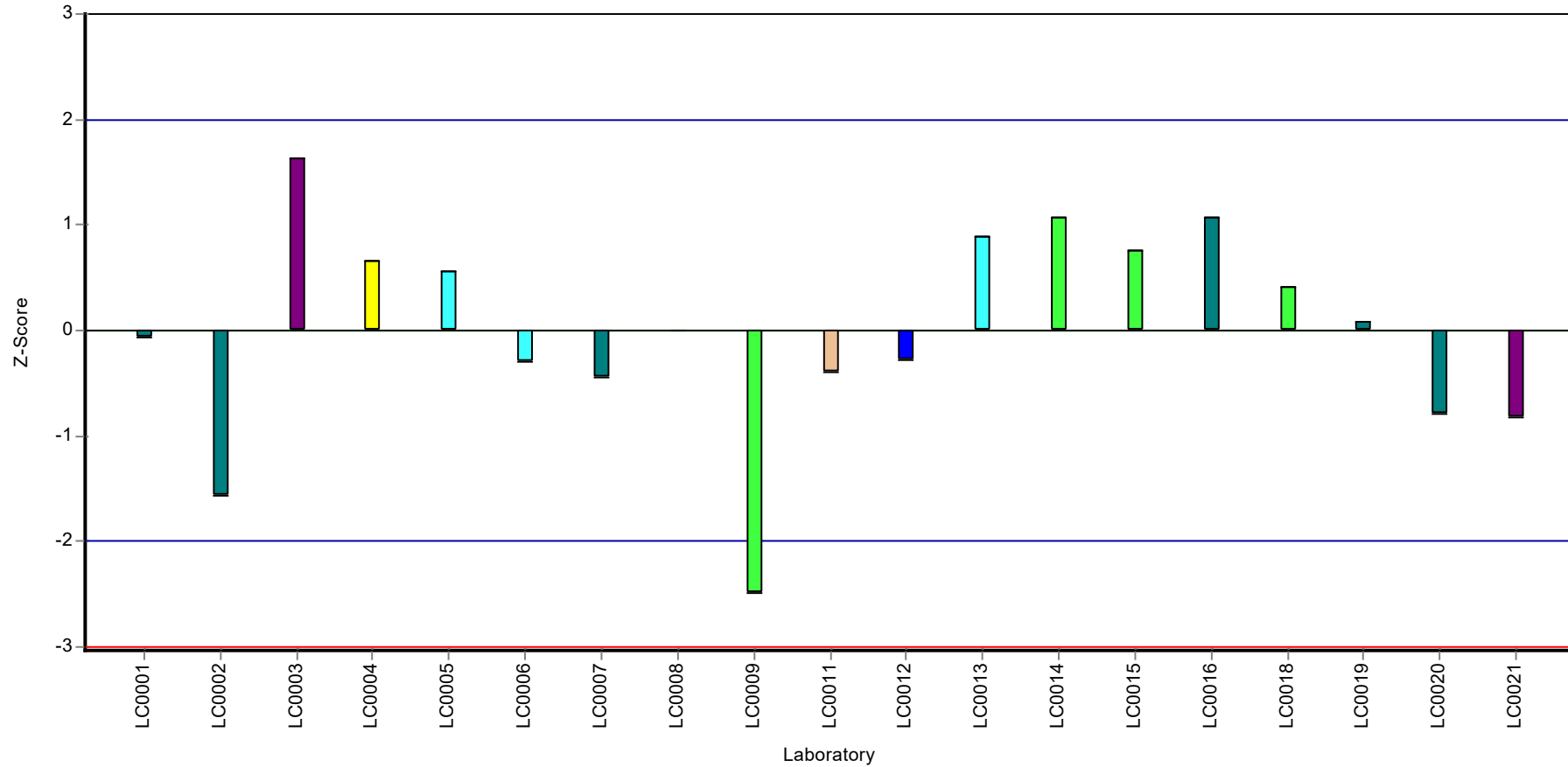
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroheptane sulfonic acid (PFHpS) - PF7S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

## Parameter oriented report

### PF01 A

#### Perfluorooctane sulfonic acid (PFOS) - PF8S

Unit	µg/l
Assigned value ± U (k=2)	0.0443 ± 0.00302
Criterion	0.00665 (15 %)
Minimum - Maximum	0.035 - 0.0582
Control test value ± U (k=2)	0.0468 ± 0.0187

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.0567	0.0023	128	1.86	
LC0002	0.035	0.002	79	-1.4	
LC0003	0.038	0.0057	85.8	-0.95	
LC0004	0.035	0.011	79	-1.4	
LC0005	0.0462	0.0185	104	0.28	
LC0006	0.0431	0.01551	97.3	-0.18	
LC0007	0.046	0.009	104	0.25	
LC0008	0.041	0.013	92.5	-0.5	
LC0009	0.0153	0.00536	34.5	-4.36	H
LC0010	0.0444	0.0082	100	0.01	
LC0011	0.0409	0.0102	92.3	-0.51	
LC0012	0.04063	0.00366	91.7	-0.55	
LC0013	0.053	0.016	120	1.31	
LC0014	0.0454	0.0136	102	0.16	
LC0015	0.0391	0.0156	88.2	-0.78	
LC0016	0.0482	0.007	109	0.59	
LC0017	0.036	0.007	81.3	-1.25	
LC0018	0.0582	0.0281	131	2.09	
LC0019	0.0529	0.0085	119	1.29	
LC0020	0.043	0.013	97.1	-0.2	
LC0021	0.0434	0.013	98	-0.14	

#### Characteristics of parameter

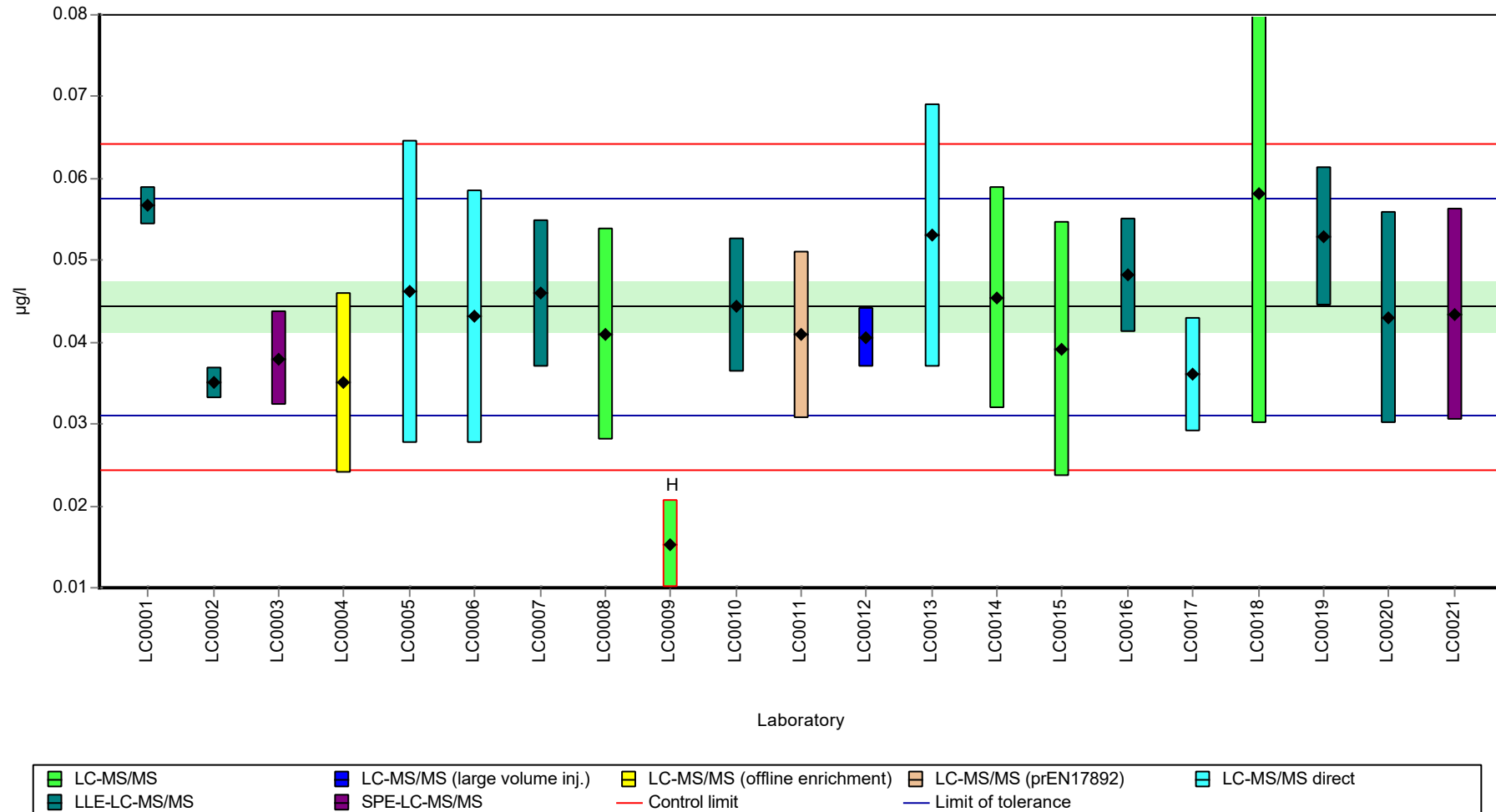
	all results	without outliers	Unit
Mean ± CI (99%)	0.0429 ± 0.00598	0.0443 ± 0.00453	µg/l
Minimum	0.0153	0.035	µg/l
Maximum	0.0582	0.0582	µg/l
Standard deviation	0.00914	0.00676	µg/l
rel. standard deviation	21.3	15.3	%
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

Graphical presentation of results

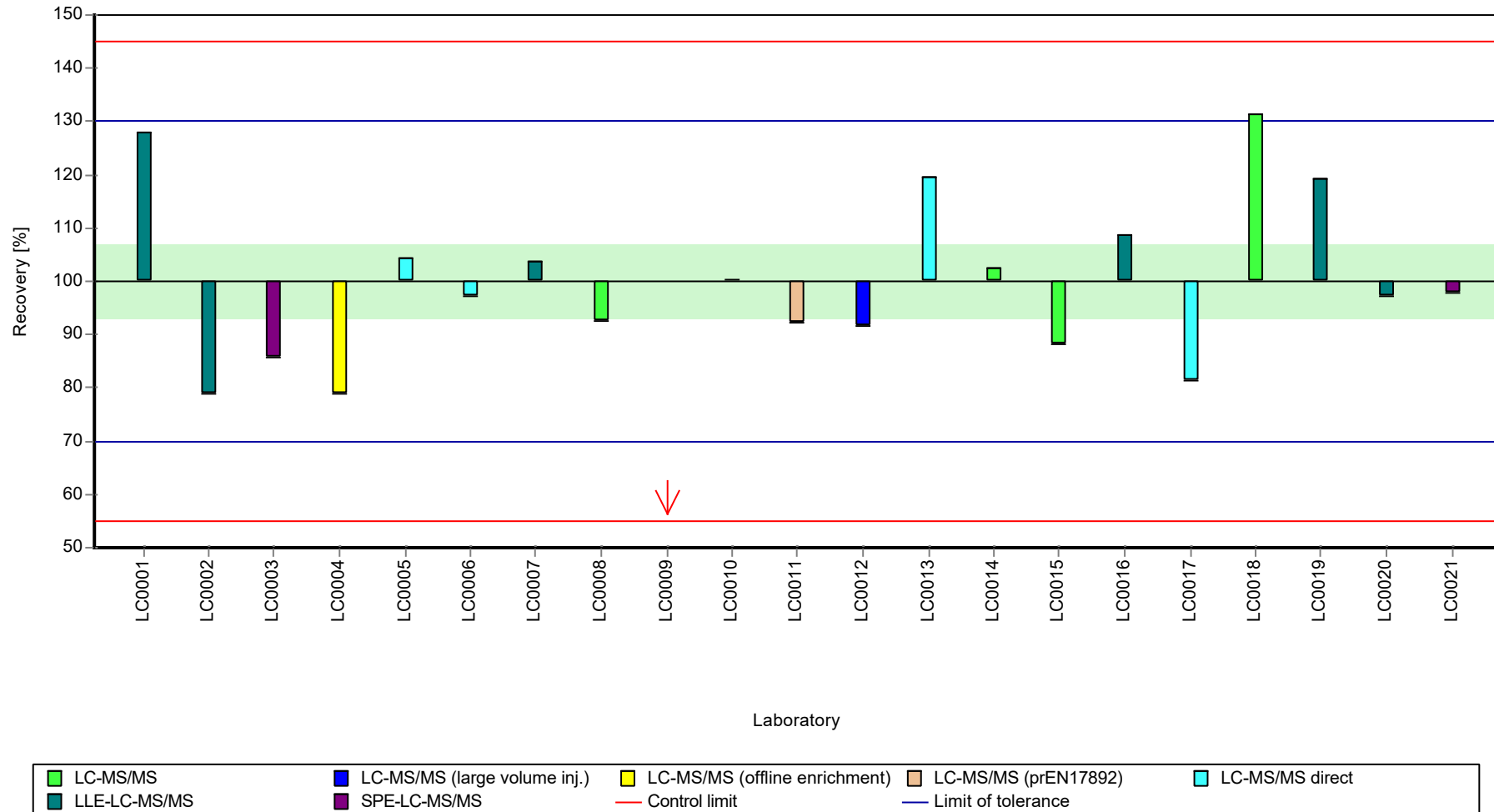
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

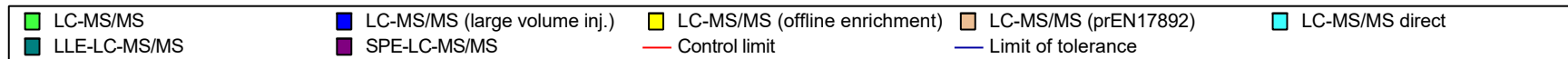
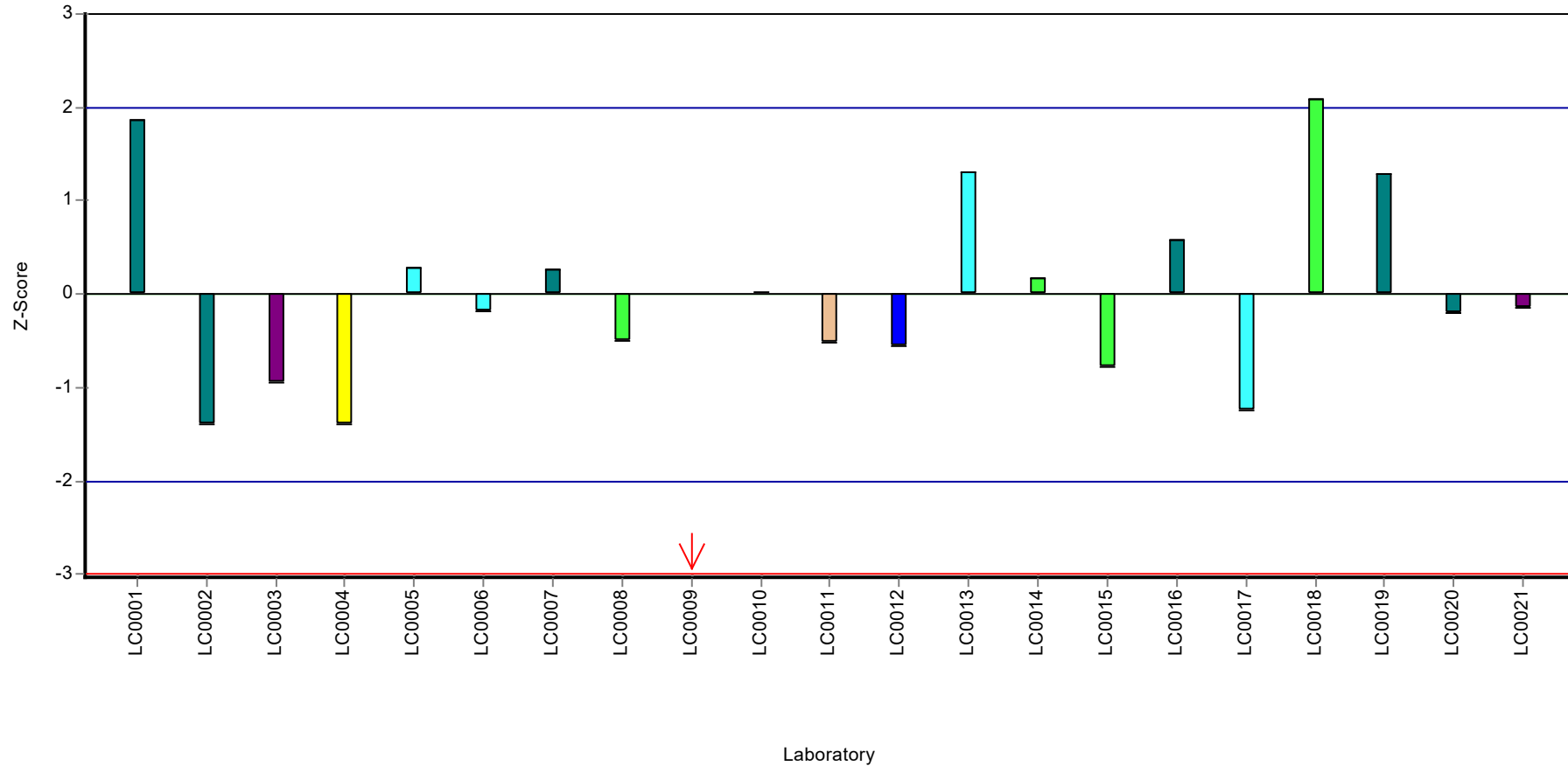
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

## Parameter oriented report

### PF01 B

#### Perfluorooctane sulfonic acid (PFOS) - PF8S

Unit	µg/l
Assigned value ± U (k=2)	0.118 ± 0.00961
Criterion	0.0213 (18 %)
Minimum - Maximum	0.08 - 0.161
Control test value ± U (k=2)	0.126 ± 0.0503

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.1614	0.0065	137	2.03	
LC0002	0.08	0.002	67.7	-1.8	
LC0003	0.0932	0.014	78.8	-1.18	
LC0004	0.083	0.025	70.2	-1.66	
LC0005	0.1224	0.049	104	0.2	
LC0006	0.1125	0.0405	95.1	-0.27	
LC0007	0.128	0.03	108	0.46	
LC0008	0.118	0.036	99.8	-0.01	
LC0009	0.0499	0.0175	42.2	-3.21	H
LC0010	0.145	0.0281	123	1.26	
LC0011	0.1131	0.0283	95.7	-0.24	
LC0012	0.10413	0.00937	88.1	-0.66	
LC0013	0.127	0.038	107	0.41	
LC0014	0.124	0.0373	105	0.27	
LC0015	0.1146	0.0458	96.9	-0.17	
LC0016	0.123	0.018	104	0.22	
LC0017	0.098	0.02	82.9	-0.95	
LC0018	0.1574	0.0761	133	1.84	
LC0019	0.136	0.0218	115	0.83	
LC0020	0.11	0.03	93	-0.39	
LC0021	0.114	0.034	96.4	-0.2	

#### Characteristics of parameter

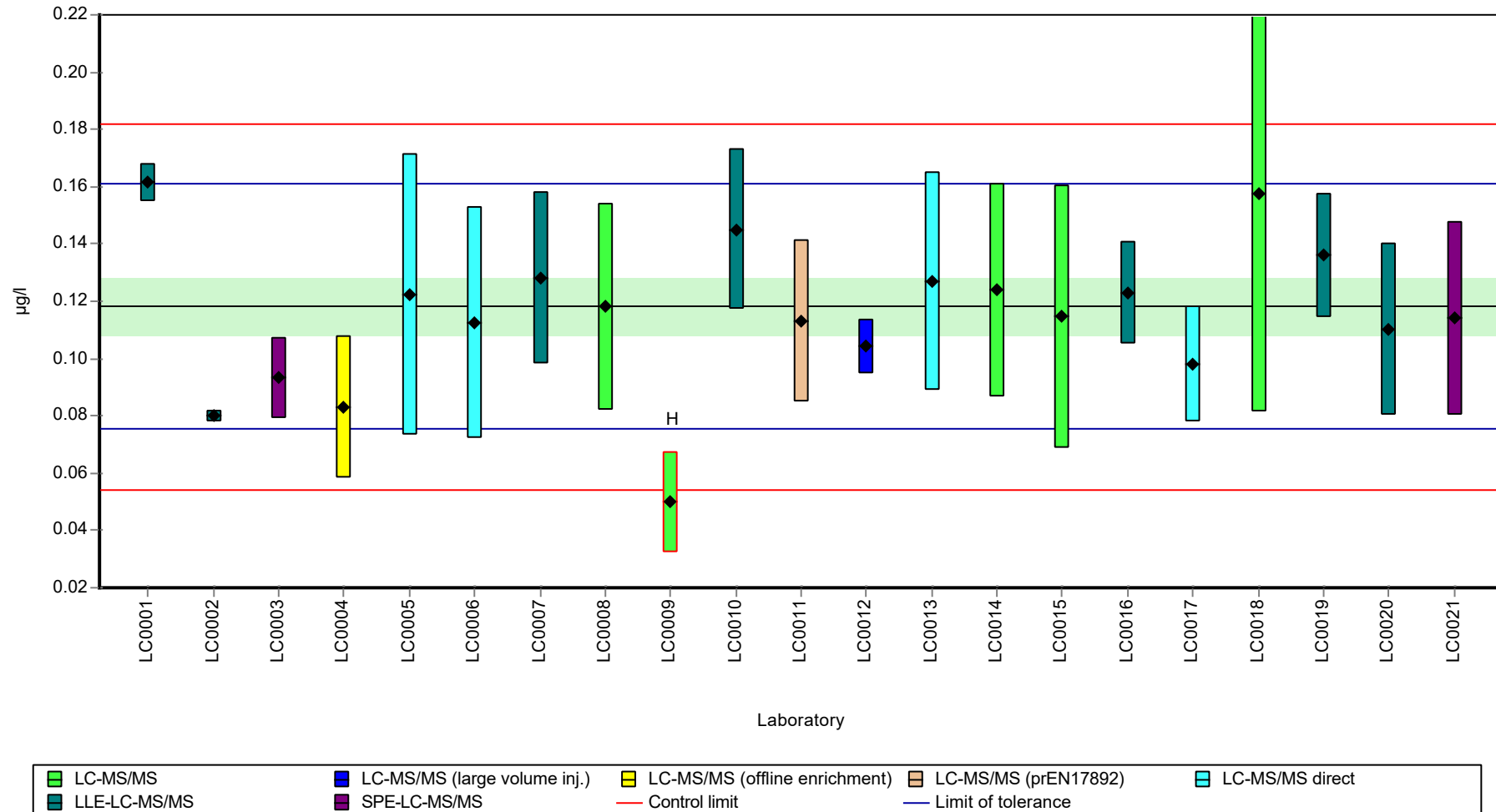
	all results	without outliers	Unit
Mean ± CI (99%)	0.115 ± 0.0168	0.118 ± 0.0144	µg/l
Minimum	0.0499	0.08	µg/l
Maximum	0.161	0.161	µg/l
Standard deviation	0.0257	0.0215	µg/l
rel. standard deviation	22.4	18.2 %	
n	21	20	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

Graphical presentation of results

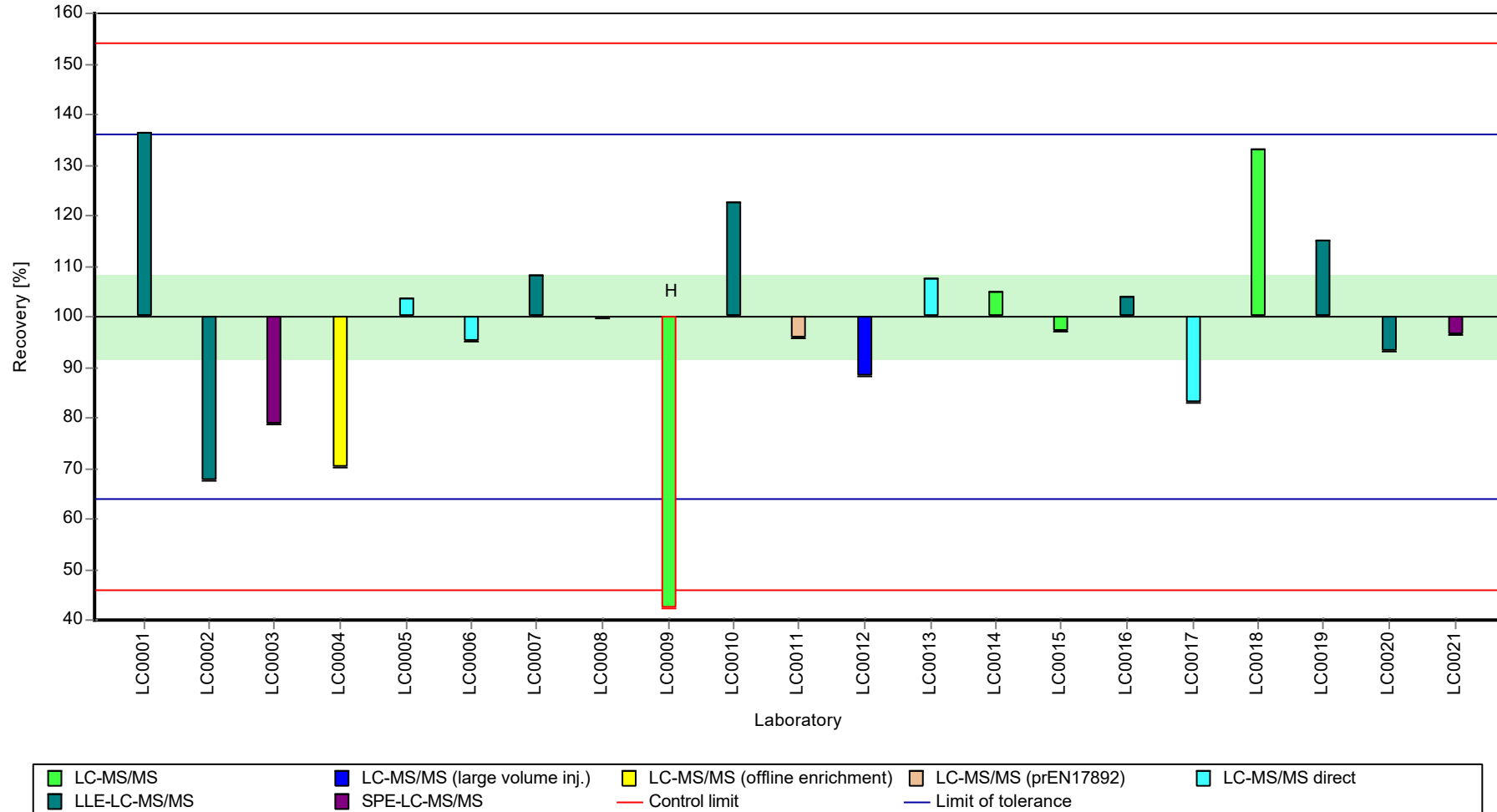
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

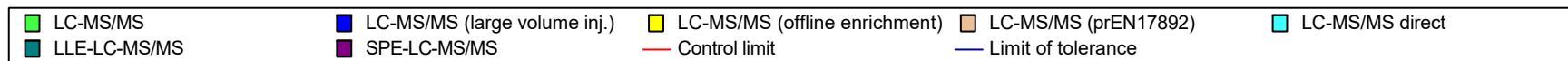
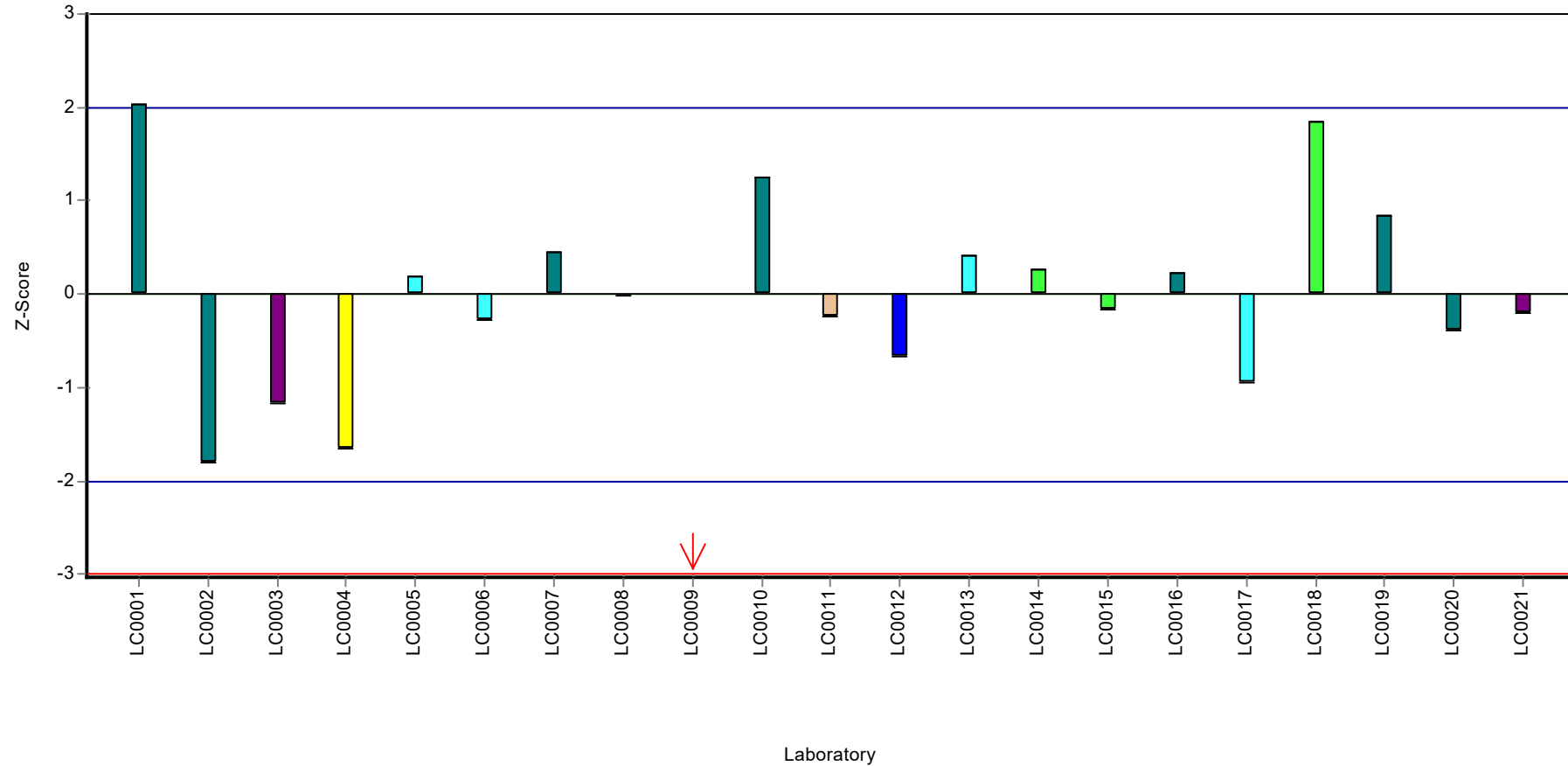
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorooctane sulfonic acid (PFOS) - PF8S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

## Parameter oriented report

### PF01 A

#### Perfluorononane sulfonic acid (PFNS) - PF9S

Unit	µg/l
Assigned value ± U (k=2)	0.0177 ± 0.00303
Criterion	0.00548 (31 %)
Minimum - Maximum	0.00703 - 0.028
Control test value ± U (k=2)	0.0148 ± 0.00517

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0302	0.0045	171	2.28	H
LC0004	0.016	0.005	90.5	-0.31	
LC0005	0.0162	0.0073	91.6	-0.27	
LC0006	0.0172	0.00621	97.2	-0.09	
LC0007	-	-	-	-	
LC0008	0.017	0.009	96.1	-0.13	
LC0009	0.00703	0.00246	39.7	-1.94	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.01981	0.00198	112	0.39	
LC0013	0.028	0.008	158	1.88	
LC0014	0.0252	0.00756	142	1.37	
LC0015	0.0162	0.0065	91.6	-0.27	
LC0016	0.0173	0.003	97.8	-0.07	
LC0017	-	-	-	-	
LC0018	0.0198	0.0084	112	0.39	
LC0019	0.0202	0.0045	114	0.46	
LC0020	0.01	0.003	56.5	-1.4	
LC0021	-	-	-	-	

#### Characteristics of parameter

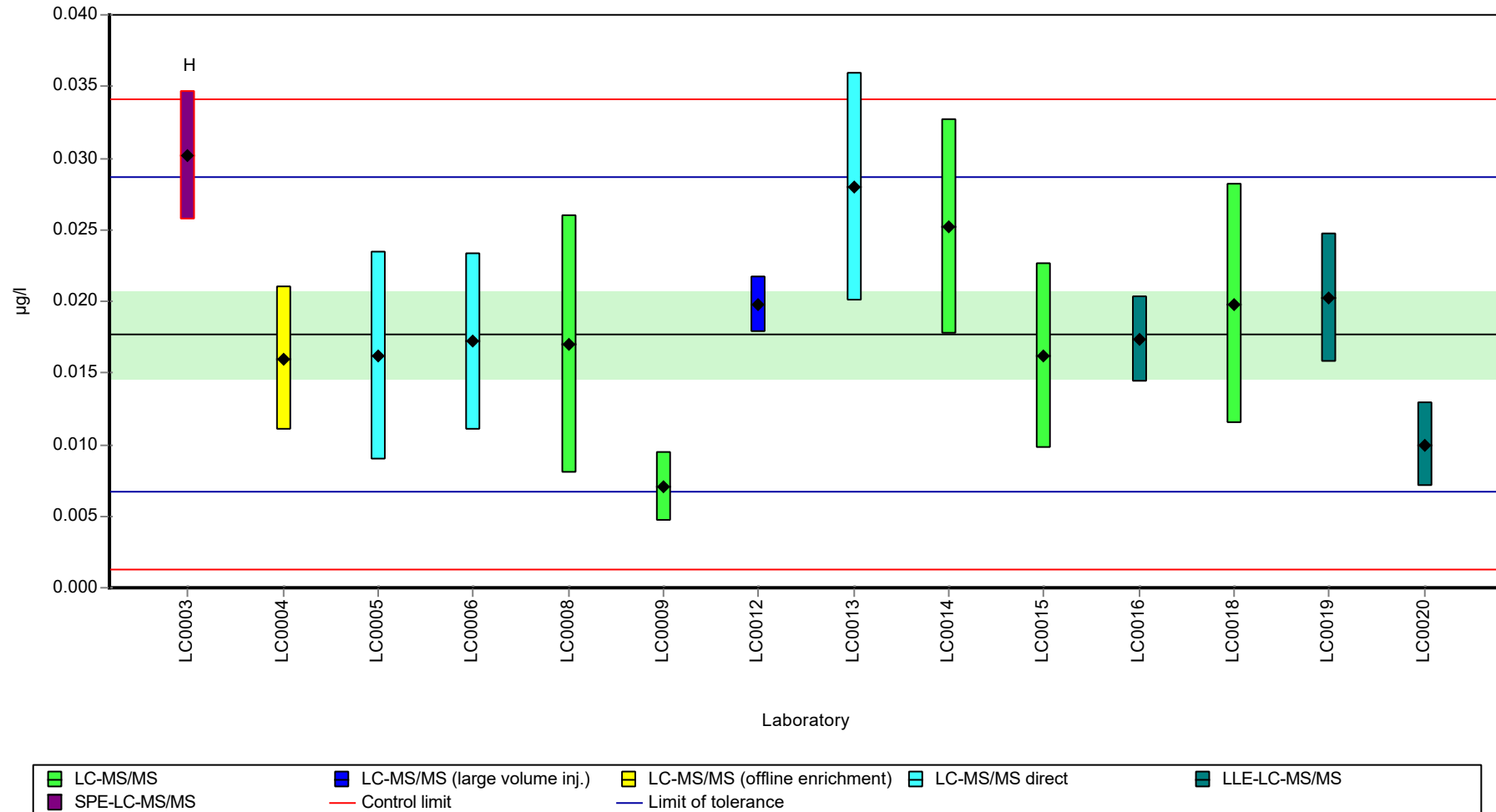
	all results	without outliers	Unit
Mean ± CI (99%)	0.0186 ± 0.00499	0.0177 ± 0.00455	µg/l
Minimum	0.00703	0.00703	µg/l
Maximum	0.0302	0.028	µg/l
Standard deviation	0.00623	0.00547	µg/l
rel. standard deviation	33.5	30.9 %	
n	14	13	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

Graphical presentation of results

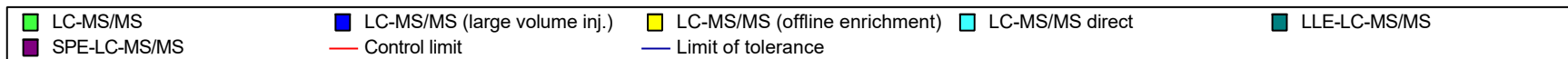
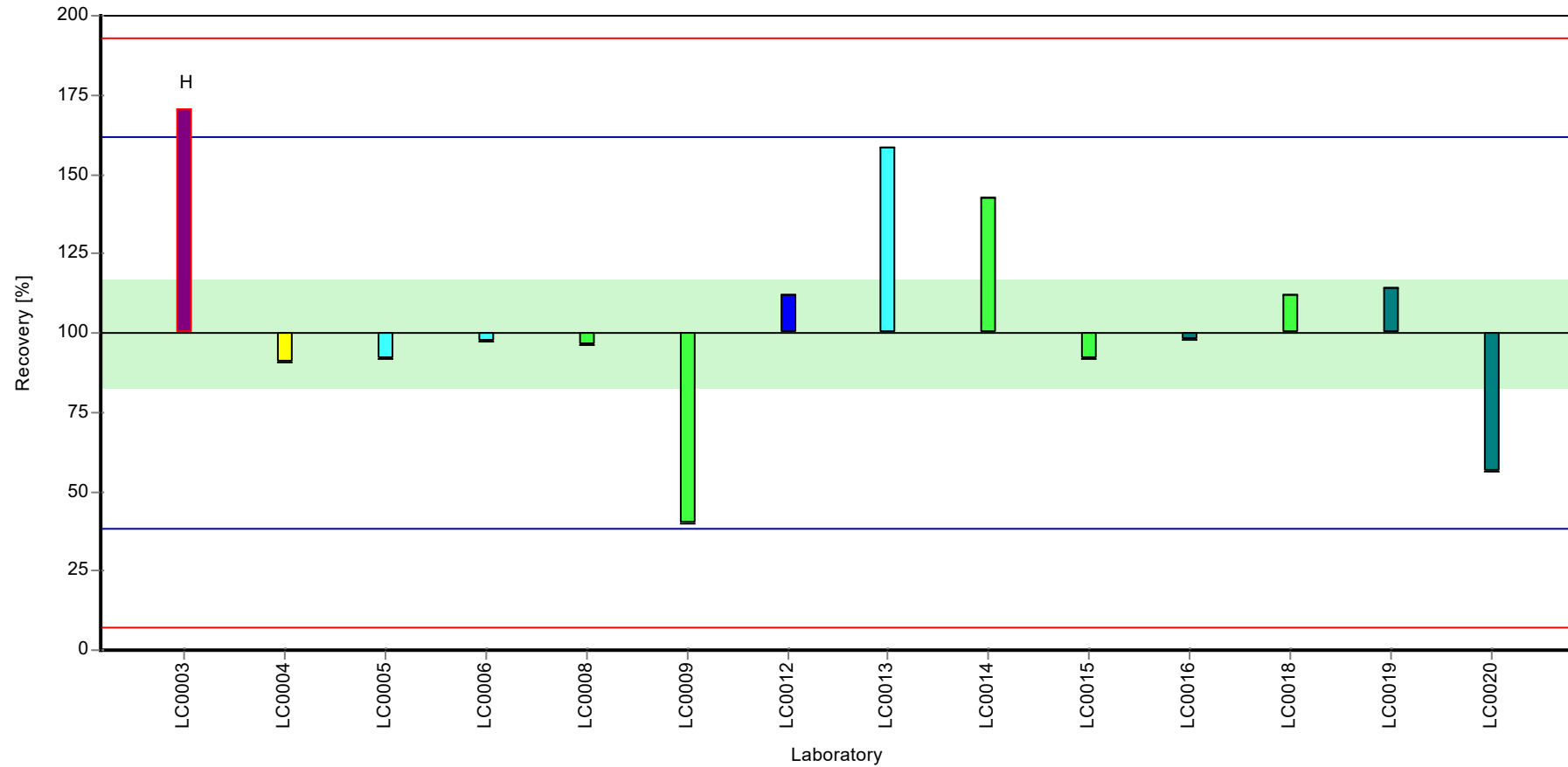
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

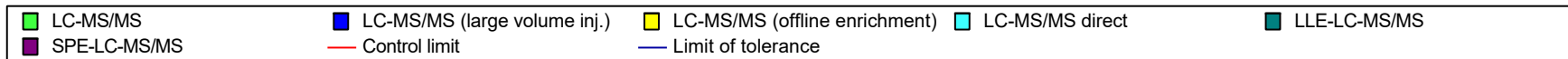
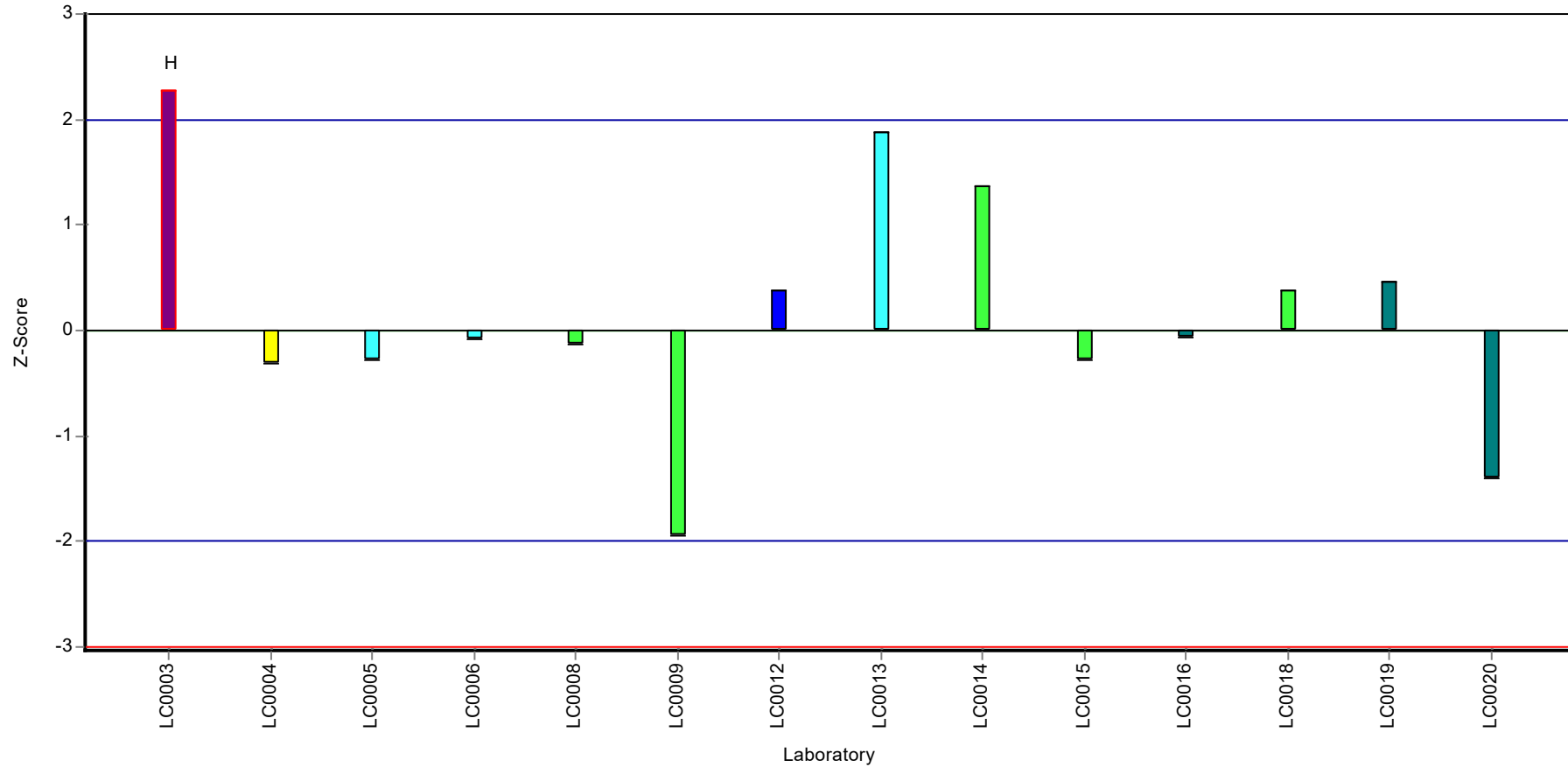
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

## Parameter oriented report

### PF01 B

#### Perfluorononane sulfonic acid (PFNS) - PF9S

Unit	µg/l
Assigned value ± U (k=2)	0.0915 ± 0.00999
Criterion	0.0174 (19 %)
Minimum - Maximum	0.066 - 0.134
Control test value ± U (k=2)	0.0939 ± 0.0329

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.17	0.026	186	4.51	H
LC0004	0.09	0.027	98.4	-0.09	
LC0005	0.0886	0.0399	96.8	-0.17	
LC0006	0.0962	0.03464	105	0.27	
LC0007	-	-	-	-	
LC0008	0.089	0.027	97.3	-0.14	
LC0009	0.0398	0.0139	43.5	-2.97	H
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.09321	0.00932	102	0.1	
LC0013	0.134	0.04	146	2.44	
LC0014	0.108	0.0325	118	0.95	
LC0015	0.086	0.0344	94	-0.32	
LC0016	0.077	0.012	84.1	-0.83	
LC0017	-	-	-	-	
LC0018	0.075	0.0317	82	-0.95	
LC0019	0.0951	0.0209	104	0.21	
LC0020	0.066	0.02	72.1	-1.47	
LC0021	-	-	-	-	

#### Characteristics of parameter

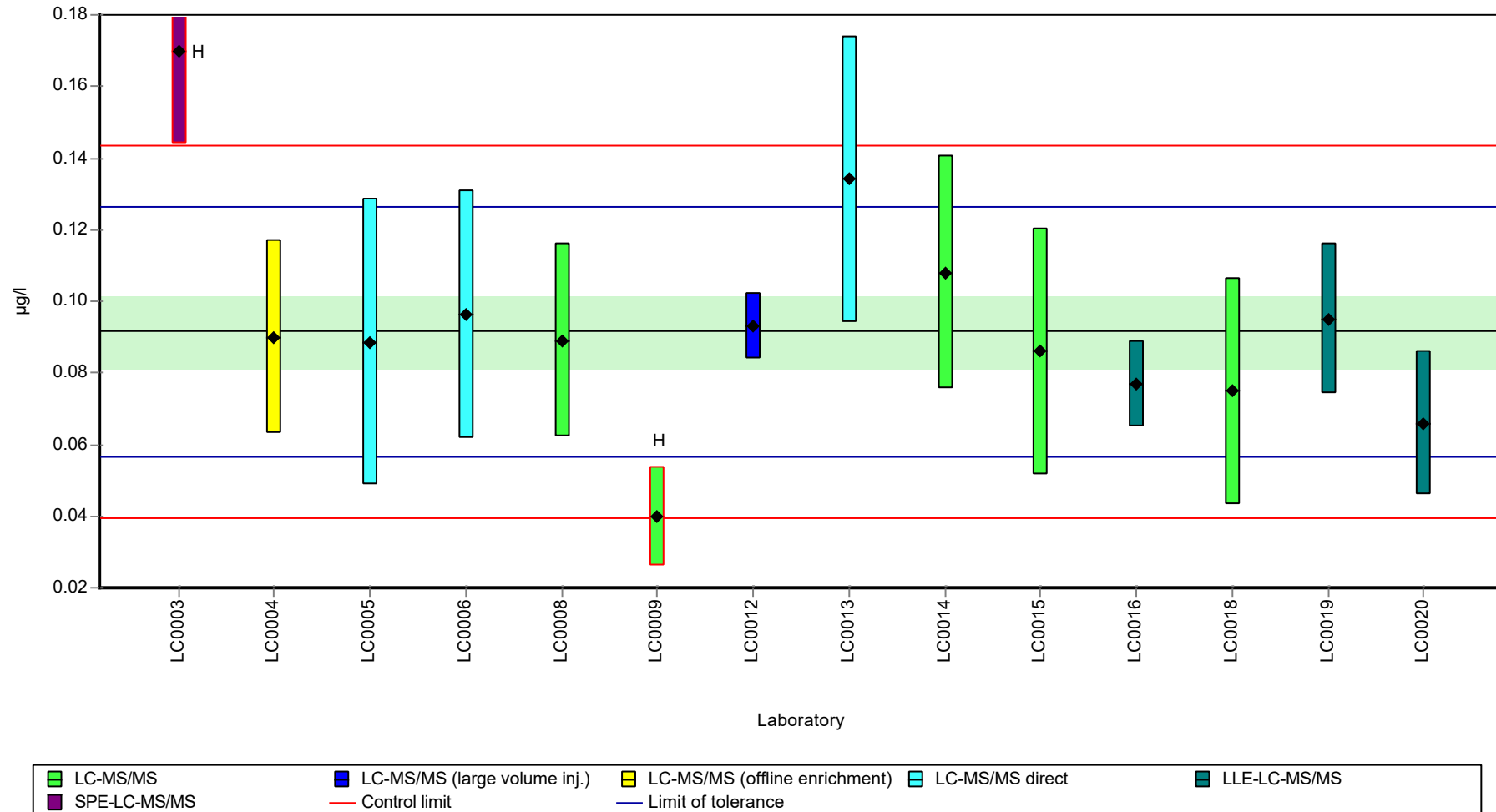
	all results	without outliers	Unit
Mean ± CI (99%)	0.0934 ± 0.0244	0.0915 ± 0.015	µg/l
Minimum	0.0398	0.066	µg/l
Maximum	0.17	0.134	µg/l
Standard deviation	0.0305	0.0173	µg/l
rel. standard deviation	32.6	18.9 %	
n	14	12	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

Graphical presentation of results

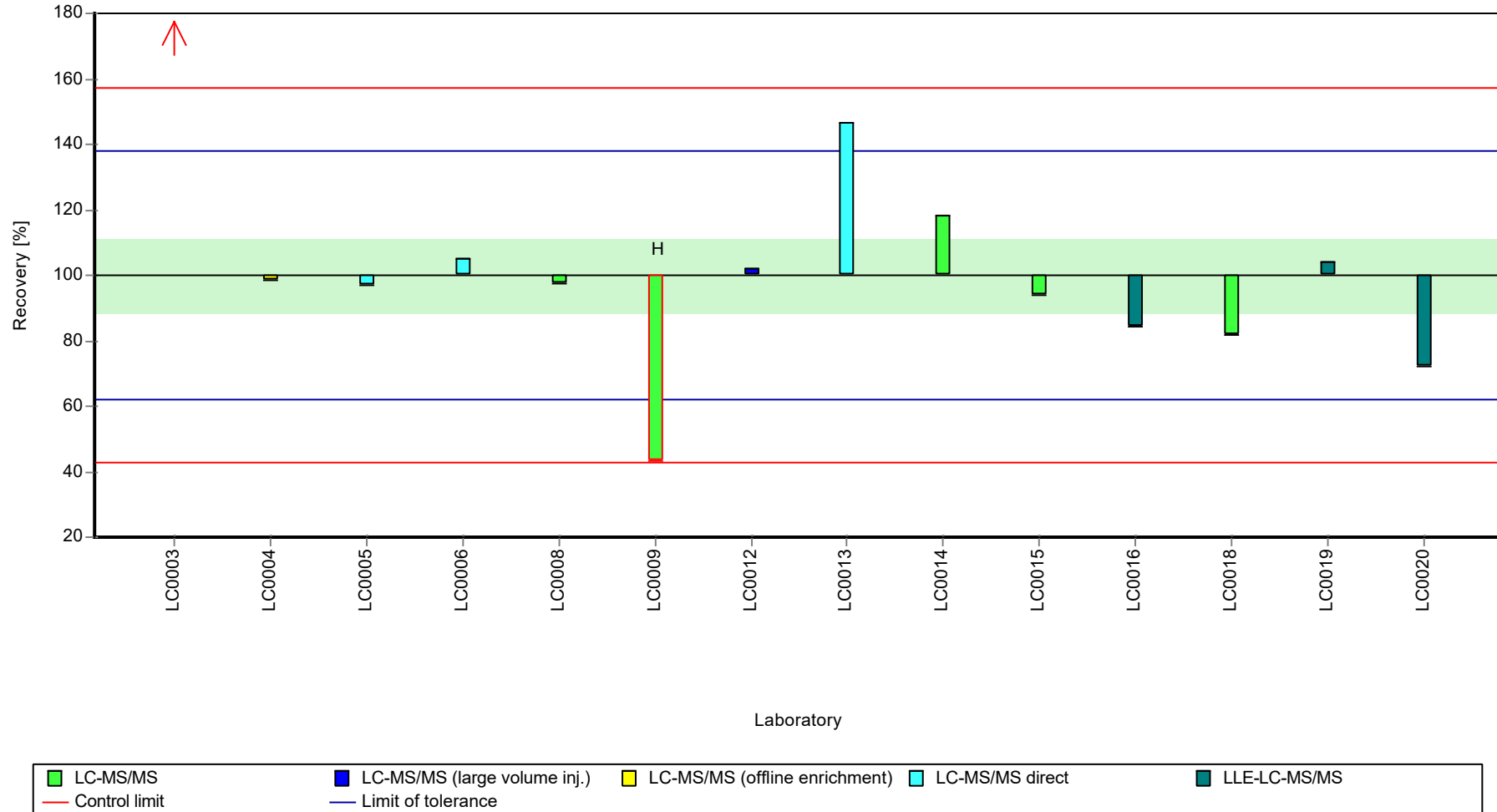
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

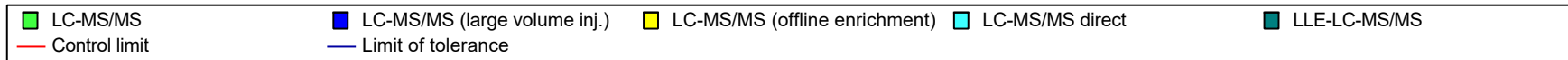
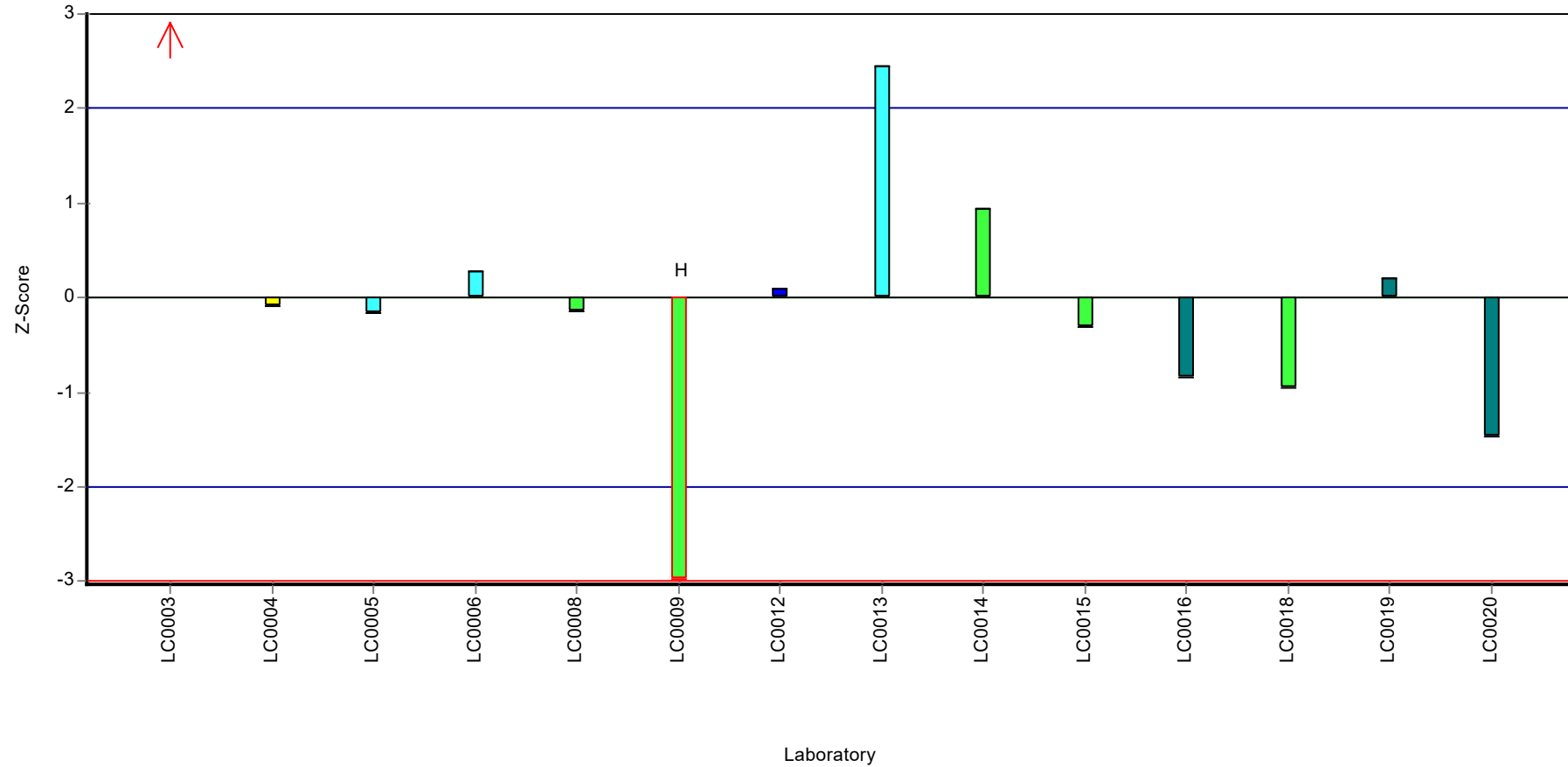
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorononane sulfonic acid (PFNS) - PF9S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

## Parameter oriented report

### PF01 A

#### Perfluorodecane sulfonic acid (PFDS) - PF10S

Unit	µg/l
Assigned value ± U (k=2)	0.02 ± 0.00244
Criterion	0.0048 (24 %)
Minimum - Maximum	0.00926 - 0.029
Control test value ± U (k=2)	0.0149 ± 0.00669

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.029	0.0043	145	1.88	
LC0004	0.019	0.006	95	-0.21	
LC0005	0.02	0.008	100	0	
LC0006	0.0195	0.00703	97.5	-0.1	
LC0007	0.022	0.004	110	0.42	
LC0008	0.02	0.01	100	0	
LC0009	0.00926	0.00324	46.3	-2.24	
LC0010	-	-	-	-	
LC0011	0.0172	0.0043	86	-0.58	
LC0012	0.025	0.0025	125	1.04	
LC0013	0.042	0.013	210	4.58	H
LC0014	0.0475	0.0143	238	5.73	H
LC0015	0.0227	0.0091	114	0.56	
LC0016	0.0177	0.003	88.5	-0.48	
LC0017	0.02	0.004	100	0	
LC0018	0.0219	0.0106	110	0.4	
LC0019	0.0237	0.009	119	0.77	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	0.013	0.0039	65	-1.46	

#### Characteristics of parameter

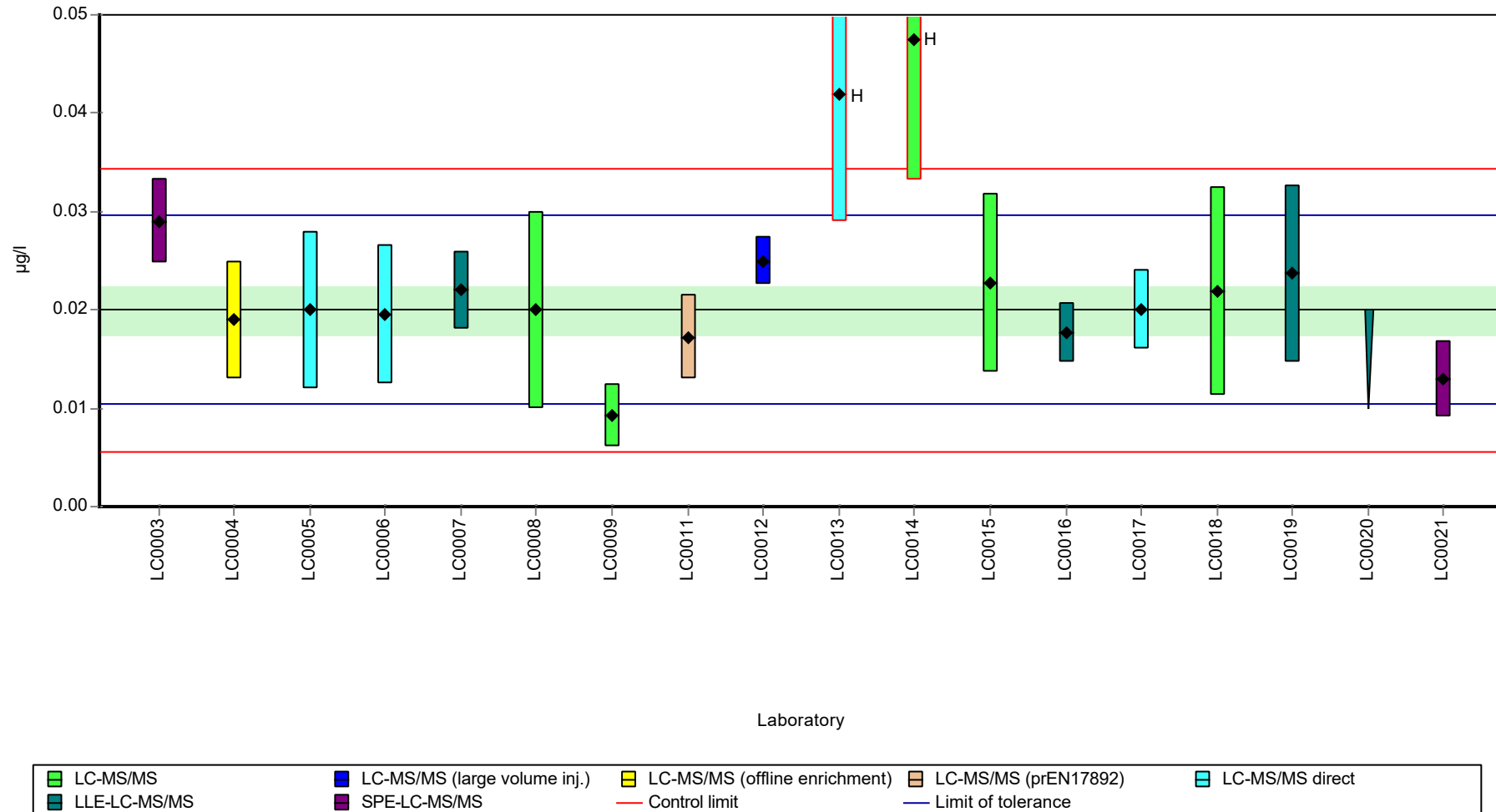
	all results	without outliers	Unit
Mean ± CI (99%)	0.0229 ± 0.00683	0.02 ± 0.00366	µg/l
Minimum	0.00926	0.00926	µg/l
Maximum	0.0475	0.029	µg/l
Standard deviation	0.00939	0.00473	µg/l
rel. standard deviation	41	23.7 %	
n	17	15	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

Graphical presentation of results

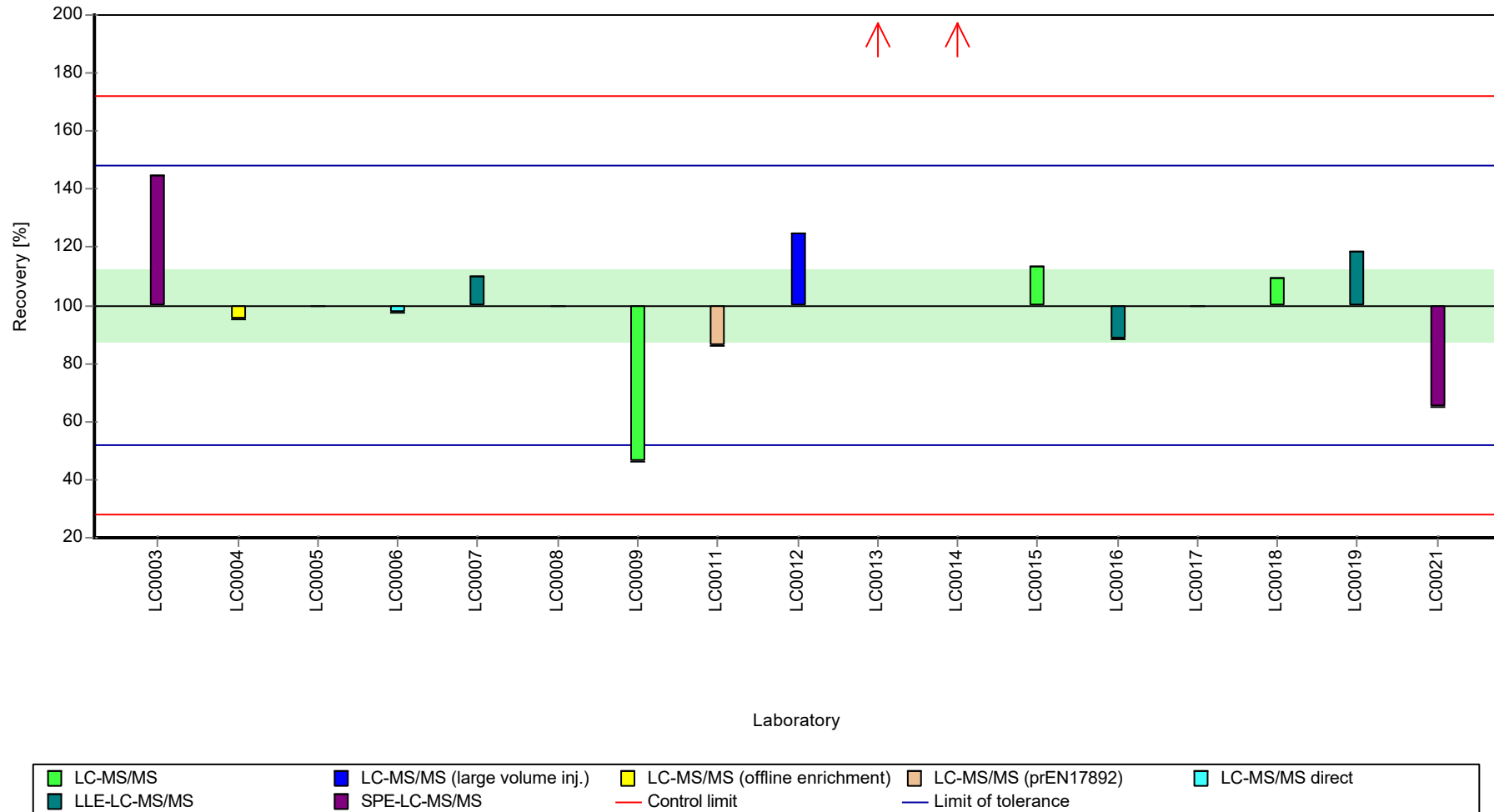
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

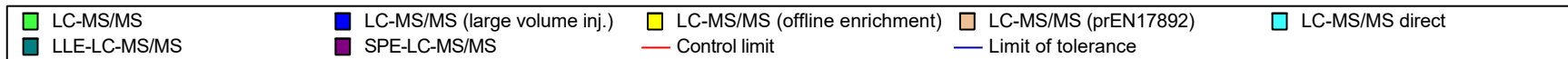
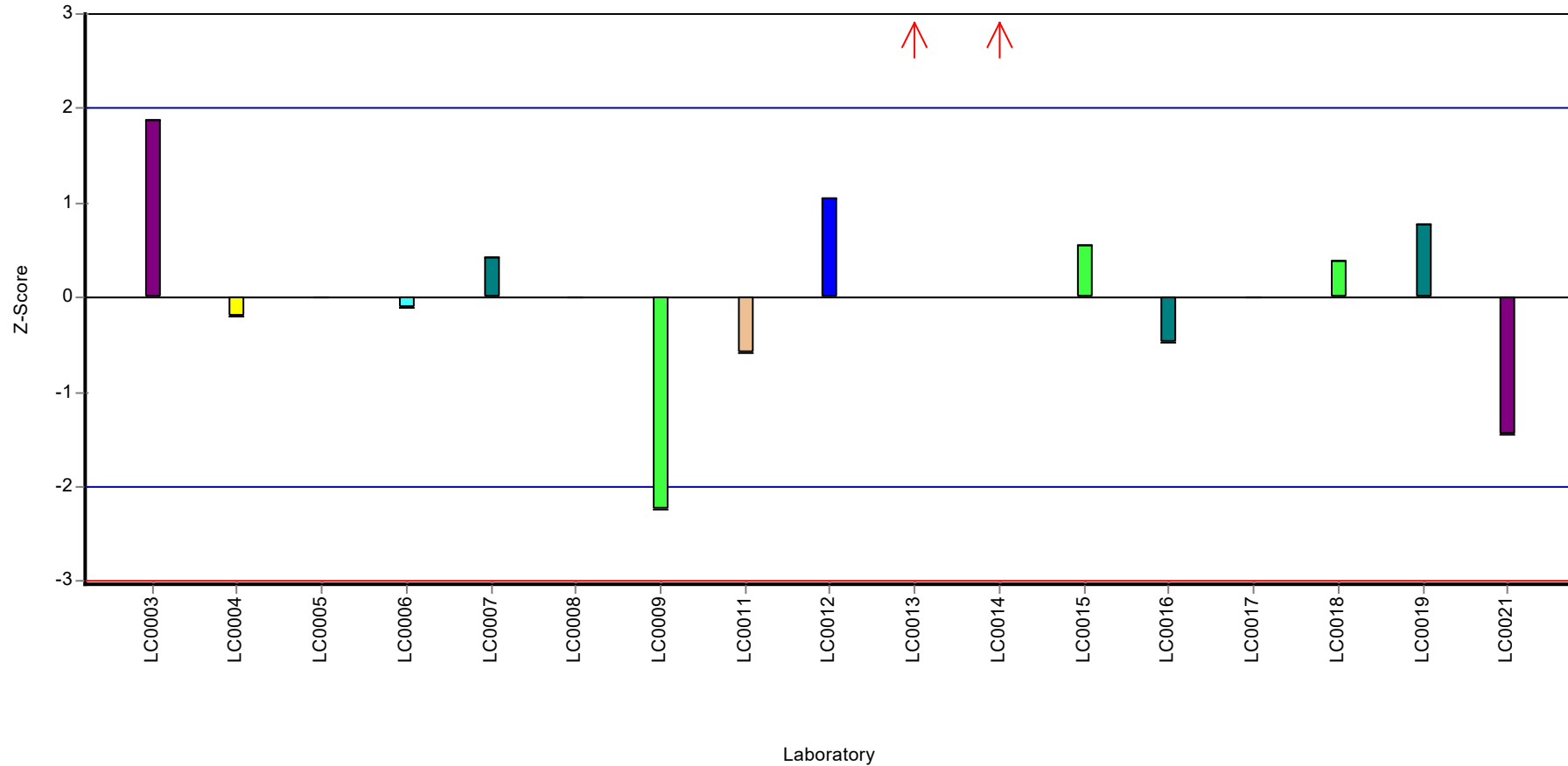
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

## Parameter oriented report

### PF01 B

#### Perfluorodecane sulfonic acid (PFDS) - PF10S

Unit	µg/l
Assigned value ± U (k=2)	0.0561 ± 0.00765
Criterion	0.0157 (28 %)
Minimum - Maximum	0.0271 - 0.0799
Control test value ± U (k=2)	0.0468 ± 0.0211

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0799	0.012	142	1.52	
LC0004	0.067	0.02	119	0.69	
LC0005	0.0595	0.0238	106	0.22	
LC0006	0.0764	0.02749	136	1.29	
LC0007	0.064	0.01	114	0.5	
LC0008	0.055	0.017	98.1	-0.07	
LC0009	0.0271	0.00949	48.3	-1.85	
LC0010	-	-	-	-	
LC0011	0.051	0.0128	90.9	-0.32	
LC0012	0.05868	0.00587	105	0.16	
LC0013	0.075	0.023	134	1.2	
LC0014	0.112	0.0335	200	3.56	H
LC0015	0.0636	0.0254	113	0.48	
LC0016	0.0458	0.007	81.7	-0.66	
LC0017	0.054	0.011	96.3	-0.13	
LC0018	0.0437	0.0211	77.9	-0.79	
LC0019	0.0678	0.0258	121	0.75	
LC0020	0.031	0.009	55.3	-1.6	
LC0021	0.0341	0.0102	60.8	-1.4	

#### Characteristics of parameter

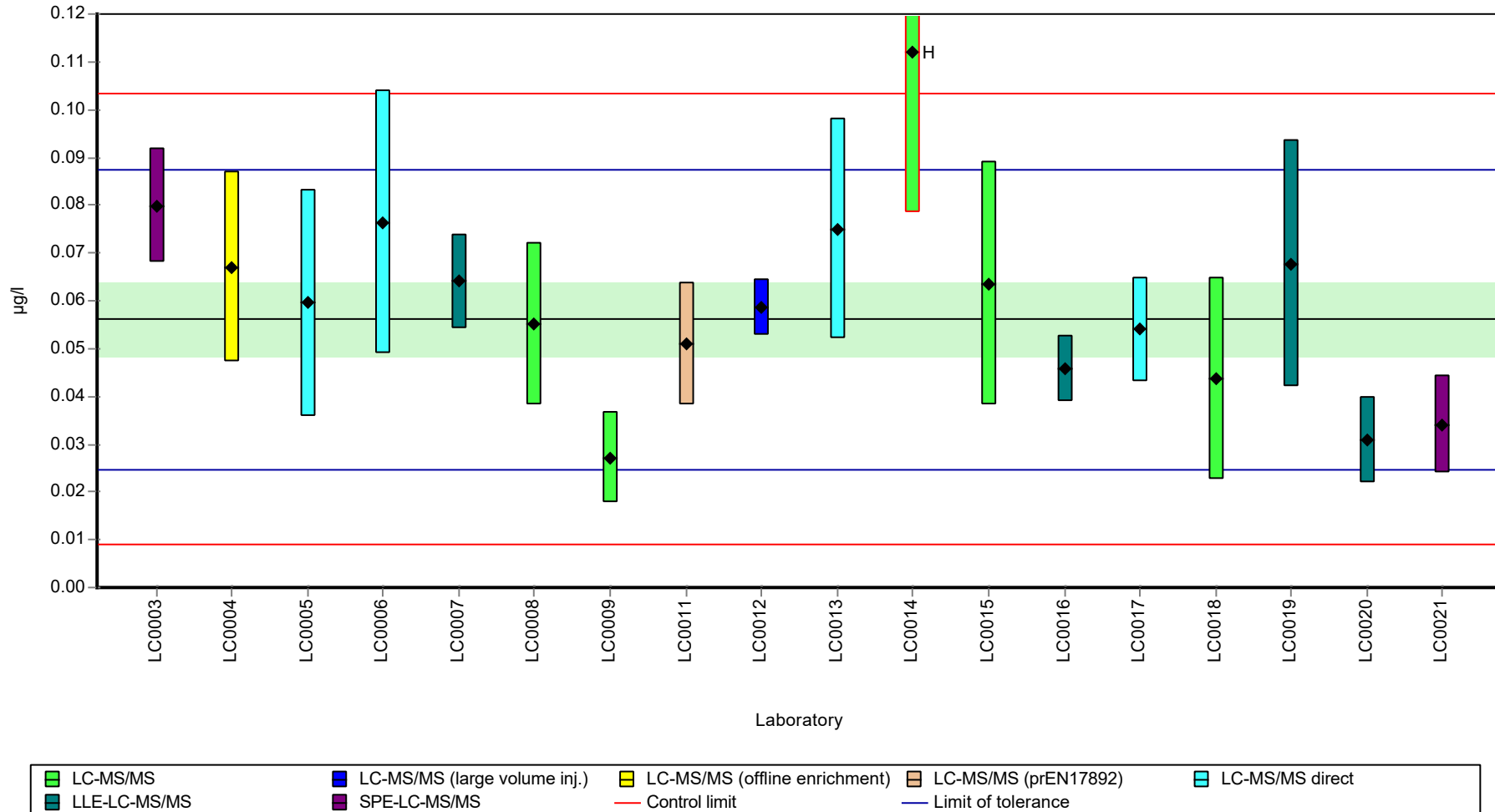
	all results	without outliers	Unit
Mean ± CI (99%)	0.0592 ± 0.0143	0.0561 ± 0.0115	µg/l
Minimum	0.0271	0.0271	µg/l
Maximum	0.112	0.0799	µg/l
Standard deviation	0.0202	0.0158	µg/l
rel. standard deviation	34.1	28.1	%
n	18	17	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

Graphical presentation of results

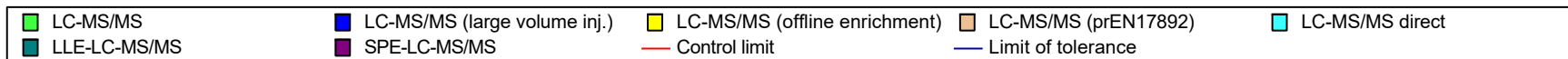
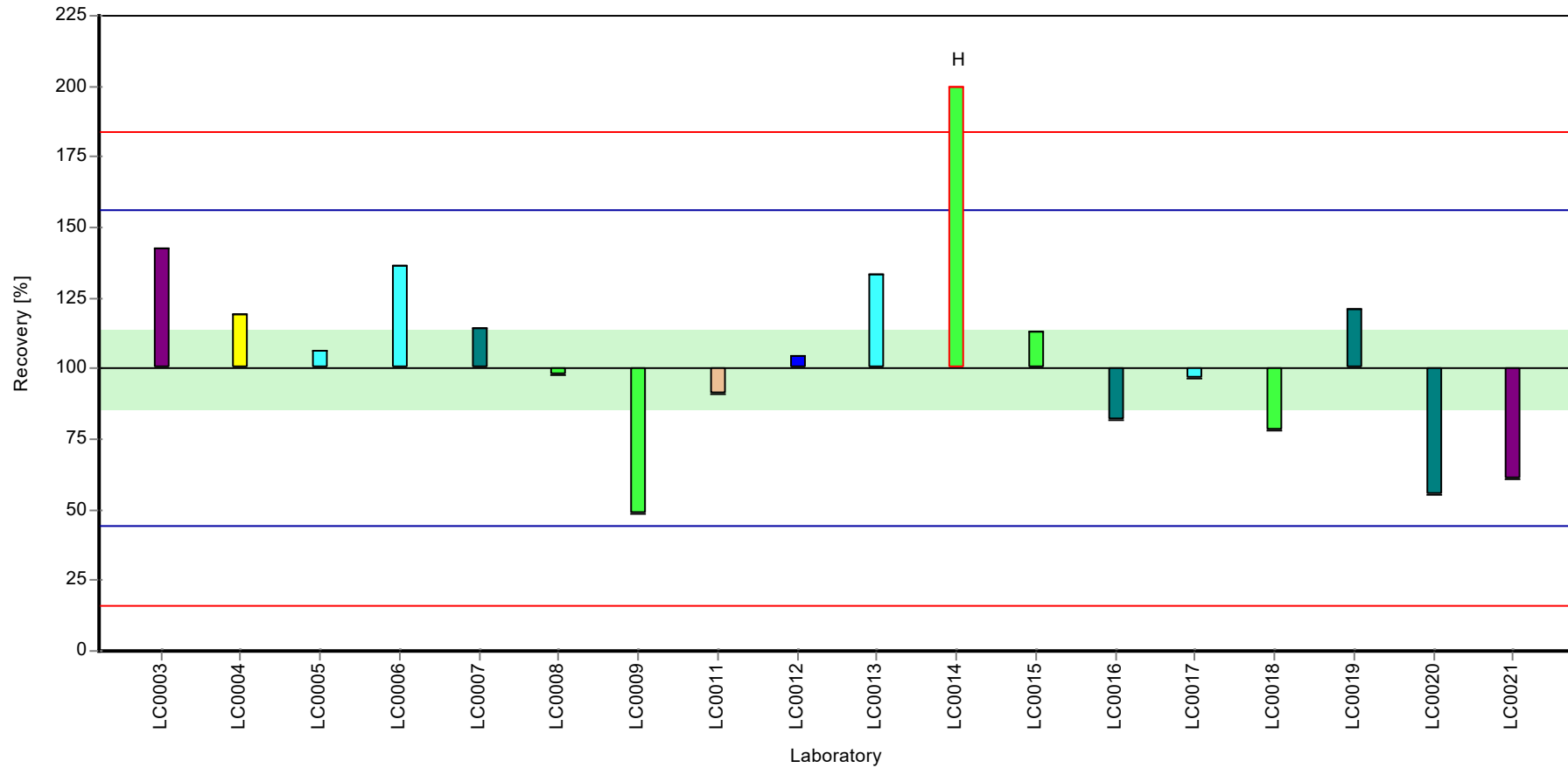
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

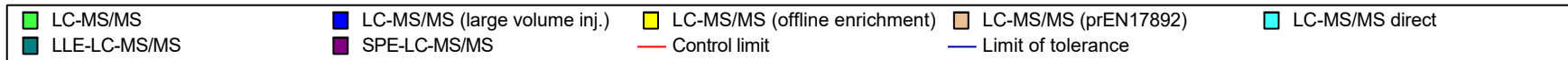
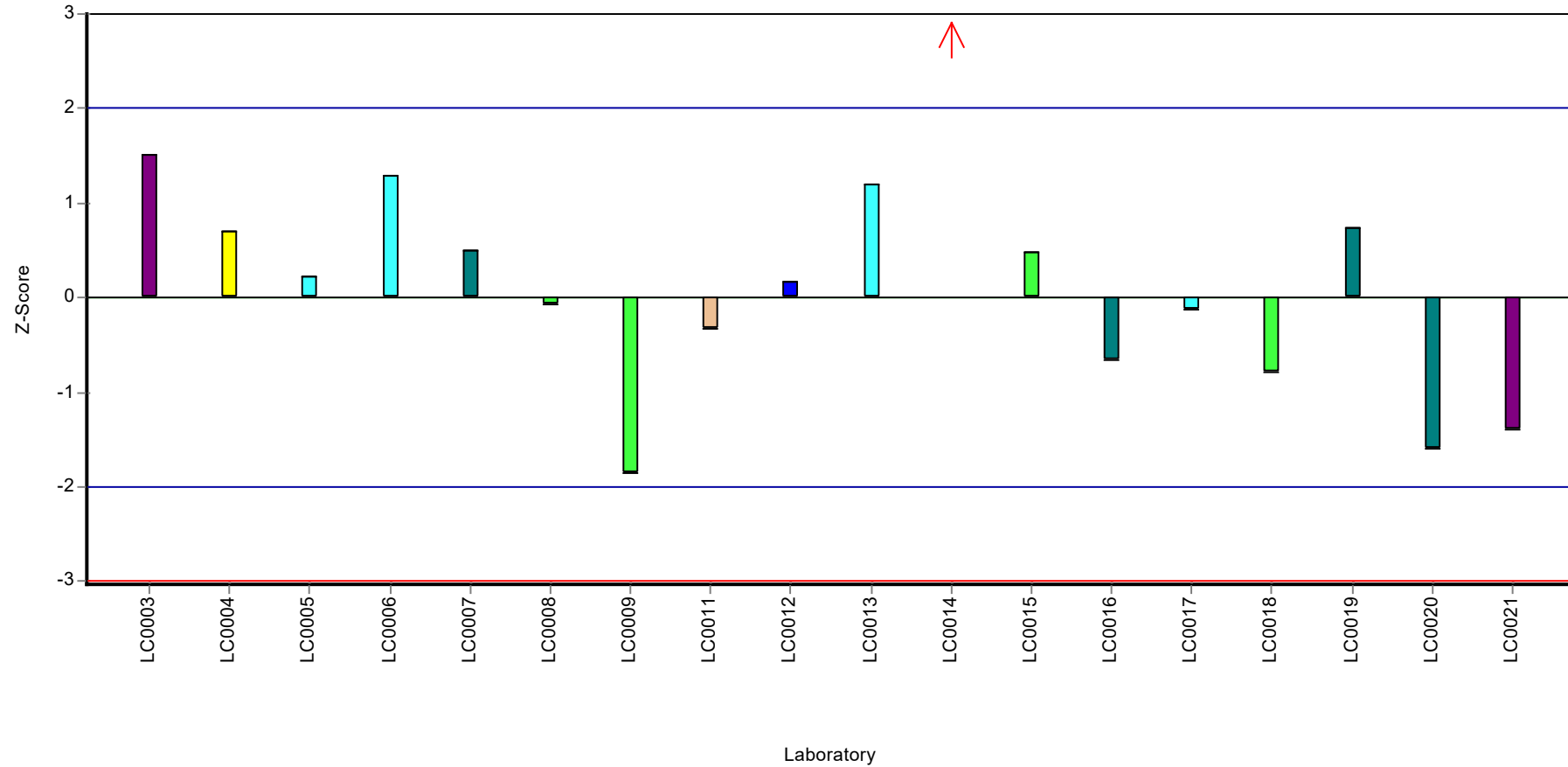
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorodecane sulfonic acid (PFDS) - PF10S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

## Parameter oriented report

### PF01 A

#### Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Unit	µg/l
Assigned value ± U (k=2)	0.0183 ± 0.00558
Criterion	0.00714 (39 %)
Minimum - Maximum	0.00678 - 0.0294
Control test value ± U (k=2)	0.0100 ± 0.00451

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0294	0.0044	161	1.55	
LC0004	0.018	0.005	98.3	-0.04	
LC0005	0.0156	0.0055	85.2	-0.38	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.014	0.007	76.5	-0.6	
LC0009	0.00678	0.00237	37	-1.61	
LC0010	-	-	-	-	
LC0011	0.0137	0.0034	74.8	-0.65	
LC0012	0.01857	0.0065	101	0.04	
LC0013	0.039	0.012	213	2.9	H
LC0014	0.0405	0.0121	221	3.11	H
LC0015	0.0101	0.004	55.2	-1.15	
LC0016	0.0139	0.002	75.9	-0.62	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0223	0.0085	122	0.56	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

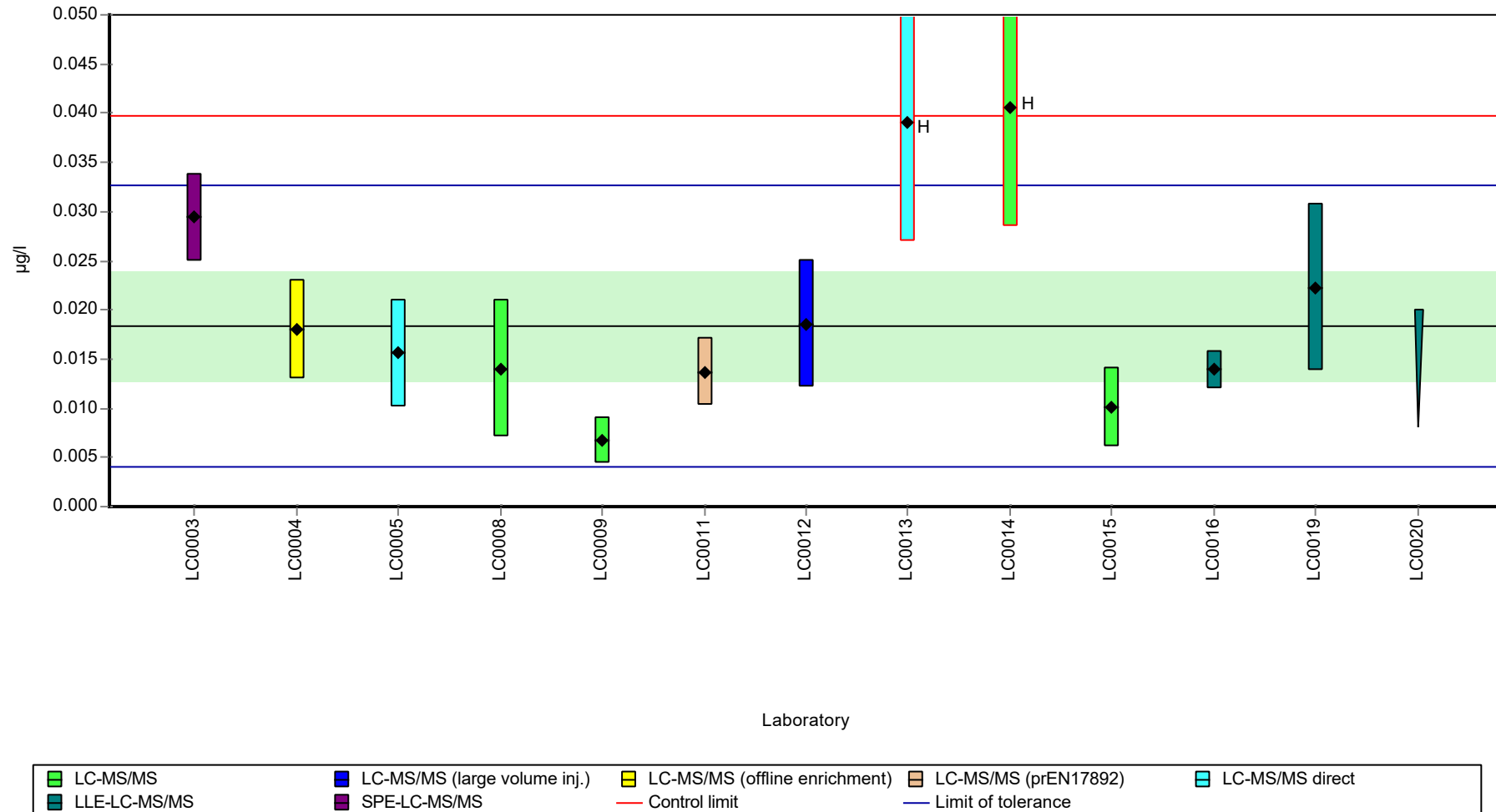
	all results	without outliers	Unit
Mean ± CI (99%)	0.0202 ± 0.00936	0.0162 ± 0.00602	µg/l
Minimum	0.00678	0.00678	µg/l
Maximum	0.0405	0.0294	µg/l
Standard deviation	0.0108	0.00635	µg/l
rel. standard deviation	53.6	39.1	%
n	12	10	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Graphical presentation of results

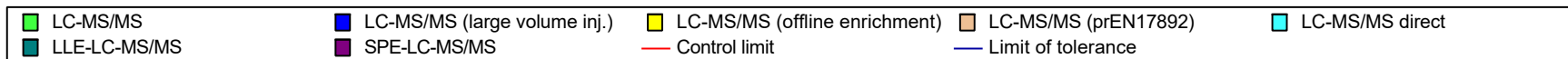
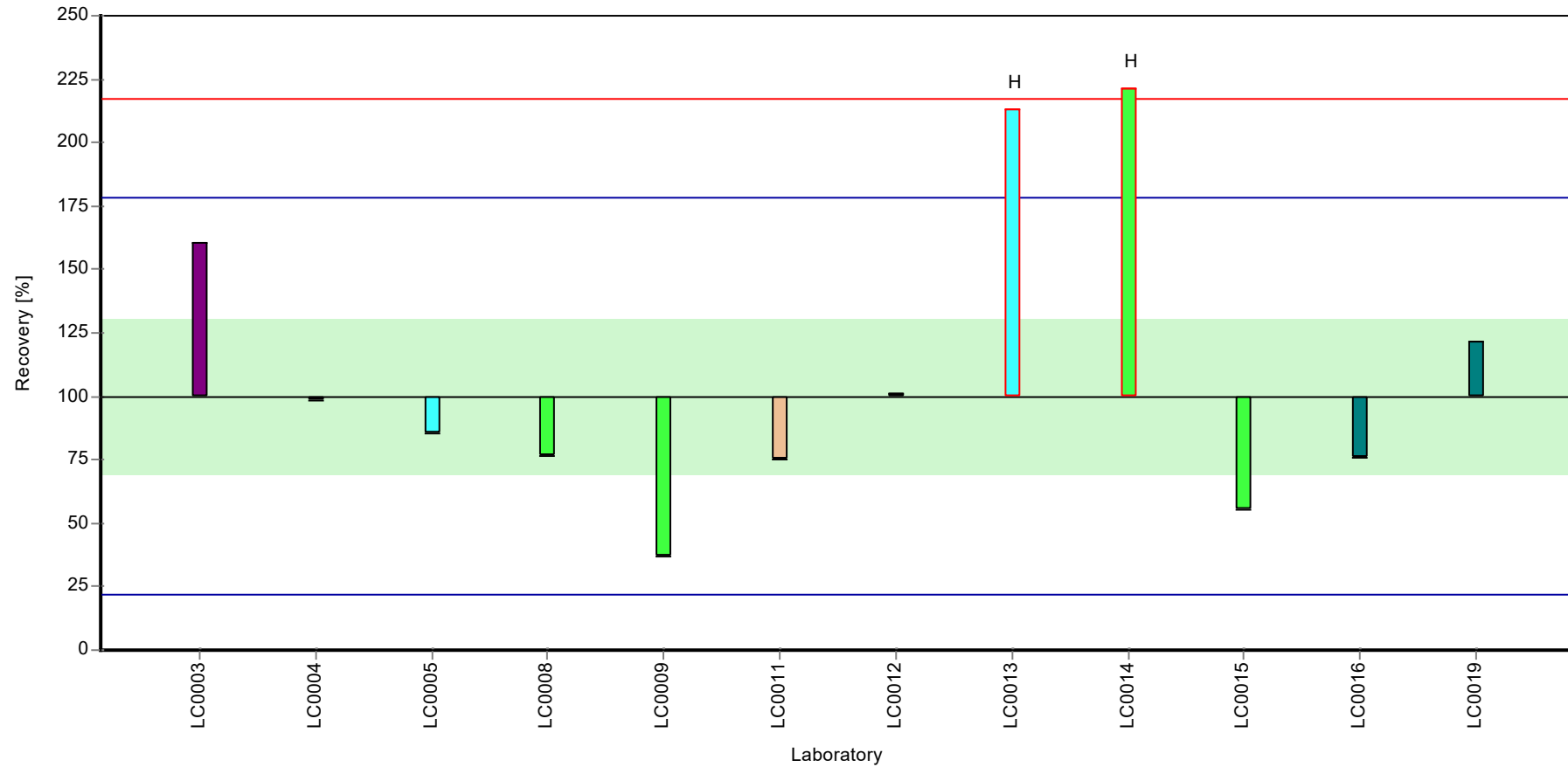
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

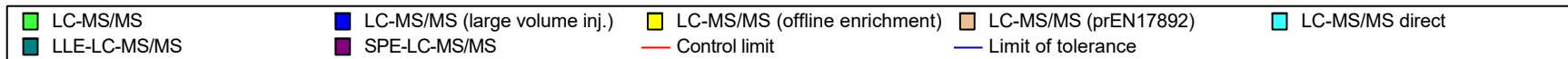
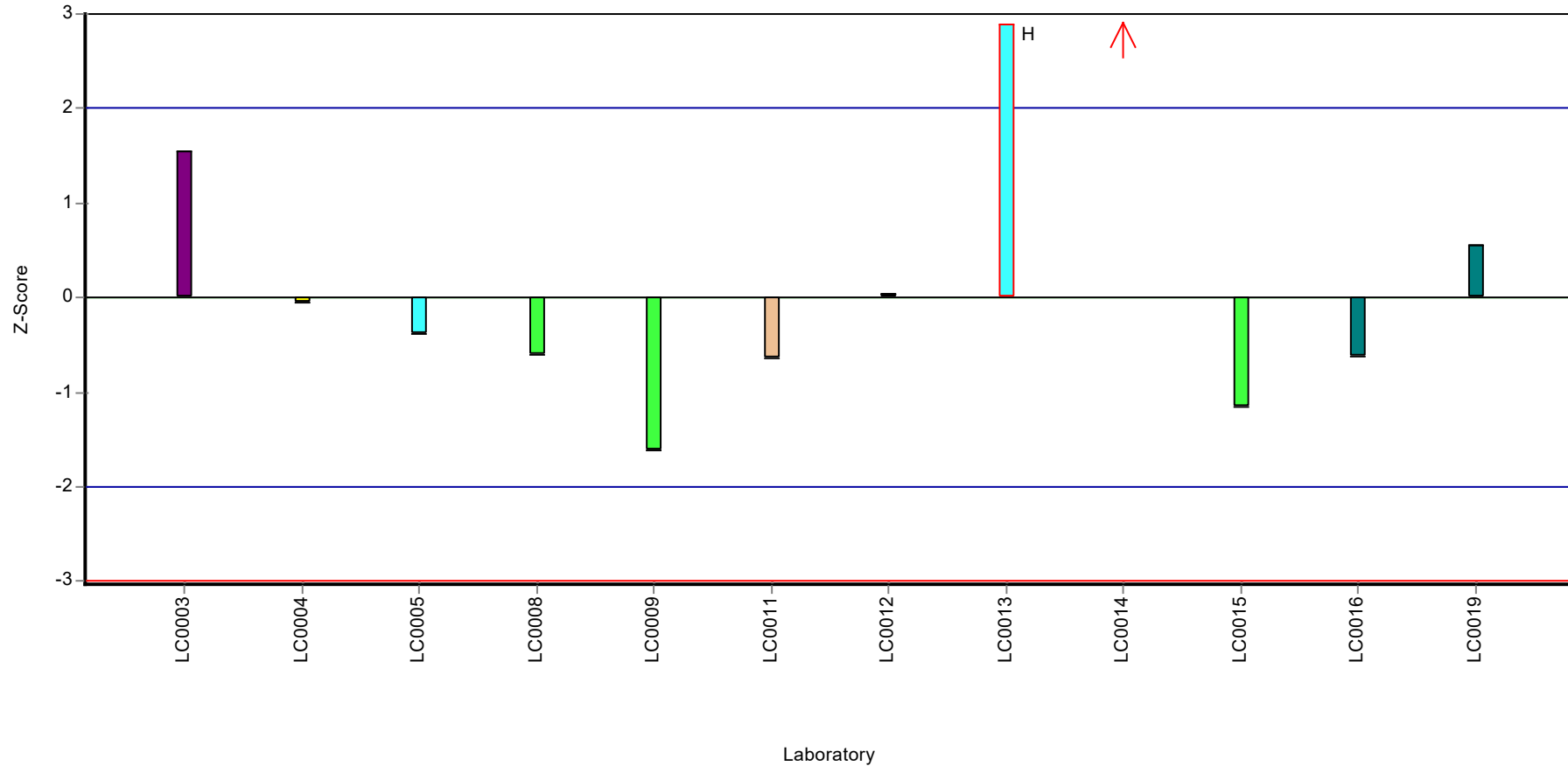
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

## Parameter oriented report

### PF01 B

#### Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Unit	µg/l
Assigned value ± U (k=2)	0.0288 ± 0.00548
Criterion	0.0095 (33 %)
Minimum - Maximum	0.0162 - 0.049
Control test value ± U (k=2)	0.0196 ± 0.00883

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.033	0.005	115	0.44	
LC0004	0.049	0.015	170	2.13	
LC0005	0.0309	0.0108	107	0.22	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.025	0.013	86.9	-0.4	
LC0009	0.0162	0.00567	56.3	-1.32	
LC0010	-	-	-	-	
LC0011	0.0213	0.0053	74	-0.79	
LC0012	0.02292	0.00802	79.6	-0.62	
LC0013	0.033	0.001	115	0.44	
LC0014	0.0743	0.0223	258	4.79	H
LC0015	0.0294	0.0118	102	0.06	
LC0016	0.0219	0.003	76.1	-0.72	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0418	0.0159	145	1.37	
LC0020	0.021	0.006	73	-0.82	
LC0021	-	-	-	-	

#### Characteristics of parameter

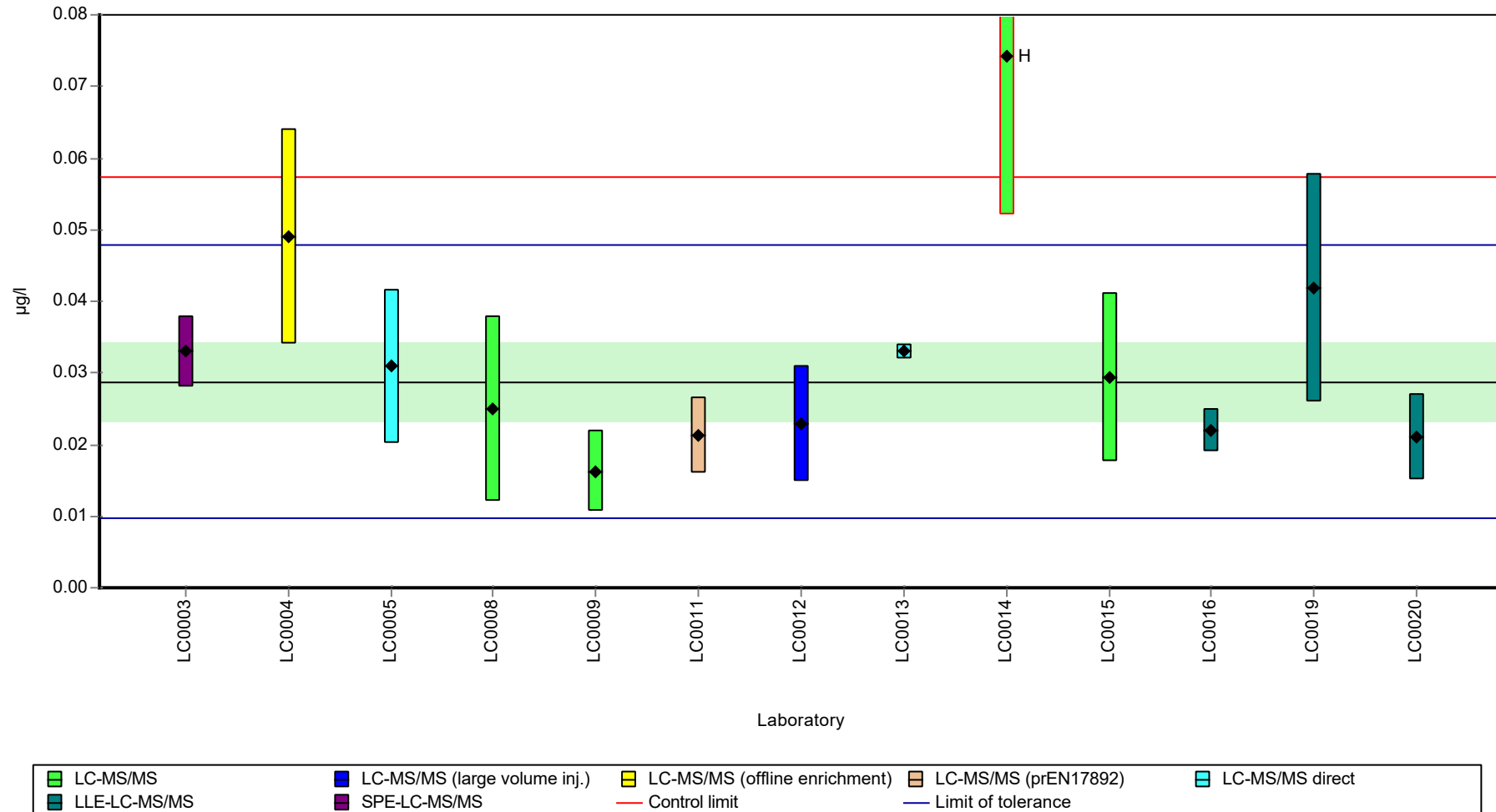
	all results	without outliers	Unit
Mean ± CI (99%)	0.0323 ± 0.0129	0.0288 ± 0.00821	µg/l
Minimum	0.0162	0.0162	µg/l
Maximum	0.0743	0.049	µg/l
Standard deviation	0.0156	0.00948	µg/l
rel. standard deviation	48.2	33 %	
n	13	12	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Graphical presentation of results

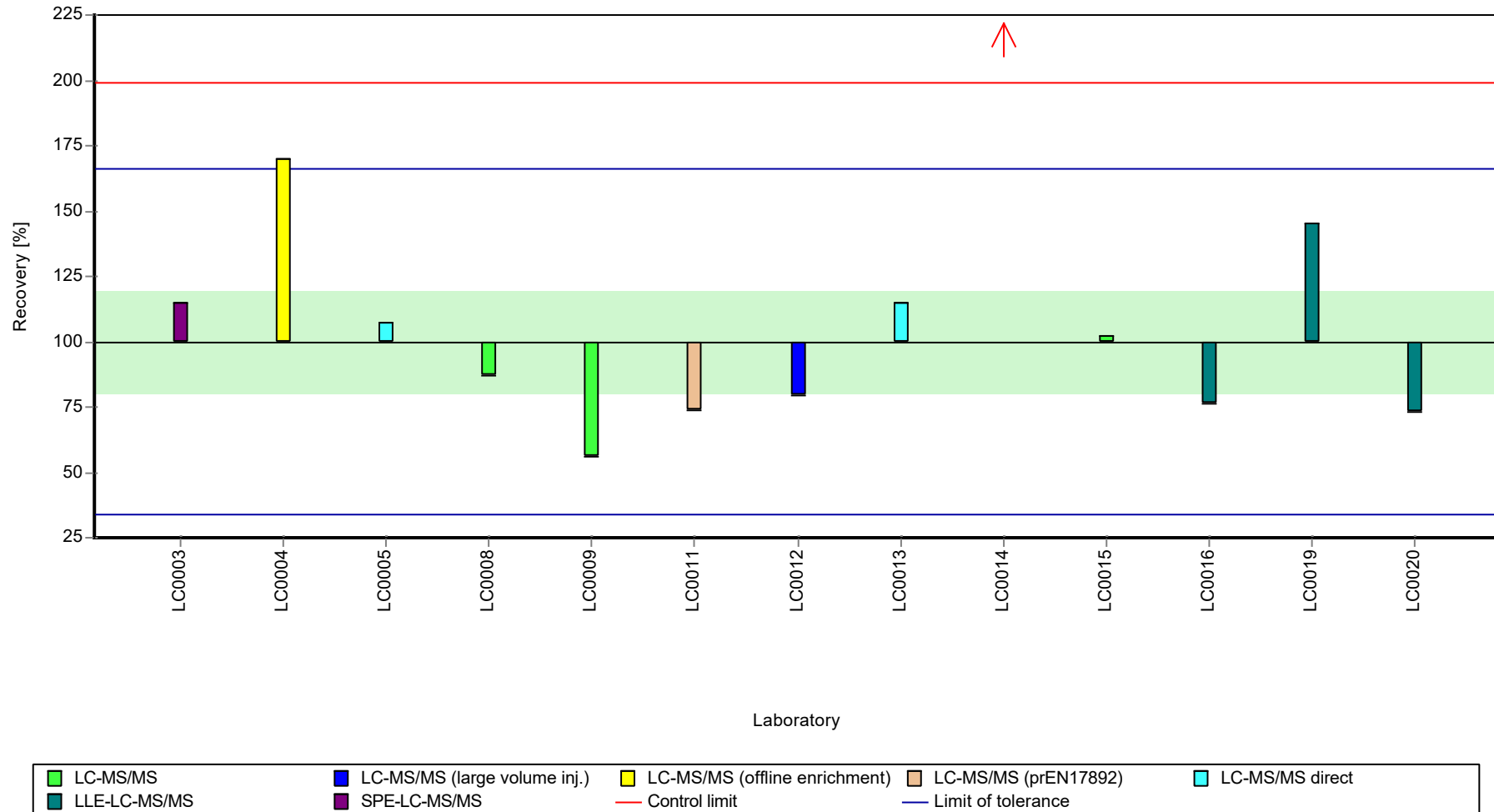
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

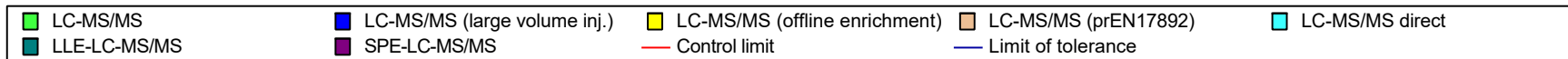
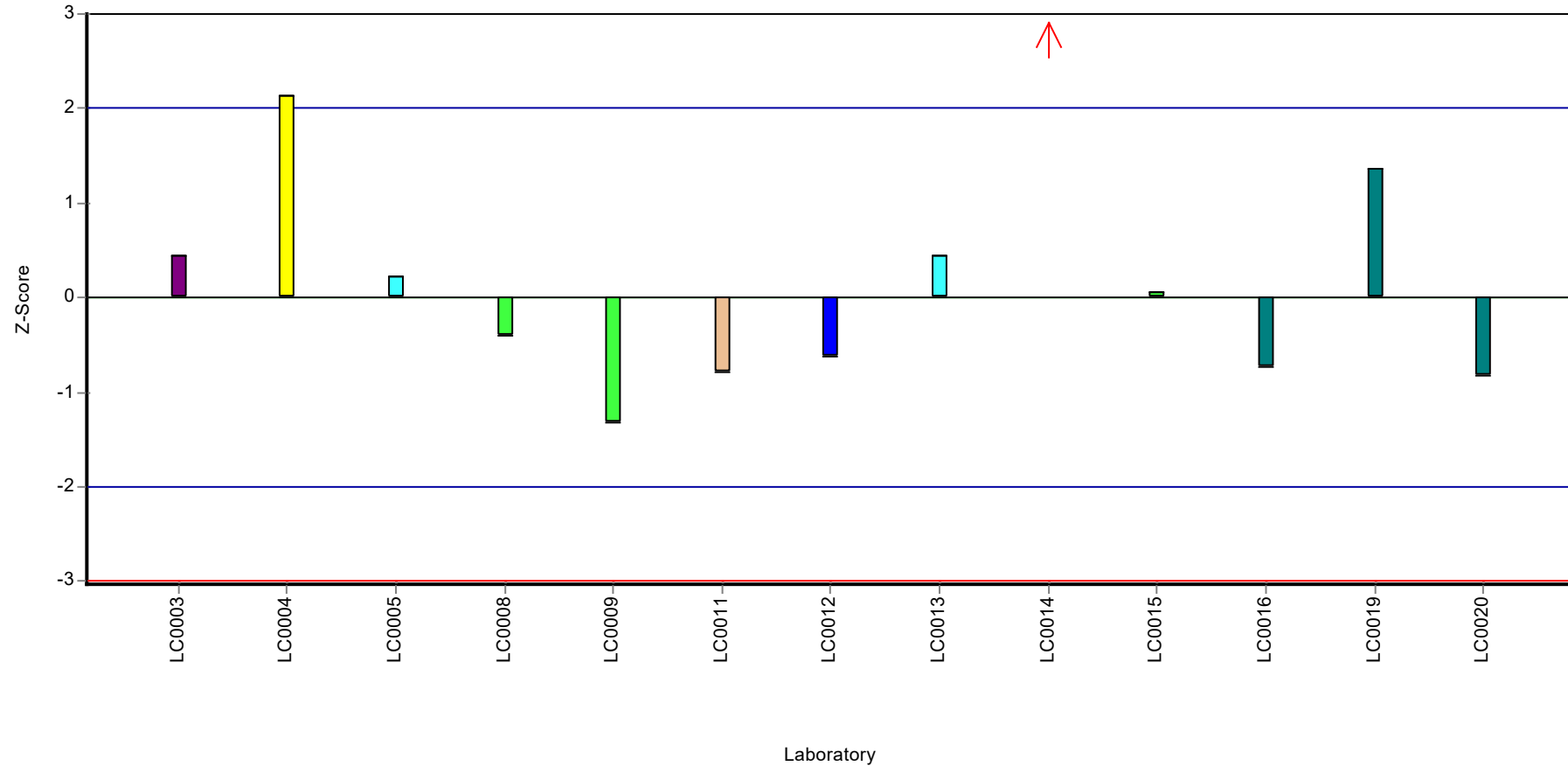
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoroundecane sulfonic acid (PFUnDS) - PF11S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

## Parameter oriented report

### PF01 A

#### Perfluorododecane sulfonic acid (PFDoS) - PF12S

Unit	µg/l
Assigned value ± U (k=2)	0.0141 ± 0.00504
Criterion	0.00618 (44 %)
Minimum - Maximum	0.00614 - 0.0215
Control test value ± U (k=2)	0.0046 ± 0.00207

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0215	0.0032	153	1.21	
LC0004	0.018	0.005	128	0.64	
LC0005	0.0126	0.0071	89.7	-0.23	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	0.012	0.006	85.4	-0.33	
LC0009	0.00962	0.00337	68.5	-0.72	
LC0010	-	-	-	-	
LC0011	0.0064	0.0016	45.6	-1.24	
LC0012	0.0173	0.00225	123	0.53	
LC0013	0.04	0.012	285	4.2	H
LC0014	0.0106	0.00317	75.4	-0.56	
LC0015	0.00614	0.0024	43.7	-1.28	
LC0016	0.00796	0.001	56.7	-0.99	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0188	0.0071	134	0.77	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

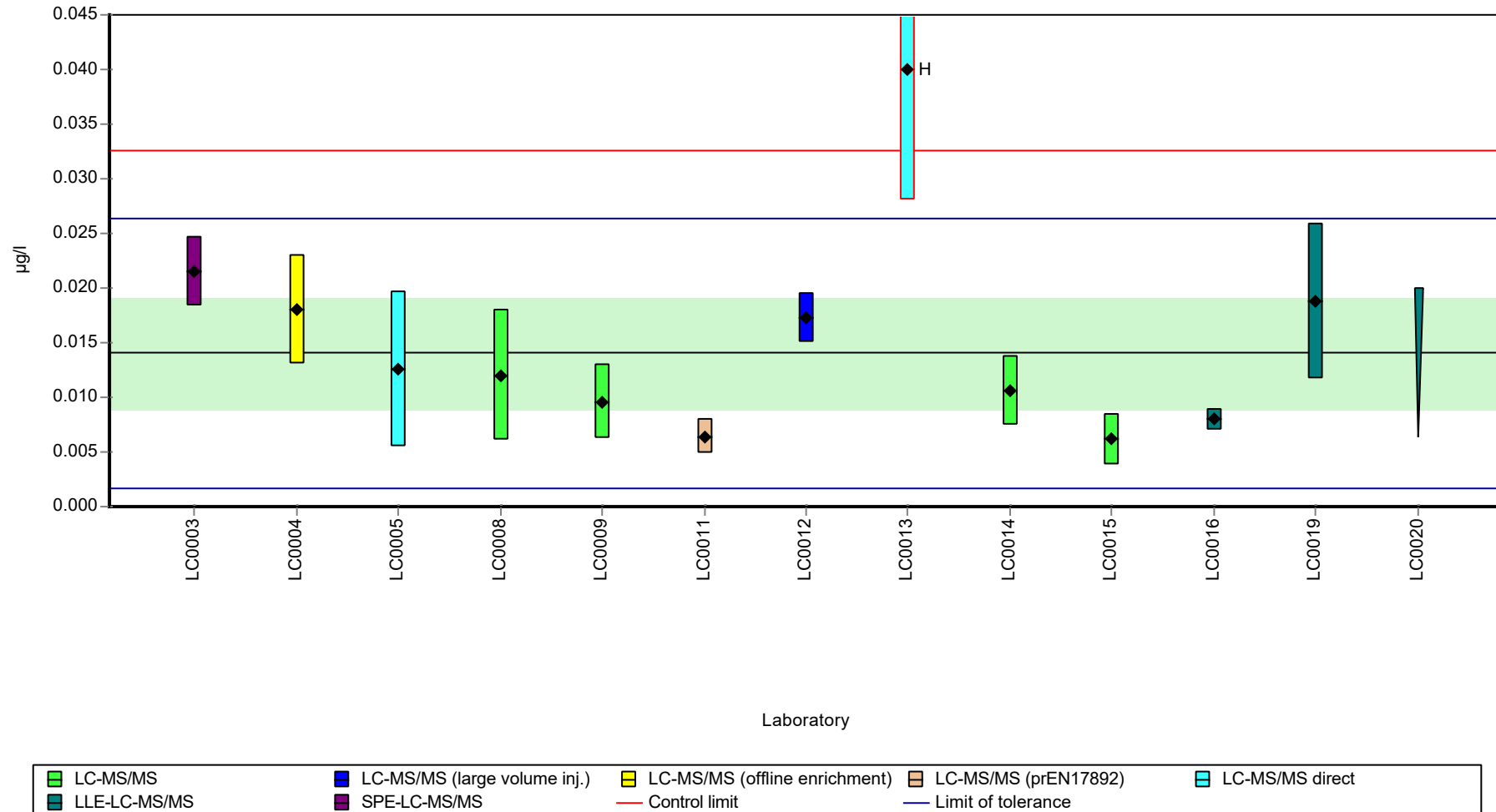
	all results	without outliers	Unit
Mean ± CI (99%)	0.0151 ± 0.00809	0.0128 ± 0.00481	µg/l
Minimum	0.00614	0.00614	µg/l
Maximum	0.04	0.0215	µg/l
Standard deviation	0.00935	0.00532	µg/l
rel. standard deviation	62	41.6 %	
n	12	11	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

Graphical presentation of results

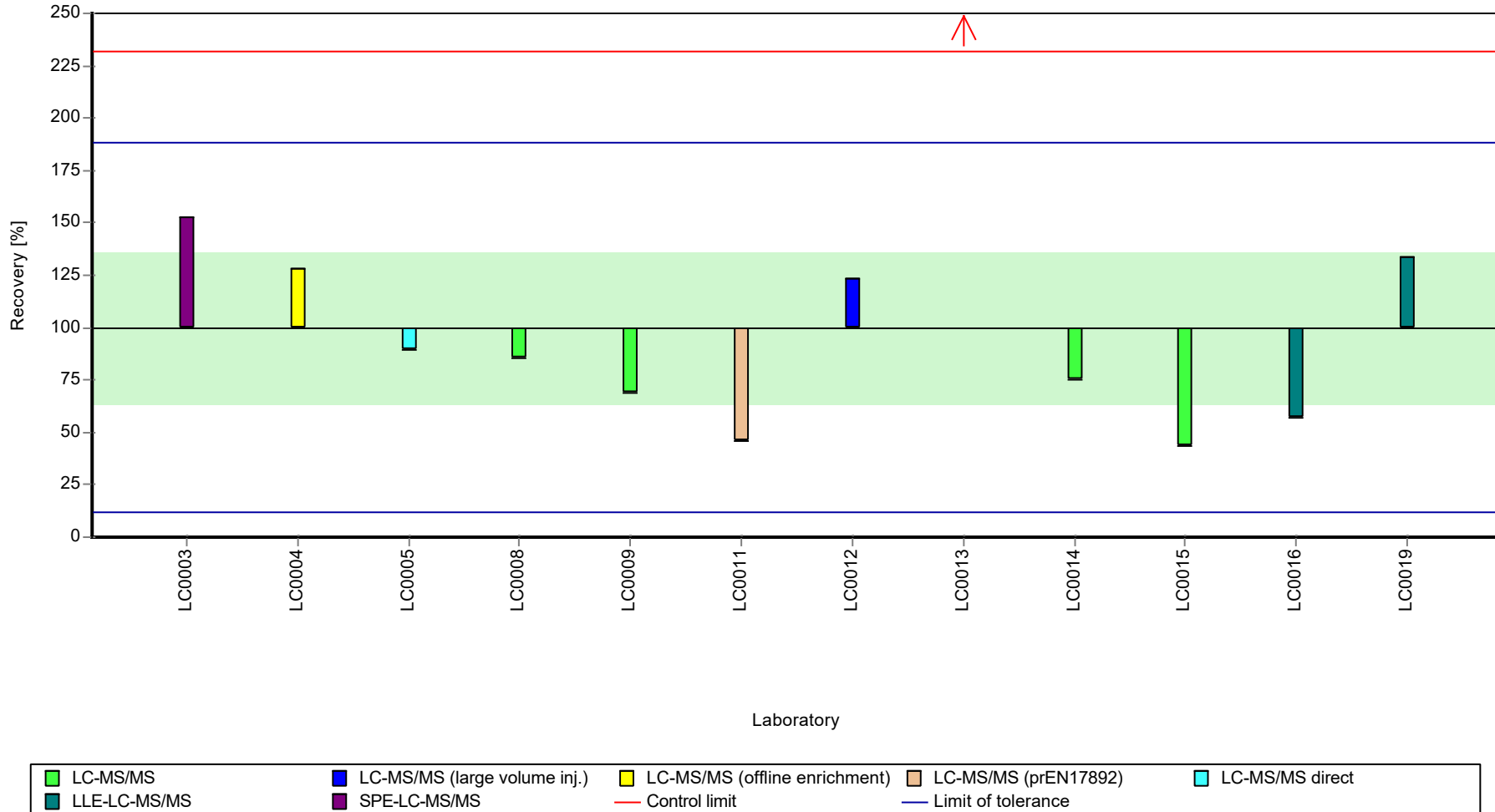
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

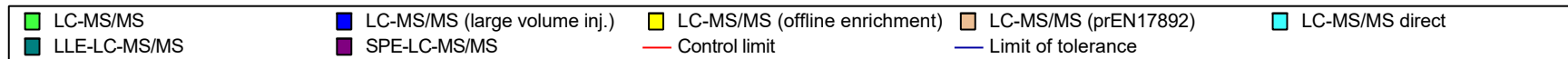
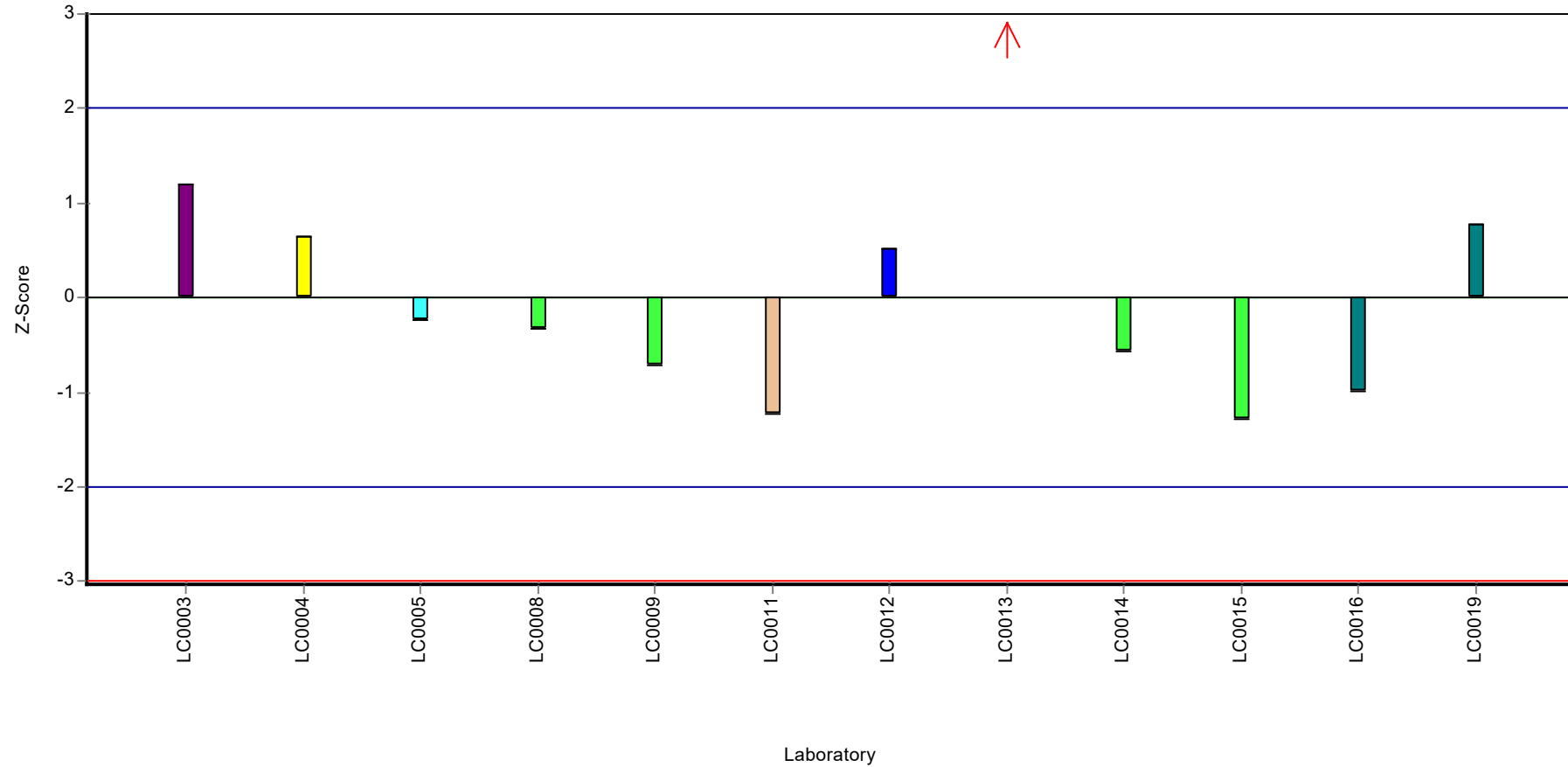
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

## Parameter oriented report

### PF01 B

#### Perfluorododecane sulfonic acid (PFDoS) - PF12S

Unit	µg/l
Assigned value ± U (k=2)	0.011 ± 0.00203
Criterion	0.00307 (28 %)
Minimum - Maximum	0.0056 - 0.0154
Control test value ± U (k=2)	0.00558 ± 0.00251

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0127	0.0019	116	0.56	
LC0004	0.038	0.011	346	8.79	H
LC0005	0.0112	0.0063	102	0.07	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	0.00834	0.00292	76	-0.86	
LC0010	-	-	-	-	
LC0011	0.0056	0.0014	51	-1.75	
LC0012	0.0082	0.00107	74.7	-0.9	
LC0013	0.012	0.004	109	0.33	
LC0014	0.012	0.00361	109	0.33	
LC0015	0.00788	0.0032	71.8	-1.01	
LC0016	0.00945	0.001	86.1	-0.5	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0154	0.0059	140	1.44	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

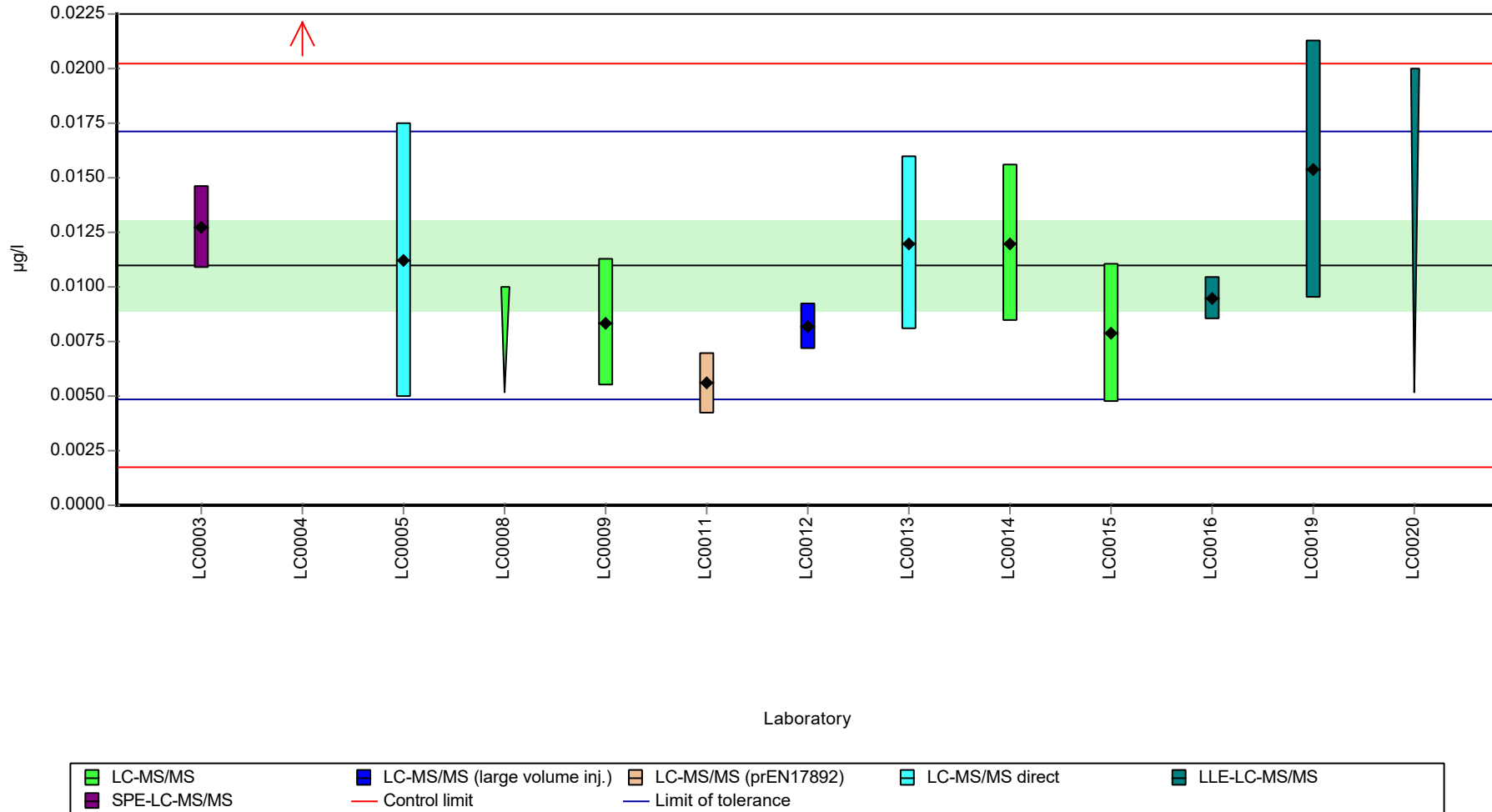
	all results	without outliers	Unit
Mean ± CI (99%)	0.0128 ± 0.00796	0.0103 ± 0.00274	µg/l
Minimum	0.0056	0.0056	µg/l
Maximum	0.038	0.0154	µg/l
Standard deviation	0.0088	0.00289	µg/l
rel. standard deviation	68.7	28.1	%
n	11	10	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

Graphical presentation of results

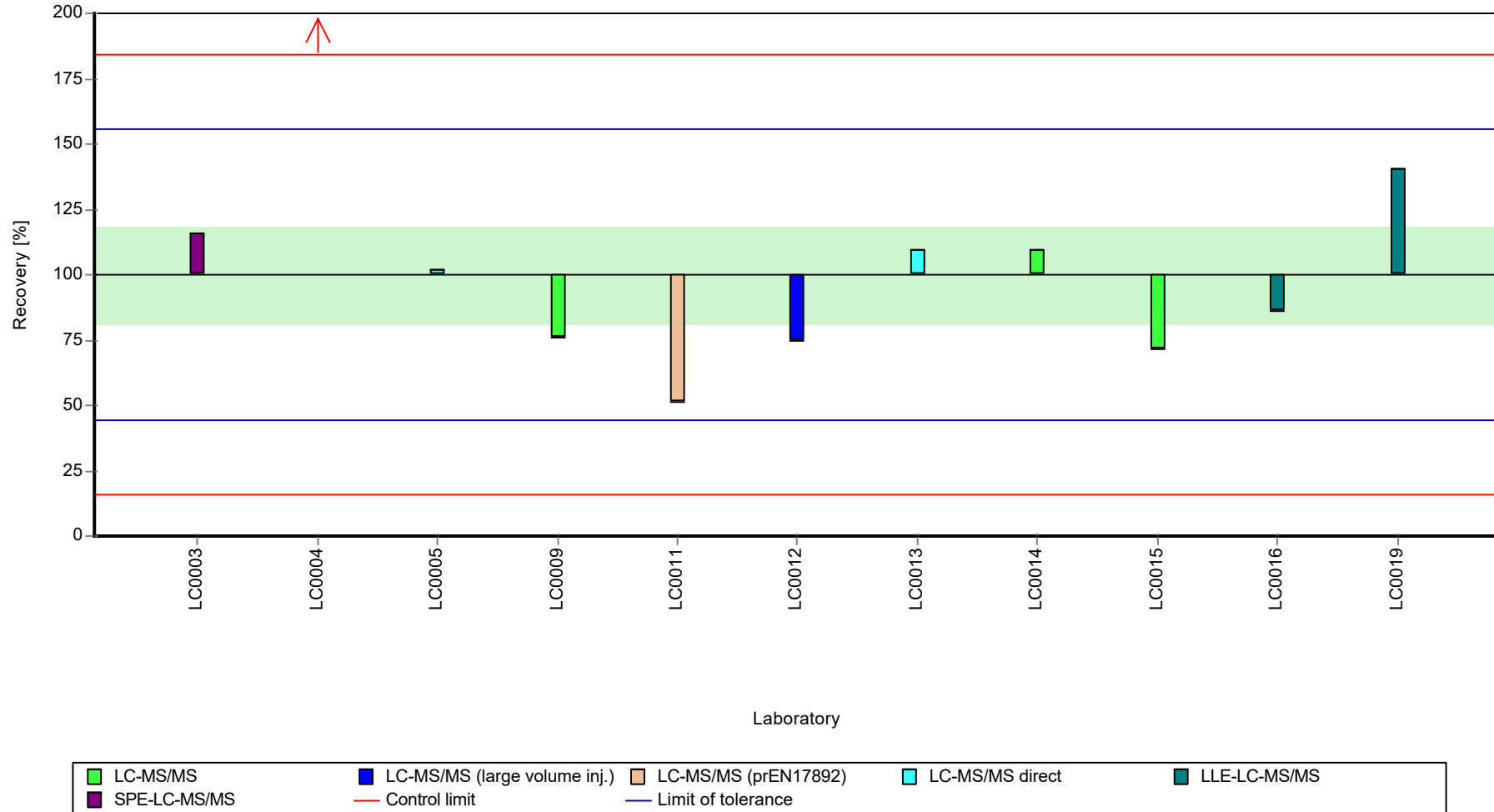
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

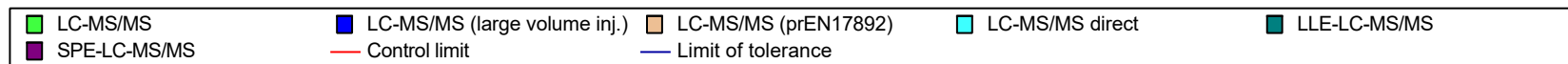
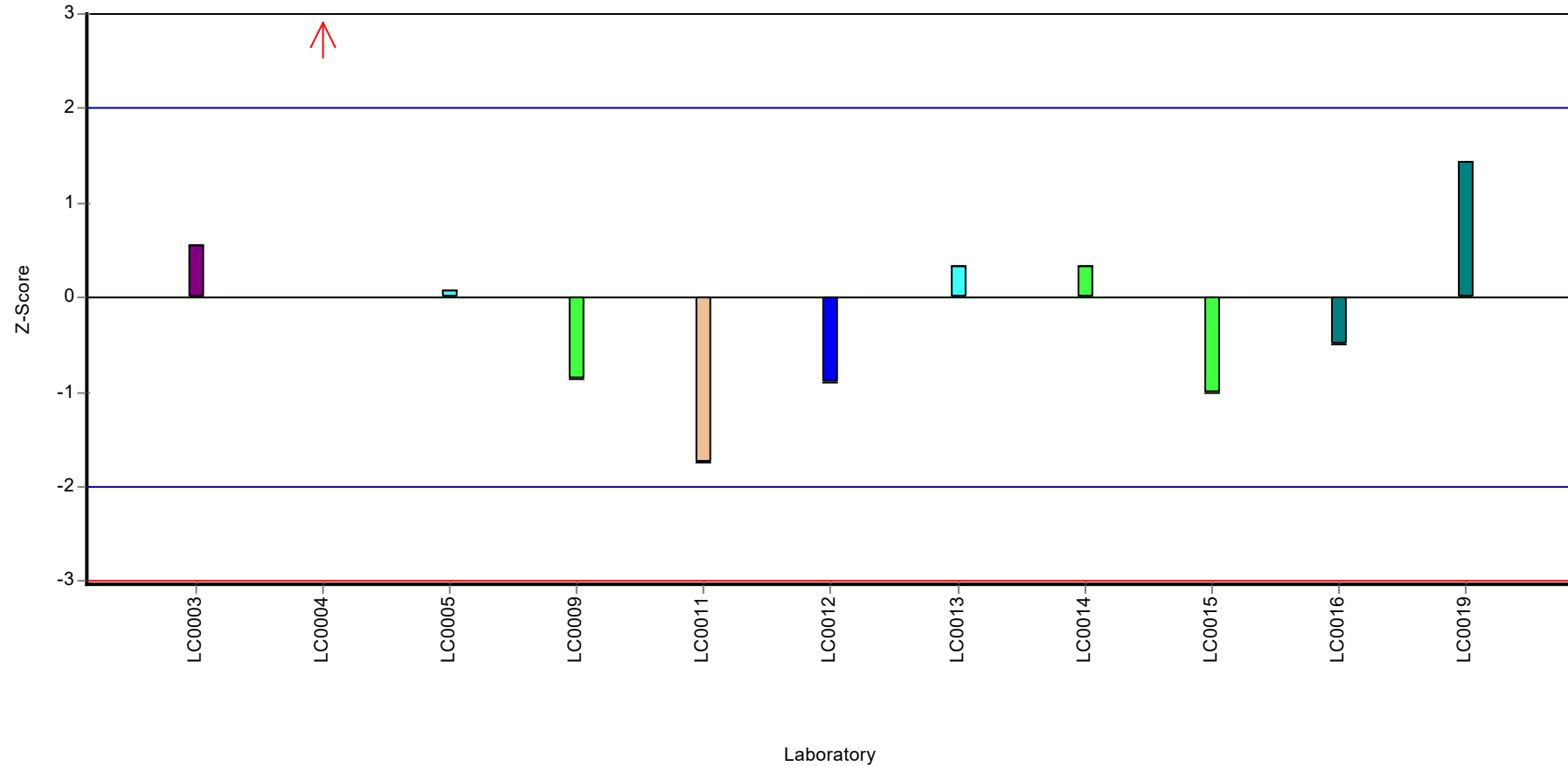
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorododecane sulfonic acid (PFDoS) - PF12S

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

## Parameter oriented report

### PF01 A

#### Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

Unit	µg/l	Information zur Auswertung: Die Streuung der ausreißerbereinigten Messergebnisse der akkreditierten, teilnehmenden Labore lag bei >50 %. Aus diesem Grund konnte kein zugewiesener Wert festgelegt werden. Für diesen Parameter empfehlen wir einen Vergleich mit dem rein informativen Mittelwert aus der Gruppe der akkreditierten Laborergebnisse: 0.0153 +/- 0.0080 U(k=2) µg/l
Assigned value ± U (k=2)	-	
Criterion	-	
Minimum - Maximum	0.00521 - 0.0298	Information for evaluation: The relative reproducibility standard deviation of the results within group of accredited participating laboratories after outlier elimination was >50 %. Therefore, no assigned value could be defined. For this parameter, we recommend the comparison with the informative mean value from the group of accredited participating laboratories: 0.0153 +/- 0.0080 U(k=2) µg/l
Control test value ± U (k=2)	0.00384 ± 0.00173	

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0298	0.0045	-	-	
LC0004	0.019	0.006	-	-	
LC0005	0.0128	0.0051	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	0.00783	0.00274	-	-	
LC0010	-	-	-	-	
LC0011	0.0098	0.0025	-	-	
LC0012	0.0147	0.00206	-	-	
LC0013	0.042	0.013	-	-	H
LC0014	< 0.005 (LOQ)	-	-	-	
LC0015	0.00558	0.0022	-	-	
LC0016	0.00521	0.0008	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0236	0.0068	-	-	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

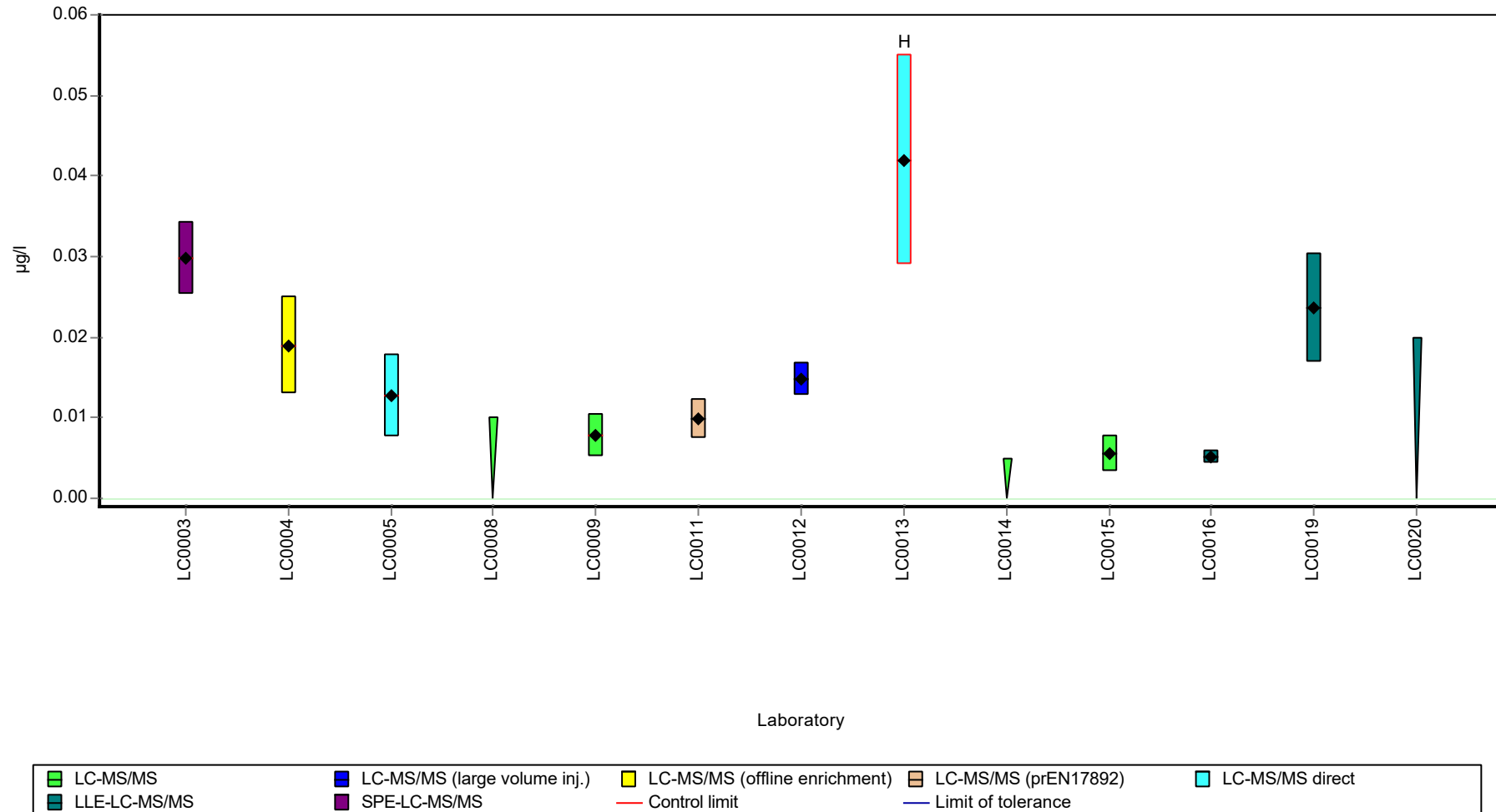
	all results	without outliers	Unit
Mean ± CI (99%)	0.017 ± 0.0112	-	µg/l
Minimum	0.00521	-	µg/l
Maximum	0.042	-	µg/l
Standard deviation	0.0119	-	µg/l
rel. standard deviation	69.6	-	%
n	10	-	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

Graphical presentation of results

Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

## Parameter oriented report

### PF01 B

#### Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

Unit	µg/l
Assigned value ± U (k=2)	0.0119 ± 0.00377
Criterion	0.00499 (42 %)
Minimum - Maximum	0.00422 - 0.0181
Control test value ± U (k=2)	0.00652 ± 0.00293

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.018	0.0027	151	1.22	
LC0004	0.045	0.014	378	6.63	H
LC0005	0.0151	0.006	127	0.64	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0.01 (LOQ)	-	-	-	
LC0009	0.00762	0.00267	64.1	-0.86	
LC0010	-	-	-	-	
LC0011	0.0181	0.0045	152	1.24	
LC0012	0.01162	0.00163	97.7	-0.05	
LC0013	0.011	0.003	92.5	-0.18	
LC0014	0.0103	0.00308	86.6	-0.32	
LC0015	0.00422	0.0017	35.5	-1.54	
LC0016	0.00709	0.001	59.6	-0.96	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	0.0162	0.0047	136	0.86	
LC0020	< 0.02 (LOQ)	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

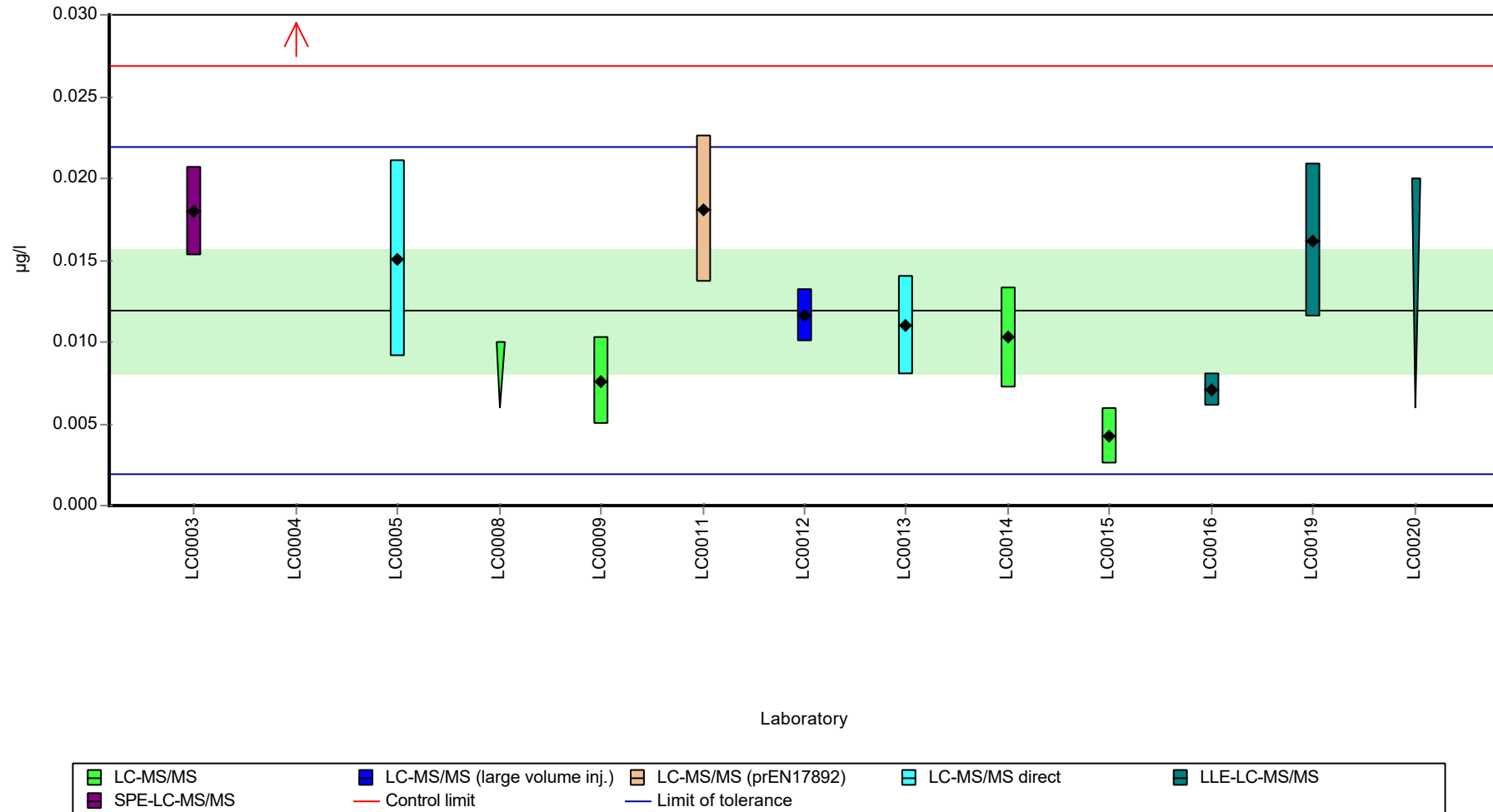
	all results	without outliers	Unit
Mean ± CI (99%)	0.0149 ± 0.00992	0.0119 ± 0.00456	µg/l
Minimum	0.00422	0.00422	µg/l
Maximum	0.045	0.0181	µg/l
Standard deviation	0.011	0.00481	µg/l
rel. standard deviation	73.4	40.3	%
n	11	10	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

Graphical presentation of results

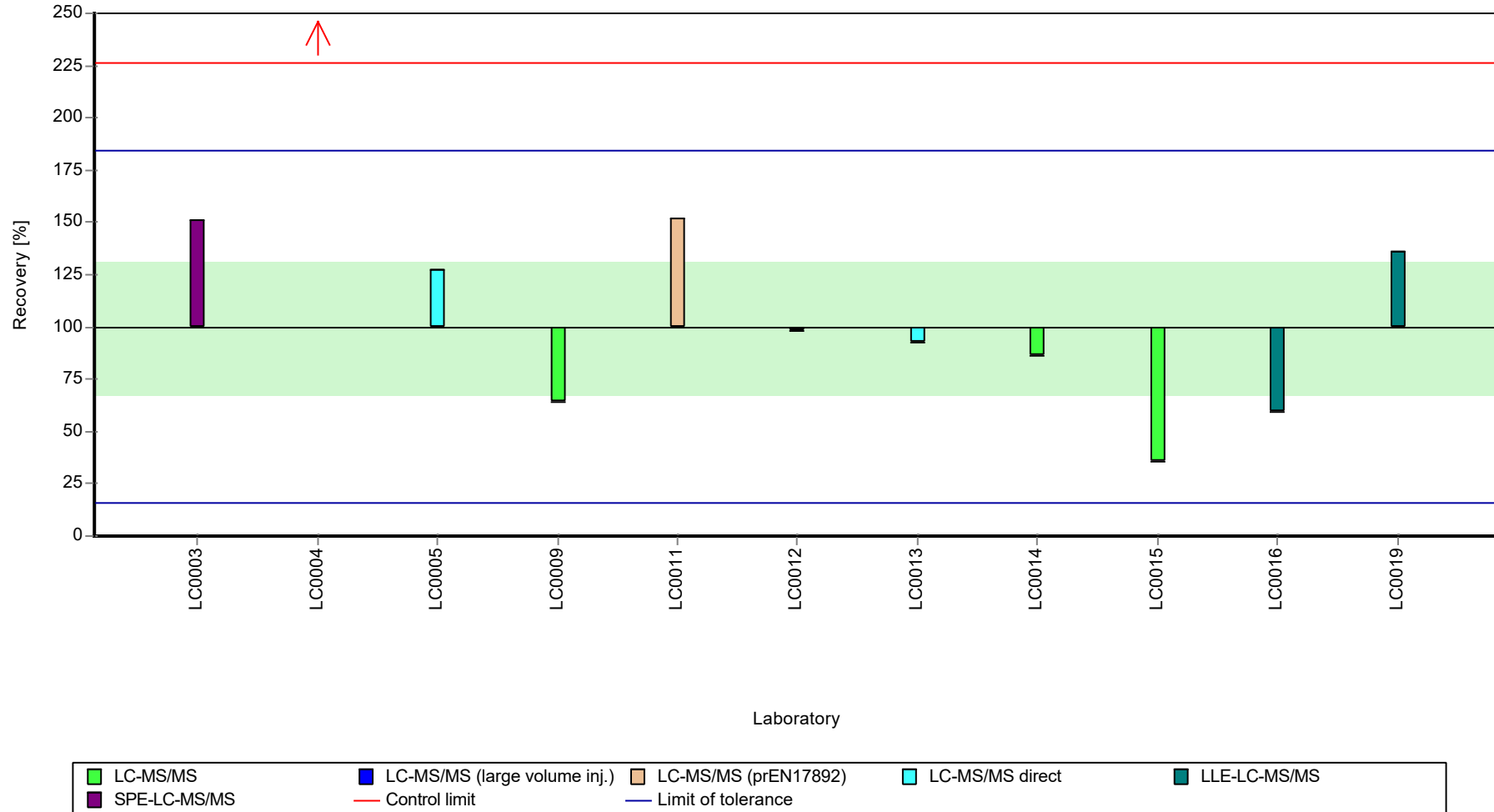
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

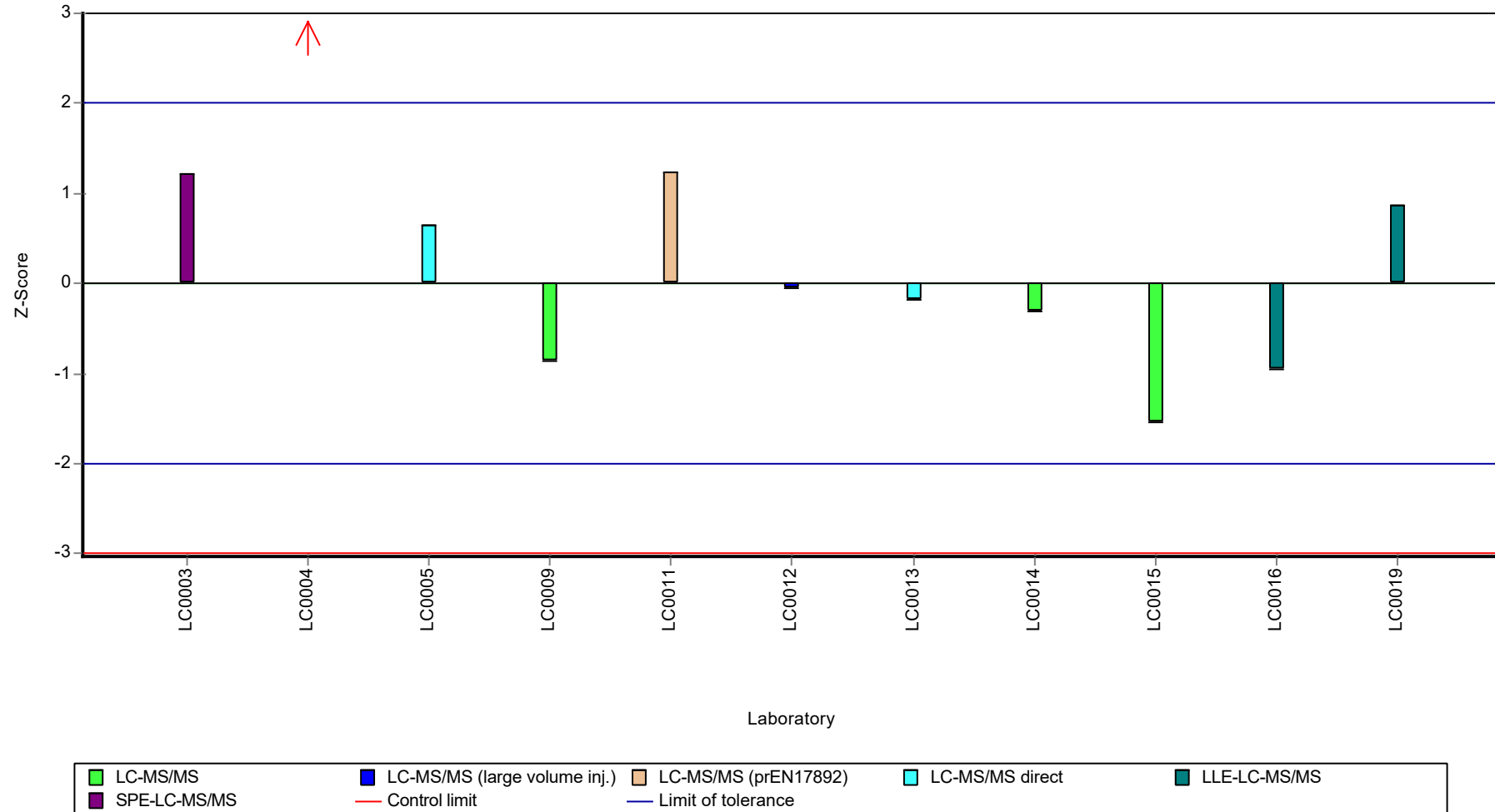
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluorotridecane sulfonic acid (PFTrDS) - PF13S

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

## Parameter oriented report

### PF01 A

#### N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

Unit	µg/l	Aufgrund einer zu geringen Anzahl an übermittelten gültigen Ergebnissen der Ausreißerelimination (n < 6) konnte kein Sollwert berechnet werden. Es wird im Rahmen der internen qualitätssichernden Maßnahmen ein informativer Vergleich mit dem Mittelwert, berechnet aus den Ergebnissen der Labore ohne Hampel-Ausreißer
Assigned value ± U (k=2)	-	
Criterion	-	
Minimum - Maximum	0.0121 - 0.016	(H95) empfohlen: N-EtFOSAA MW (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l.
Control test value ± U (k=2)	-	An assigned value could not be calculated because of the small number of submitted valid results after outlier elimination (n < 6). For this parameter we recommend to compare your results with the mean of the results of the participating laboratories: N-EtFOSAA MV (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l.

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0232	0.0035	-	-	H
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0138	0.00498	-	-	
LC0007	-	-	-	-	
LC0008	0.016	0.008	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.023	0.007	-	-	H
LC0014	-	-	-	-	
LC0015	0.0147	0.0059	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	0.0152	0.0075	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0121	0.0036	-	-	

#### Characteristics of parameter

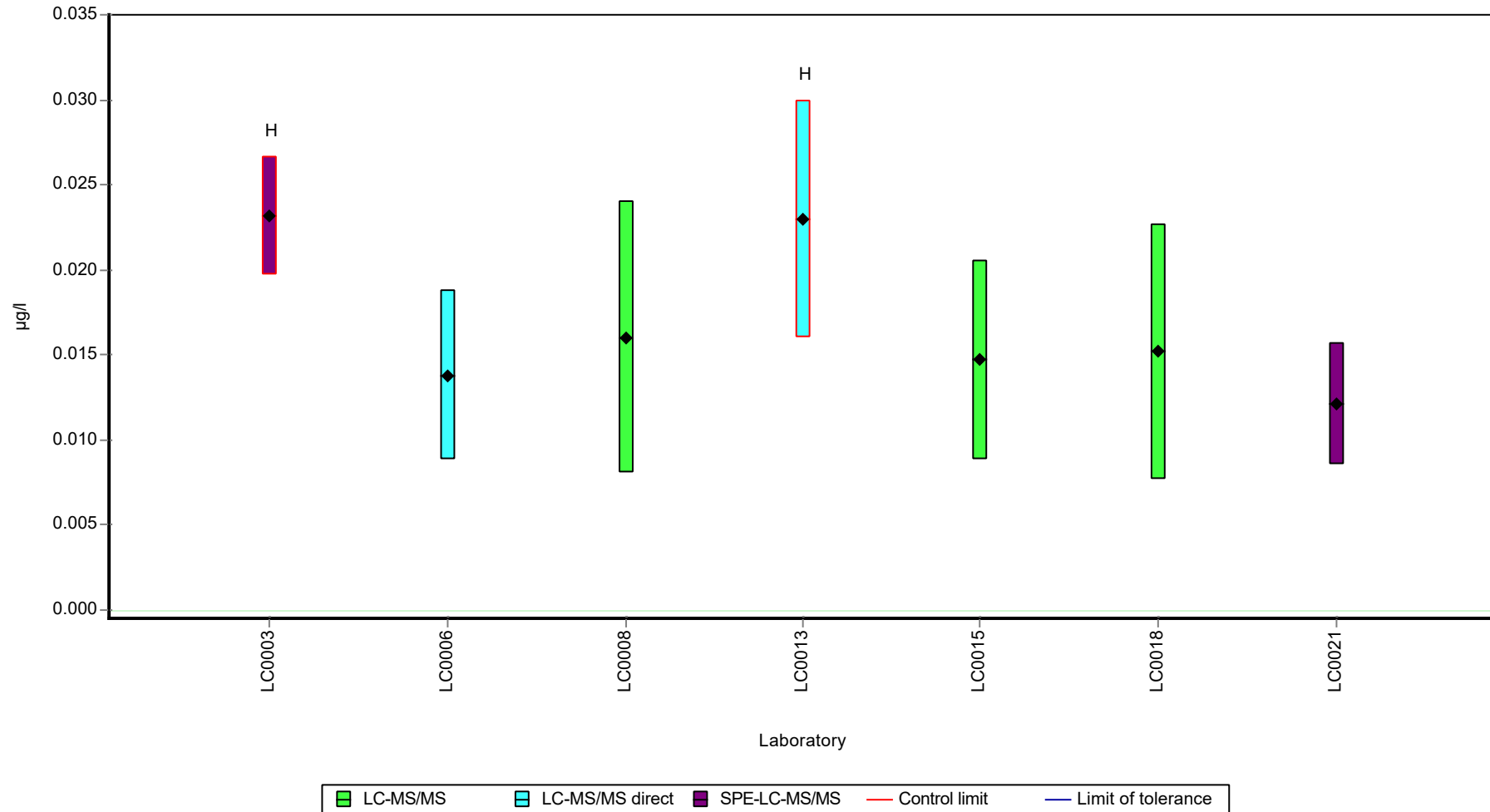
	all results	without outliers	Unit
Mean ± CI (99%)	0.0169 ± 0.00503	-	µg/l
Minimum	0.0121	0.0121	µg/l
Maximum	0.0232	0.016	µg/l
Standard deviation	0.00444	-	µg/l
rel. standard deviation	26.3	-	%
n	7	5	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

Graphical presentation of results

Results





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

## Parameter oriented report

### PF01 B

#### N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

Unit  $\mu\text{g/l}$   
Assigned value  $\pm U$  (k=2)  $0.0598 \pm 0.00631$   
Criterion  $0.00777$  (13 %)  
Minimum - Maximum  $0.047 - 0.0688$   
Control test value  $\pm U$  (k=2) -

Labcode	Result	$\pm U$	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0644	0.01	108	0.6	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0602	0.02168	101	0.06	
LC0007	-	-	-	-	
LC0008	0.047	0.015	78.7	-1.64	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.063	0.019	105	0.42	
LC0014	-	-	-	-	
LC0015	0.0688	0.0275	115	1.17	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0551	0.0165	92.2	-0.6	

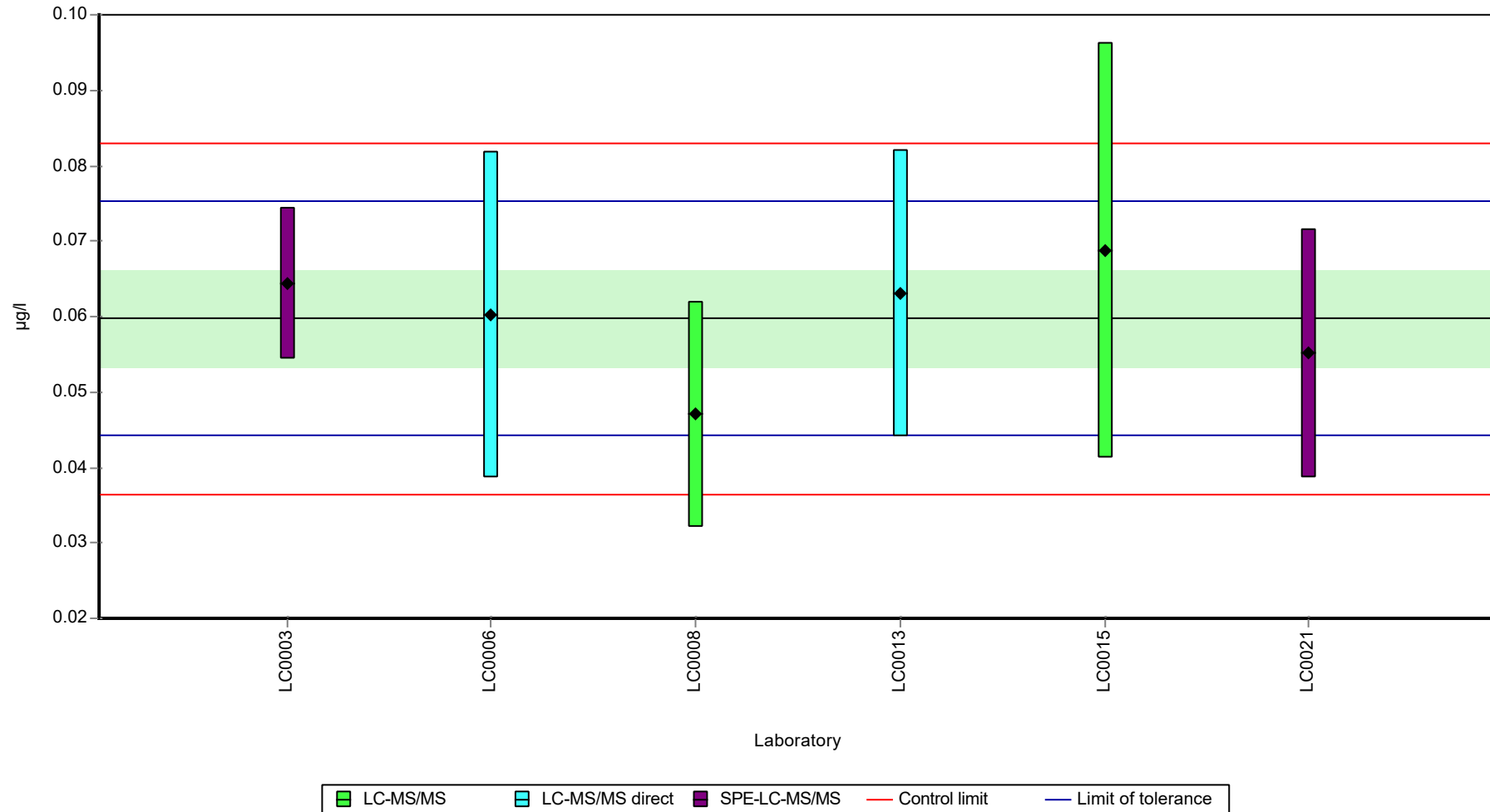
#### Characteristics of parameter

	all results	without outliers	Unit
Mean $\pm$ CI (99%)	$0.0597 \pm 0.00946$	$0.0598 \pm 0.00946$	$\mu\text{g/l}$
Minimum	0.047	0.047	$\mu\text{g/l}$
Maximum	0.0688	0.0688	$\mu\text{g/l}$
Standard deviation	0.00773	0.00773	$\mu\text{g/l}$
rel. standard deviation	12.9	12.9 %	
n	6	6	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

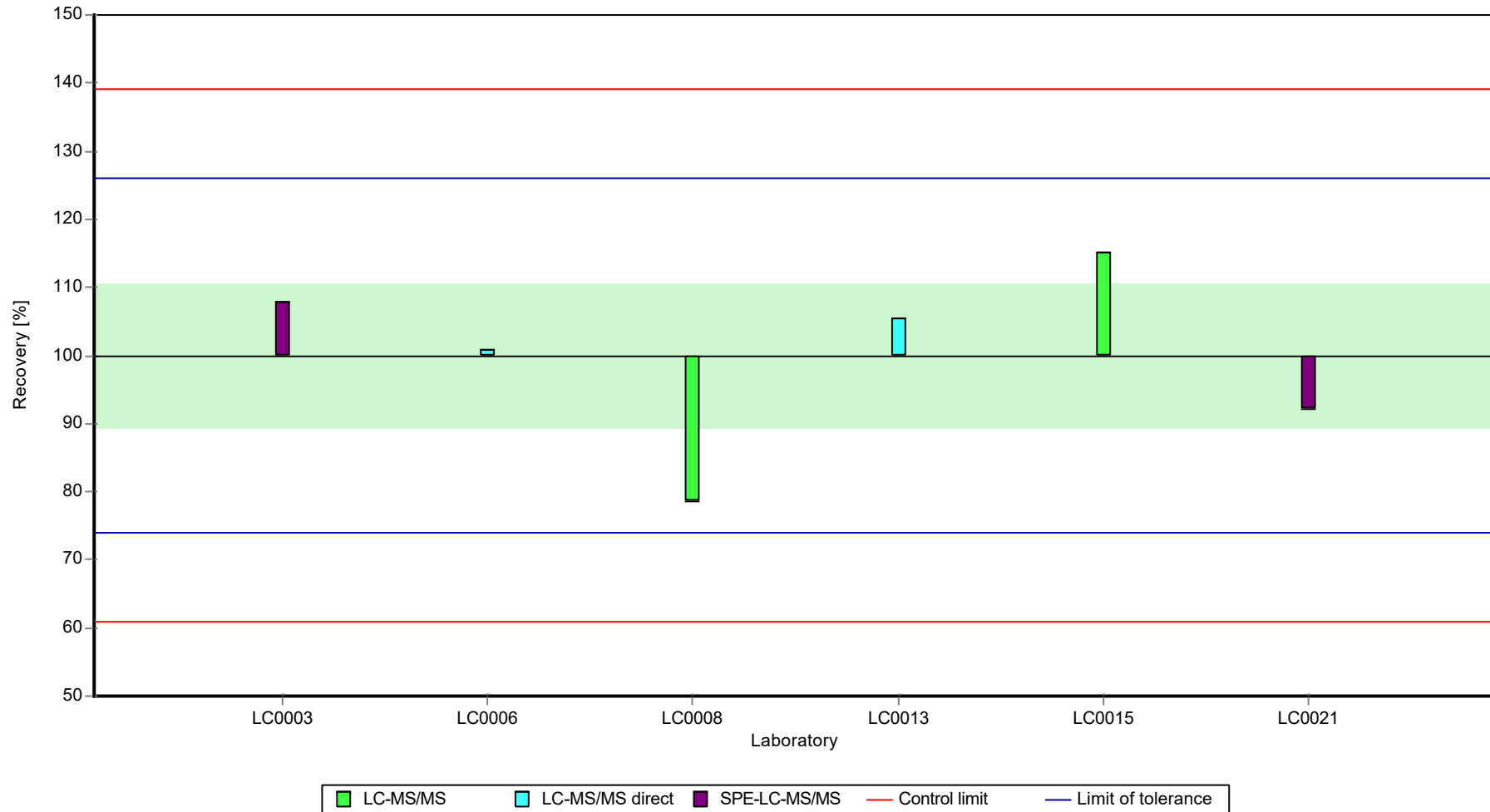
**Graphical presentation of results**  
**Results**



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

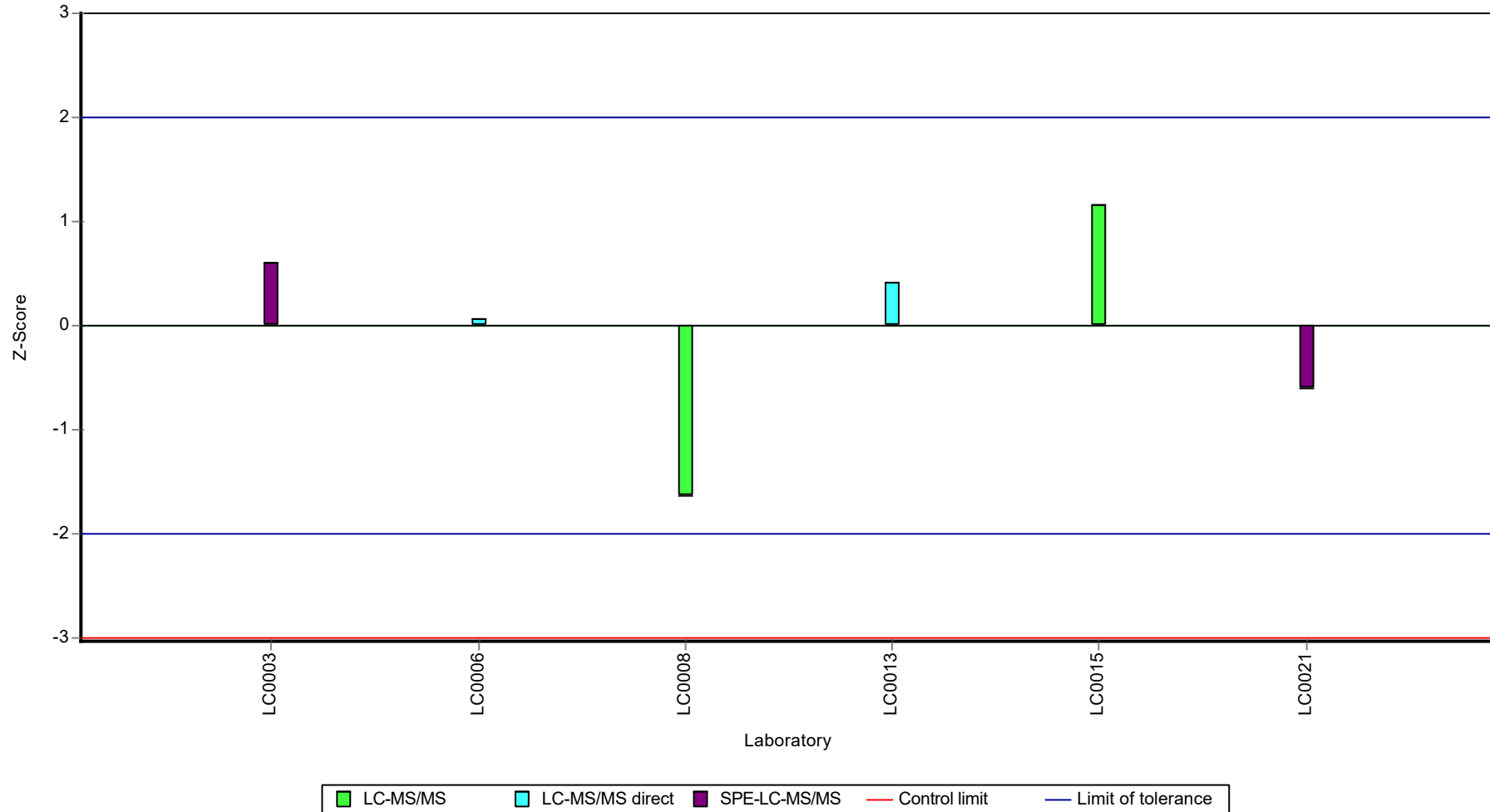
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

## Parameter oriented report

### PF01 A

#### 4:2 Fluorotelomer sulfonate (4:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.0202 ± 0.00251
Criterion	0.00323 (16 %)
Minimum - Maximum	0.0158 - 0.0254
Control test value ± U (k=2)	0.0132 ± 0.00595

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0254	0.0038	126	1.61	
LC0004	-	-	-	-	
LC0005	0.0181	0.0063	89.7	-0.65	
LC0006	0.0206	0.00741	102	0.13	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.023	0.007	114	0.87	
LC0014	0.0211	0.00634	105	0.28	
LC0015	0.0208	0.0083	103	0.19	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	0.0176	0.0037	87.2	-0.8	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0158	0.0047	78.3	-1.36	

#### Characteristics of parameter

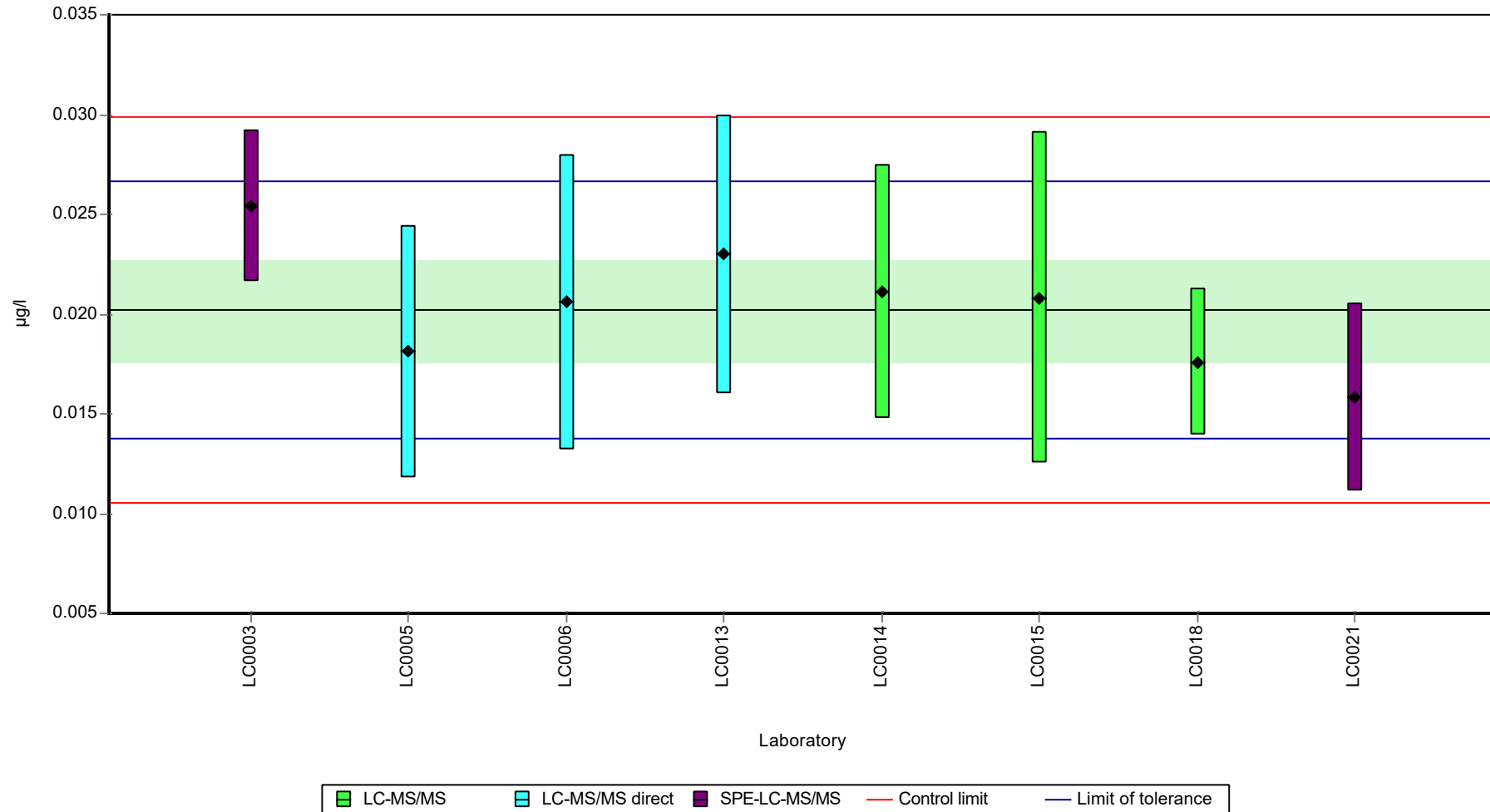
	all results	without outliers	Unit
Mean ± CI (99%)	0.0203 ± 0.00327	0.0203 ± 0.00327	µg/l
Minimum	0.0158	0.0158	µg/l
Maximum	0.0254	0.0254	µg/l
Standard deviation	0.00309	0.00309	µg/l
rel. standard deviation	15.2	15.2	%
n	8	8	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

Graphical presentation of results

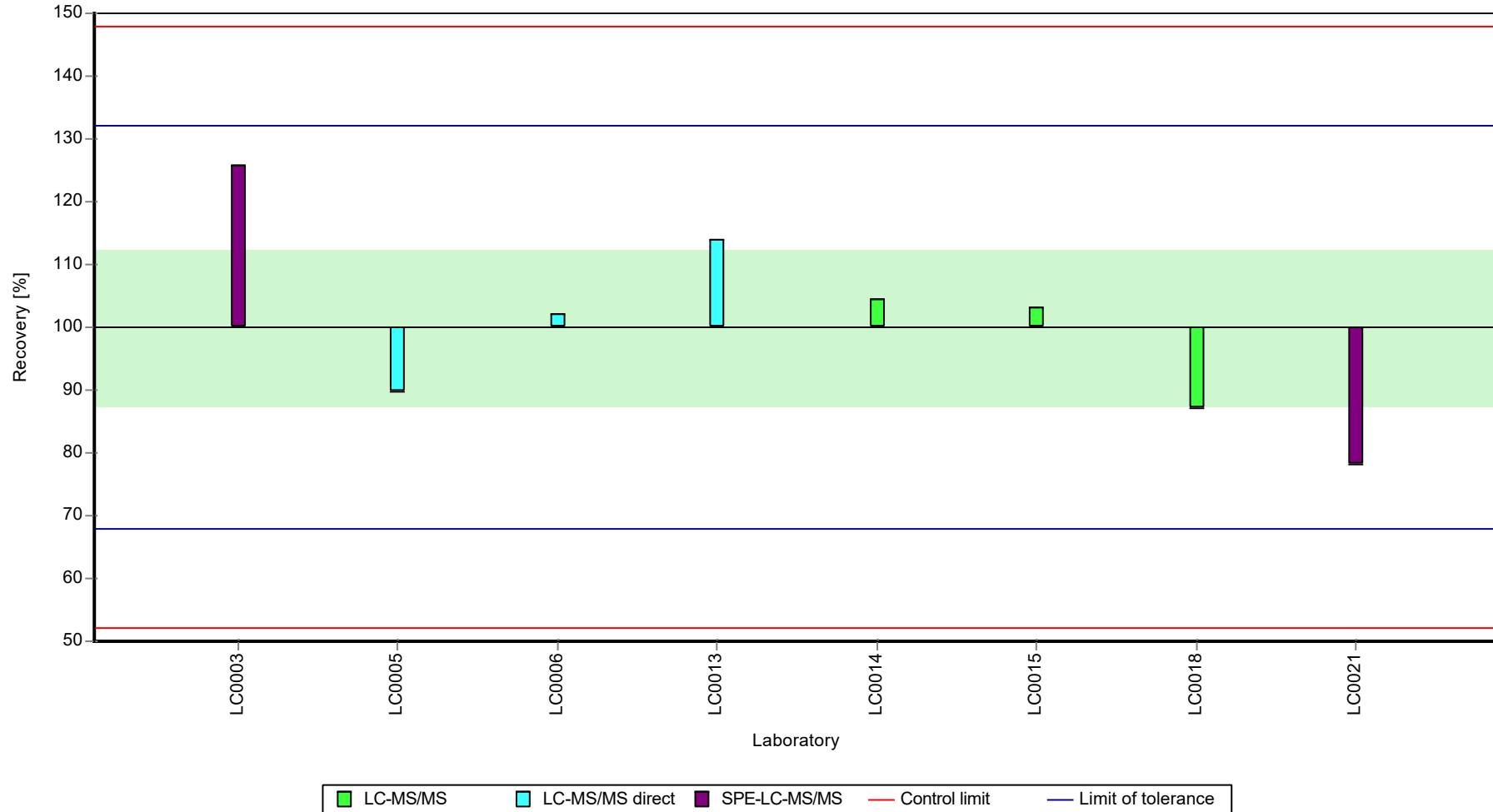
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

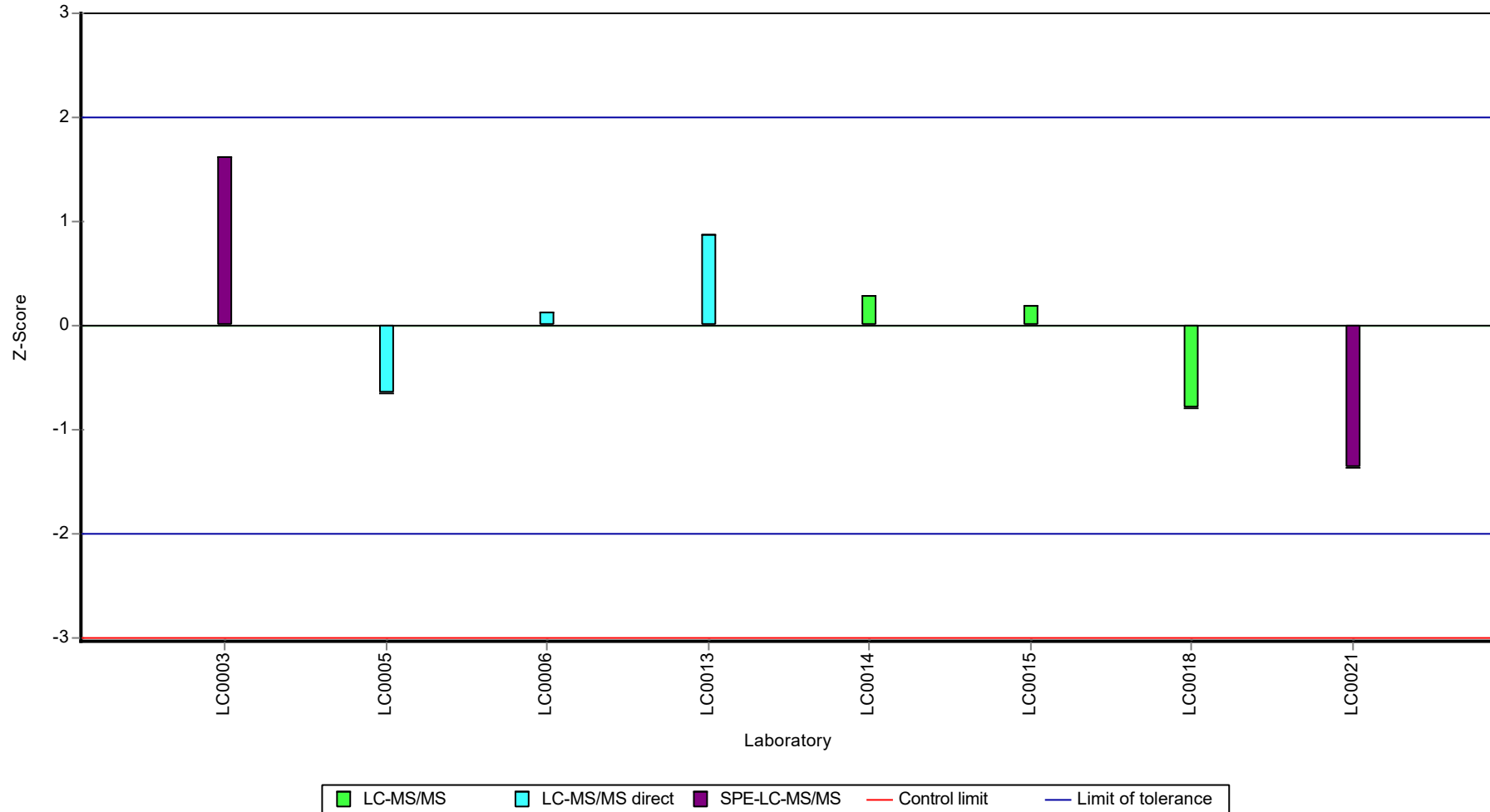
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

## Parameter oriented report

### PF01 B

#### 4:2 Fluorotelomer sulfonate (4:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.0847 ± 0.00815
Criterion	0.0135 (16 %)
Minimum - Maximum	0.0684 - 0.0938
Control test value ± U (k=2)	0.0518 ± 0.0233

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0938	0.014	111	0.68	
LC0004	-	-	-	-	
LC0005	0.0832	0.0291	98.3	-0.11	
LC0006	0.0785	0.02824	92.7	-0.45	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.093	0.028	110	0.62	
LC0014	0.0799	0.024	94.4	-0.35	
LC0015	0.1145	0.0458	135	2.2	H
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	0.091	0.0325	108	0.47	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0684	0.0205	80.8	-1.2	

#### Characteristics of parameter

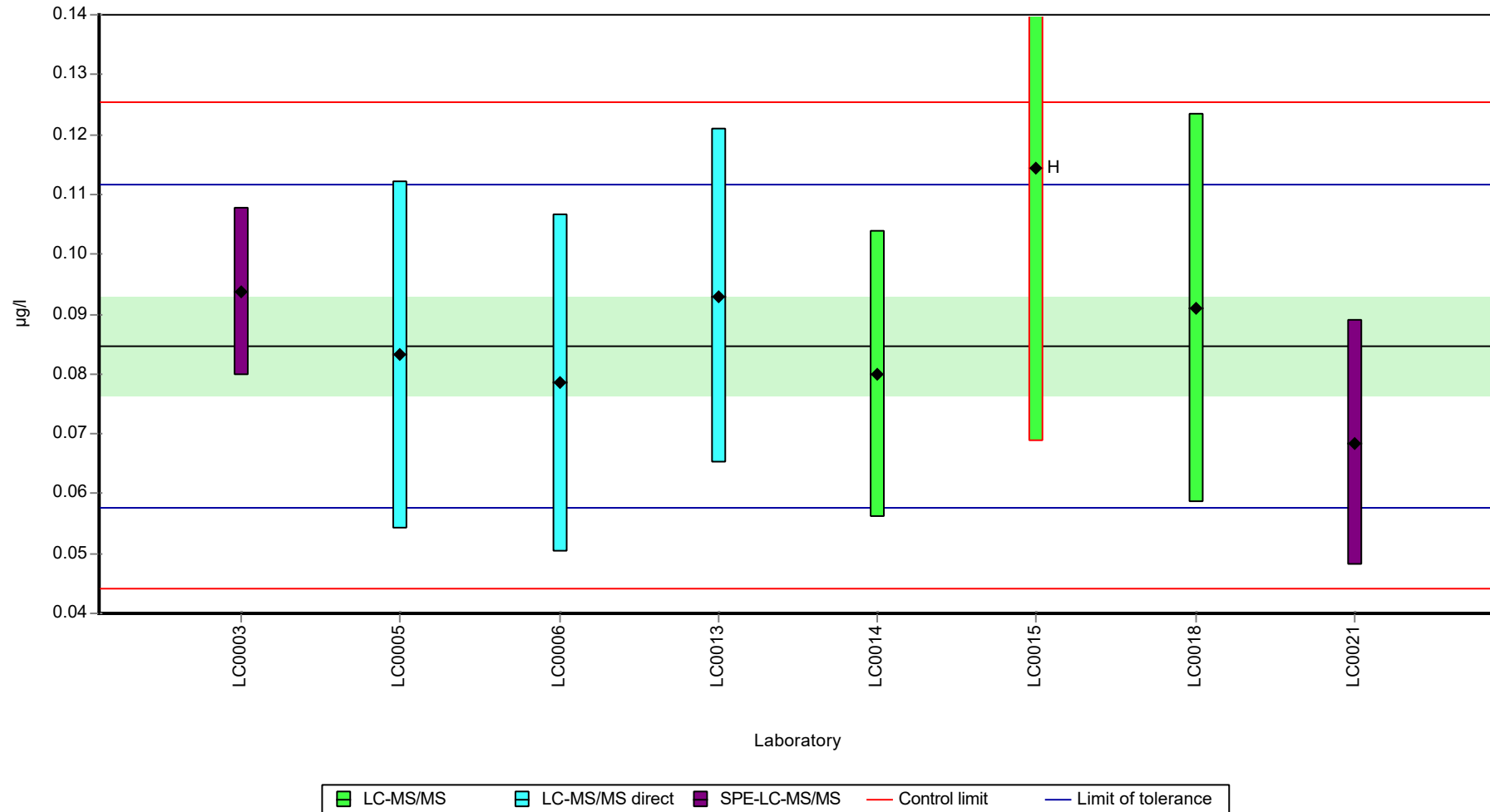
	all results	without outliers	Unit
Mean ± CI (99%)	0.0878 ± 0.0146	0.084 ± 0.0105	µg/l
Minimum	0.0684	0.0684	µg/l
Maximum	0.115	0.0938	µg/l
Standard deviation	0.0138	0.00928	µg/l
rel. standard deviation	15.7	11.1	%
n	8	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

Graphical presentation of results

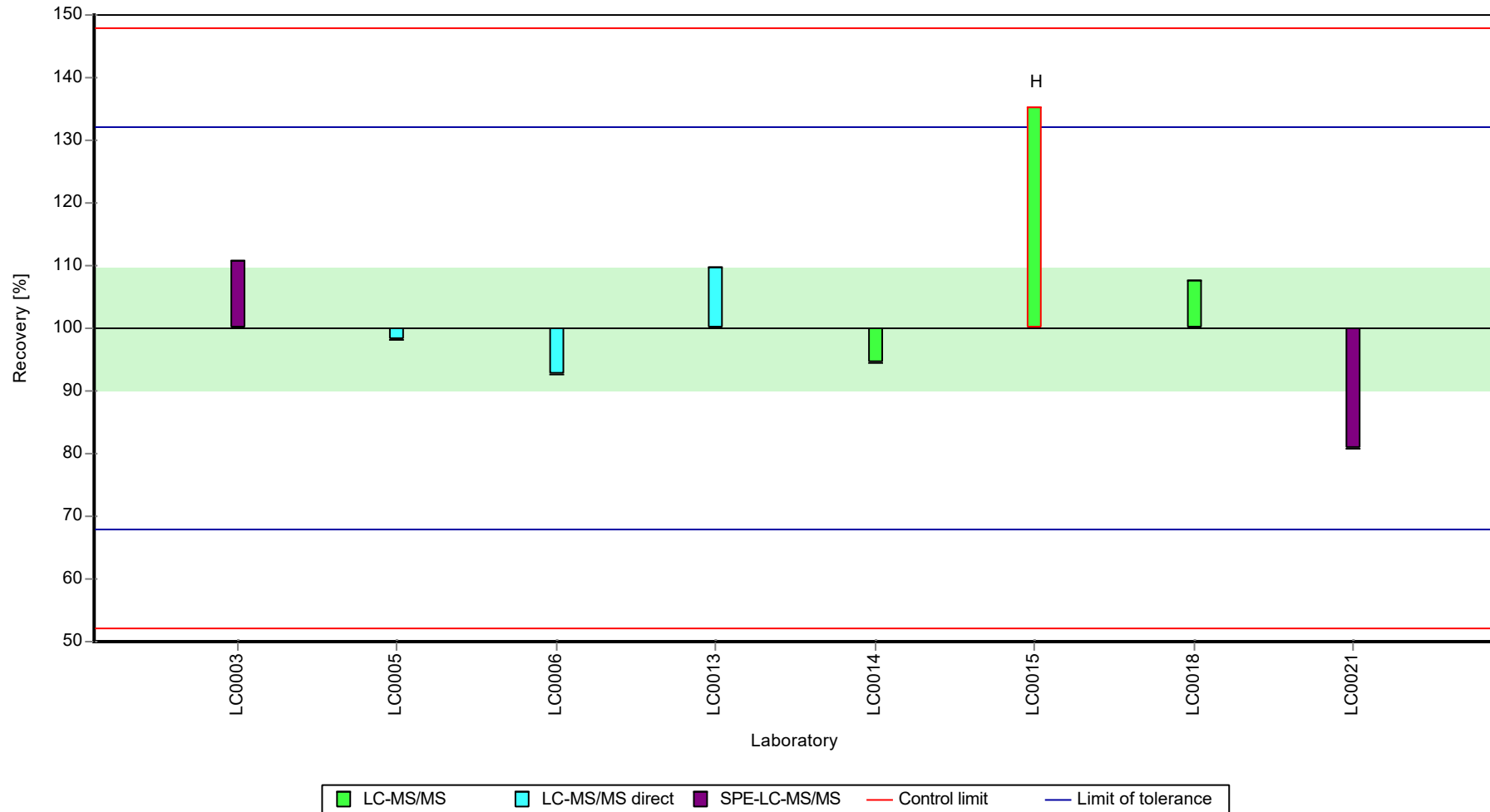
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

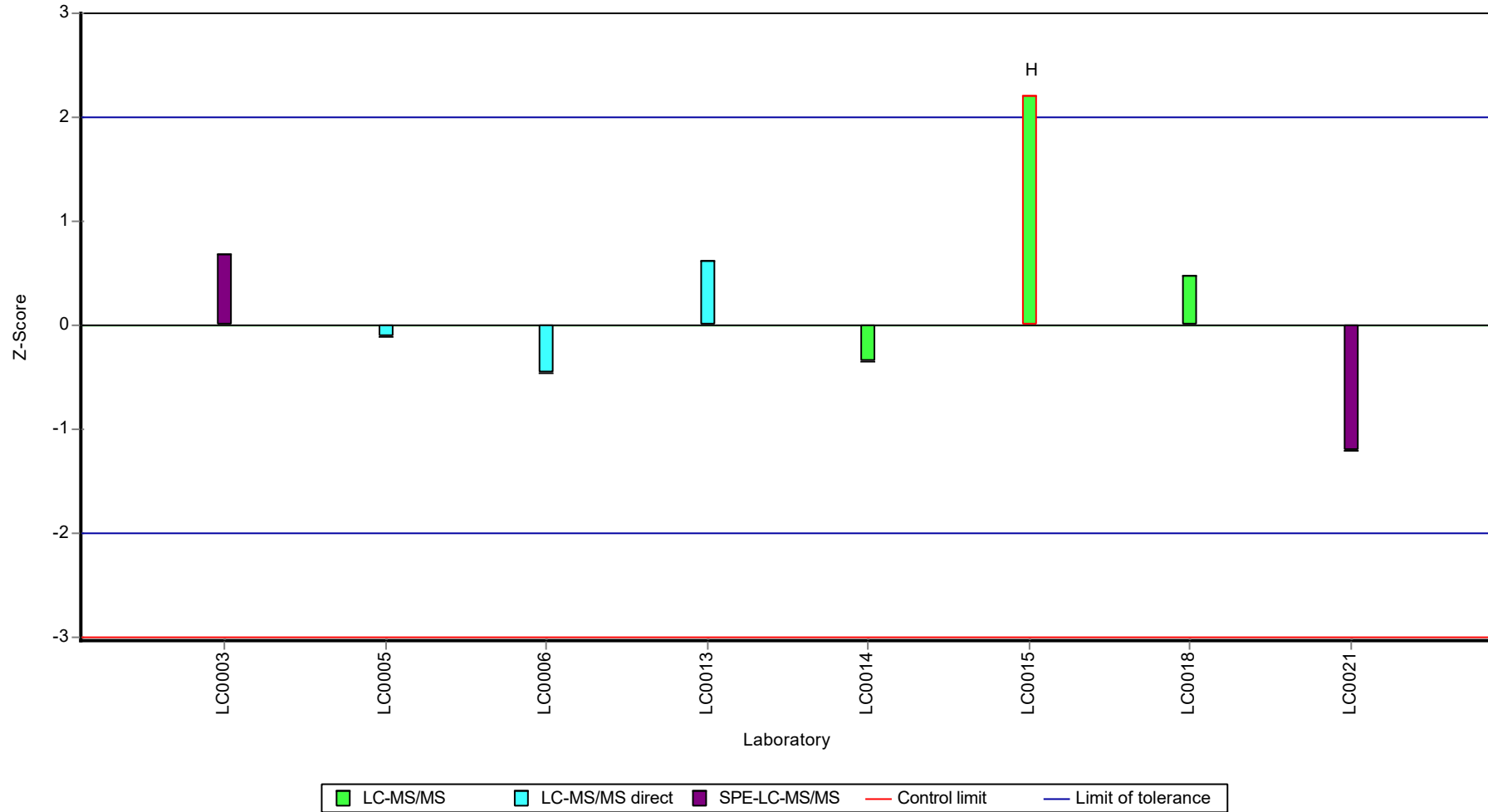
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 4:2 Fluorotelomer sulfonate (4:2 FTS)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

## Parameter oriented report

### PF01 A

#### 6:2 Fluorotelomer sulfonate (6:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.0197 ± 0.00167
Criterion	0.00276 (14 %)
Minimum - Maximum	0.0147 - 0.0254
Control test value ± U (k=2)	0.0160 ± 0.00641

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.019	0.002	96.2	-0.27	
LC0003	0.0254	0.0038	129	2.05	
LC0004	-	-	-	-	
LC0005	0.0201	0.008	102	0.13	
LC0006	0.0187	0.00672	94.7	-0.38	
LC0007	0.021	0.004	106	0.45	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.02069	0.01303	105	0.34	
LC0013	0.022	0.007	111	0.82	
LC0014	0.0202	0.00605	102	0.16	
LC0015	0.0184	0.0074	93.2	-0.49	
LC0016	0.0331	0.005	168	4.83	H
LC0017	-	-	-	-	
LC0018	0.017	0.0062	86.1	-0.99	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0147	0.0044	74.5	-1.82	

#### Characteristics of parameter

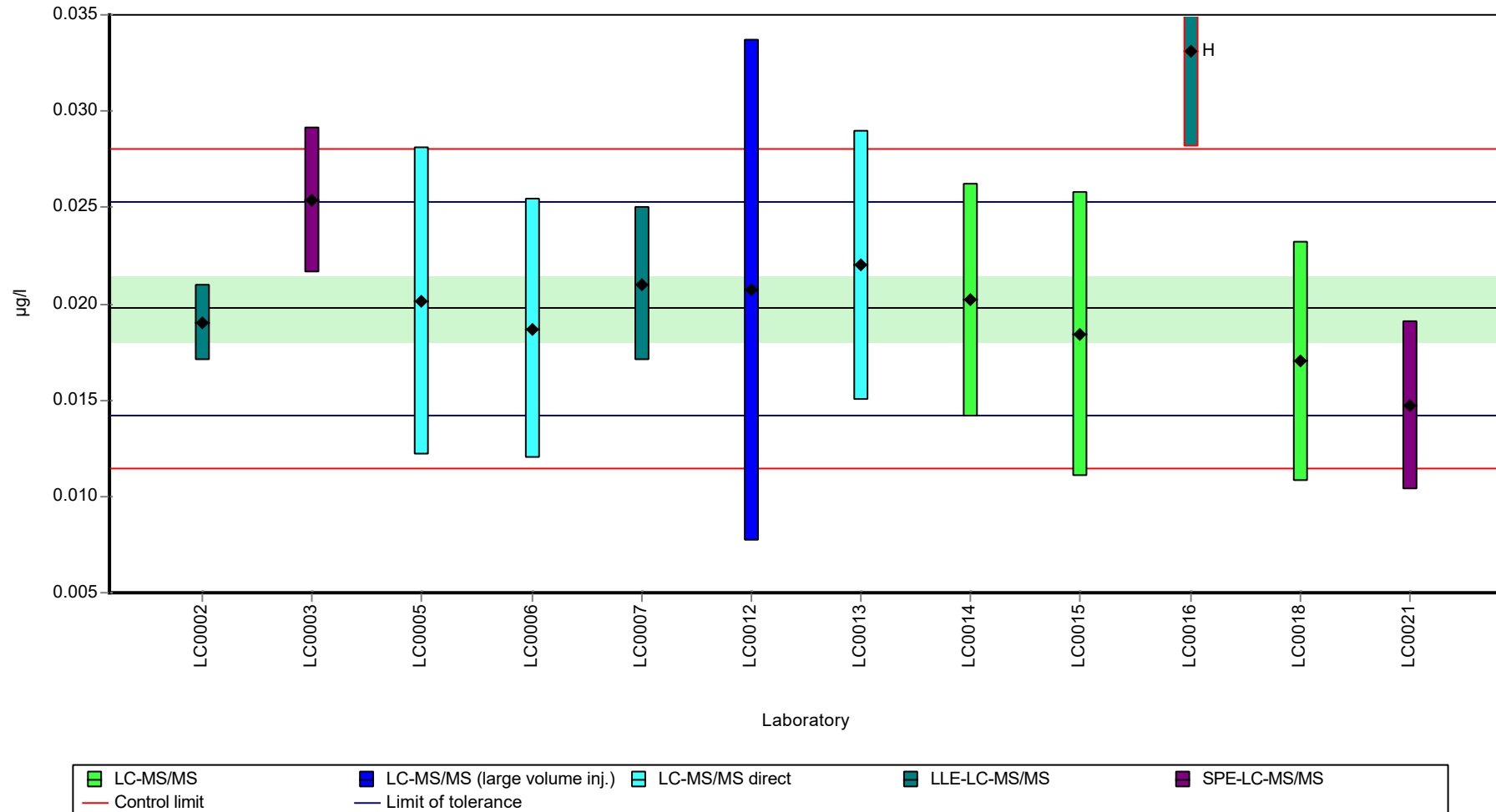
	all results	without outliers	Unit
Mean ± CI (99%)	0.0209 ± 0.00404	0.0197 ± 0.0025	µg/l
Minimum	0.0147	0.0147	µg/l
Maximum	0.0331	0.0254	µg/l
Standard deviation	0.00467	0.00276	µg/l
rel. standard deviation	22.4	14 %	
n	12	11	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

Graphical presentation of results

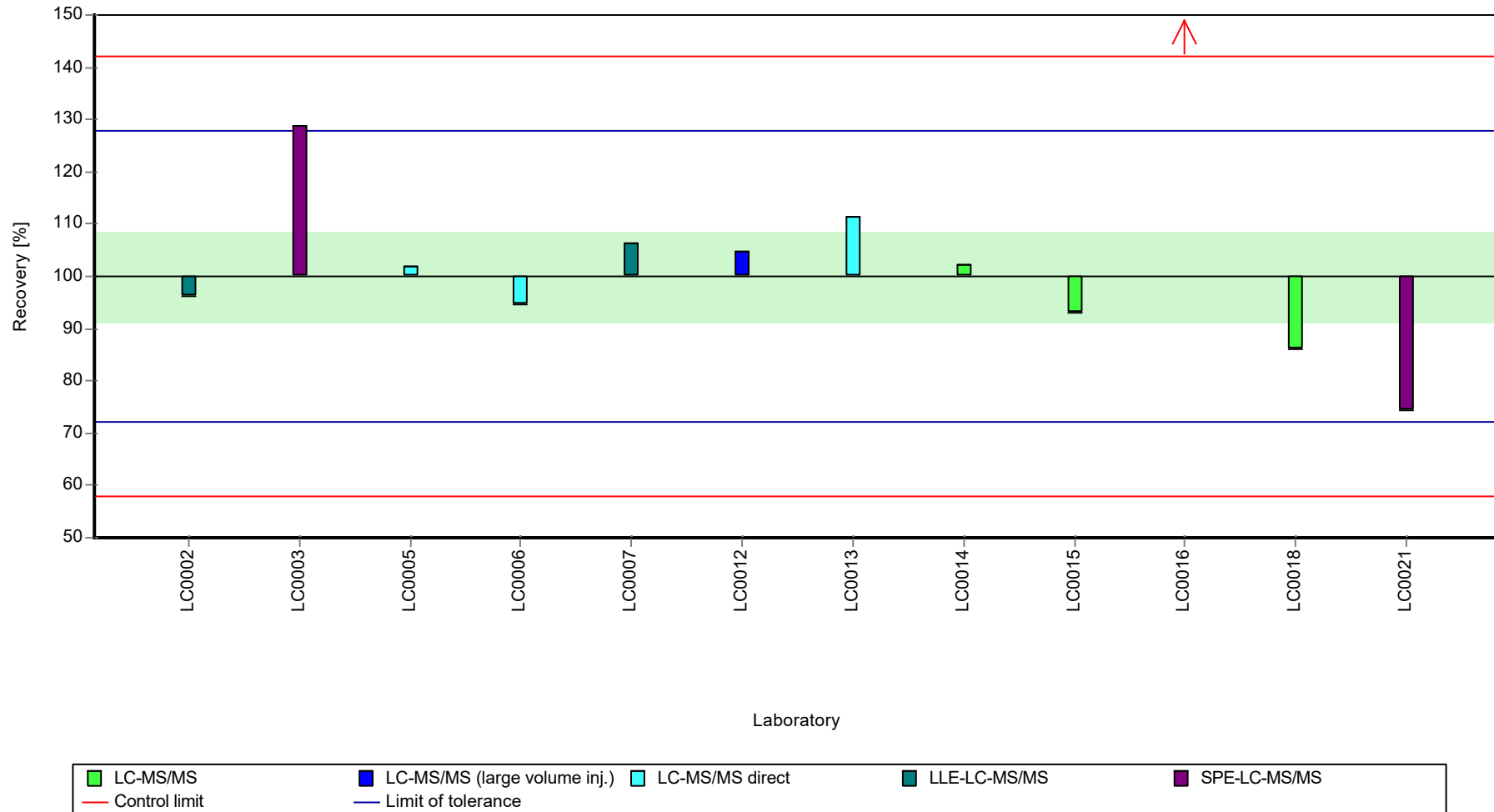
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

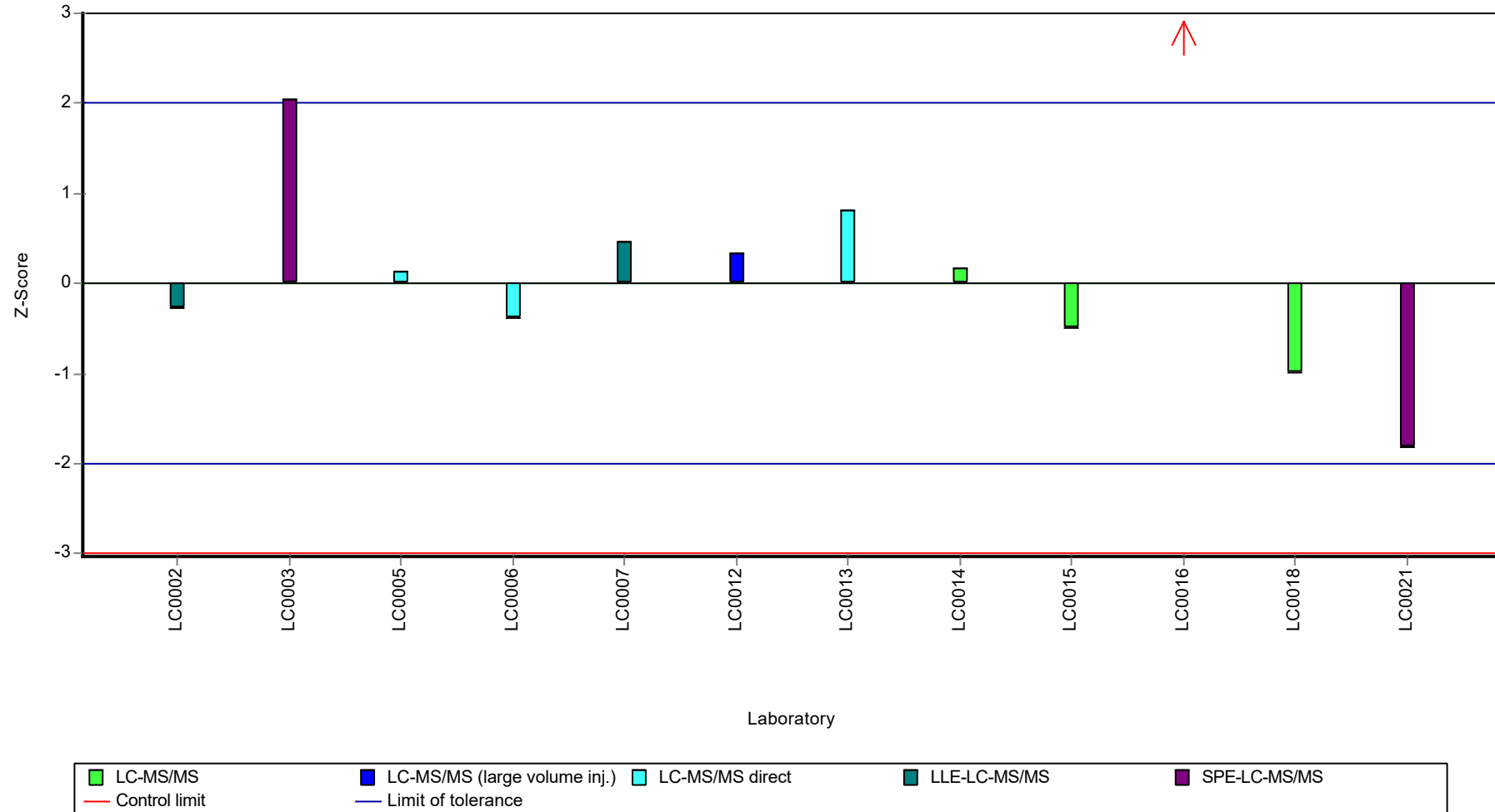
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

## Parameter oriented report

### PF01 B

#### 6:2 Fluorotelomer sulfonate (6:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.17 ± 0.0112
Criterion	0.0187 (11 %)
Minimum - Maximum	0.146 - 0.214
Control test value ± U (k=2)	0.156 ± 0.0626

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	0.146	0.002	86	-1.27	
LC0003	0.214	0.032	126	2.37	
LC0004	-	-	-	-	
LC0005	0.1737	0.0695	102	0.21	
LC0006	0.159	0.05723	93.6	-0.58	
LC0007	0.162	0.03	95.4	-0.42	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	0.17158	0.1081	101	0.09	
LC0013	0.179	0.054	105	0.49	
LC0014	0.158	0.0473	93	-0.63	
LC0015	0.0432	0.0173	25.4	-6.78	H
LC0016	0.174	0.026	102	0.22	
LC0017	-	-	-	-	
LC0018	0.1506	0.0278	88.7	-1.03	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.18	0.054	106	0.55	

#### Characteristics of parameter

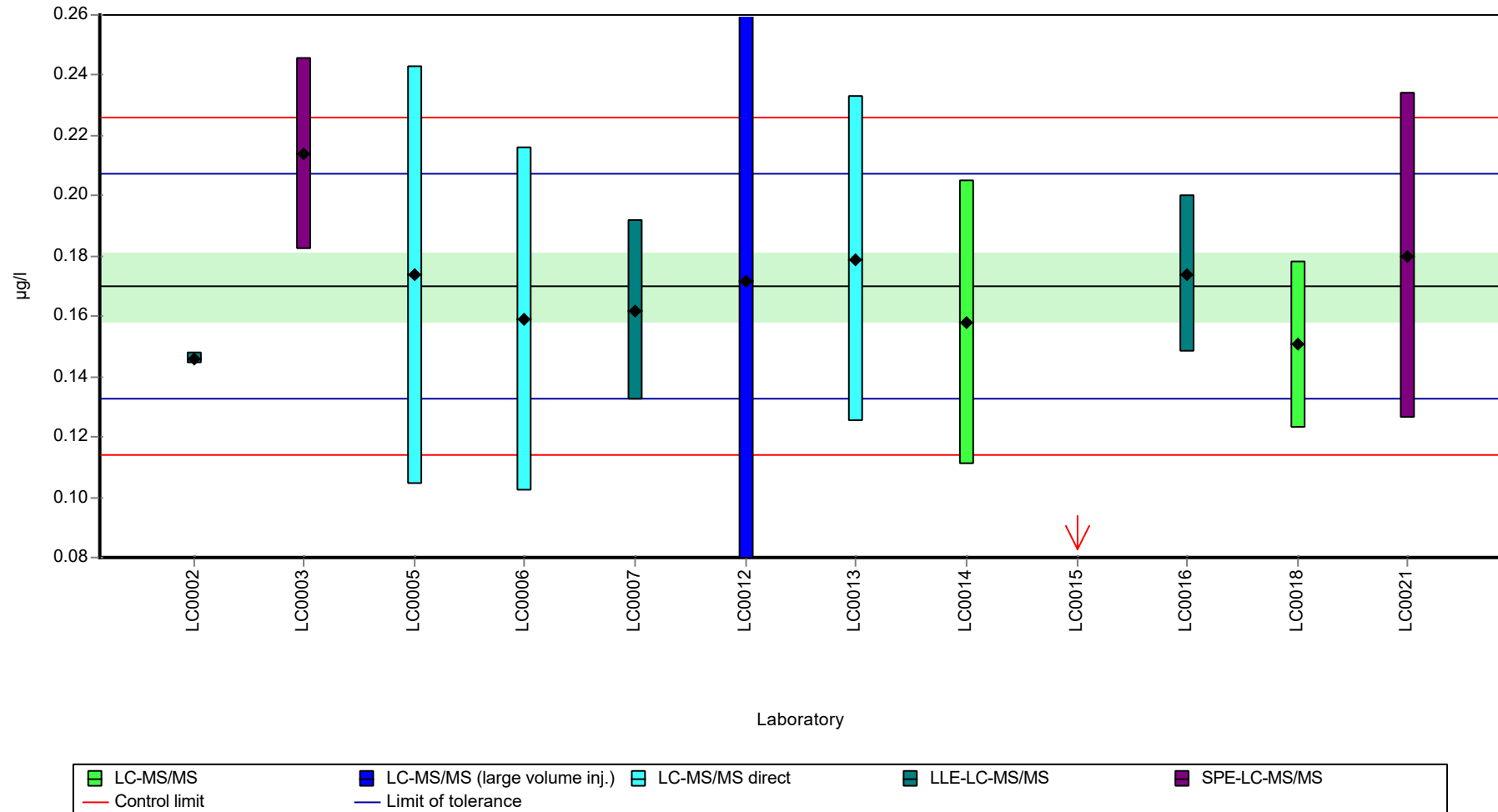
	all results	without outliers	Unit
Mean ± CI (99%)	0.159 ± 0.0352	0.17 ± 0.0168	µg/l
Minimum	0.0432	0.146	µg/l
Maximum	0.214	0.214	µg/l
Standard deviation	0.0406	0.0185	µg/l
rel. standard deviation	25.5	10.9 %	
n	12	11	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

Graphical presentation of results

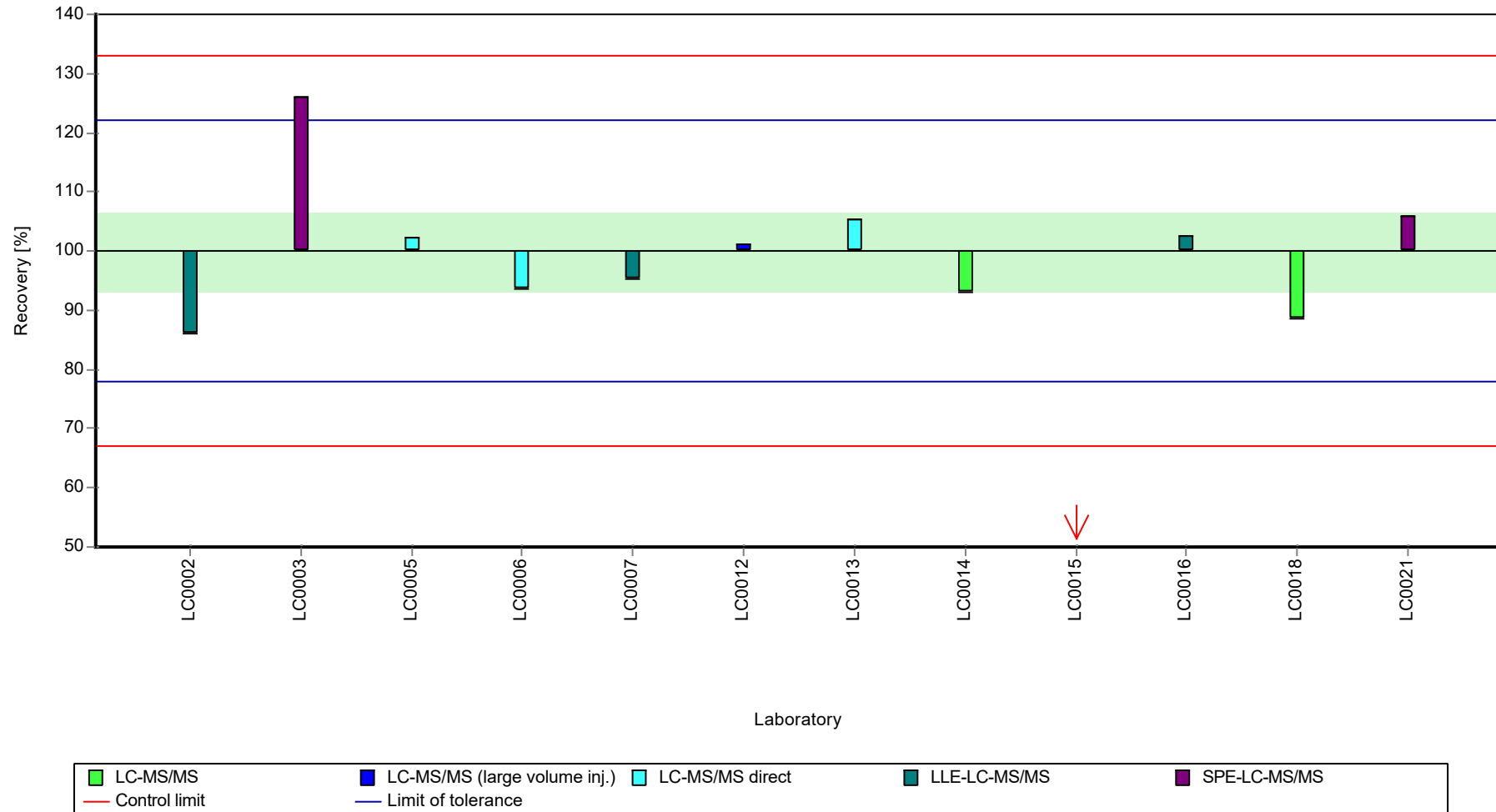
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

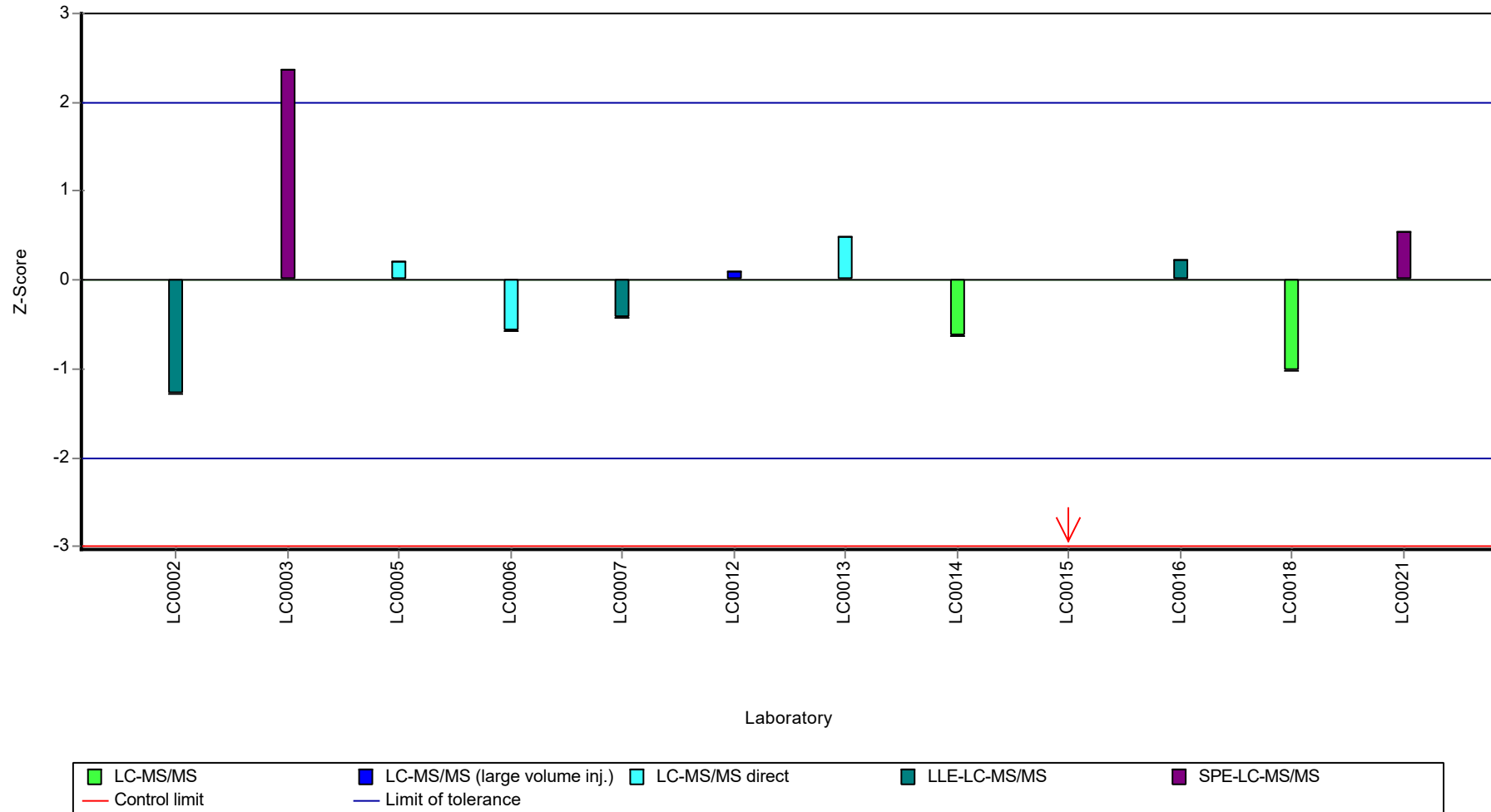
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 6:2 Fluorotelomer sulfonate (6:2 FTS)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

## Parameter oriented report

### PF01 A

#### 8:2 Fluorotelomer sulfonate (8:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.0348 ± 0.00592
Criterion	0.00835 (24 %)
Minimum - Maximum	0.022 - 0.049
Control test value ± U (k=2)	0.0281 ± 0.0126

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.044	0.0066	126	1.1	
LC0004	-	-	-	-	
LC0005	0.0332	0.0083	95.4	-0.19	
LC0006	0.0346	0.01246	99.5	-0.02	
LC0007	0.049	0.01	141	1.7	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.058	0.017	167	2.78	H
LC0014	0.0339	0.0102	97.4	-0.11	
LC0015	0.0324	0.013	93.1	-0.29	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	0.022	0.0094	63.2	-1.53	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0292	0.0088	83.9	-0.67	

#### Characteristics of parameter

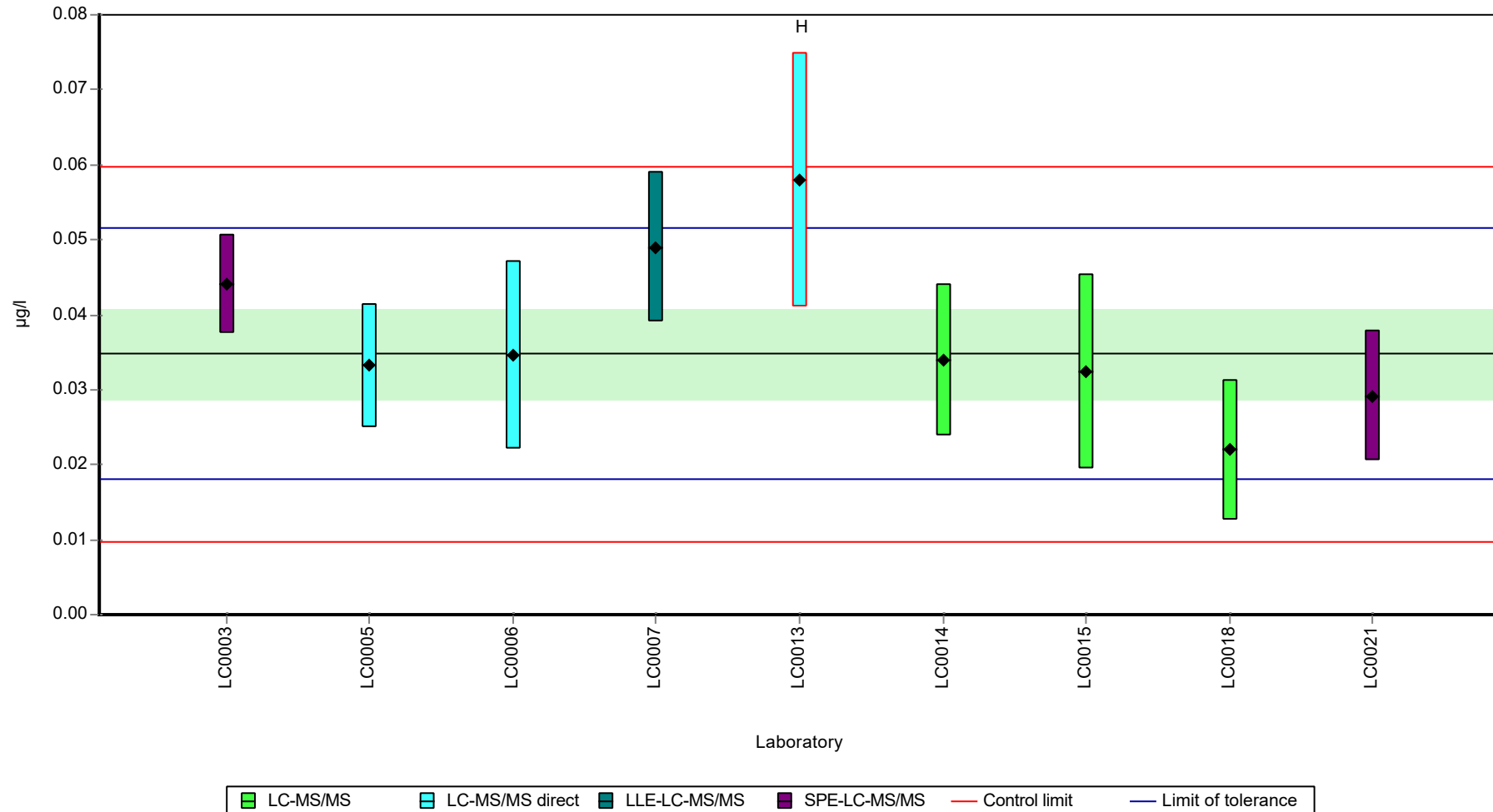
	all results	without outliers	Unit
Mean ± CI (99%)	0.0374 ± 0.011	0.0348 ± 0.00888	µg/l
Minimum	0.022	0.022	µg/l
Maximum	0.058	0.049	µg/l
Standard deviation	0.011	0.00837	µg/l
rel. standard deviation	29.5	24.1	%
n	9	8	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

Graphical presentation of results

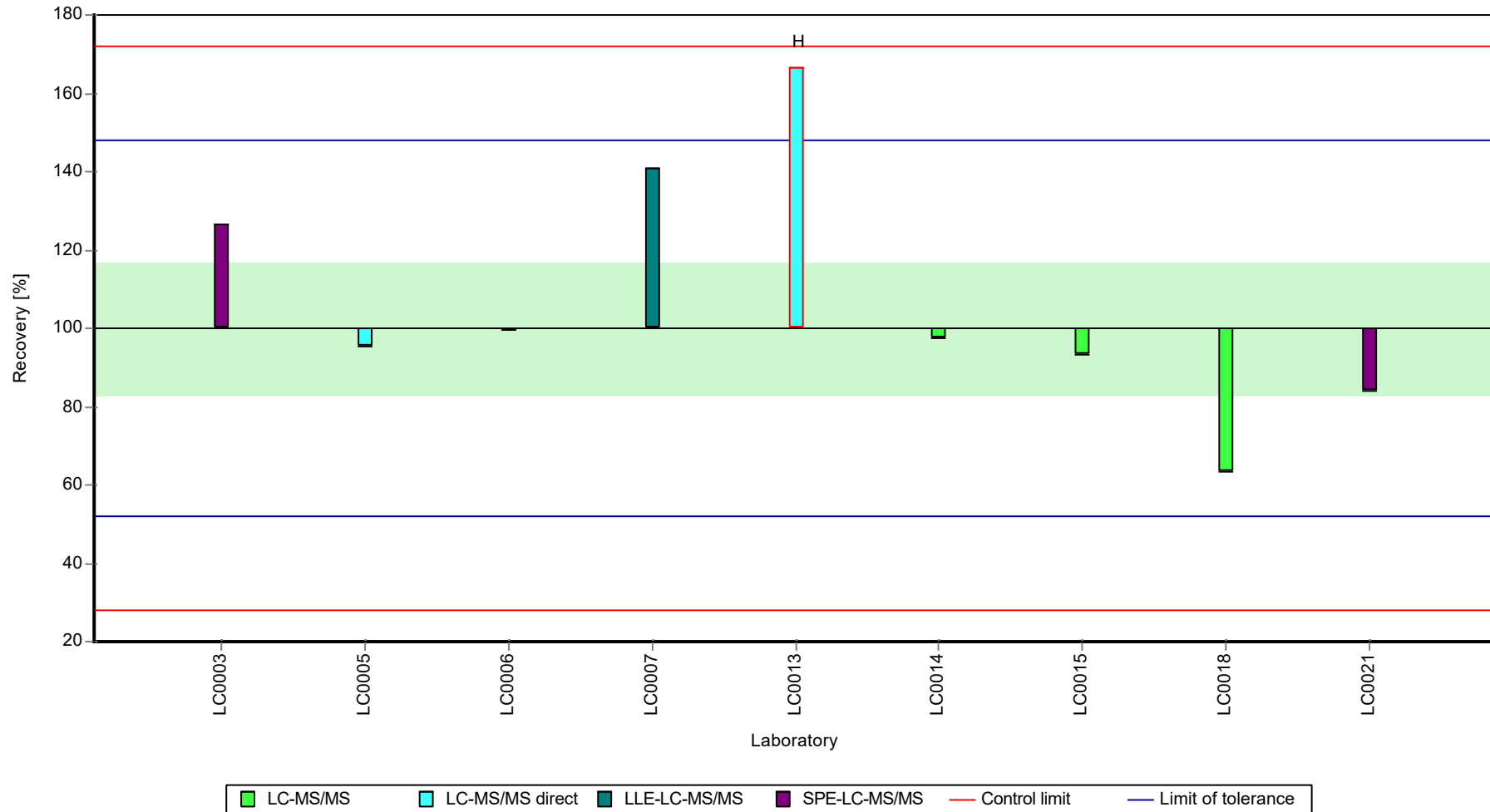
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

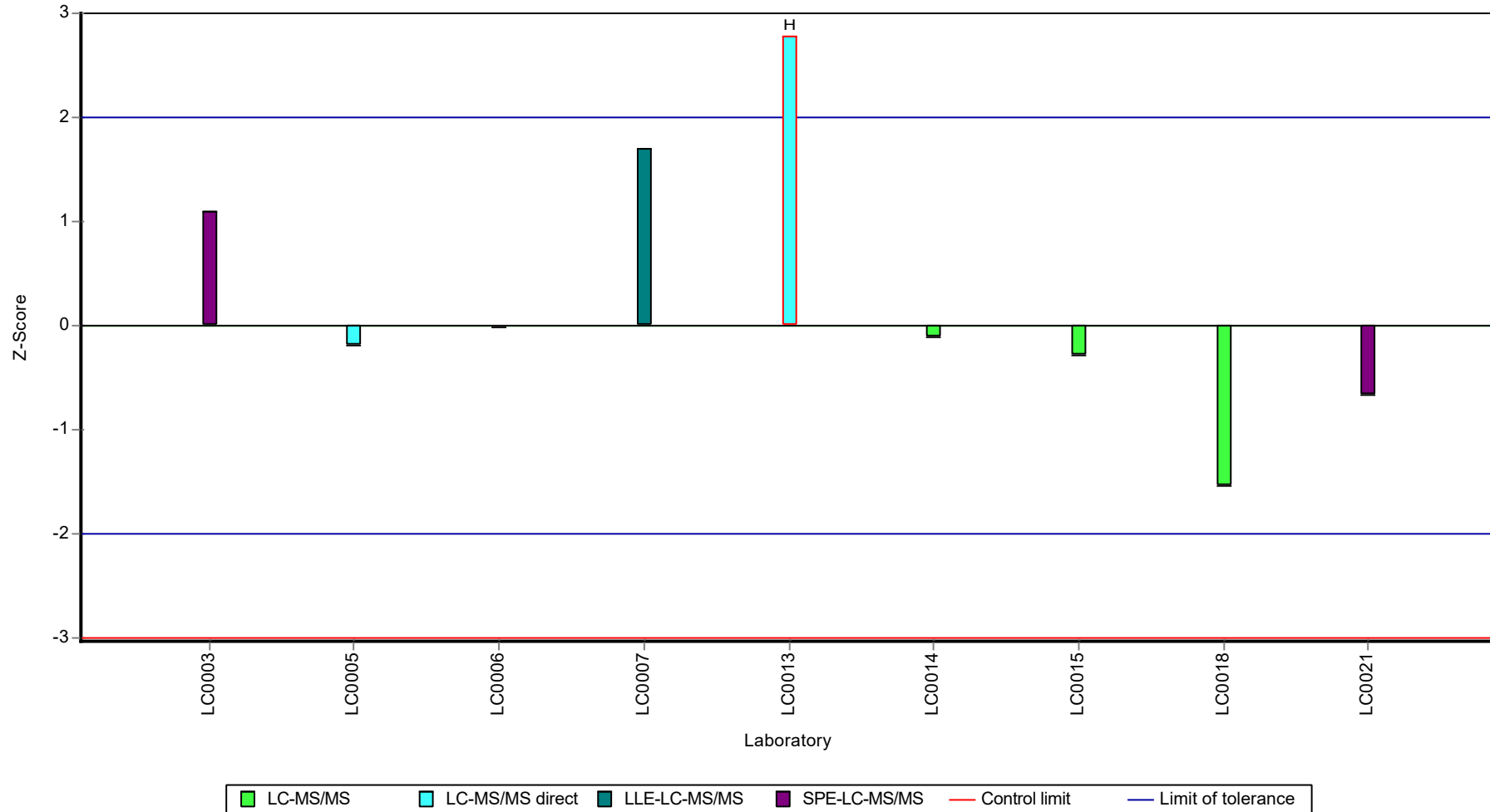
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

## Parameter oriented report

### PF01 B

#### 8:2 Fluorotelomer sulfonate (8:2 FTS)

Unit	µg/l
Assigned value ± U (k=2)	0.113 ± 0.0186
Criterion	0.0261 (23 %)
Minimum - Maximum	0.0759 - 0.146
Control test value ± U (k=2)	0.0734 ± 0.033

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.14	0.021	124	1.02	
LC0004	-	-	-	-	
LC0005	0.1044	0.0261	92.1	-0.34	
LC0006	0.1099	0.03955	97	-0.13	
LC0007	0.142	0.03	125	1.1	
LC0008	-	-	-	-	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.146	0.044	129	1.25	
LC0014	0.111	0.0334	98	-0.09	
LC0015	0.0964	0.0386	85.1	-0.65	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	0.0759	0.0337	67	-1.44	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0918	0.0275	81	-0.83	

#### Characteristics of parameter

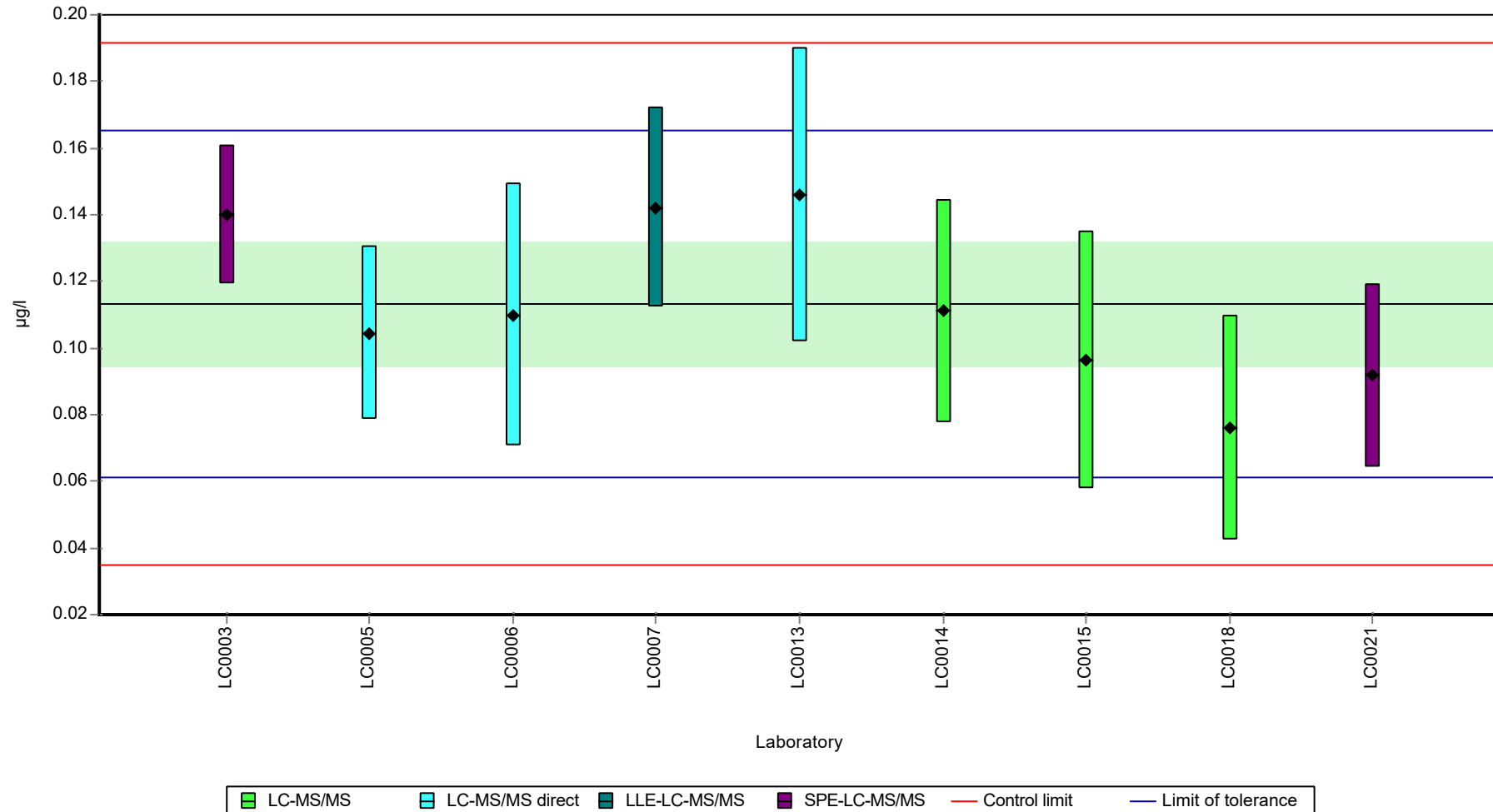
	all results	without outliers	Unit
Mean ± CI (99%)	0.113 ± 0.0246	0.113 ± 0.0246	µg/l
Minimum	0.0759	0.0759	µg/l
Maximum	0.146	0.146	µg/l
Standard deviation	0.0246	0.0246	µg/l
rel. standard deviation	21.8	21.8	%
n	9	9	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

Graphical presentation of results

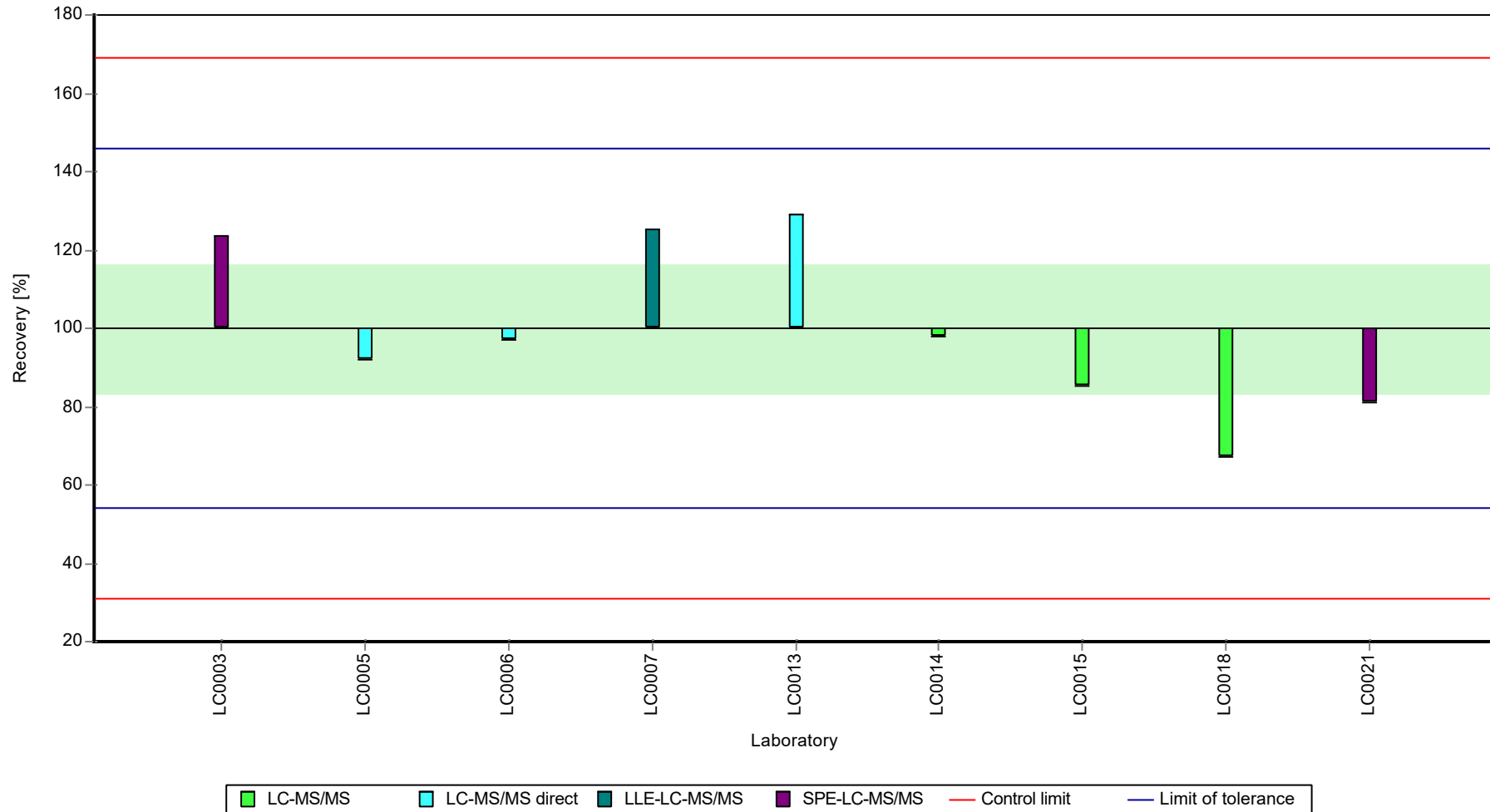
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

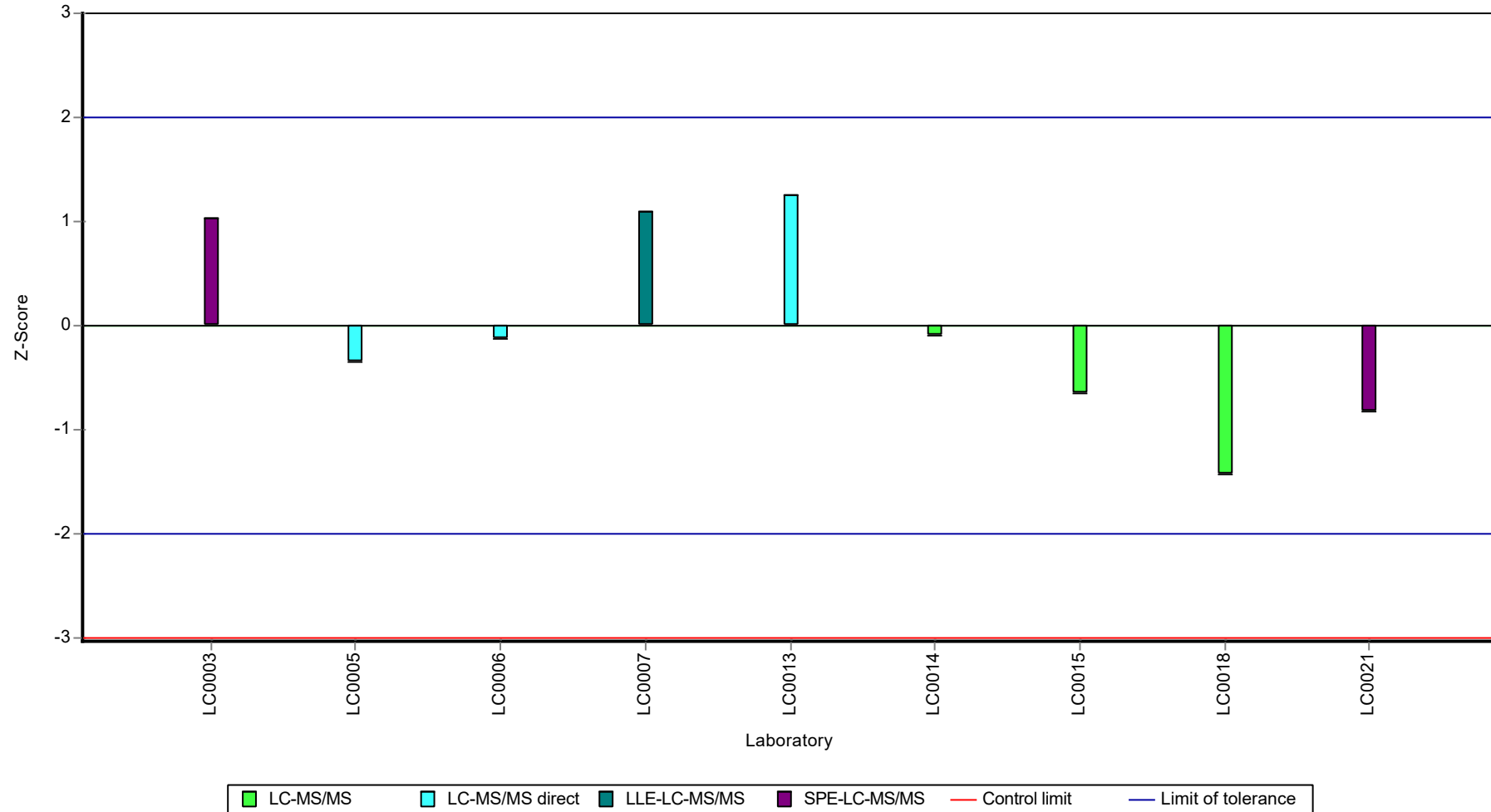
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 8:2 Fluorotelomer sulfonate (8:2 FTS)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

## Parameter oriented report

### PF01 A

#### Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Unit	µg/l
Assigned value ± U (k=2)	0.0298 ± 0.00268
Criterion	0.00357 (12 %)
Minimum - Maximum	0.0235 - 0.0352
Control test value ± U (k=2)	0.0265 ± 0.0119

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0287	0.0043	96.4	-0.3	
LC0004	-	-	-	-	
LC0005	0.0286	0.0114	96.1	-0.33	
LC0006	0.03	0.0108	101	0.06	
LC0007	-	-	-	-	
LC0008	0.046	0.014	155	4.54	H
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.031	0.009	104	0.34	
LC0014	0.0352	0.0106	118	1.52	
LC0015	0.0235	0.0094	78.9	-1.76	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0314	0.0094	105	0.46	

#### Characteristics of parameter

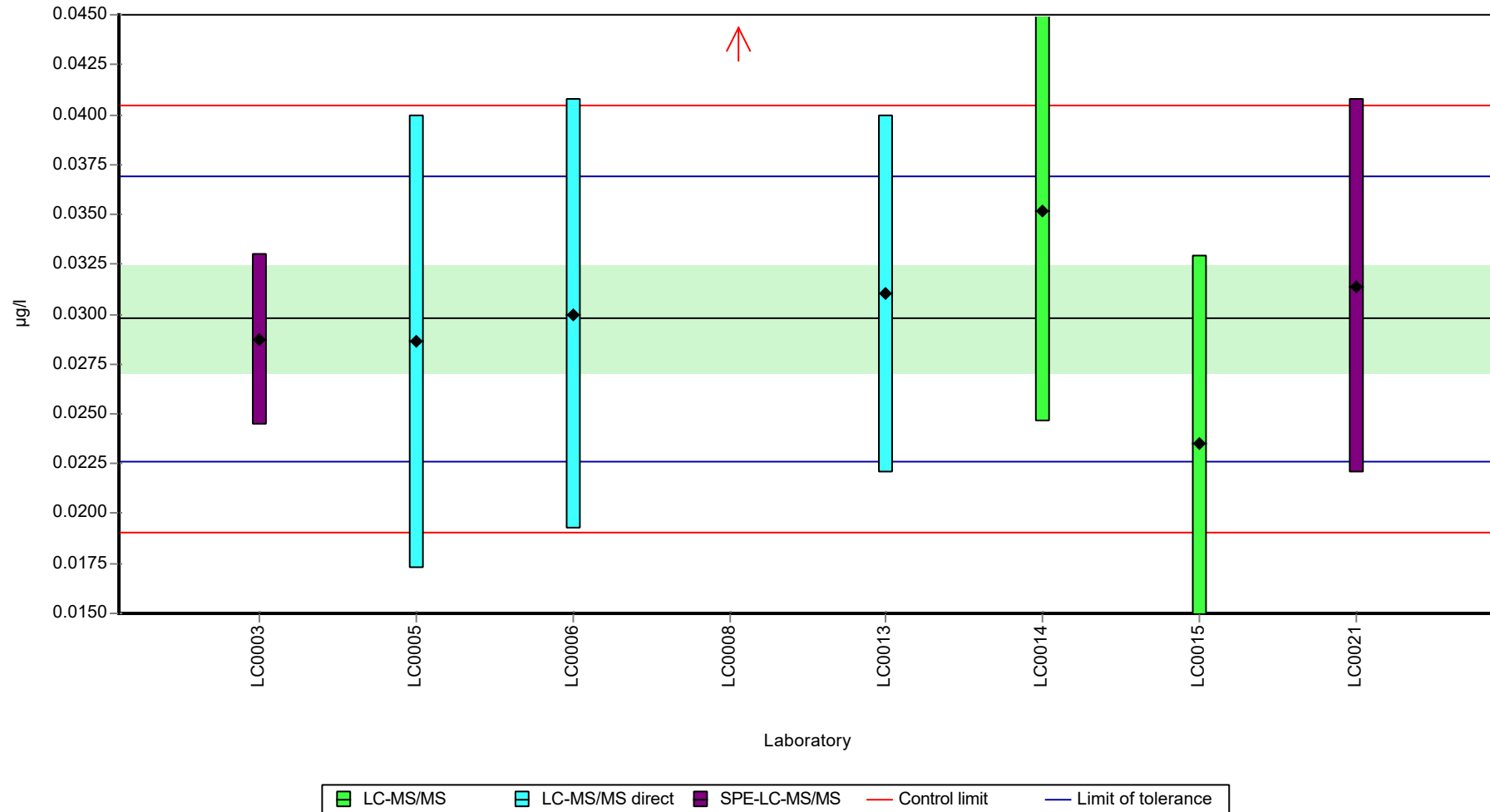
	all results	without outliers	Unit
Mean ± CI (99%)	0.0318 ± 0.00701	0.0298 ± 0.00402	µg/l
Minimum	0.0235	0.0235	µg/l
Maximum	0.046	0.0352	µg/l
Standard deviation	0.00661	0.00355	µg/l
rel. standard deviation	20.8	11.9 %	
n	8	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Graphical presentation of results

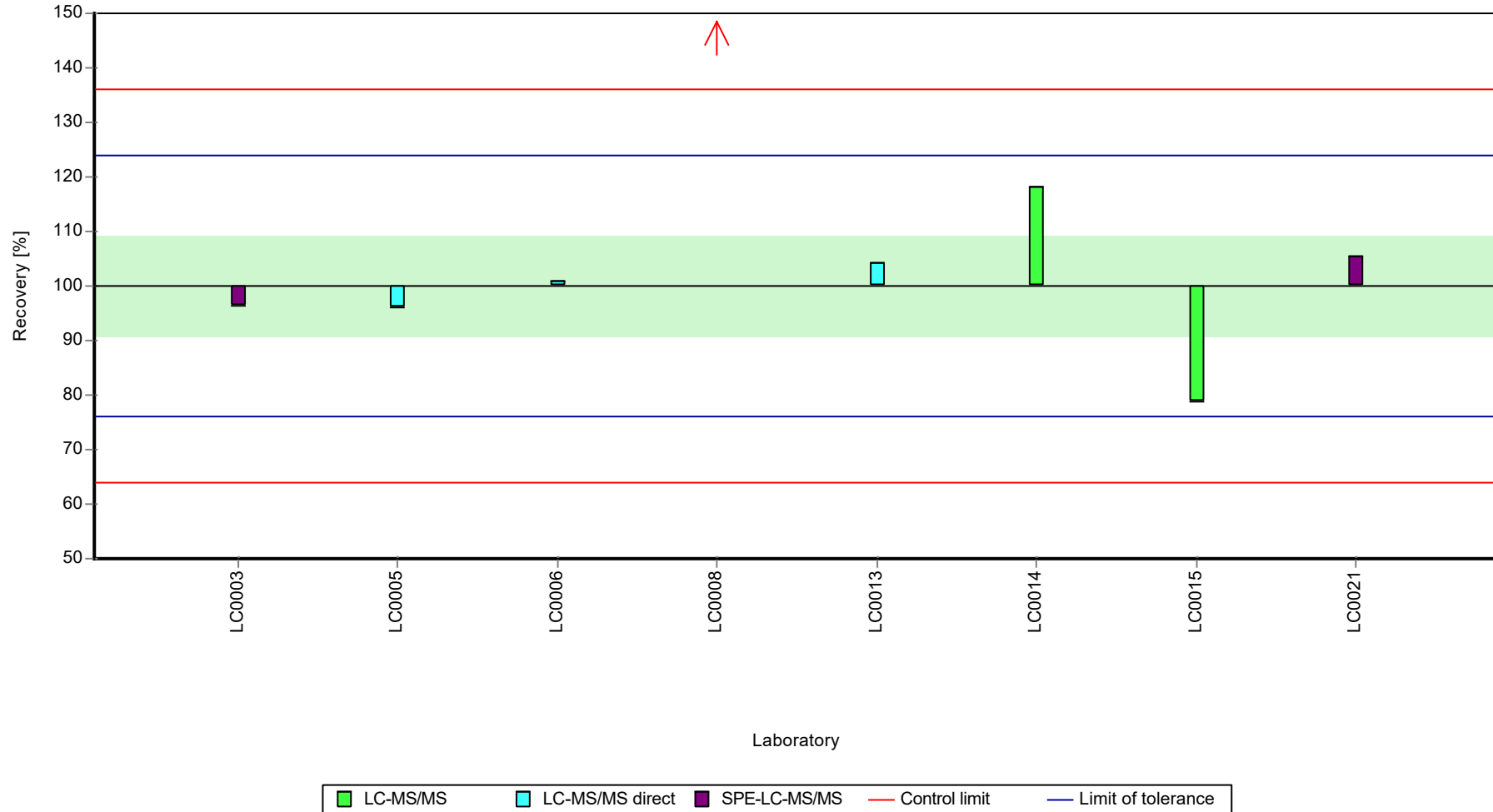
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

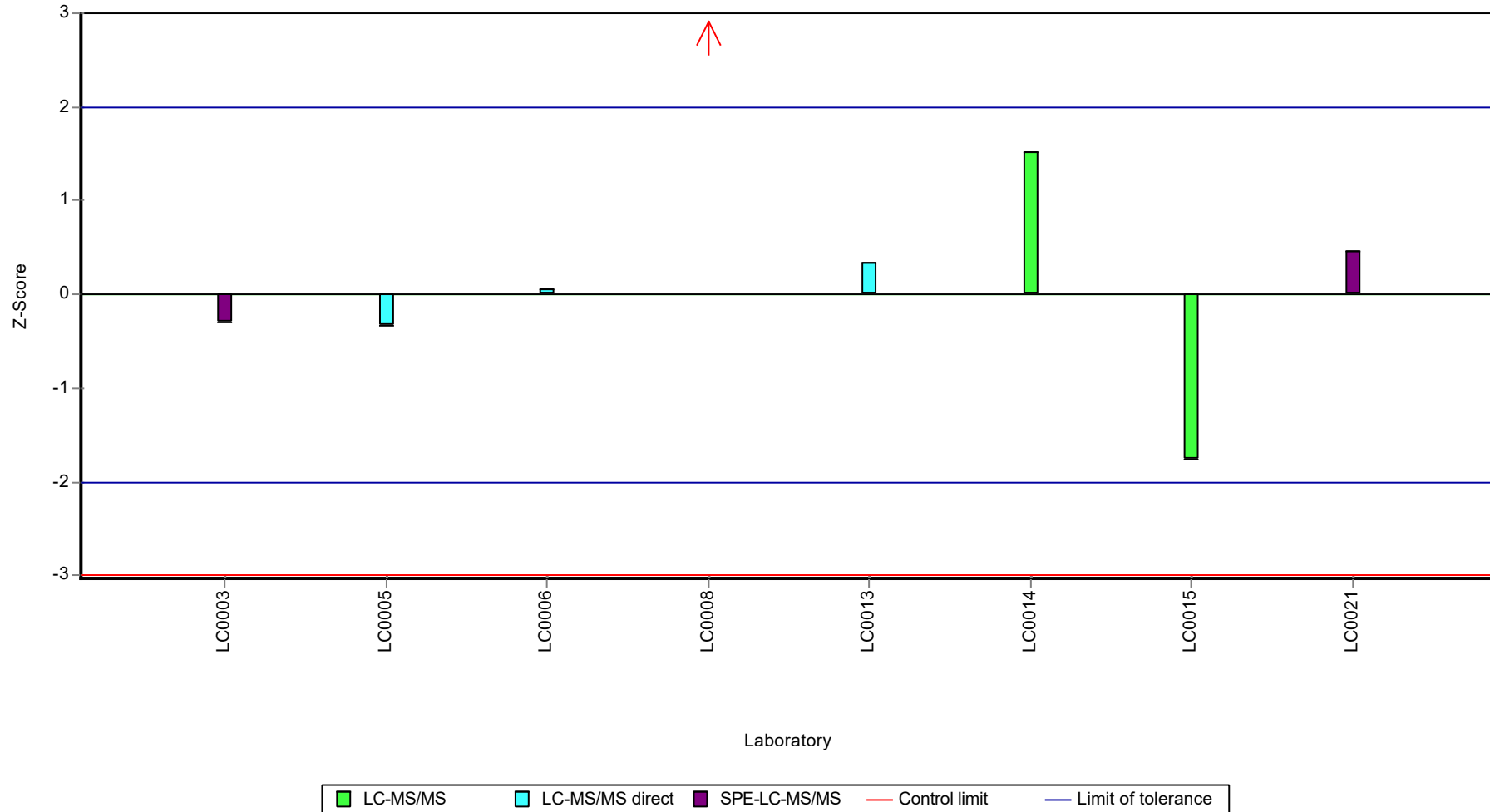
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

## Parameter oriented report

### PF01 B

#### Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Unit	µg/l
Assigned value ± U (k=2)	0.115 ± 0.0195
Criterion	0.0275 (24 %)
Minimum - Maximum	0.0781 - 0.168
Control test value ± U (k=2)	0.100 ± 0.0451

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0867	0.013	75.5	-1.02	
LC0004	-	-	-	-	
LC0005	0.1049	0.042	91.4	-0.36	
LC0006	0.1135	0.04088	98.9	-0.05	
LC0007	-	-	-	-	
LC0008	0.168	0.051	146	1.93	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.118	0.035	103	0.12	
LC0014	0.129	0.0388	112	0.52	
LC0015	0.0781	0.0312	68	-1.33	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.12	0.036	105	0.19	

#### Characteristics of parameter

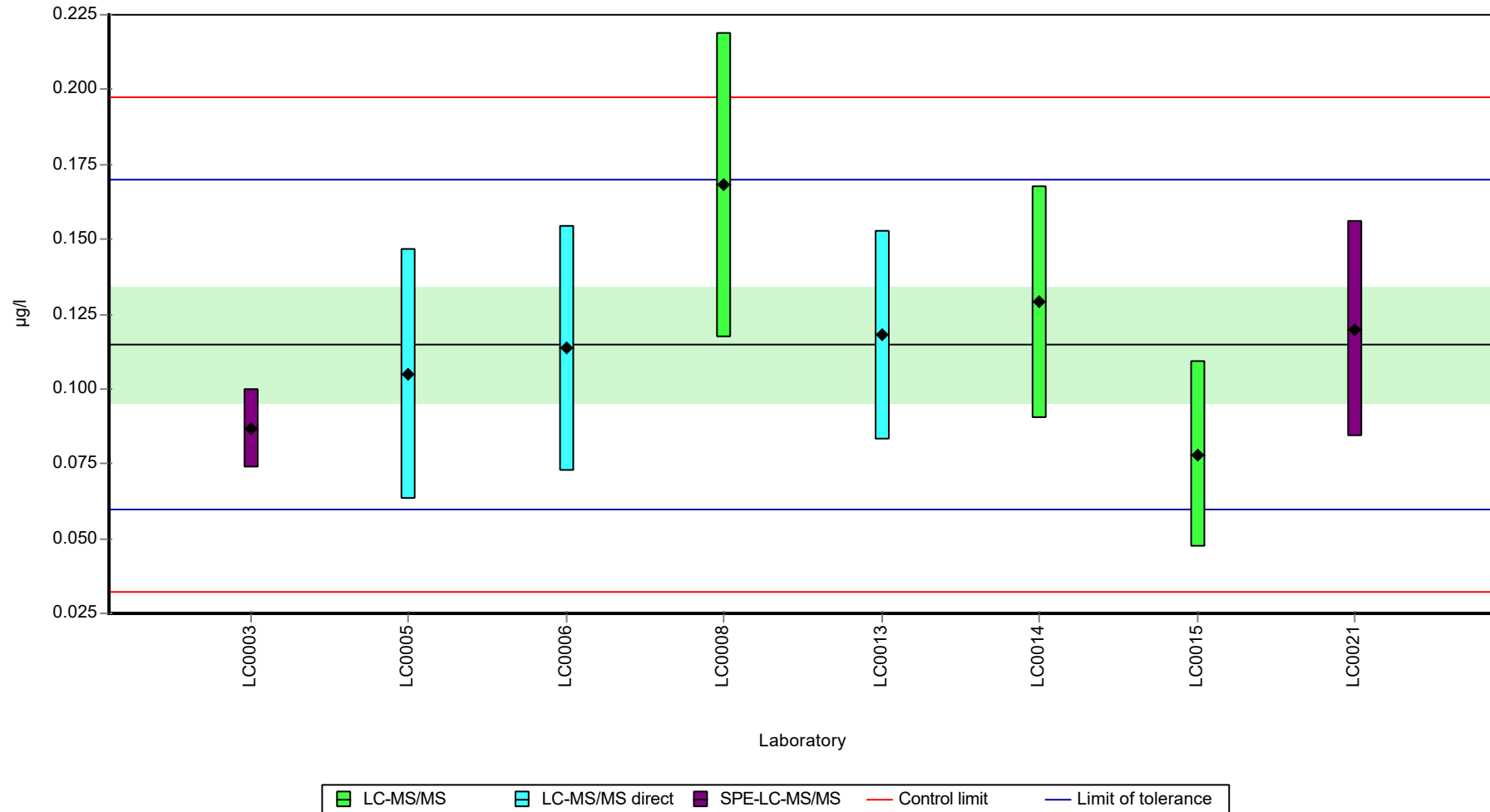
	all results	without outliers	Unit
Mean ± CI (99%)	0.115 ± 0.0292	0.115 ± 0.0292	µg/l
Minimum	0.0781	0.0781	µg/l
Maximum	0.168	0.168	µg/l
Standard deviation	0.0275	0.0275	µg/l
rel. standard deviation	24	24	%
n	8	8	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Graphical presentation of results

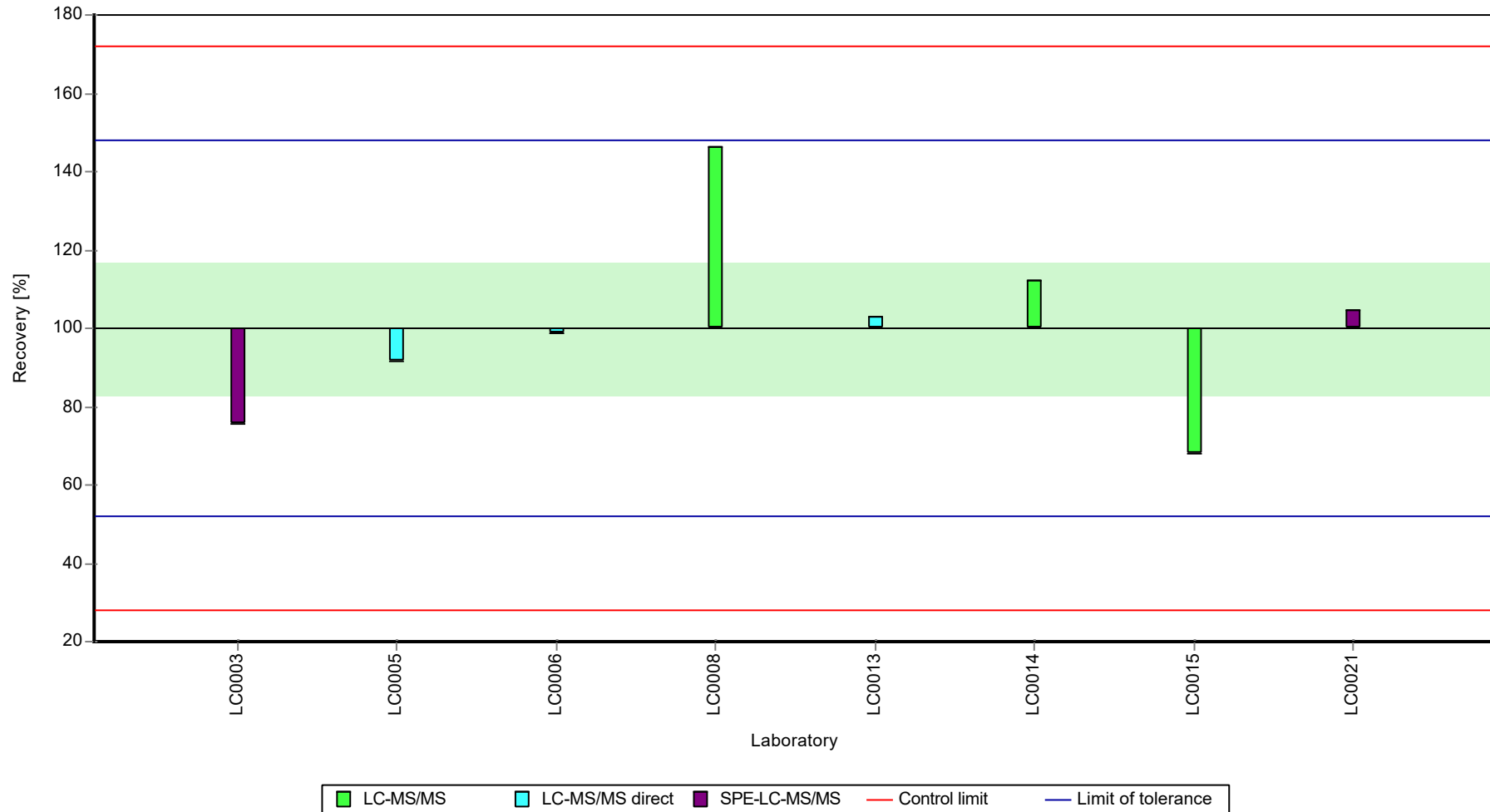
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

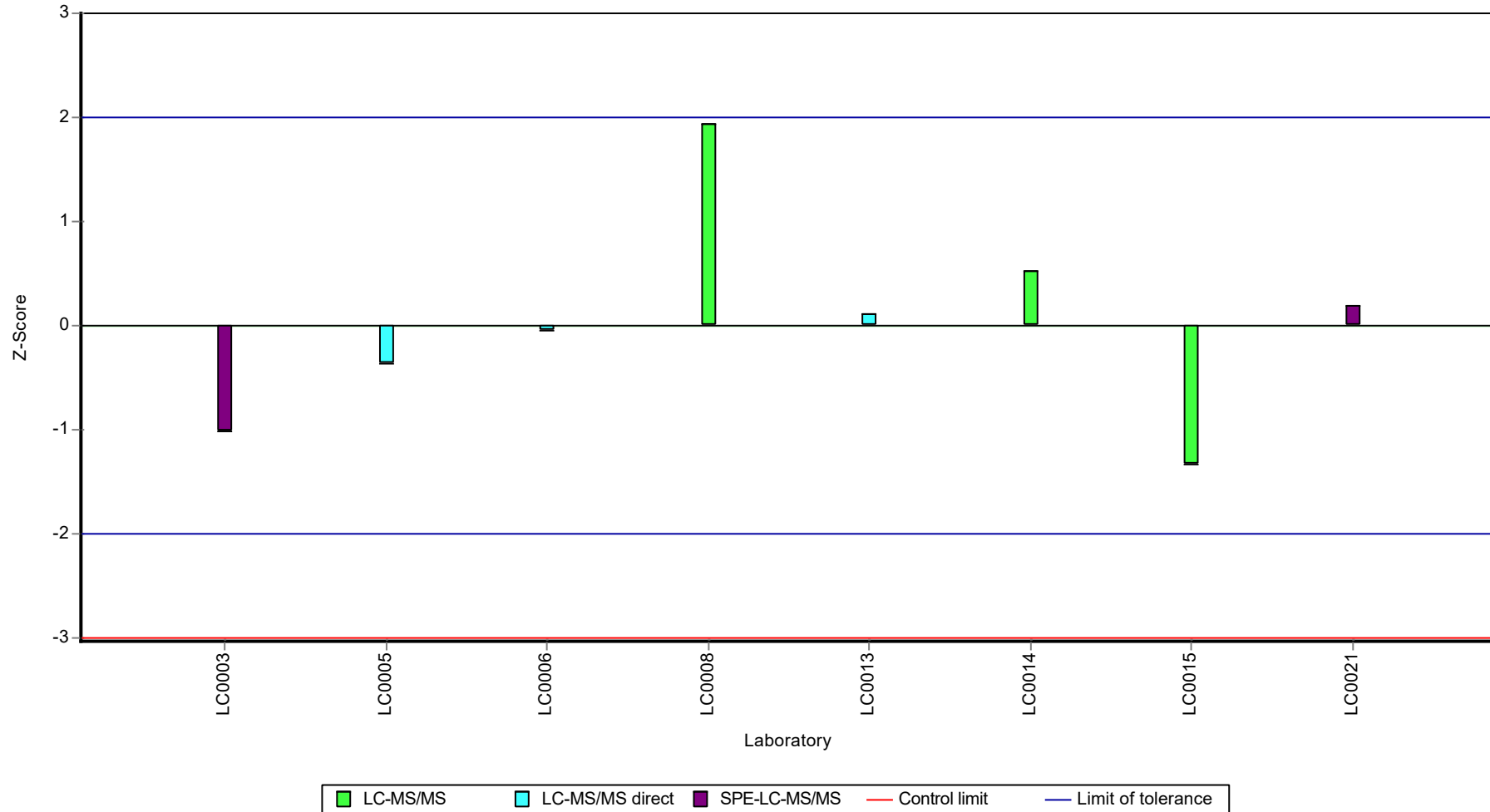
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

## Parameter oriented report

### PF01 A

#### 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Unit	µg/l
Assigned value ± U (k=2)	0.0431 ± 0.00488
Criterion	0.00646 (15 %)
Minimum - Maximum	0.0371 - 0.056
Control test value ± U (k=2)	0.0333 ± 0.015

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0439	0.0066	102	0.13	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0401	0.01442	93.1	-0.46	
LC0007	-	-	-	-	
LC0008	0.056	0.017	130	2	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.046	0.014	107	0.45	
LC0014	0.0391	0.0117	90.7	-0.62	
LC0015	0.0371	0.0148	86.1	-0.93	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.0394	0.0118	91.4	-0.57	

#### Characteristics of parameter

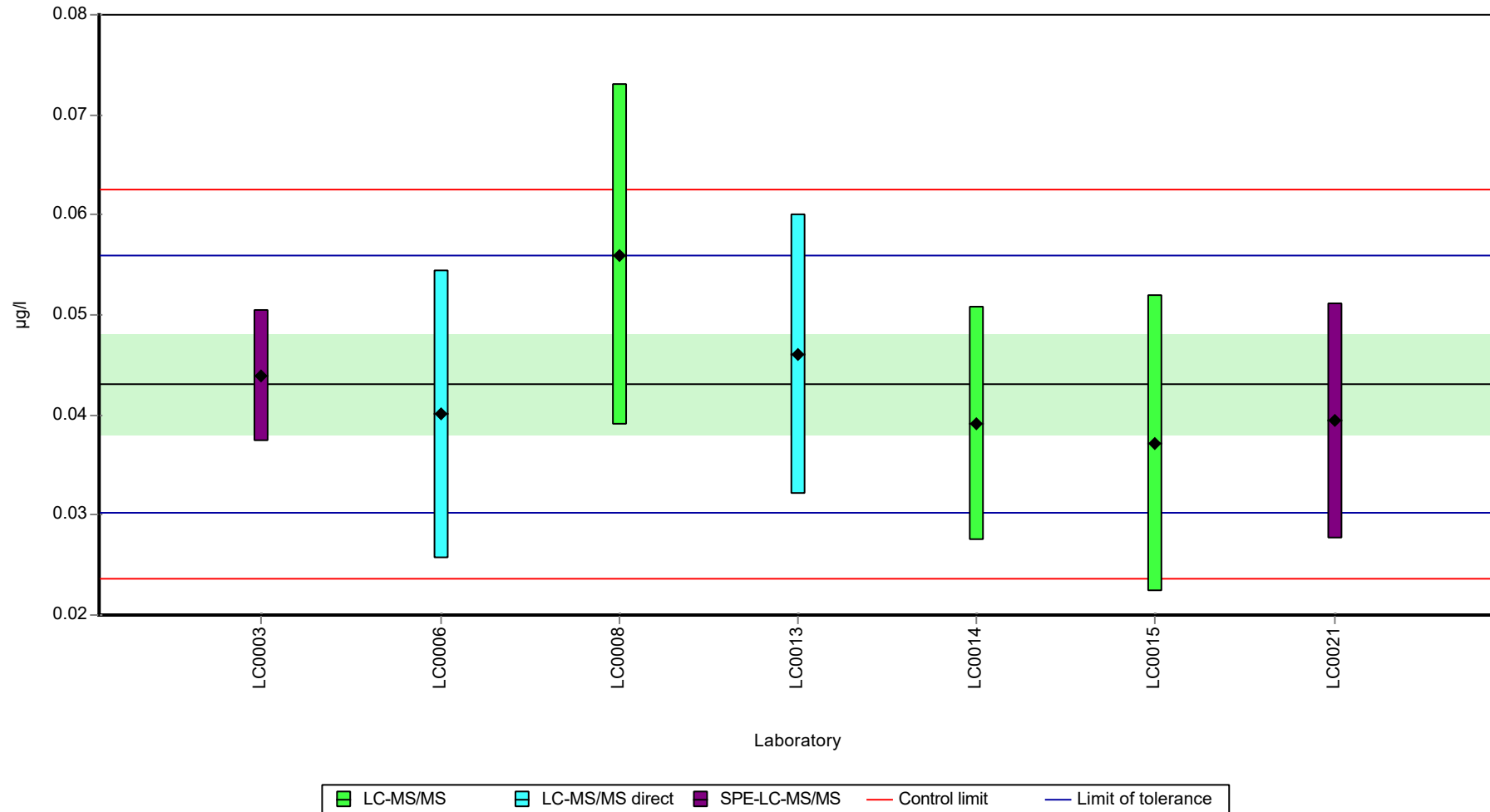
	all results	without outliers	Unit
Mean ± CI (99%)	0.0431 ± 0.00732	0.0431 ± 0.00732	µg/l
Minimum	0.0371	0.0371	µg/l
Maximum	0.056	0.056	µg/l
Standard deviation	0.00646	0.00646	µg/l
rel. standard deviation	15	15	%
n	7	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Graphical presentation of results

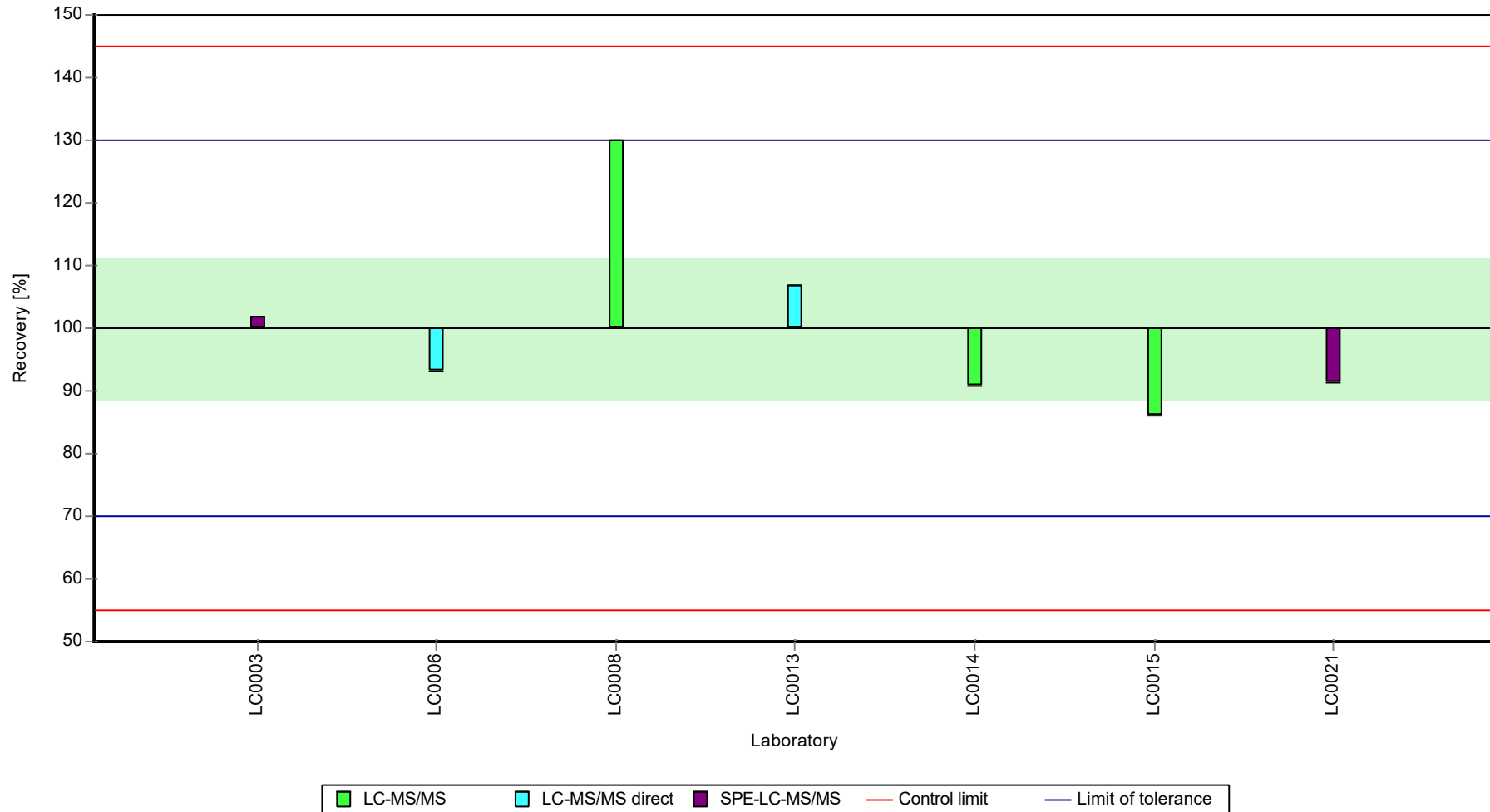
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

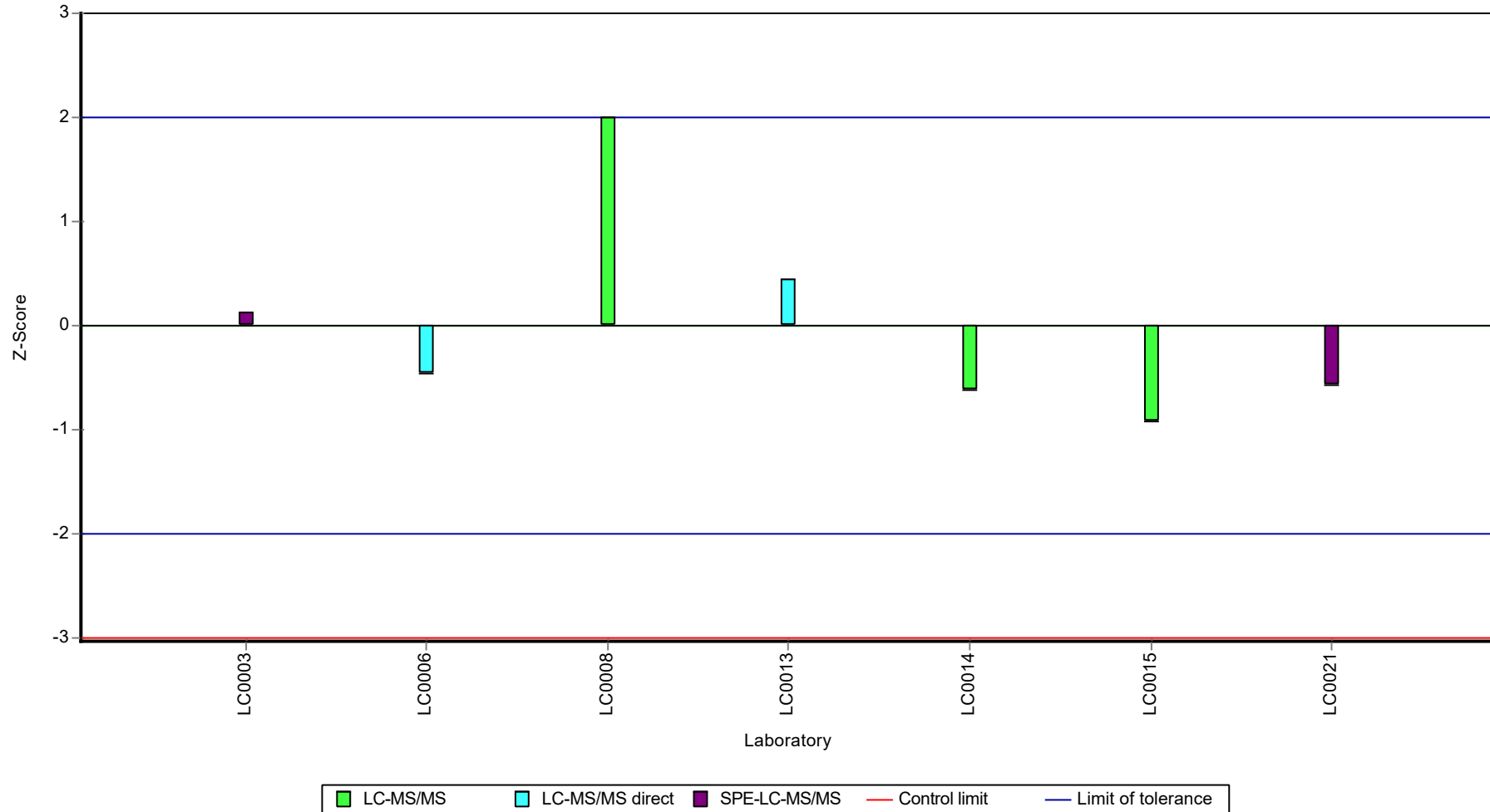
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

## Parameter oriented report

### PF01 B

#### 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Unit	µg/l
Assigned value ± U (k=2)	0.226 ± 0.00994
Criterion	0.0226 (10 %)
Minimum - Maximum	0.203 - 0.239
Control test value ± U (k=2)	0.238 ± 0.107

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.237	0.035	105	0.5	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.2232	0.08034	98.9	-0.11	
LC0007	-	-	-	-	
LC0008	0.238	0.143	105	0.54	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.239	0.072	106	0.59	
LC0014	0.218	0.0654	96.6	-0.34	
LC0015	0.2033	0.0813	90	-1	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	0.222	0.066	98.3	-0.17	

#### Characteristics of parameter

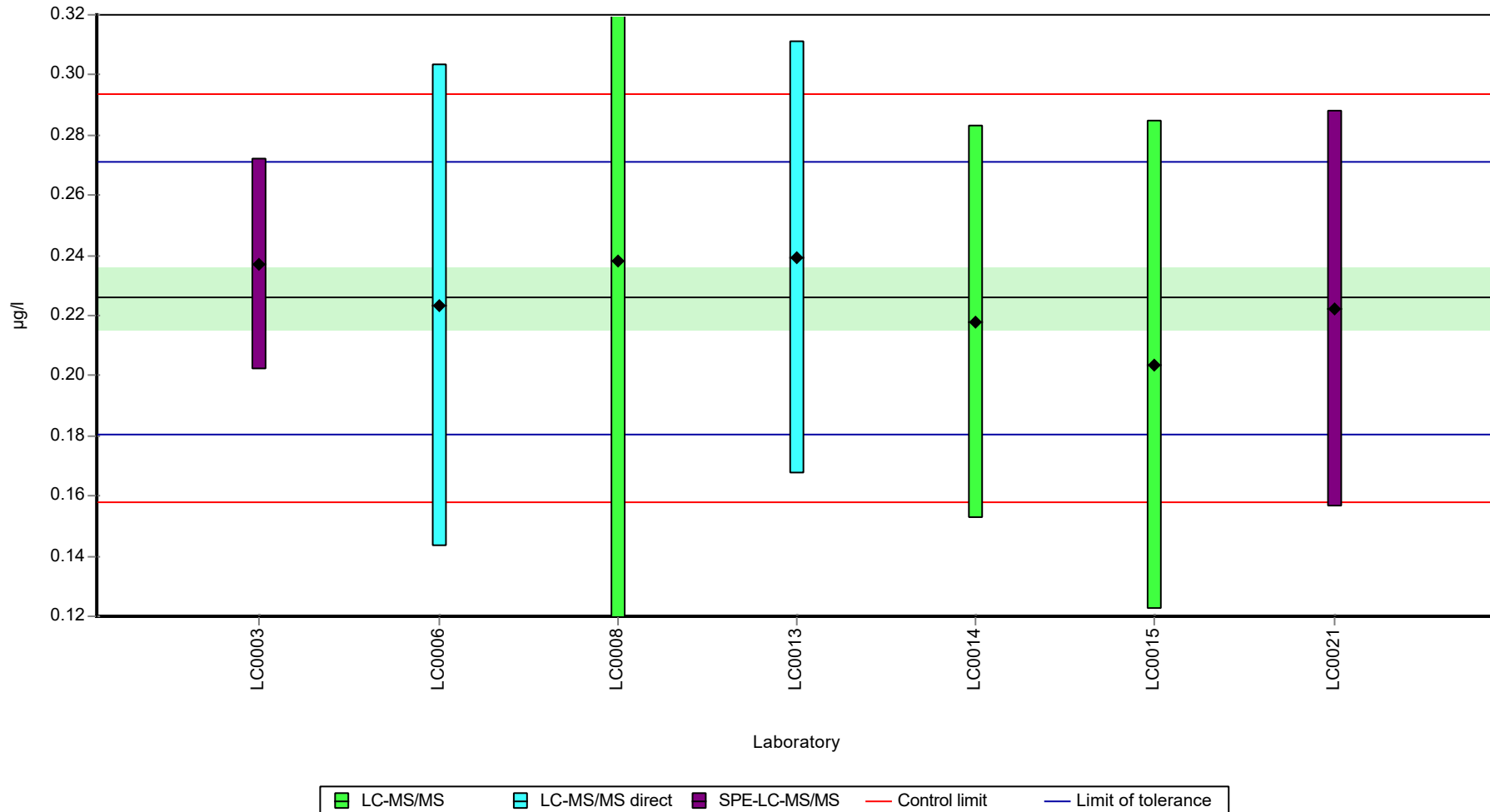
	all results	without outliers	Unit
Mean ± CI (99%)	0.226 ± 0.0149	0.226 ± 0.0149	µg/l
Minimum	0.203	0.203	µg/l
Maximum	0.239	0.239	µg/l
Standard deviation	0.0131	0.0131	µg/l
rel. standard deviation	5.82	5.82 %	
n	7	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Graphical presentation of results

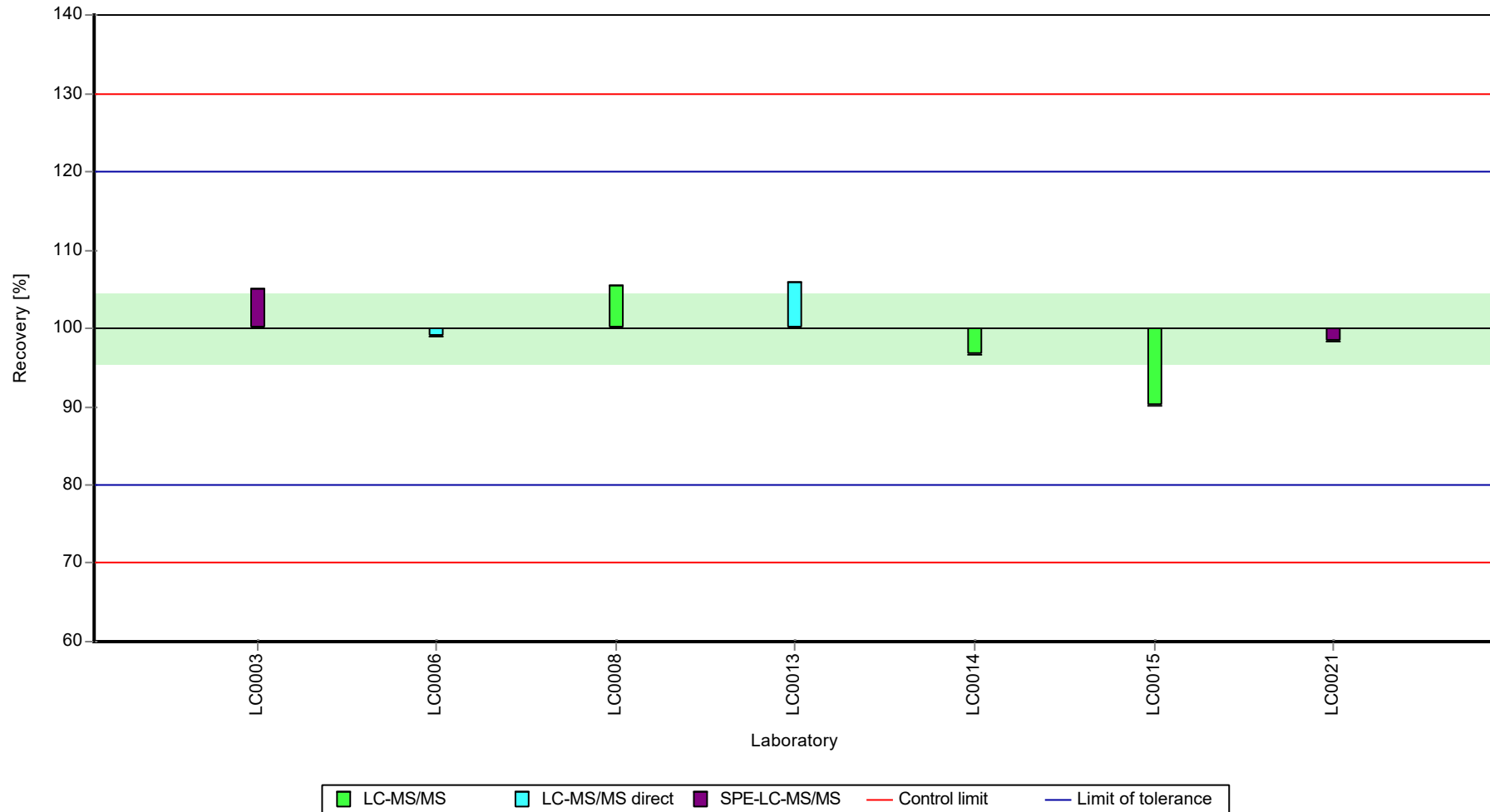
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

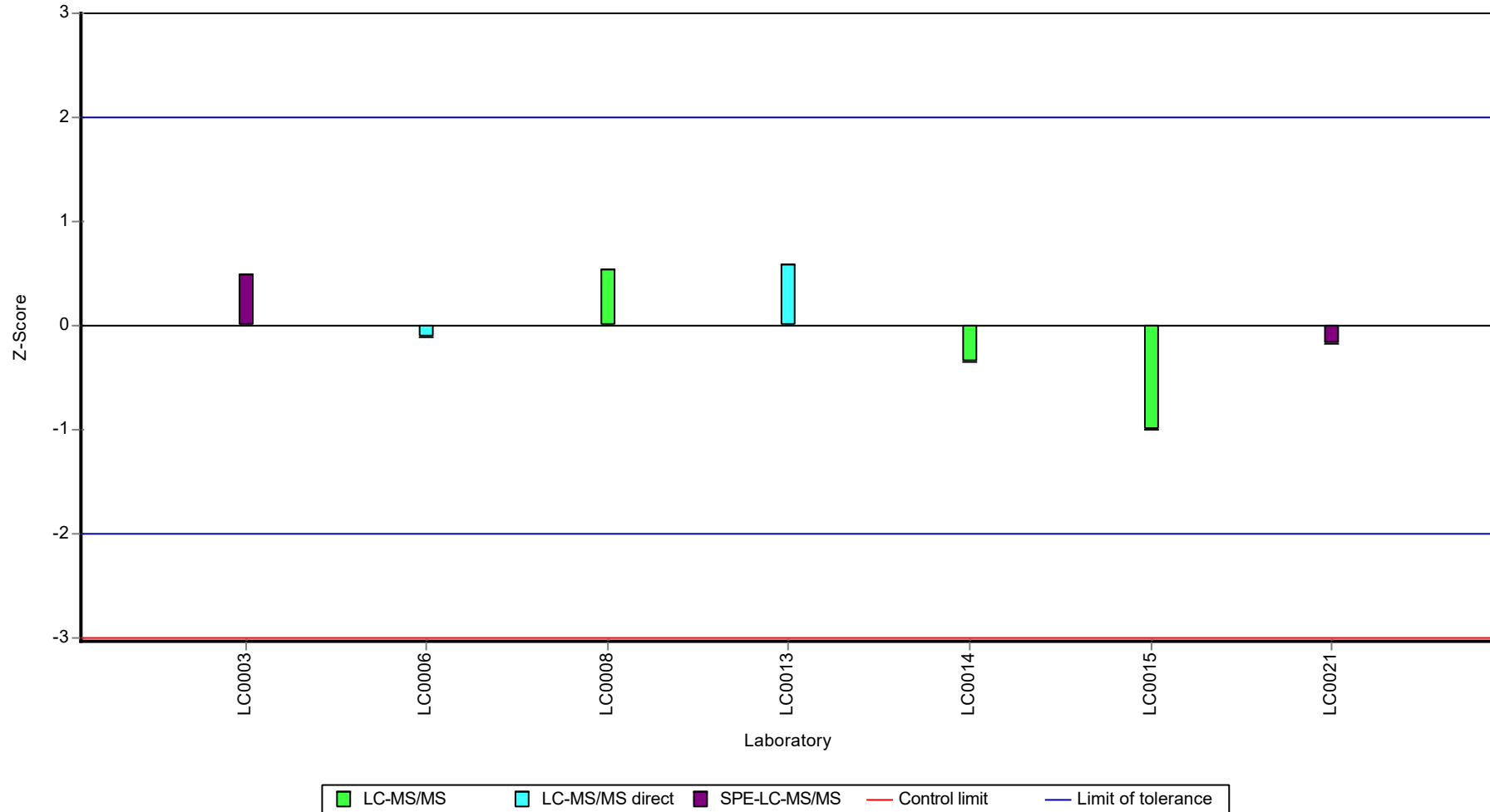
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

Z-score



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

## Parameter oriented report

### PF01 A

#### 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

Unit	µg/l
Assigned value ± U (k=2)	0.0172 ± 0.00171
Criterion	0.00223 (13 %)
Minimum - Maximum	0.0143 - 0.02
Control test value ± U (k=2)	0.0175 ± 0.00788

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.0196	0.0029	114	1.1	
LC0004	-	-	-	-	
LC0005	0.015	0.0083	87.4	-0.97	
LC0006	0.0157	0.00565	91.5	-0.65	
LC0007	-	-	-	-	
LC0008	0.017	0.009	99.1	-0.07	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.02	0.006	117	1.27	
LC0014	0.0185	0.00554	108	0.6	
LC0015	0.0143	0.0057	83.3	-1.28	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

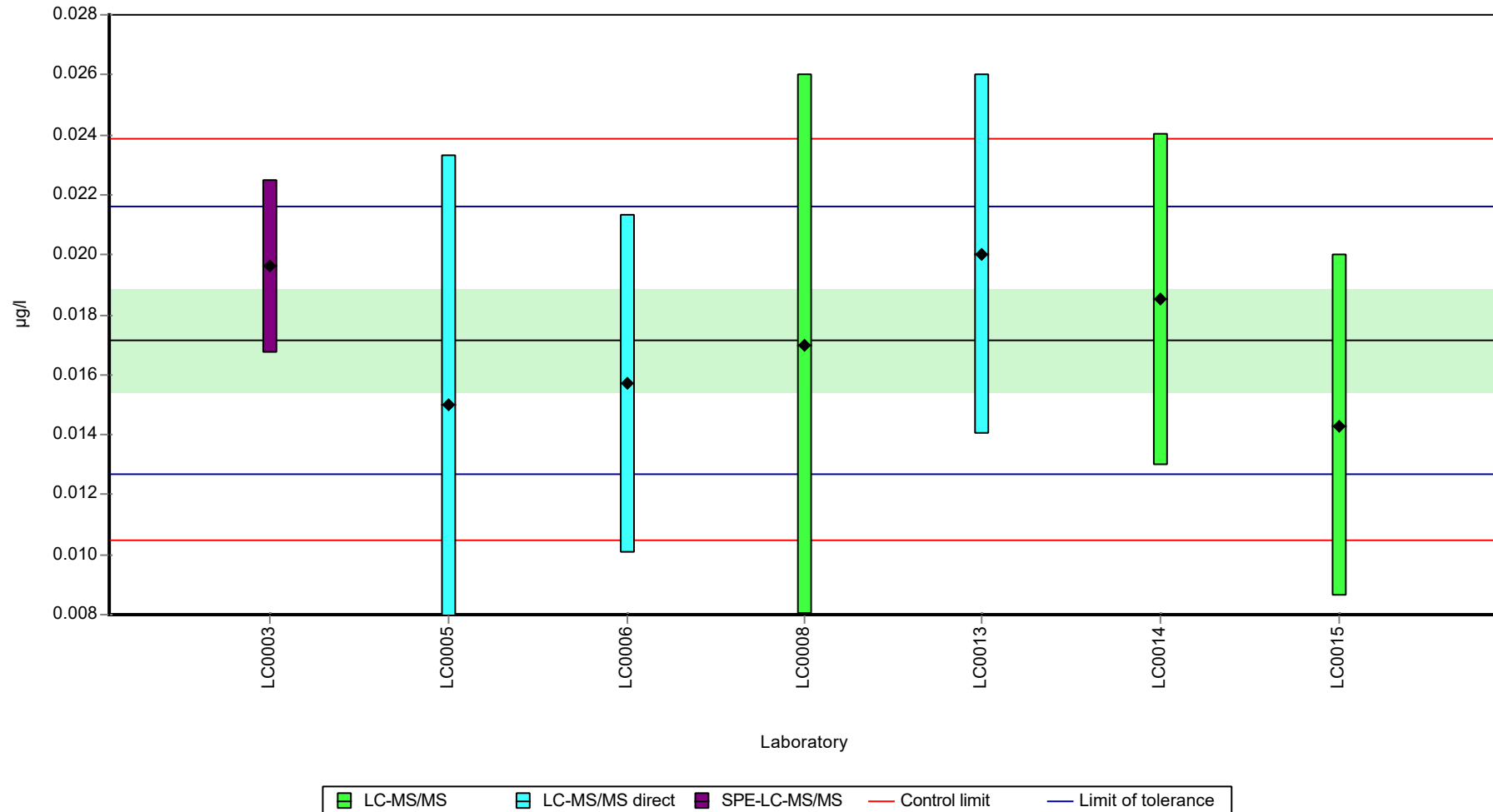
	all results	without outliers	Unit
Mean ± CI (99%)	0.0172 ± 0.00257	0.0172 ± 0.00257	µg/l
Minimum	0.0143	0.0143	µg/l
Maximum	0.02	0.02	µg/l
Standard deviation	0.00227	0.00227	µg/l
rel. standard deviation	13.2	13.2	%
n	7	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

Graphical presentation of results

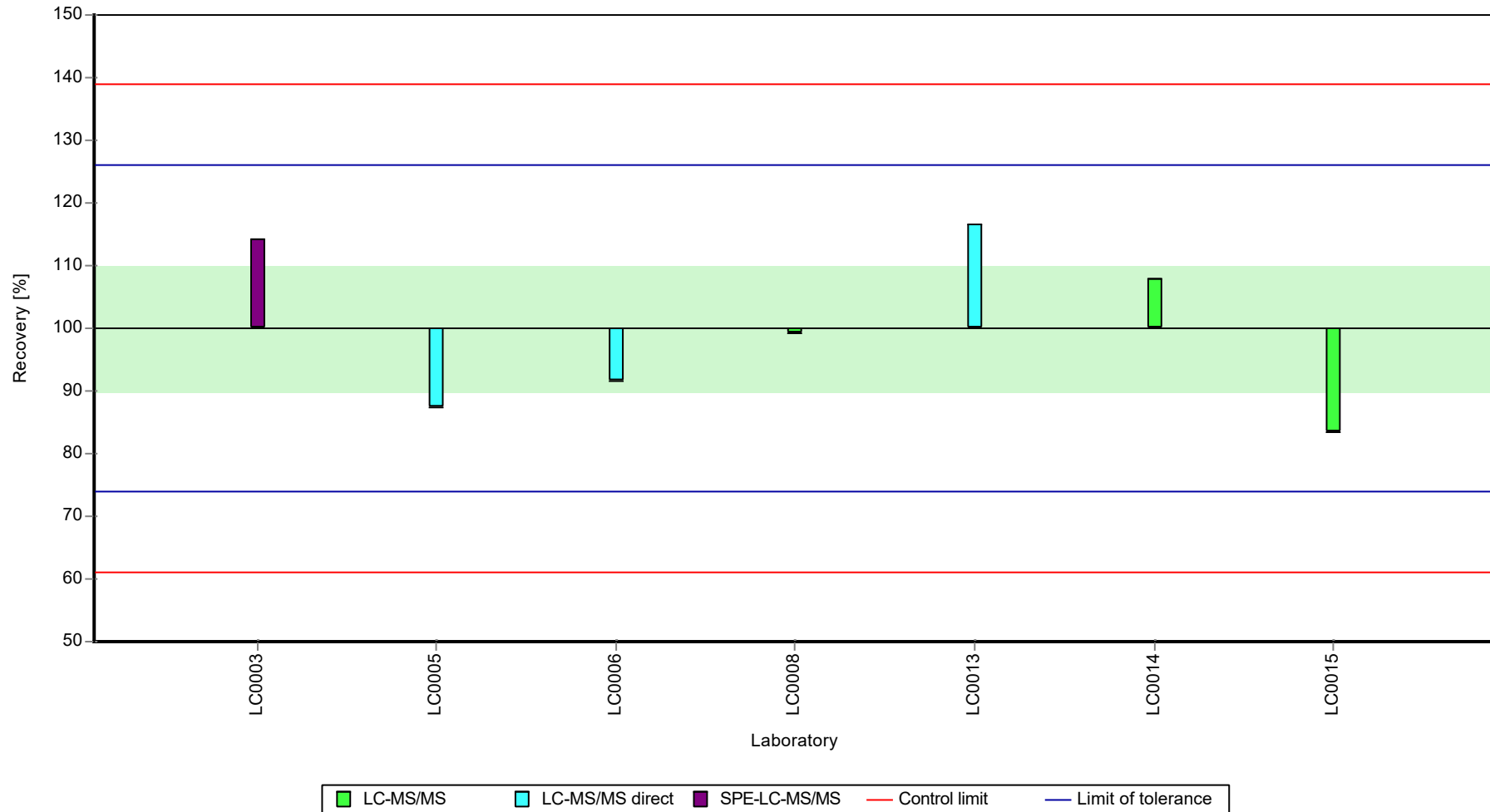
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

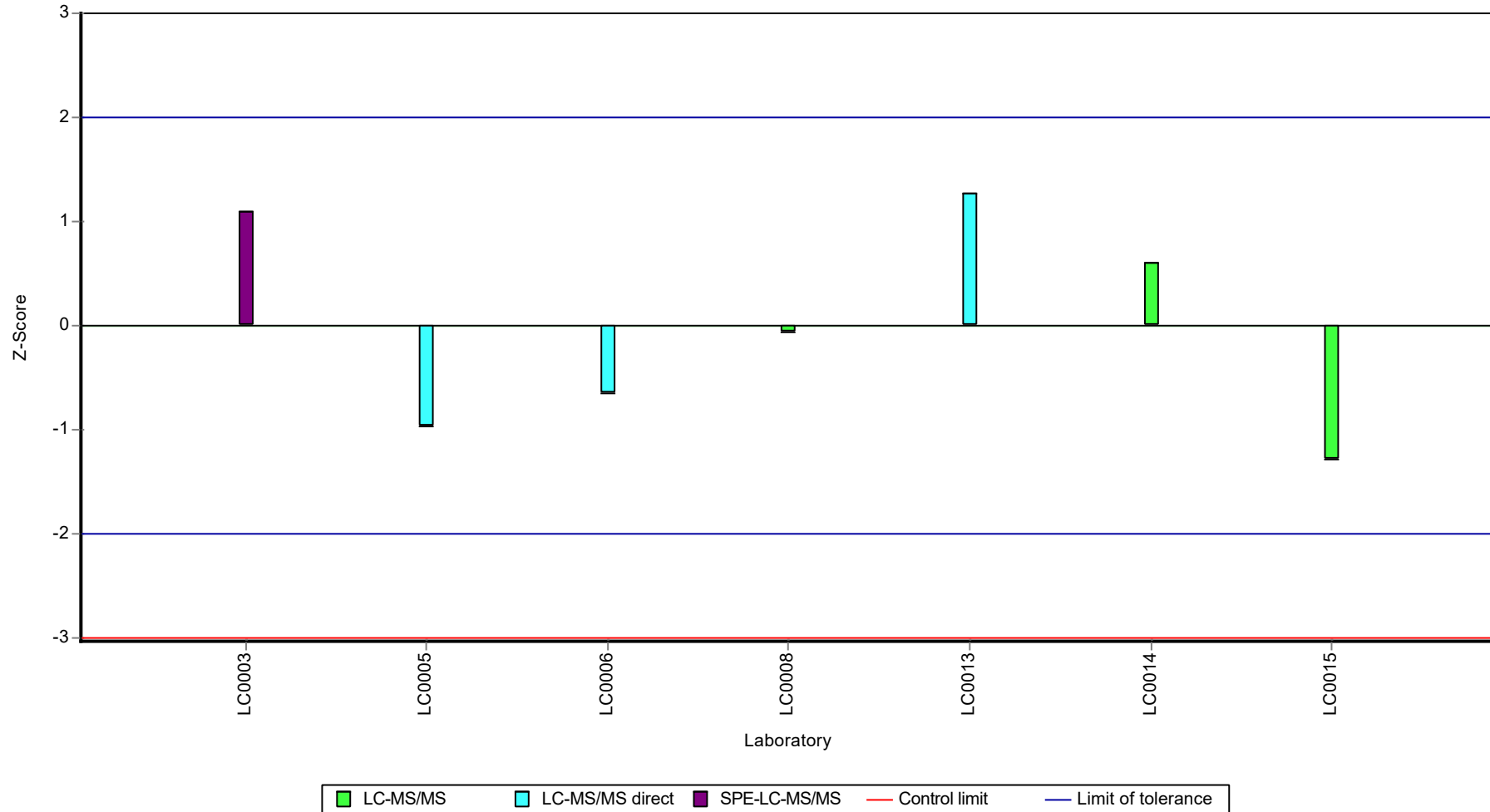
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01A, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

Z-score





Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

## Parameter oriented report

### PF01 B

#### 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

Unit	µg/l
Assigned value ± U (k=2)	0.148 ± 0.0156
Criterion	0.0207 (14 %)
Minimum - Maximum	0.115 - 0.175
Control test value ± U (k=2)	0.114 ± 0.0515

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	0.163	0.024	110	0.74	
LC0004	-	-	-	-	
LC0005	0.1343	0.0738	90.9	-0.65	
LC0006	0.1383	0.0498	93.7	-0.45	
LC0007	-	-	-	-	
LC0008	0.145	0.044	98.2	-0.13	
LC0009	-	-	-	-	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.163	0.049	110	0.74	
LC0014	0.175	0.0525	119	1.32	
LC0015	0.1151	0.046	77.9	-1.58	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	-	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	

#### Characteristics of parameter

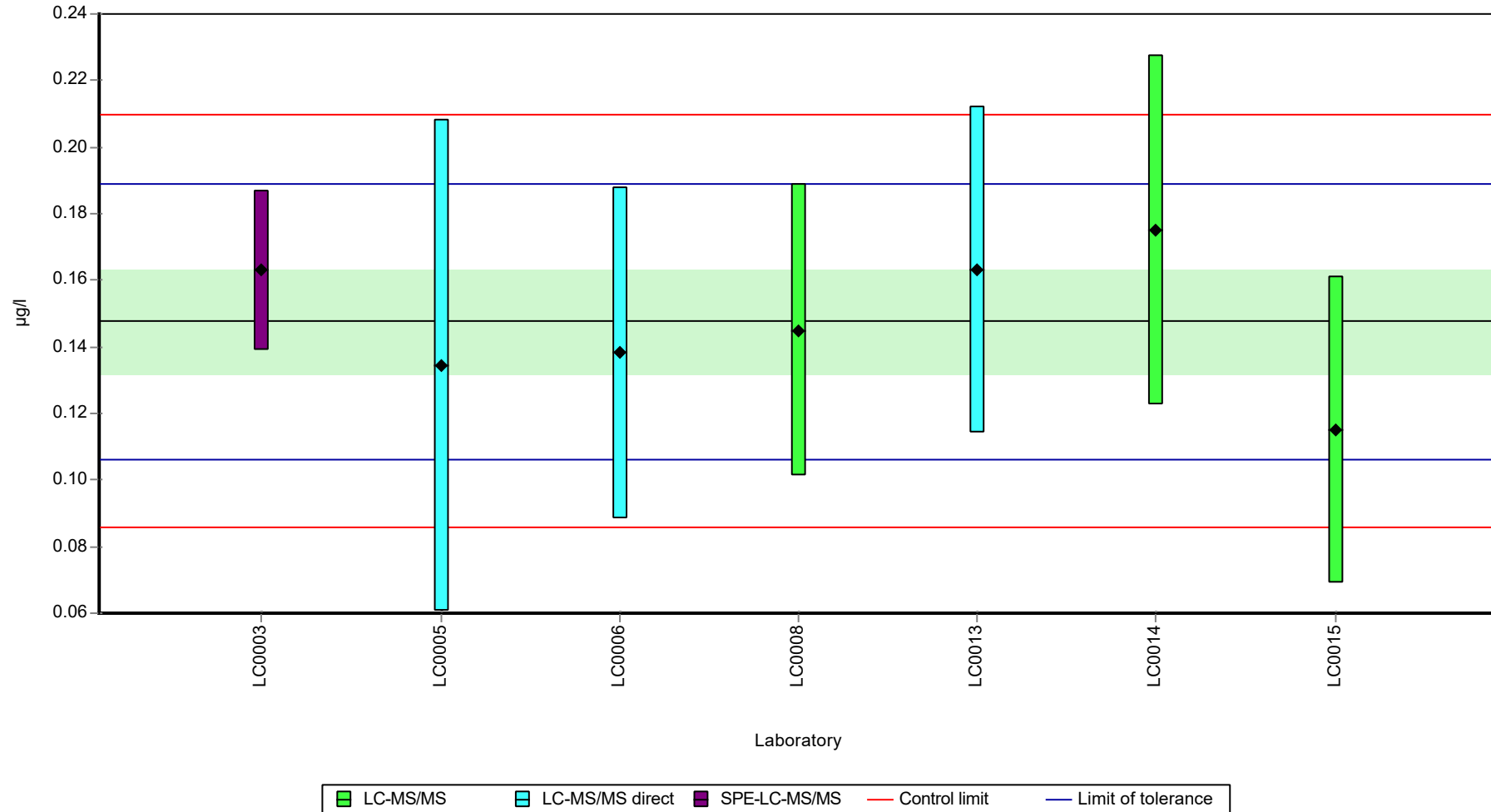
	all results	without outliers	Unit
Mean ± CI (99%)	0.148 ± 0.0234	0.148 ± 0.0234	µg/l
Minimum	0.115	0.115	µg/l
Maximum	0.175	0.175	µg/l
Standard deviation	0.0206	0.0206	µg/l
rel. standard deviation	14	14	%
n	7	7	-

Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

Graphical presentation of results

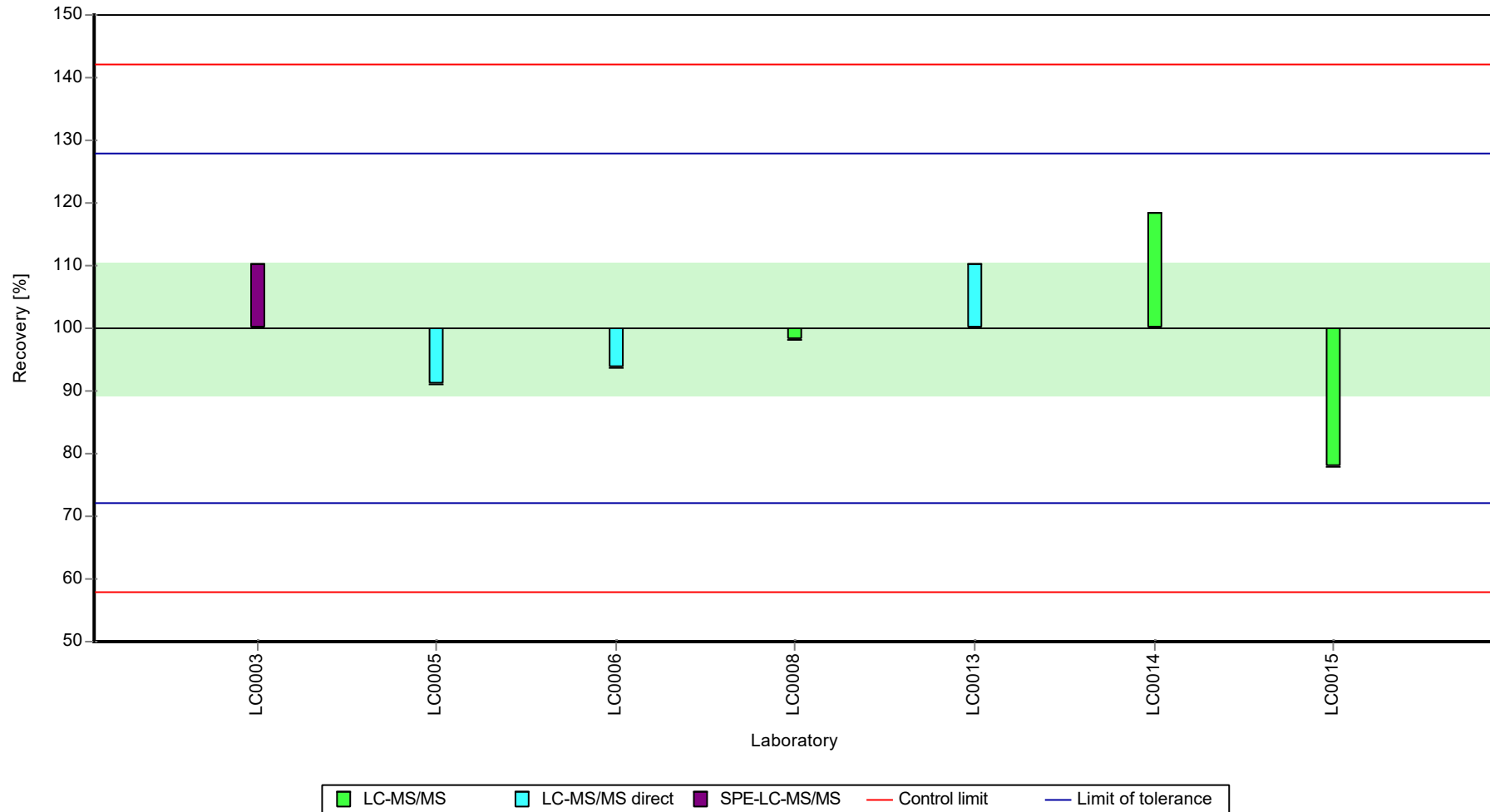
Results



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

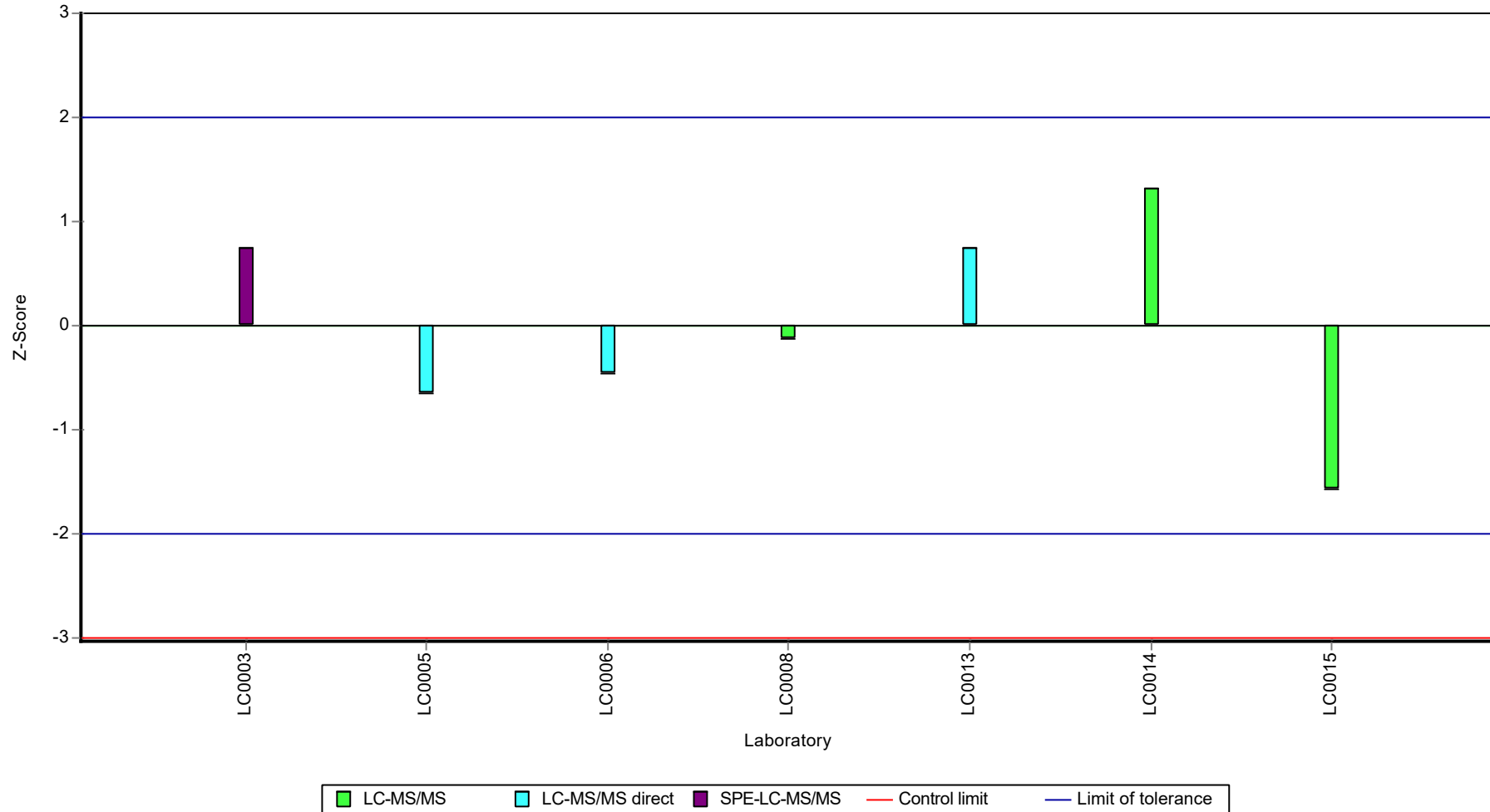
Recovery rate



Parameter oriented report Per- and polyfluoroalkyl substances (PFAS) - PF01

Sample: PF01B, Parameter: 9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

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: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0143 ± 0.00057	0.00219	91.5	-0.60
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.015 ± 0.0006	0.0021	92.8	-0.56
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01 ± 0.0004	0.00143	91	-0.69
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0109 ± 0.0004	0.00177	86.3	-0.98
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0302 ± 0.00091	0.00346	96.1	-0.35
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.00044	0.00141	93.5	-0.54
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0095 ± 0.00038	0.00121	118	1.17
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	- ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	- ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0244 ± 0.00098	0.00279	96	-0.36
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0176 ± 0.0007	0.00221	95.7	-0.36
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0416 ± 0.0016	0.004	104	0.40
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0194 ± 0.00078	0.00309	88	-0.86
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0567 ± 0.0023	0.00665	128	1.86

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

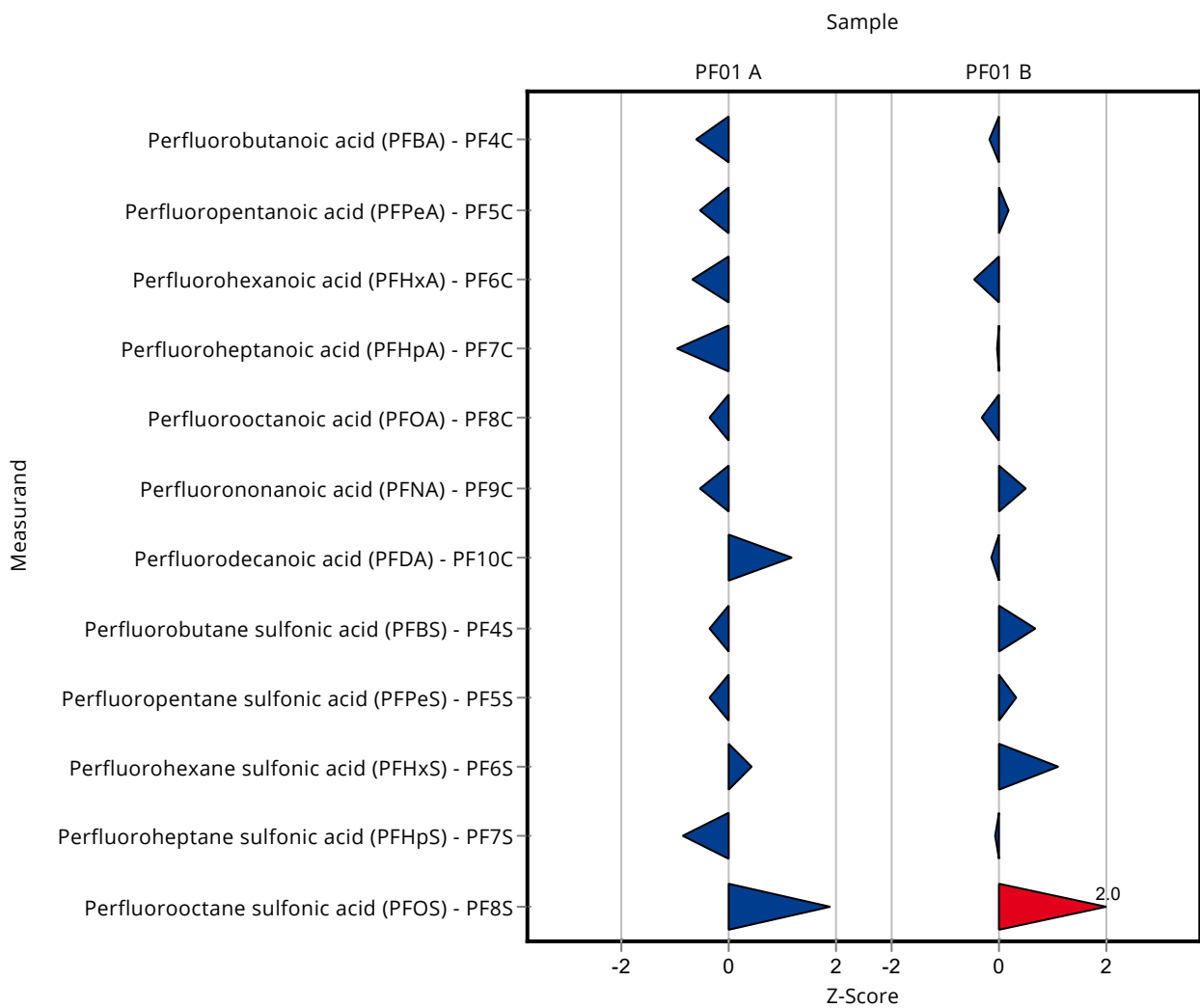
### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1003 ± 0.004	0.0144	97.6	-0.17
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0845 ± 0.0034	0.00828	102	0.20

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1675 ± 0.0067	0.0176	95.4	-0.46
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0384 ± 0.0015	0.00539	99.8	-0.02
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1613 ± 0.0065	0.0236	95.8	-0.30
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1215 ± 0.0049	0.0116	105	0.50
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0382 ± 0.0015	0.00706	97.3	-0.15
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	- ± -	0.0118	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0343 ± 0.0014	0.00602	114	0.70
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0771 ± 0.0031	0.00819	104	0.32
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0638 ± 0.0026	0.00821	117	1.10
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0385 ± 0.0015	0.00898	98.6	-0.06
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1614 ± 0.0065	0.0213	137	2.03
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0001

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0143 ± 0.00057	0.00219	91.5	-0.93
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.015 ± 0.0006	0.0021	92.8	-0.77
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01 ± 0.0004	0.00143	91	-0.98
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0109 ± 0.0004	0.00177	86.3	-1.37
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0302 ± 0.00091	0.00346	96.1	-0.51
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.00044	0.00141	93.5	-0.67
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0095 ± 0.00038	0.00121	118	1.50
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	- ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	- ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0244 ± 0.00098	0.00279	96	-0.43
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0176 ± 0.0007	0.00221	95.7	-0.45
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0416 ± 0.0016	0.004	104	0.44
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0194 ± 0.00078	0.00309	88	-1.22
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0567 ± 0.0023	0.00665	128	2.25
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1003 ± 0.004	0.0144	97.6	-0.23
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0845 ± 0.0034	0.00828	102	0.22
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1675 ± 0.0067	0.0176	95.4	-0.53
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0384 ± 0.0015	0.00539	99.8	-0.02

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

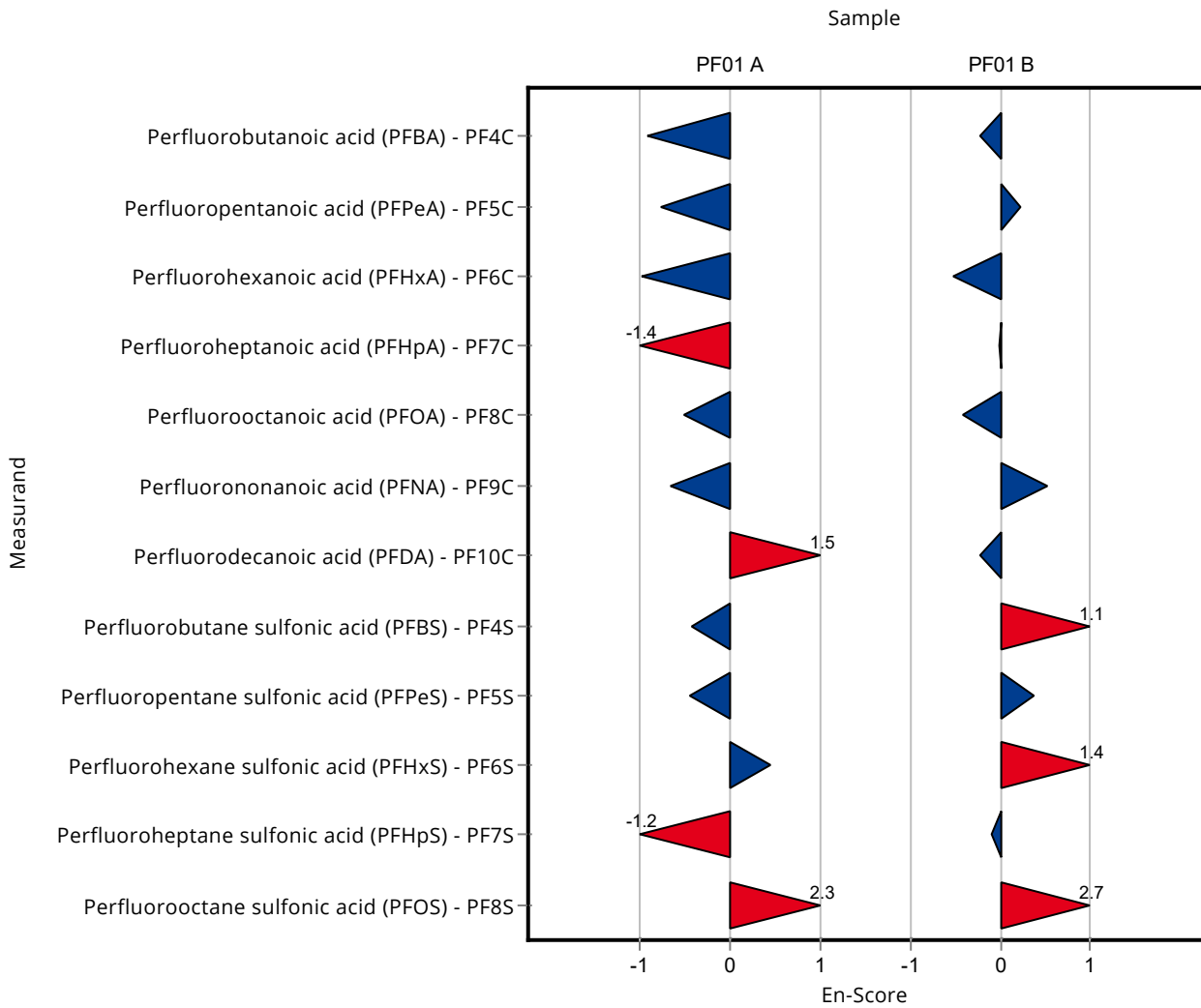
Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1613 ± 0.0065	0.0236	95.8	-0.43
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1215 ± 0.0049	0.0116	105	0.52
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0382 ± 0.0015	0.00706	97.3	-0.24
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	- ± -	0.0118	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0343 ± 0.0014	0.00602	114	1.10
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0771 ± 0.0031	0.00819	104	0.36
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0638 ± 0.0026	0.00821	117	1.42
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0385 ± 0.0015	0.00898	98.6	-0.11
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1614 ± 0.0065	0.0213	137	2.67
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.013 ± 0.002	0.00219	83.2	-1.20
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.012 ± 0.002	0.0021	74.2	-1.98
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.009 ± 0.002	0.00143	81.9	-1.39
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.011 ± 0.002	0.00177	87.1	-0.92
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.026 ± 0.002	0.00346	82.8	-1.57
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.009 ± 0.002	0.00141	76.5	-1.96
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.006 ± 0.002	0.00121	74.3	-1.72
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	- ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	- ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.022 ± 0.002	0.00279	86.6	-1.22
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.011 ± 0.002	0.00221	59.8	-3.35
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.034 ± 0.002	0.004	85	-1.50
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.017 ± 0.003	0.00309	77.1	-1.63
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.035 ± 0.002	0.00665	79	-1.40



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0002

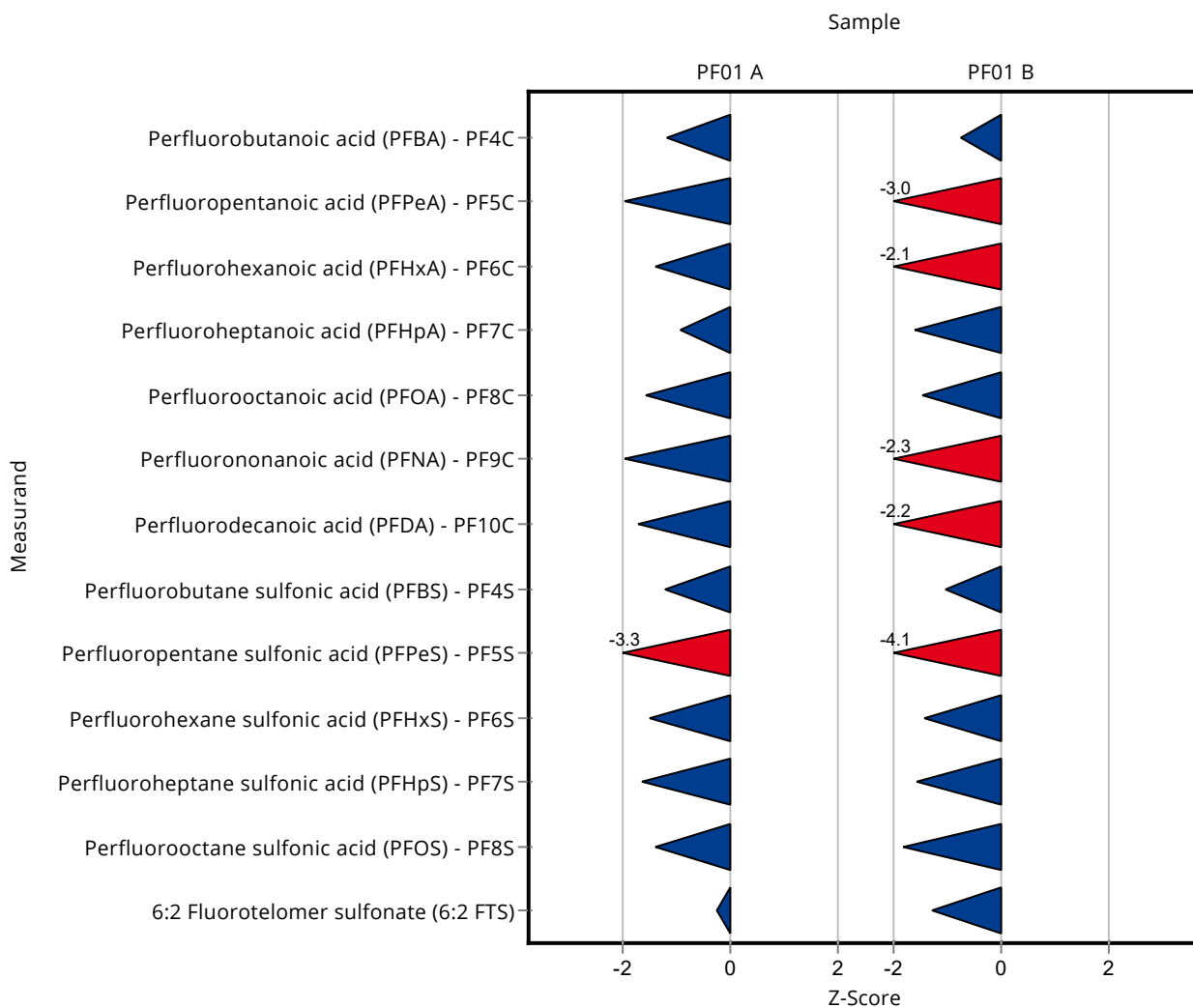
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.019 ± 0.002	0.00276	96.2	-0.27
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.092 ± 0.002	0.0144	89.6	-0.75
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.058 ± 0.002	0.00828	70	-3.00

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.138 ± 0.002	0.0176	78.6	-2.14
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03 ± 0.002	0.00539	77.9	-1.58
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.134 ± 0.002	0.0236	79.6	-1.46
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.089 ± 0.002	0.0116	76.9	-2.31
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.024 ± 0.002	0.00706	61.2	-2.16
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	- ± -	0.0118	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.024 ± 0.002	0.00602	79.7	-1.01
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.041 ± 0.002	0.00819	55.1	-4.09
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.043 ± 0.002	0.00821	78.6	-1.43
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.025 ± 0.003	0.00898	64	-1.56
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.08 ± 0.002	0.0213	67.7	-1.80
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.146 ± 0.002	0.0187	86	-1.27
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0002

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.013 ± 0.002	0.00219	83.2	-0.64
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.012 ± 0.002	0.0021	74.2	-1.01
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.009 ± 0.002	0.00143	81.9	-0.49
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.011 ± 0.002	0.00177	87.1	-0.40
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.026 ± 0.002	0.00346	82.8	-1.26
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.009 ± 0.002	0.00141	76.5	-0.68
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.006 ± 0.002	0.00121	74.3	-0.51
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	- ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	- ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.022 ± 0.002	0.00279	86.6	-0.81
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.011 ± 0.002	0.00221	59.8	-1.78
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.034 ± 0.002	0.004	85	-1.38
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.017 ± 0.003	0.00309	77.1	-0.81
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.035 ± 0.002	0.00665	79	-1.86
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.019 ± 0.002	0.00276	96.2	-0.17
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.092 ± 0.002	0.0144	89.6	-1.37
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.058 ± 0.002	0.00828	70	-4.58
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.138 ± 0.002	0.0176	78.6	-4.53
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03 ± 0.002	0.00539	77.9	-1.81

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0002

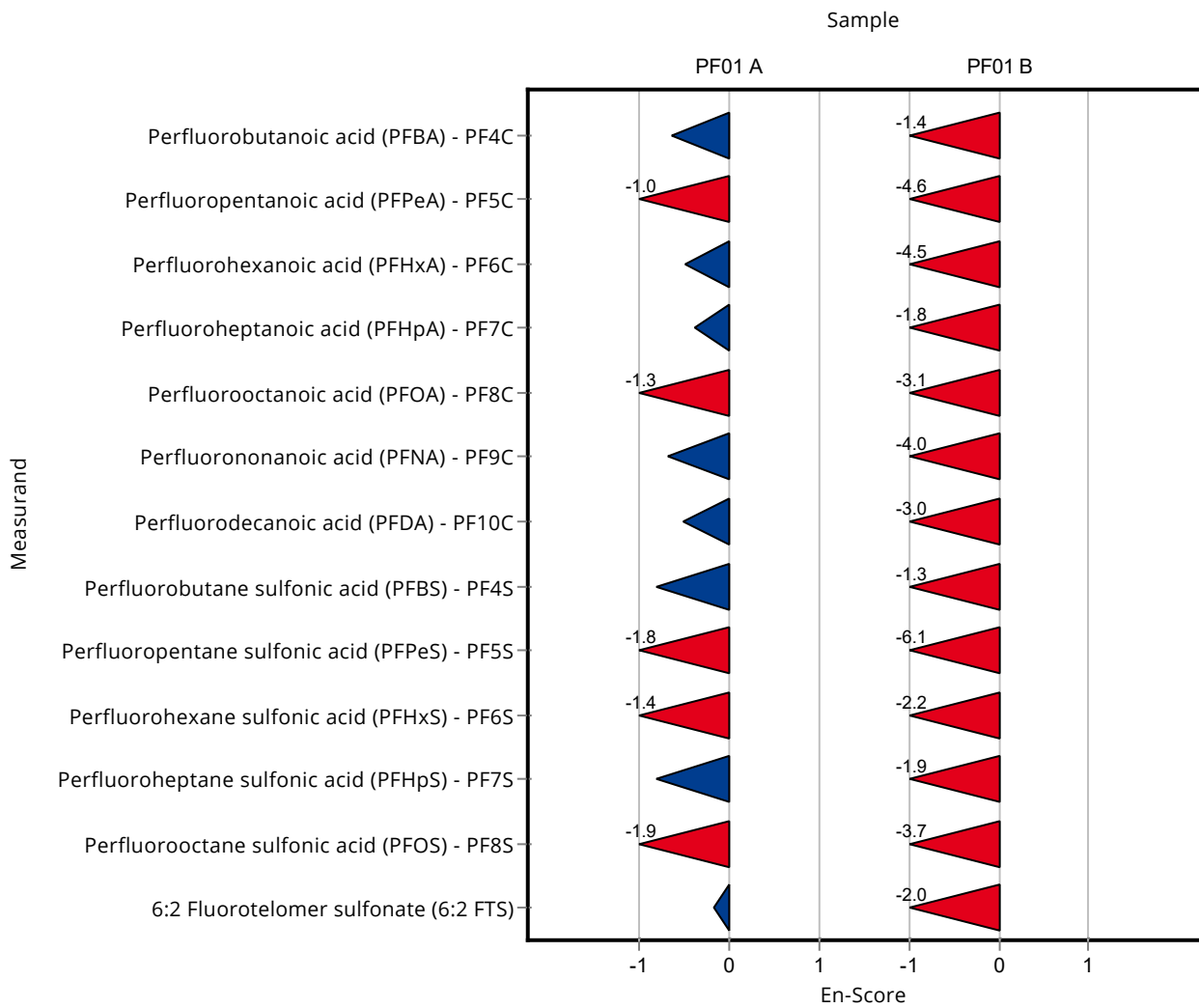
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.134 ± 0.002	0.0236	79.6	-3.13
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.089 ± 0.002	0.0116	76.9	-3.96
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.024 ± 0.002	0.00706	61.2	-2.97
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	- ± -	0.0118	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.024 ± 0.002	0.00602	79.7	-1.28
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.041 ± 0.002	0.00819	55.1	-6.05
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.043 ± 0.002	0.00821	78.6	-2.15
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.025 ± 0.003	0.00898	64	-1.93
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.08 ± 0.002	0.0213	67.7	-3.67
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.146 ± 0.002	0.0187	86	-2.01
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0167 ± 0.0025	0.00219	107	0.49
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0171 ± 0.0026	0.0021	106	0.44
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.0016	0.00143	99.2	-0.06
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0123 ± 0.0018	0.00177	97.4	-0.19
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0344 ± 0.0052	0.00346	110	0.86
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0114 ± 0.0017	0.00141	96.9	-0.26
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00873 ± 0.0013	0.00121	108	0.54
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0132 ± 0.002	0.00219	108	0.46
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0171 ± 0.0026	0.00241	135	1.84
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00928 ± 0.0014	0.0018	176	2.23
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00911 ± 0.0014	0.00277	161	1.25
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0221 ± 0.0033	0.00279	87	-1.18
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0181 ± 0.0027	0.00221	98.4	-0.13
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0371 ± 0.0056	0.004	92.8	-0.72
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0251 ± 0.0038	0.00309	114	0.99
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.038 ± 0.0057	0.00665	85.8	-0.95

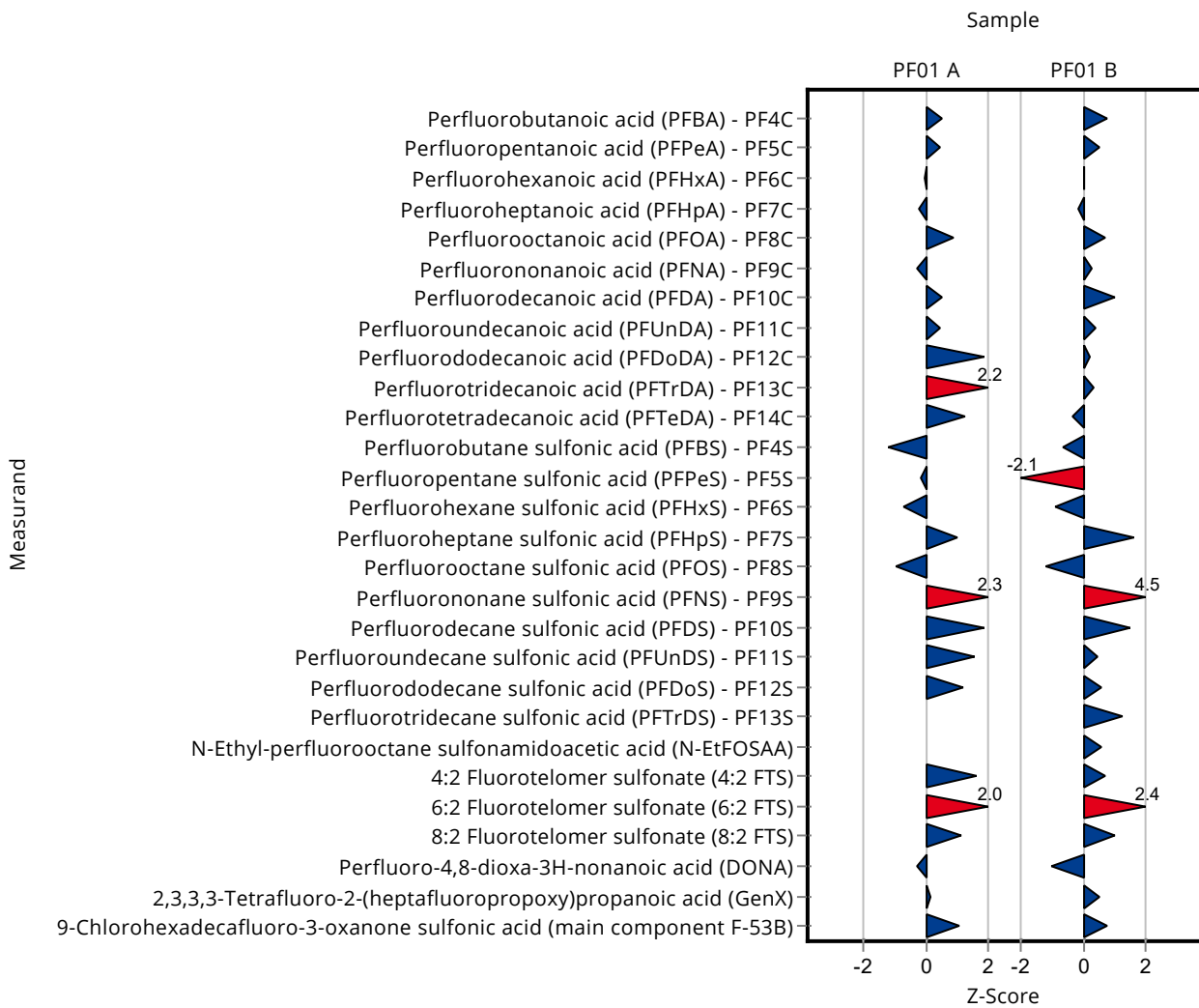
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0302 ± 0.0045	0.00548	171	2.28
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.029 ± 0.0043	0.0048	145	1.88
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0294 ± 0.0044	0.00714	161	1.55
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0215 ± 0.0032	0.00618	153	1.21
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0298 ± 0.0045	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0232 ± 0.0035	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0254 ± 0.0038	0.00323	126	1.61
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0254 ± 0.0038	0.00276	129	2.05
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.044 ± 0.0066	0.00835	126	1.10
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0287 ± 0.0043	0.00357	96.4	-0.30
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0439 ± 0.0066	0.00646	102	0.13
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0196 ± 0.0029	0.00223	114	1.10

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.114 ± 0.017	0.0144	111	0.78
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.087 ± 0.013	0.00828	105	0.51

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.176 ± 0.026	0.0176	100	0.02
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0378 ± 0.0057	0.00539	98.2	-0.13
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.185 ± 0.028	0.0236	110	0.70
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.119 ± 0.018	0.0116	103	0.29
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0462 ± 0.0069	0.00706	118	0.98
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0584 ± 0.0088	0.0118	109	0.39
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0211 ± 0.0032	0.0054	105	0.20
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0122 ± 0.0018	0.00262	107	0.31
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0109 ± 0.0016	0.00588	85.3	-0.32
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0261 ± 0.0039	0.00602	86.7	-0.67
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.057 ± 0.0085	0.00819	76.5	-2.13
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0474 ± 0.0071	0.00821	86.6	-0.89
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0537 ± 0.0081	0.00898	138	1.63
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.0932 ± 0.014	0.0213	78.8	-1.18
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.17 ± 0.026	0.0174	186	4.51
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0799 ± 0.012	0.0157	142	1.52
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.033 ± 0.005	0.0095	115	0.44

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0127 ± 0.0019	0.00307	116	0.56
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.018 ± 0.0027	0.00499	151	1.22
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0644 ± 0.01	0.00777	108	0.60
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0938 ± 0.014	0.0135	111	0.68
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.214 ± 0.032	0.0187	126	2.37
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.14 ± 0.021	0.0261	124	1.02
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.0867 ± 0.013	0.0275	75.5	-1.02
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.237 ± 0.035	0.0226	105	0.50
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.163 ± 0.024	0.0207	110	0.74



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0003

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0167 ± 0.0025	0.00219	107	0.21
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0171 ± 0.0026	0.0021	106	0.18
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.0016	0.00143	99.2	-0.03
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0123 ± 0.0018	0.00177	97.4	-0.09
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0344 ± 0.0052	0.00346	110	0.28
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0114 ± 0.0017	0.00141	96.9	-0.11
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00873 ± 0.0013	0.00121	108	0.24
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0132 ± 0.002	0.00219	108	0.24
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0171 ± 0.0026	0.00241	135	0.83
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00928 ± 0.0014	0.0018	176	1.38
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00911 ± 0.0014	0.00277	161	1.03
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0221 ± 0.0033	0.00279	87	-0.49
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0181 ± 0.0027	0.00221	98.4	-0.05
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0371 ± 0.0056	0.004	92.8	-0.26
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0251 ± 0.0038	0.00309	114	0.40
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.038 ± 0.0057	0.00665	85.8	-0.53
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0302 ± 0.0045	0.00548	171	1.32

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.029 ± 0.0043	0.0048	145	1.01
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0294 ± 0.0044	0.00714	161	1.06
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0215 ± 0.0032	0.00618	153	0.91
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0298 ± 0.0045	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0232 ± 0.0035	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0254 ± 0.0038	0.00323	126	0.65
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0254 ± 0.0038	0.00276	129	0.73
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.044 ± 0.0066	0.00835	126	0.64
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0287 ± 0.0043	0.00357	96.4	-0.12
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0439 ± 0.0066	0.00646	102	0.06
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0196 ± 0.0029	0.00223	114	0.40

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.114 ± 0.017	0.0144	111	0.33
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.087 ± 0.013	0.00828	105	0.16
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.176 ± 0.026	0.0176	100	0.01
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0378 ± 0.0057	0.00539	98.2	-0.06



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

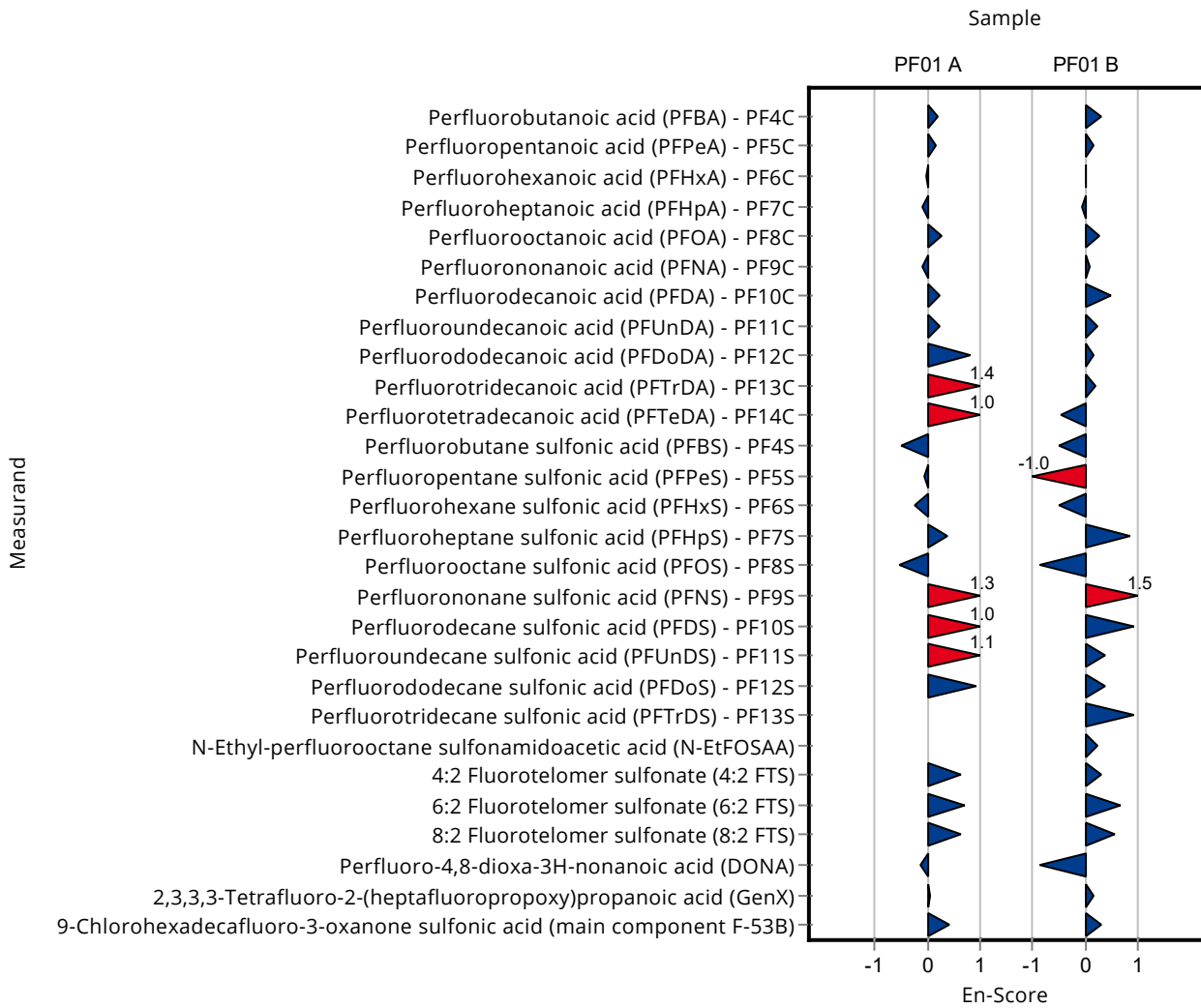
Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.185 ± 0.028	0.0236	110	0.29
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.119 ± 0.018	0.0116	103	0.09
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0462 ± 0.0069	0.00706	118	0.49
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0584 ± 0.0088	0.0118	109	0.25
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0211 ± 0.0032	0.0054	105	0.16
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0122 ± 0.0018	0.00262	107	0.21
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0109 ± 0.0016	0.00588	85.3	-0.44
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0261 ± 0.0039	0.00602	86.7	-0.49
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.057 ± 0.0085	0.00819	76.5	-1.00
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0474 ± 0.0071	0.00821	86.6	-0.50
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0537 ± 0.0081	0.00898	138	0.88
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.0932 ± 0.014	0.0213	78.8	-0.85
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.17 ± 0.026	0.0174	186	1.48
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0799 ± 0.012	0.0157	142	0.95
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.033 ± 0.005	0.0095	115	0.37
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0127 ± 0.0019	0.00307	116	0.40
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.018 ± 0.0027	0.00499	151	0.93
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0644 ± 0.01	0.00777	108	0.22

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0938 ± 0.014	0.0135	111	0.31
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.214 ± 0.032	0.0187	126	0.68
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.14 ± 0.021	0.0261	124	0.58
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.0867 ± 0.013	0.0275	75.5	-0.86
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.237 ± 0.035	0.0226	105	0.16
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.163 ± 0.024	0.0207	110	0.30



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.015 ± 0.004	0.00219	96	-0.28
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.005	0.0021	99	-0.08
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01 ± 0.003	0.00143	91	-0.69
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.01 ± 0.003	0.00177	79.2	-1.49
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.027 ± 0.008	0.00346	86	-1.28
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.01 ± 0.003	0.00141	85	-1.25
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.006 ± 0.002	0.00121	74.3	-1.72
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.01 ± 0.003	0.00219	82	-1.00
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.012 ± 0.003	0.00241	94.8	-0.28
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.005 ± 0.002	0.0018	94.7	-0.16
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.022 ± 0.007	0.00279	86.6	-1.22
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.015 ± 0.005	0.00221	81.6	-1.54
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.034 ± 0.01	0.004	85	-1.50
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.024 ± 0.007	0.00309	109	0.64
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.035 ± 0.011	0.00665	79	-1.40

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0004

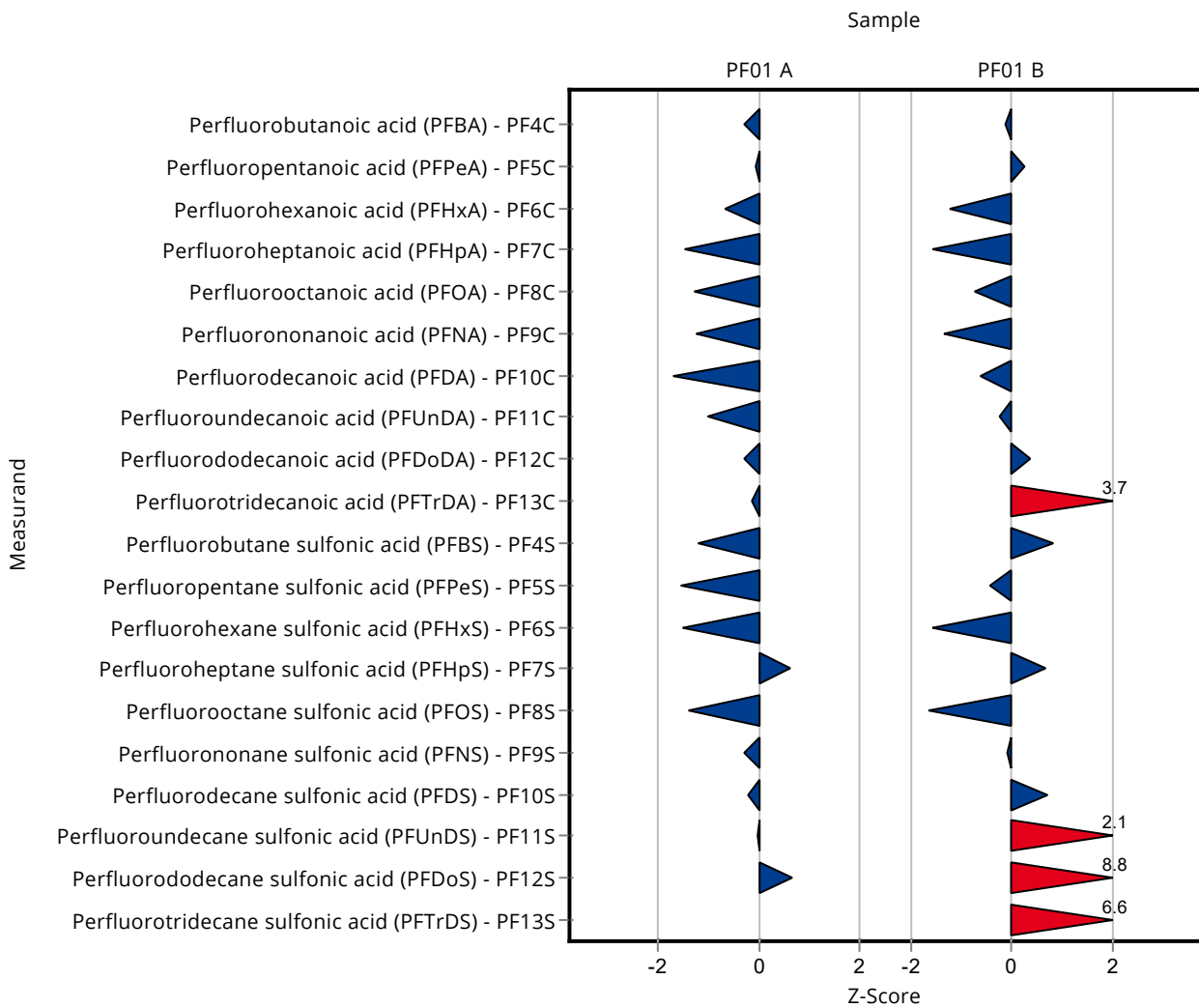
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.016 ± 0.005	0.00548	90.5	-0.31
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.019 ± 0.006	0.0048	95	-0.21
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.018 ± 0.005	0.00714	98.3	-0.04
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.018 ± 0.005	0.00618	128	0.64
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.019 ± 0.006	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.101 ± 0.03	0.0144	98.3	-0.12
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.085 ± 0.025	0.00828	103	0.26

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.154 ± 0.046	0.0176	87.7	-1.23
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03 ± 0.009	0.00539	77.9	-1.58
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.151 ± 0.045	0.0236	89.7	-0.74
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1 ± 0.03	0.0116	86.4	-1.36
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.035 ± 0.01	0.00706	89.2	-0.60
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.051 ± 0.015	0.0118	94.9	-0.23
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.022 ± 0.007	0.0054	110	0.37
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.021 ± 0.006	0.00262	184	3.66
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.01	0.00602	116	0.81
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.071 ± 0.021	0.00819	95.3	-0.42
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.042 ± 0.013	0.00821	76.7	-1.55
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.045 ± 0.014	0.00898	115	0.66
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.083 ± 0.025	0.0213	70.2	-1.66
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.09 ± 0.027	0.0174	98.4	-0.09
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.067 ± 0.02	0.0157	119	0.69
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.049 ± 0.015	0.0095	170	2.13

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.038 ± 0.011	0.00307	346	8.79
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.045 ± 0.014	0.00499	378	6.63
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0004

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.015 ± 0.004	0.00219	96	-0.08
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.005	0.0021	99	-0.02
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01 ± 0.003	0.00143	91	-0.16
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.01 ± 0.003	0.00177	79.2	-0.43
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.027 ± 0.008	0.00346	86	-0.27
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.01 ± 0.003	0.00141	85	-0.29
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.006 ± 0.002	0.00121	74.3	-0.51
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.01 ± 0.003	0.00219	82	-0.36
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.012 ± 0.003	0.00241	94.8	-0.11
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.005 ± 0.002	0.0018	94.7	-0.07
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.022 ± 0.007	0.00279	86.6	-0.24
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.015 ± 0.005	0.00221	81.6	-0.34
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.034 ± 0.01	0.004	85	-0.30
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.024 ± 0.007	0.00309	109	0.14
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.035 ± 0.011	0.00665	79	-0.42
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.016 ± 0.005	0.00548	90.5	-0.16

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.019 ± 0.006	0.0048	95	-0.08
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.018 ± 0.005	0.00714	98.3	-0.03
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.018 ± 0.005	0.00618	128	0.35
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.019 ± 0.006	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.101 ± 0.03	0.0144	98.3	-0.03
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.085 ± 0.025	0.00828	103	0.04
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.154 ± 0.046	0.0176	87.7	-0.23
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03 ± 0.009	0.00539	77.9	-0.47

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

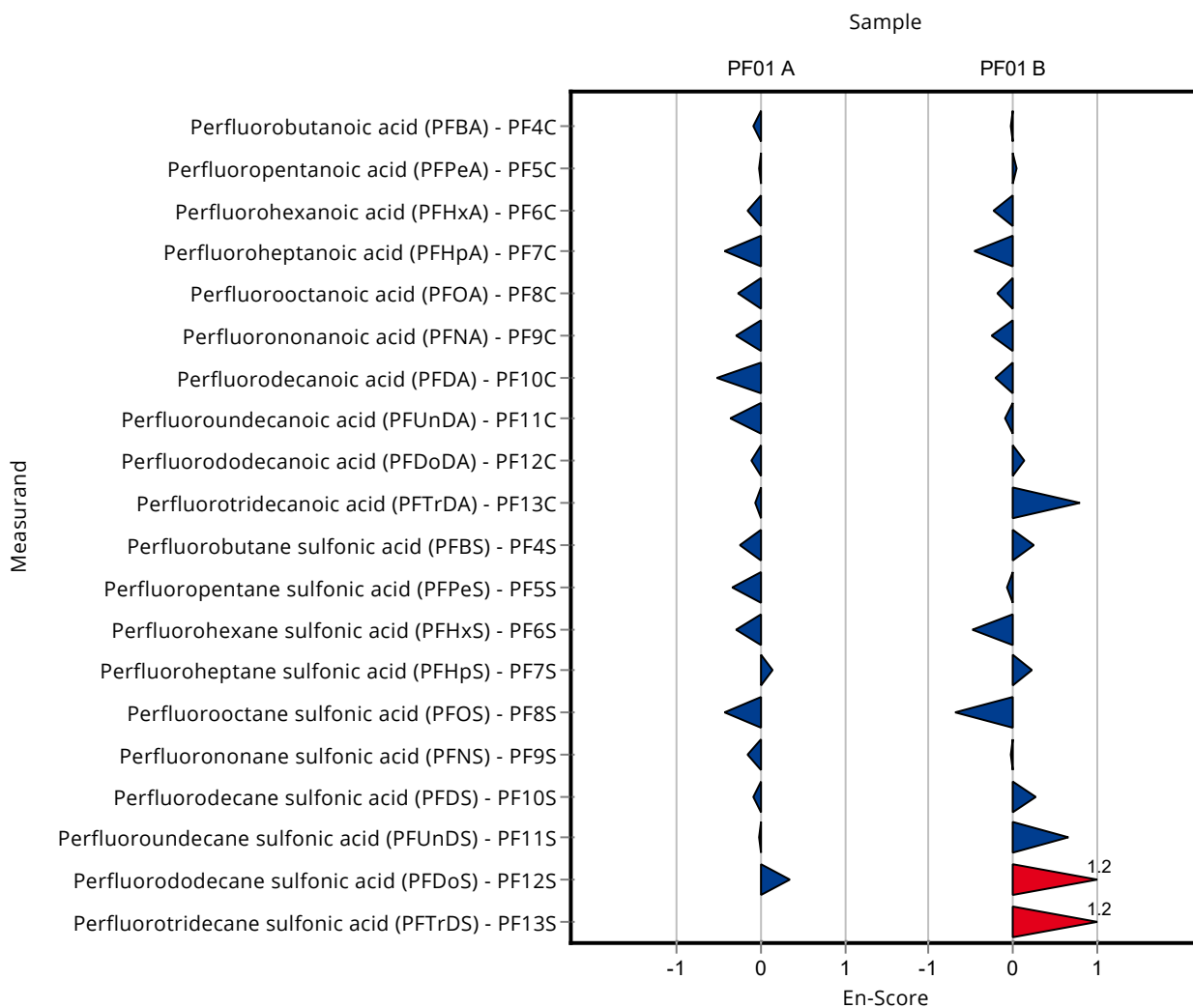
Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.151 ± 0.045	0.0236	89.7	-0.19
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1 ± 0.03	0.0116	86.4	-0.26
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.035 ± 0.01	0.00706	89.2	-0.21
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.051 ± 0.015	0.0118	94.9	-0.09
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.022 ± 0.007	0.0054	110	0.14
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.021 ± 0.006	0.00262	184	0.80
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.01	0.00602	116	0.24
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.071 ± 0.021	0.00819	95.3	-0.08
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.042 ± 0.013	0.00821	76.7	-0.48
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.045 ± 0.014	0.00898	115	0.21
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.083 ± 0.025	0.0213	70.2	-0.69
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.09 ± 0.027	0.0174	98.4	-0.03
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.067 ± 0.02	0.0157	119	0.27
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.049 ± 0.015	0.0095	170	0.66
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.038 ± 0.011	0.00307	346	1.22
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.045 ± 0.014	0.00499	378	1.17
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0149 ± 0.006	0.00219	95.4	-0.33
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0195 ± 0.0078	0.0021	121	1.59
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0121 ± 0.0036	0.00143	110	0.78
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0156 ± 0.0063	0.00177	123	1.68
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.016	0.00346	102	0.17
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0117 ± 0.0047	0.00141	99.4	-0.05
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0084 ± 0.0034	0.00121	104	0.26
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0121 ± 0.0042	0.00219	99.2	-0.04
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0114 ± 0.0045	0.00241	90	-0.52
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0049 ± 0.0022	0.0018	92.8	-0.21
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.024 ± 0.0096	0.00279	94.5	-0.50
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0192 ± 0.0067	0.00221	104	0.37
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0424 ± 0.0148	0.004	106	0.60
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0225 ± 0.009	0.00309	102	0.15
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0462 ± 0.0185	0.00665	104	0.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0162 ± 0.0073	0.00548	91.6	-0.27
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.008	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0156 ± 0.0055	0.00714	85.2	-0.38
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0126 ± 0.0071	0.00618	89.7	-0.23
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0128 ± 0.0051	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0181 ± 0.0063	0.00323	89.7	-0.65
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0201 ± 0.008	0.00276	102	0.13
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0332 ± 0.0083	0.00835	95.4	-0.19
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0286 ± 0.0114	0.00357	96.1	-0.33
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.015 ± 0.0083	0.00223	87.4	-0.97

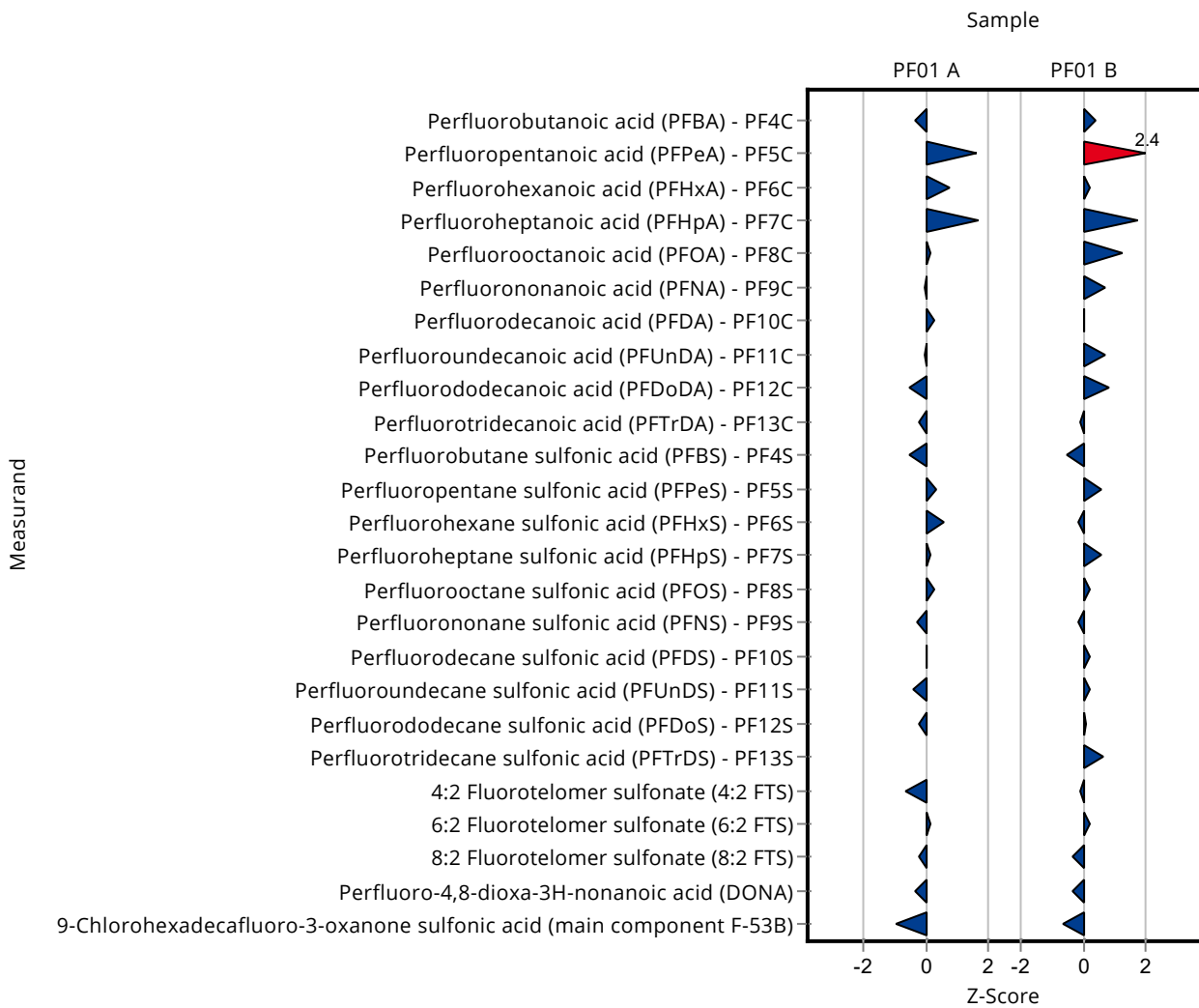
Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1086 ± 0.0434	0.0144	106	0.41
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.1029 ± 0.0411	0.00828	124	2.43

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1791 ± 0.0537	0.0176	102	0.20
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0479 ± 0.0192	0.00539	124	1.75
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1985 ± 0.0992	0.0236	118	1.28
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1235 ± 0.0494	0.0116	107	0.68
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0396 ± 0.0159	0.00706	101	0.05
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0623 ± 0.0218	0.0118	116	0.72
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0244 ± 0.0097	0.0054	122	0.81
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0111 ± 0.005	0.00262	97.4	-0.11
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0271 ± 0.0108	0.00602	90	-0.50
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.079 ± 0.0276	0.00819	106	0.55
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0535 ± 0.0187	0.00821	97.8	-0.15
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0441 ± 0.0177	0.00898	113	0.56
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1224 ± 0.049	0.0213	104	0.20
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0886 ± 0.0399	0.0174	96.8	-0.17
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0595 ± 0.0238	0.0157	106	0.22
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0309 ± 0.0108	0.0095	107	0.22



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0112 ± 0.0063	0.00307	102	0.07
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0151 ± 0.006	0.00499	127	0.64
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0832 ± 0.0291	0.0135	98.3	-0.11
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.1737 ± 0.0695	0.0187	102	0.21
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.1044 ± 0.0261	0.0261	92.1	-0.34
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.1049 ± 0.042	0.0275	91.4	-0.36
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1343 ± 0.0738	0.0207	90.9	-0.65



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0005

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0149 ± 0.006	0.00219	95.4	-0.06
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0195 ± 0.0078	0.0021	121	0.21
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0121 ± 0.0036	0.00143	110	0.15
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0156 ± 0.0063	0.00177	123	0.23
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.016	0.00346	102	0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0117 ± 0.0047	0.00141	99.4	-0.01
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0084 ± 0.0034	0.00121	104	0.05
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0121 ± 0.0042	0.00219	99.2	-0.01
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0114 ± 0.0045	0.00241	90	-0.14
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0049 ± 0.0022	0.0018	92.8	-0.09
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.024 ± 0.0096	0.00279	94.5	-0.07
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0192 ± 0.0067	0.00221	104	0.06
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0424 ± 0.0148	0.004	106	0.08
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0225 ± 0.009	0.00309	102	0.03
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0462 ± 0.0185	0.00665	104	0.05
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0162 ± 0.0073	0.00548	91.6	-0.10

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.008	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0156 ± 0.0055	0.00714	85.2	-0.22
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0126 ± 0.0071	0.00618	89.7	-0.10
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0128 ± 0.0051	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0181 ± 0.0063	0.00323	89.7	-0.16
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0201 ± 0.008	0.00276	102	0.02
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0332 ± 0.0083	0.00835	95.4	-0.09
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0286 ± 0.0114	0.00357	96.1	-0.05
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.015 ± 0.0083	0.00223	87.4	-0.13

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1086 ± 0.0434	0.0144	106	0.07
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.1029 ± 0.0411	0.00828	124	0.24
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1791 ± 0.0537	0.0176	102	0.03
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0479 ± 0.0192	0.00539	124	0.24

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

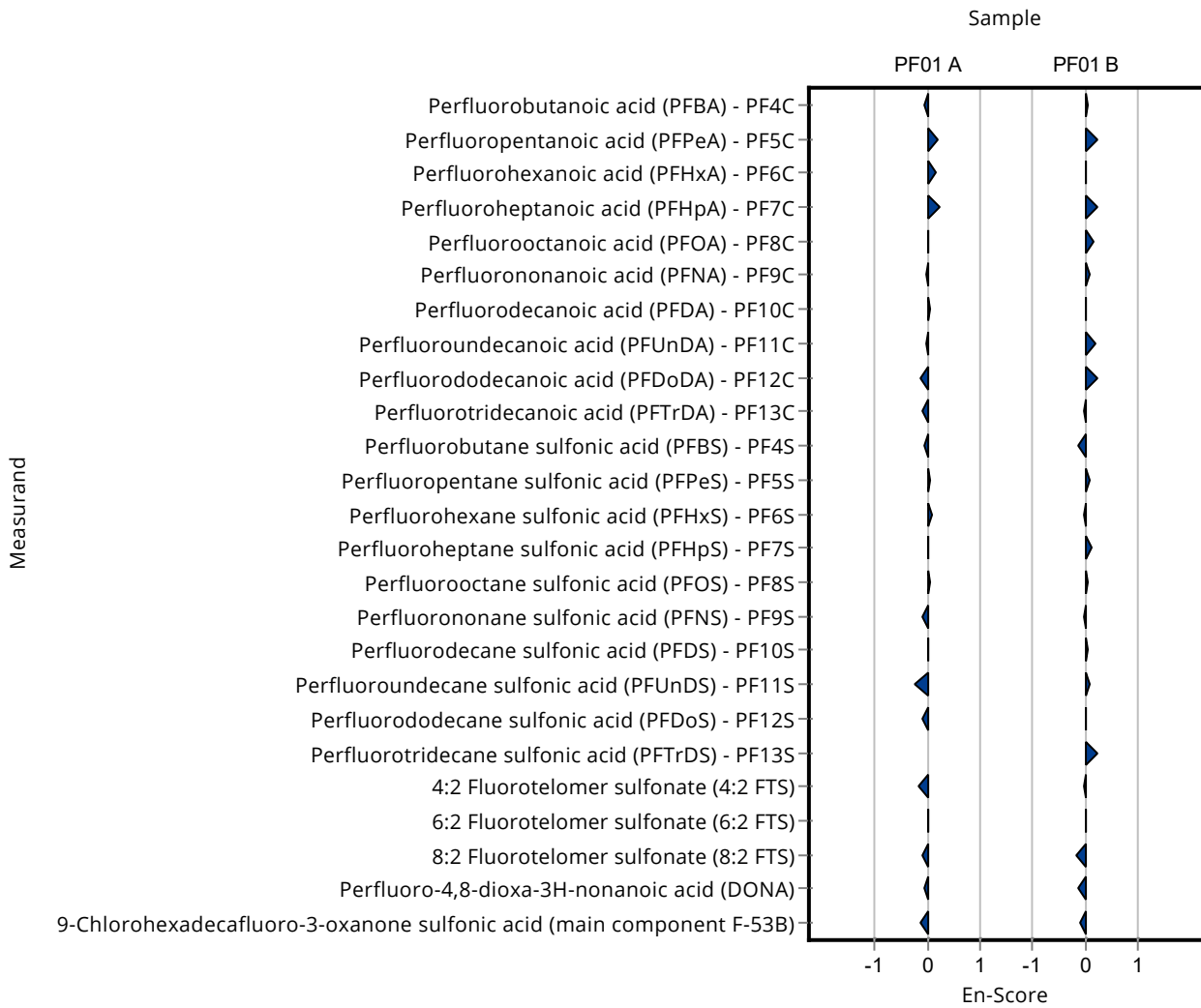
Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1985 ± 0.0992	0.0236	118	0.15
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1235 ± 0.0494	0.0116	107	0.08
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0396 ± 0.0159	0.00706	101	0.01
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0623 ± 0.0218	0.0118	116	0.19
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0244 ± 0.0097	0.0054	122	0.22
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0111 ± 0.005	0.00262	97.4	-0.03
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0271 ± 0.0108	0.00602	90	-0.14
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.079 ± 0.0276	0.00819	106	0.08
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0535 ± 0.0187	0.00821	97.8	-0.03
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0441 ± 0.0177	0.00898	113	0.14
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1224 ± 0.049	0.0213	104	0.04
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0886 ± 0.0399	0.0174	96.8	-0.04
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0595 ± 0.0238	0.0157	106	0.07
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0309 ± 0.0108	0.0095	107	0.09
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0112 ± 0.0063	0.00307	102	0.02
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0151 ± 0.006	0.00499	127	0.26
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0832 ± 0.0291	0.0135	98.3	-0.02
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.1737 ± 0.0695	0.0187	102	0.03
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.1044 ± 0.0261	0.0261	92.1	-0.16
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.1049 ± 0.042	0.0275	91.4	-0.11
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1343 ± 0.0738	0.0207	90.9	-0.09



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0149 ± 0.00536	0.00219	95.4	-0.33
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0163 ± 0.00588	0.0021	101	0.06
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0108 ± 0.0039	0.00143	98.3	-0.13
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0128 ± 0.00461	0.00177	101	0.10
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0329 ± 0.01185	0.00346	105	0.43
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.00397	0.00141	93.5	-0.54
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0075 ± 0.00271	0.00121	92.8	-0.48
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0111 ± 0.004	0.00219	91	-0.50
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0104 ± 0.00375	0.00241	82.1	-0.94
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0041 ± 0.00147	0.0018	77.6	-0.66
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.0047 ± 0.00168	0.00277	83.1	-0.34
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0259 ± 0.00932	0.00279	102	0.18
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0194 ± 0.00698	0.00221	105	0.46
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0431 ± 0.01552	0.004	108	0.78
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0221 ± 0.00796	0.00309	100	0.02
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0431 ± 0.01551	0.00665	97.3	-0.18



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0006

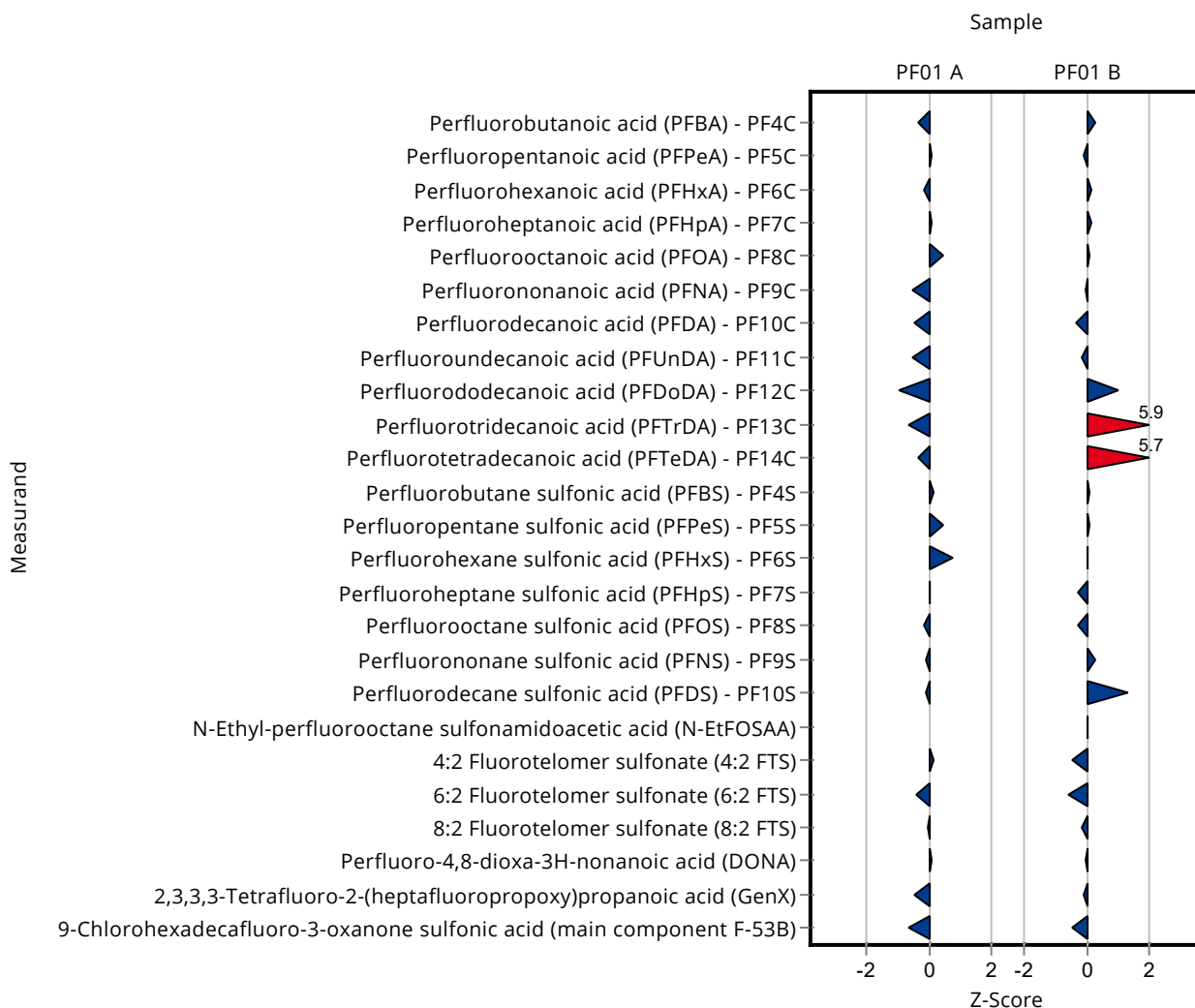
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0172 ± 0.00621	0.00548	97.2	-0.09
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0195 ± 0.00703	0.0048	97.5	-0.10
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0138 ± 0.00498	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0206 ± 0.00741	0.00323	102	0.13
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0187 ± 0.00672	0.00276	94.7	-0.38
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0346 ± 0.01246	0.00835	99.5	-0.02
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.03 ± 0.0108	0.00357	101	0.06
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0401 ± 0.01442	0.00646	93.1	-0.46
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0157 ± 0.00565	0.00223	91.5	-0.65

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1069 ± 0.0385	0.0144	104	0.29
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0822 ± 0.02958	0.00828	99.3	-0.07

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1787 ± 0.06435	0.0176	102	0.17
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0392 ± 0.01413	0.00539	102	0.13
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1703 ± 0.06129	0.0236	101	0.08
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1151 ± 0.04143	0.0116	99.5	-0.05
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0368 ± 0.01327	0.00706	93.8	-0.35
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0523 ± 0.01885	0.0118	97.3	-0.12
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0256 ± 0.00921	0.0054	128	1.03
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0269 ± 0.0097	0.00262	236	5.91
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.046 ± 0.01657	0.00588	360	5.65
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0306 ± 0.011	0.00602	102	0.08
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0753 ± 0.02712	0.00819	101	0.10
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0552 ± 0.01986	0.00821	101	0.06
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0364 ± 0.01309	0.00898	93.2	-0.29
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1125 ± 0.0405	0.0213	95.1	-0.27
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0962 ± 0.03464	0.0174	105	0.27
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0764 ± 0.02749	0.0157	136	1.29
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0602 ± 0.02168	0.00777	101	0.06
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0785 ± 0.02824	0.0135	92.7	-0.45
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.159 ± 0.05723	0.0187	93.6	-0.58
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.1099 ± 0.03955	0.0261	97	-0.13
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.1135 ± 0.04088	0.0275	98.9	-0.05
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.2232 ± 0.08034	0.0226	98.9	-0.11
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1383 ± 0.0498	0.0207	93.7	-0.45



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0006

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0149 ± 0.00536	0.00219	95.4	-0.07
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0163 ± 0.00588	0.0021	101	0.01
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0108 ± 0.0039	0.00143	98.3	-0.02
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0128 ± 0.00461	0.00177	101	0.02
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0329 ± 0.01185	0.00346	105	0.06
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.00397	0.00141	93.5	-0.10
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0075 ± 0.00271	0.00121	92.8	-0.11
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0111 ± 0.004	0.00219	91	-0.14
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0104 ± 0.00375	0.00241	82.1	-0.30
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0041 ± 0.00147	0.0018	77.6	-0.39
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.0047 ± 0.00168	0.00277	83.1	-0.25
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0259 ± 0.00932	0.00279	102	0.03
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0194 ± 0.00698	0.00221	105	0.07
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0431 ± 0.01552	0.004	108	0.10
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0221 ± 0.00796	0.00309	100	0.00
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0431 ± 0.01551	0.00665	97.3	-0.04
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0172 ± 0.00621	0.00548	97.2	-0.04

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0195 ± 0.00703	0.0048	97.5	-0.03
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0138 ± 0.00498	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0206 ± 0.00741	0.00323	102	0.03
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0187 ± 0.00672	0.00276	94.7	-0.08
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0346 ± 0.01246	0.00835	99.5	-0.01
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.03 ± 0.0108	0.00357	101	0.01
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0401 ± 0.01442	0.00646	93.1	-0.10
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0157 ± 0.00565	0.00223	91.5	-0.13

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.1069 ± 0.0385	0.0144	104	0.05
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0822 ± 0.02958	0.00828	99.3	-0.01
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1787 ± 0.06435	0.0176	102	0.02
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0392 ± 0.01413	0.00539	102	0.02

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0006

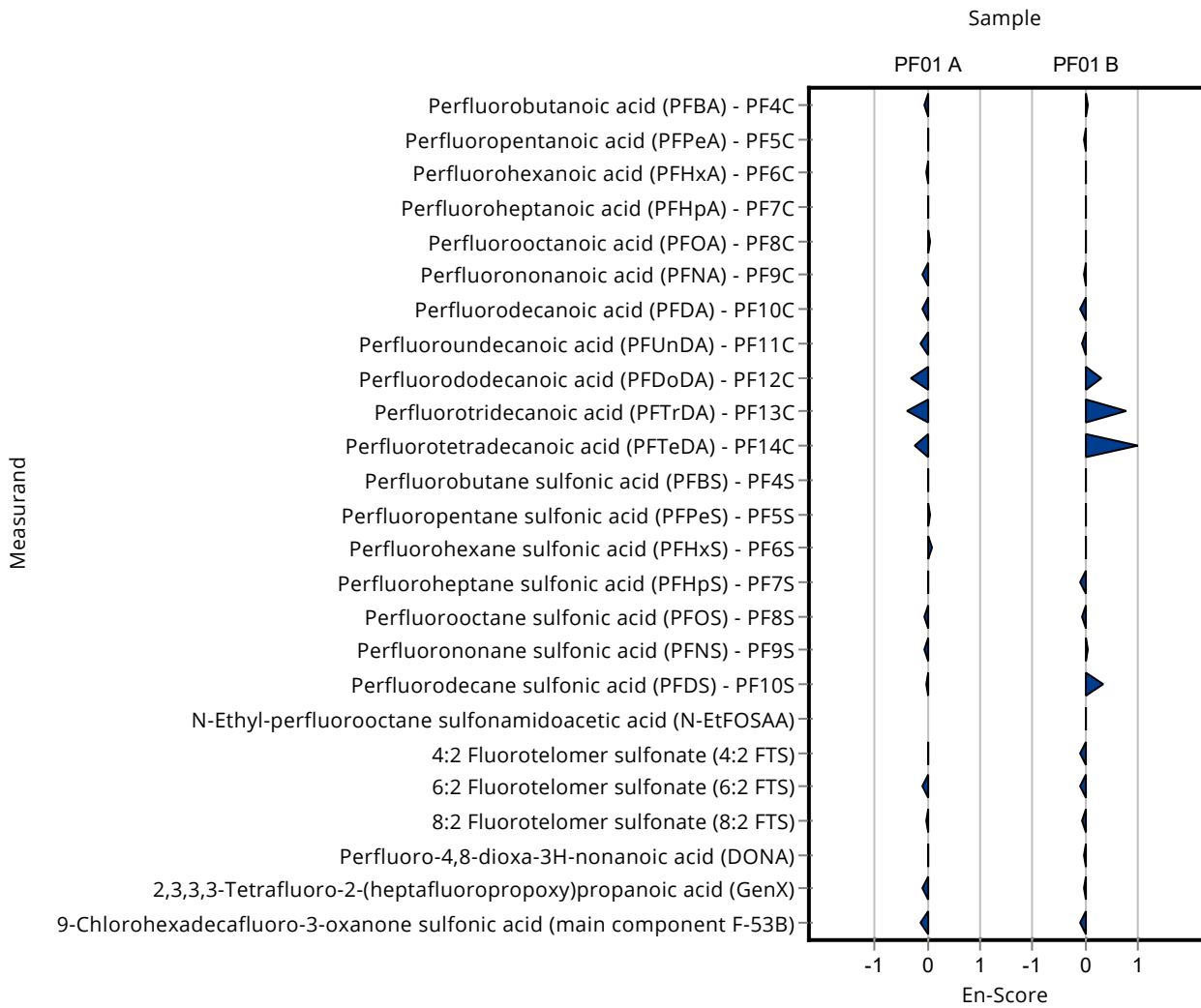
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1703 ± 0.06129	0.0236	101	0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1151 ± 0.04143	0.0116	99.5	-0.01
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0368 ± 0.01327	0.00706	93.8	-0.09
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0523 ± 0.01885	0.0118	97.3	-0.04
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0256 ± 0.00921	0.0054	128	0.30
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0269 ± 0.0097	0.00262	236	0.80
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.046 ± 0.01657	0.00588	360	1.00
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0306 ± 0.011	0.00602	102	0.02
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0753 ± 0.02712	0.00819	101	0.02
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0552 ± 0.01986	0.00821	101	0.01
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0364 ± 0.01309	0.00898	93.2	-0.10
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1125 ± 0.0405	0.0213	95.1	-0.07
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0962 ± 0.03464	0.0174	105	0.07
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0764 ± 0.02749	0.0157	136	0.37
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0602 ± 0.02168	0.00777	101	0.01

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0785 ± 0.02824	0.0135	92.7	-0.11
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.159 ± 0.05723	0.0187	93.6	-0.09
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.1099 ± 0.03955	0.0261	97	-0.04
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.1135 ± 0.04088	0.0275	98.9	-0.02
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.2232 ± 0.08034	0.0226	98.9	-0.02
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1383 ± 0.0498	0.0207	93.7	-0.09





Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.015 ± 0.003	0.00219	96	-0.28
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.015 ± 0.003	0.0021	92.8	-0.56
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.011 ± 0.002	0.00143	100	0.01
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.002	0.00177	95	-0.36
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.006	0.00346	102	0.17
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.012 ± 0.002	0.00141	102	0.16
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.008 ± 0.002	0.00121	99	-0.07
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.012 ± 0.002	0.00219	98.4	-0.09
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.012 ± 0.002	0.00241	94.8	-0.28
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.006 ± 0.001	0.0018	114	0.40
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.006 ± 0.001	0.00277	106	0.12
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.024 ± 0.004	0.00279	94.5	-0.50
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.016 ± 0.003	0.00221	87	-1.08
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04 ± 0.008	0.004	100	0.00
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.021 ± 0.004	0.00309	95.3	-0.34
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.046 ± 0.009	0.00665	104	0.25

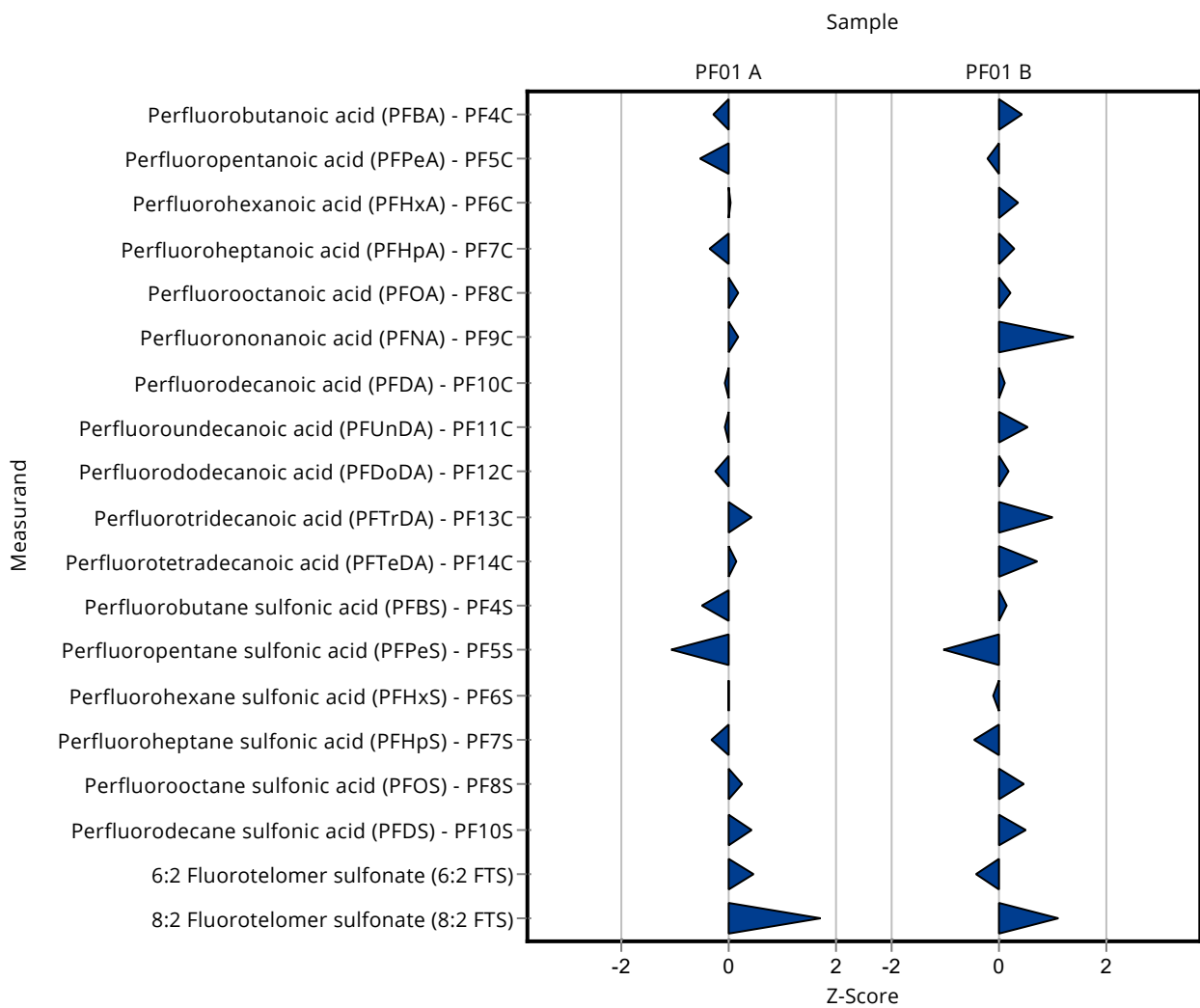
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.022 ± 0.004	0.0048	110	0.42
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.021 ± 0.004	0.00276	106	0.45
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.049 ± 0.01	0.00835	141	1.70
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.109 ± 0.02	0.0144	106	0.44
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.081 ± 0.02	0.00828	97.8	-0.22

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.182 ± 0.04	0.0176	104	0.36
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.04 ± 0.008	0.00539	104	0.28
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.174 ± 0.03	0.0236	103	0.24
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.132 ± 0.03	0.0116	114	1.41
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.04 ± 0.008	0.00706	102	0.11
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.06 ± 0.01	0.0118	112	0.53
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.021 ± 0.004	0.0054	105	0.18
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.014 ± 0.003	0.00262	123	0.99
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.017 ± 0.003	0.00588	133	0.72
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.031 ± 0.006	0.00602	103	0.15
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.066 ± 0.01	0.00819	88.6	-1.03
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.054 ± 0.01	0.00821	98.7	-0.09
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.035 ± 0.007	0.00898	89.6	-0.45
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.128 ± 0.03	0.0213	108	0.46
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.064 ± 0.01	0.0157	114	0.50
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.162 ± 0.03	0.0187	95.4	-0.42
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.142 ± 0.03	0.0261	125	1.10
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0007

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.015 ± 0.003	0.00219	96	-0.10
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.015 ± 0.003	0.0021	92.8	-0.19
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.011 ± 0.002	0.00143	100	0.00
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.002	0.00177	95	-0.15
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.006	0.00346	102	0.05
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.012 ± 0.002	0.00141	102	0.06
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.008 ± 0.002	0.00121	99	-0.02
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.012 ± 0.002	0.00219	98.4	-0.05
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.012 ± 0.002	0.00241	94.8	-0.16
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.006 ± 0.001	0.0018	114	0.34
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.006 ± 0.001	0.00277	106	0.13
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.024 ± 0.004	0.00279	94.5	-0.17
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.016 ± 0.003	0.00221	87	-0.39
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04 ± 0.008	0.004	100	0.00
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.021 ± 0.004	0.00309	95.3	-0.13
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.046 ± 0.009	0.00665	104	0.09
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.022 ± 0.004	0.0048	110	0.24
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.021 ± 0.004	0.00276	106	0.15
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.049 ± 0.01	0.00835	141	0.68
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.109 ± 0.02	0.0144	106	0.15
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.081 ± 0.02	0.00828	97.8	-0.04
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.182 ± 0.04	0.0176	104	0.08
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.04 ± 0.008	0.00539	104	0.09



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

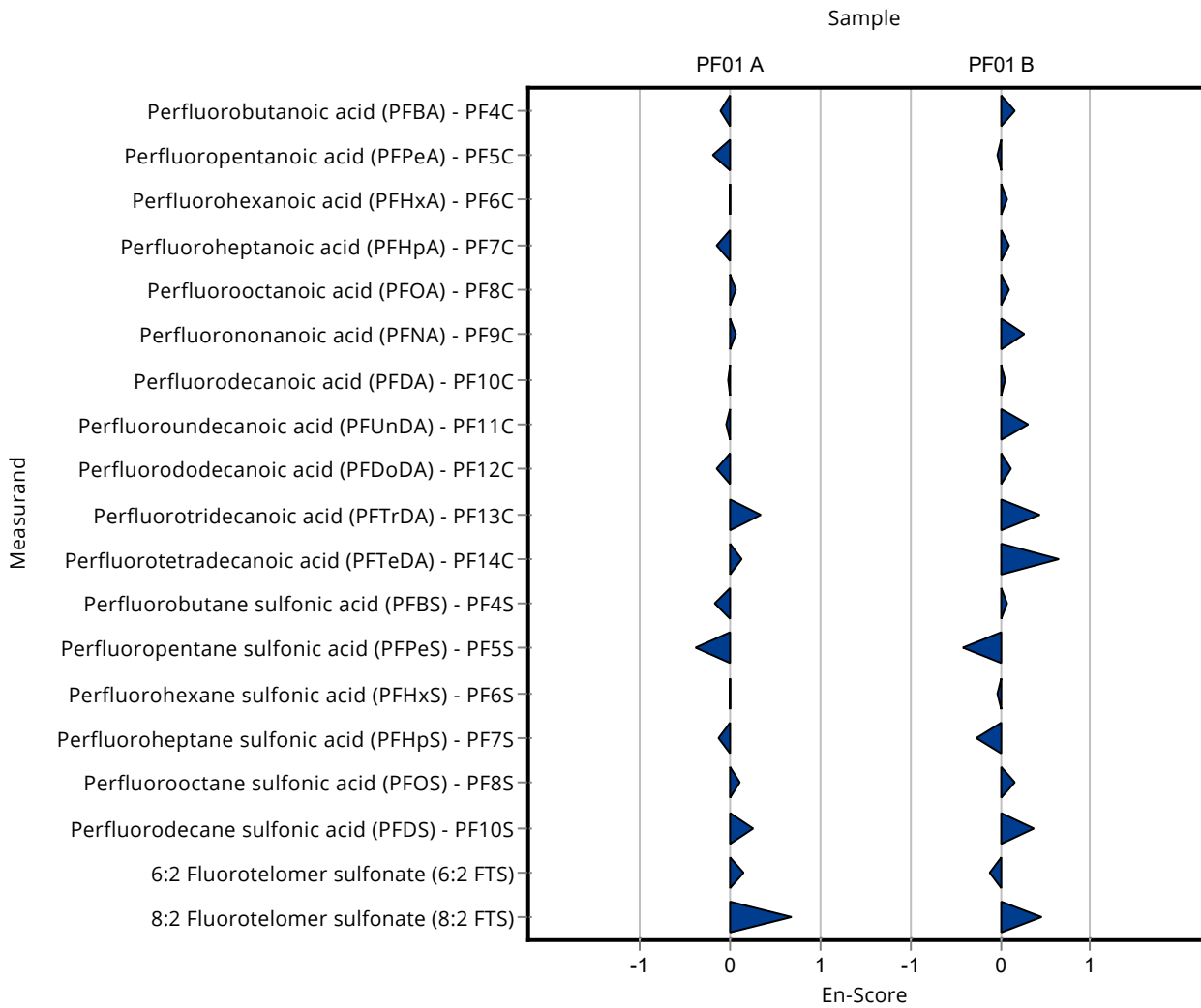
Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.174 ± 0.03	0.0236	103	0.09
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.132 ± 0.03	0.0116	114	0.27
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.04 ± 0.008	0.00706	102	0.05
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.06 ± 0.01	0.0118	112	0.30
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.021 ± 0.004	0.0054	105	0.12
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.014 ± 0.003	0.00262	123	0.43
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.017 ± 0.003	0.00588	133	0.64
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.031 ± 0.006	0.00602	103	0.07
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.066 ± 0.01	0.00819	88.6	-0.42
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.054 ± 0.01	0.00821	98.7	-0.04
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.035 ± 0.007	0.00898	89.6	-0.28
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.128 ± 0.03	0.0213	108	0.16
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.064 ± 0.01	0.0157	114	0.37
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.162 ± 0.03	0.0187	95.4	-0.13
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.142 ± 0.03	0.0261	125	0.46
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.018 ± 0.009	0.00219	115	1.09
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.018 ± 0.009	0.0021	111	0.87
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.014 ± 0.007	0.00143	127	2.11
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.016 ± 0.008	0.00177	127	1.90
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.04 ± 0.012	0.00346	127	2.49
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.014 ± 0.007	0.00141	119	1.58
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.01 ± 0.005	0.00121	124	1.59
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.014 ± 0.007	0.00219	115	0.82
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.013 ± 0.007	0.00241	103	0.14
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.01 (LOQ) ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.03 ± 0.009	0.00279	118	1.64
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.019 ± 0.01	0.00221	103	0.28
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.047 ± 0.015	0.004	118	1.75
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.024 ± 0.012	0.00309	109	0.64
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.041 ± 0.013	0.00665	92.5	-0.50

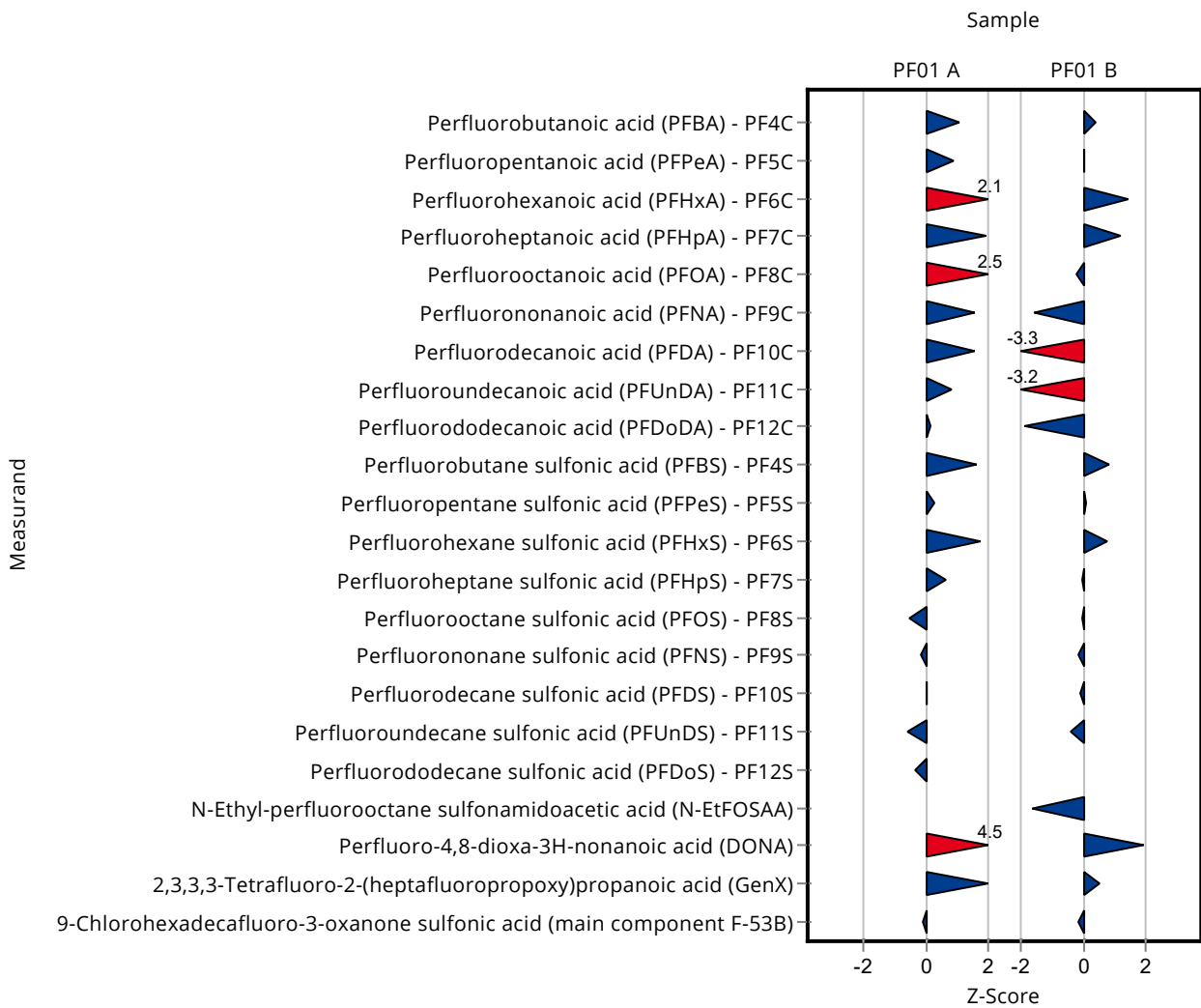
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.017 ± 0.009	0.00548	96.1	-0.13
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.01	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.014 ± 0.007	0.00714	76.5	-0.60
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.012 ± 0.006	0.00618	85.4	-0.33
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.01 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.016 ± 0.008	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.046 ± 0.014	0.00357	155	4.54
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.056 ± 0.017	0.00646	130	2.00
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.017 ± 0.009	0.00223	99.1	-0.07

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.108 ± 0.033	0.0144	105	0.37
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.083 ± 0.025	0.00828	100	0.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.201 ± 0.061	0.0176	114	1.44
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.045 ± 0.014	0.00539	117	1.21
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.163 ± 0.098	0.0236	96.8	-0.23
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.098 ± 0.059	0.0116	84.7	-1.53
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.016 ± 0.01	0.00706	40.8	-3.29
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.016 ± 0.01	0.0118	29.8	-3.19
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.01 ± 0.006	0.0054	50	-1.85
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.01 (LOQ) ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	<0.01 (LOQ) ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.011	0.00602	116	0.81
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.075 ± 0.023	0.00819	101	0.06
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.061 ± 0.019	0.00821	111	0.76
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.039 ± 0.012	0.00898	99.9	0.00
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.118 ± 0.036	0.0213	99.8	-0.01
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.089 ± 0.027	0.0174	97.3	-0.14
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.055 ± 0.017	0.0157	98.1	-0.07
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.025 ± 0.013	0.0095	86.9	-0.40

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	<0.01 (LOQ) ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	<0.01 (LOQ) ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.047 ± 0.015	0.00777	78.7	-1.64
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.168 ± 0.051	0.0275	146	1.93
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.238 ± 0.143	0.0226	105	0.54
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.145 ± 0.044	0.0207	98.2	-0.13





Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0008

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.018 ± 0.009	0.00219	115	0.13
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.018 ± 0.009	0.0021	111	0.10
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.014 ± 0.007	0.00143	127	0.22
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.016 ± 0.008	0.00177	127	0.21
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.04 ± 0.012	0.00346	127	0.36
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.014 ± 0.007	0.00141	119	0.16
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.01 ± 0.005	0.00121	124	0.19
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.014 ± 0.007	0.00219	115	0.13
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.013 ± 0.007	0.00241	103	0.02
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.01 (LOQ) ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.03 ± 0.009	0.00279	118	0.25
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.019 ± 0.01	0.00221	103	0.03
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.047 ± 0.015	0.004	118	0.23
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.024 ± 0.012	0.00309	109	0.08
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.041 ± 0.013	0.00665	92.5	-0.13
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.017 ± 0.009	0.00548	96.1	-0.04

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.01	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.014 ± 0.007	0.00714	76.5	-0.29
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.012 ± 0.006	0.00618	85.4	-0.16
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.01 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.016 ± 0.008	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.046 ± 0.014	0.00357	155	0.58
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.056 ± 0.017	0.00646	130	0.38
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.017 ± 0.009	0.00223	99.1	-0.01

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.108 ± 0.033	0.0144	105	0.08
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.083 ± 0.025	0.00828	100	0.00
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.201 ± 0.061	0.0176	114	0.21
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.045 ± 0.014	0.00539	117	0.23

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

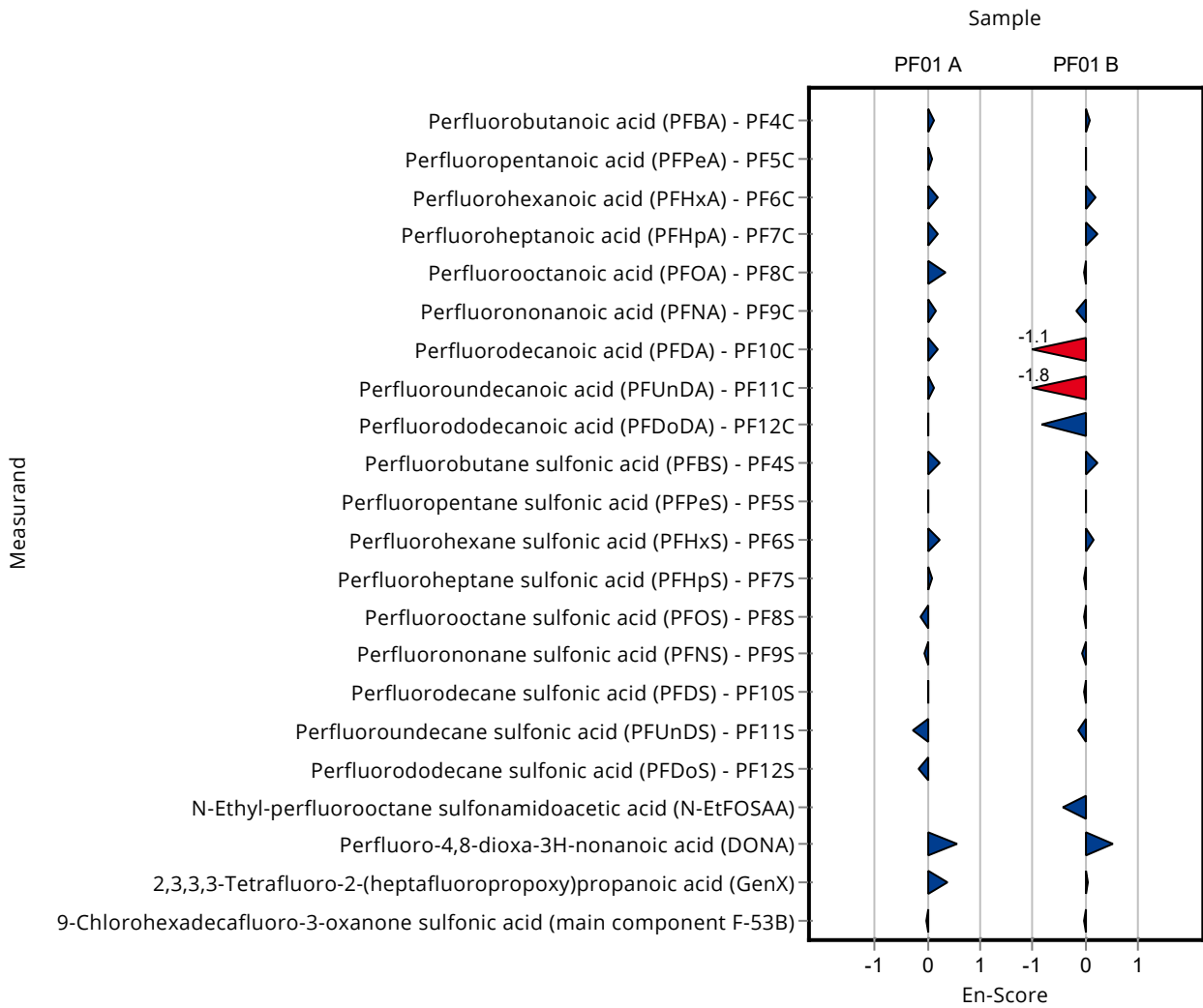
Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.163 ± 0.098	0.0236	96.8	-0.03
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.098 ± 0.059	0.0116	84.7	-0.15
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.016 ± 0.01	0.00706	40.8	-1.15
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.016 ± 0.01	0.0118	29.8	-1.82
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.01 ± 0.006	0.0054	50	-0.82
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.01 (LOQ) ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	<0.01 (LOQ) ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.011	0.00602	116	0.22
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.075 ± 0.023	0.00819	101	0.01
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.061 ± 0.019	0.00821	111	0.16
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.039 ± 0.012	0.00898	99.9	0.00
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.118 ± 0.036	0.0213	99.8	0.00
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.089 ± 0.027	0.0174	97.3	-0.05
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.055 ± 0.017	0.0157	98.1	-0.03
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.025 ± 0.013	0.0095	86.9	-0.14
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	<0.01 (LOQ) ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	<0.01 (LOQ) ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.047 ± 0.015	0.00777	78.7	-0.42

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.168 ± 0.051	0.0275	146	0.51
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.238 ± 0.143	0.0226	105	0.04
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.145 ± 0.044	0.0207	98.2	-0.03



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.00719 ± 0.00252	0.00219	46	-3.86
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.00846 ± 0.00296	0.0021	52.3	-3.67
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00536 ± 0.00188	0.00143	48.8	-3.94
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.00537 ± 0.00188	0.00177	42.5	-4.11
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0188 ± 0.00658	0.00346	59.8	-3.65
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.00459 ± 0.00161	0.00141	39	-5.08
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00266 ± 0.00093	0.00121	32.9	-4.47
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.00357 ± 0.00125	0.00219	29.3	-3.93
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.00413 ± 0.00145	0.00241	32.6	-3.55
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00243 ± 0.00085	0.0018	46	-1.59
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0125 ± 0.00438	0.00279	49.2	-4.62
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.00995 ± 0.00348	0.00221	54.1	-3.83
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0203 ± 0.00711	0.004	50.8	-4.92
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.00934 ± 0.00327	0.00309	42.4	-4.12
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0153 ± 0.00536	0.00665	34.5	-4.36

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.00703 ± 0.00246	0.00548	39.7	-1.94
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.00926 ± 0.00324	0.0048	46.3	-2.24
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.00678 ± 0.00237	0.00714	37	-1.61
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00962 ± 0.00337	0.00618	68.5	-0.72
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00783 ± 0.00274	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

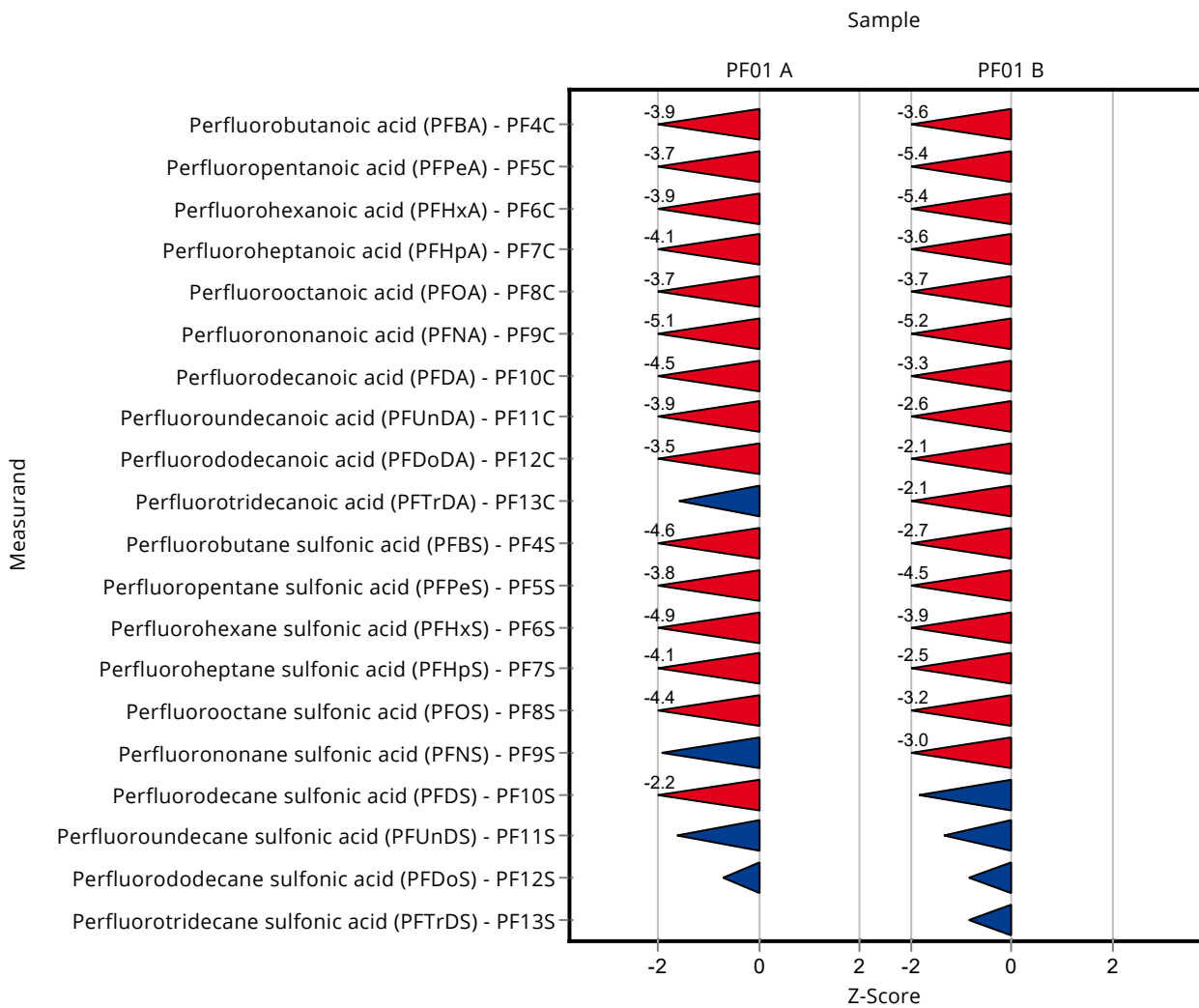
Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0509 ± 0.0178	0.0144	49.6	-3.60
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0384 ± 0.0134	0.00828	46.4	-5.36

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.0802 ± 0.0281	0.0176	45.7	-5.43
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.019 ± 0.00665	0.00539	49.4	-3.62
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.0802 ± 0.0281	0.0236	47.6	-3.74
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.0553 ± 0.0194	0.0116	47.8	-5.22
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0161 ± 0.00564	0.00706	41	-3.28
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0228 ± 0.00798	0.0118	42.4	-2.62
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.00888 ± 0.00311	0.0054	44.4	-2.06
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.00582 ± 0.00204	0.00262	51.1	-2.13
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0138 ± 0.00483	0.00602	45.8	-2.71
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0376 ± 0.0132	0.00819	50.5	-4.50
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.023 ± 0.00805	0.00821	42	-3.87
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0167 ± 0.00585	0.00898	42.8	-2.49
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.0499 ± 0.0175	0.0213	42.2	-3.21
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0398 ± 0.0139	0.0174	43.5	-2.97
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0271 ± 0.00949	0.0157	48.3	-1.85
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0162 ± 0.00567	0.0095	56.3	-1.32



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00834 ± 0.00292	0.00307	76	-0.86
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00762 ± 0.00267	0.00499	64.1	-0.86
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0009

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.00719 ± 0.00252	0.00219	46	-1.65
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.00846 ± 0.00296	0.0021	52.3	-1.29
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00536 ± 0.00188	0.00143	48.8	-1.48
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.00537 ± 0.00188	0.00177	42.5	-1.87
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0188 ± 0.00658	0.00346	59.8	-0.95
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.00459 ± 0.00161	0.00141	39	-2.17
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00266 ± 0.00093	0.00121	32.9	-2.79
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.00357 ± 0.00125	0.00219	29.3	-3.17
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.00413 ± 0.00145	0.00241	32.6	-2.71
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00243 ± 0.00085	0.0018	46	-1.55
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0125 ± 0.00438	0.00279	49.2	-1.46
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.00995 ± 0.00348	0.00221	54.1	-1.20
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0203 ± 0.00711	0.004	50.8	-1.38
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.00934 ± 0.00327	0.00309	42.4	-1.89
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0153 ± 0.00536	0.00665	34.5	-2.60
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.00703 ± 0.00246	0.00548	39.7	-1.84

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.00926 ± 0.00324	0.0048	46.3	-1.55
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.00678 ± 0.00237	0.00714	37	-1.58
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00962 ± 0.00337	0.00618	68.5	-0.53
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00783 ± 0.00274	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0509 ± 0.0178	0.0144	49.6	-1.43
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0384 ± 0.0134	0.00828	46.4	-1.64
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.0802 ± 0.0281	0.0176	45.7	-1.68
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.019 ± 0.00665	0.00539	49.4	-1.44

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

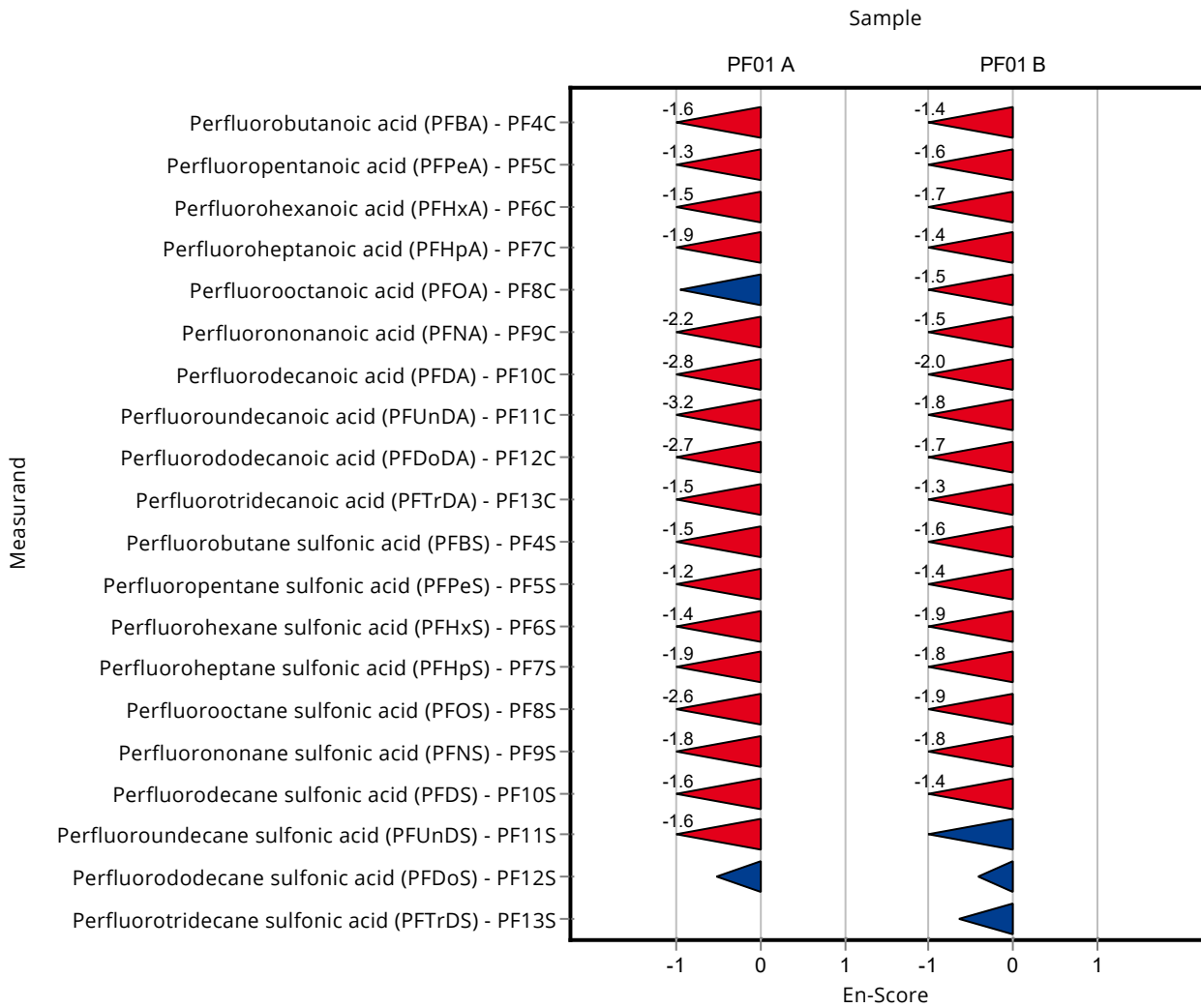
Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.0802 ± 0.0281	0.0236	47.6	-1.54
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.0553 ± 0.0194	0.0116	47.8	-1.54
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0161 ± 0.00564	0.00706	41	-1.97
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0228 ± 0.00798	0.0118	42.4	-1.83
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.00888 ± 0.00311	0.0054	44.4	-1.66
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.00582 ± 0.00204	0.00262	51.1	-1.32
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0138 ± 0.00483	0.00602	45.8	-1.63
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0376 ± 0.0132	0.00819	50.5	-1.38
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.023 ± 0.00805	0.00821	42	-1.92
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0167 ± 0.00585	0.00898	42.8	-1.80
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.0499 ± 0.0175	0.0213	42.2	-1.88
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0398 ± 0.0139	0.0174	43.5	-1.75
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0271 ± 0.00949	0.0157	48.3	-1.42
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0162 ± 0.00567	0.0095	56.3	-1.00
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00834 ± 0.00292	0.00307	76	-0.43
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00762 ± 0.00267	0.00499	64.1	-0.65
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0207 ± 0.0014	0.00219	133	2.32
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0156 ± 0.0019	0.0021	96.5	-0.27
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.00086	0.00143	99.2	-0.06
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0127 ± 0.0015	0.00177	101	0.04
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0322 ± 0.0036	0.00346	103	0.23
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0112 ± 0.0016	0.00141	95.2	-0.40
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	<0.01 (LOQ) ± -	0.00121	-	-
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0103 ± 0.0016	0.00219	84.5	-0.86
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0128 ± 0.003	0.00241	101	0.06
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0101 ± 0.0046	0.0018	191	2.68
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.0122 ± 0.0062	0.00277	216	2.36
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0286 ± 0.0032	0.00279	113	1.14
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	- ± -	0.00221	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0425 ± 0.0058	0.004	106	0.63
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	- ± -	0.00309	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0444 ± 0.0082	0.00665	100	0.01



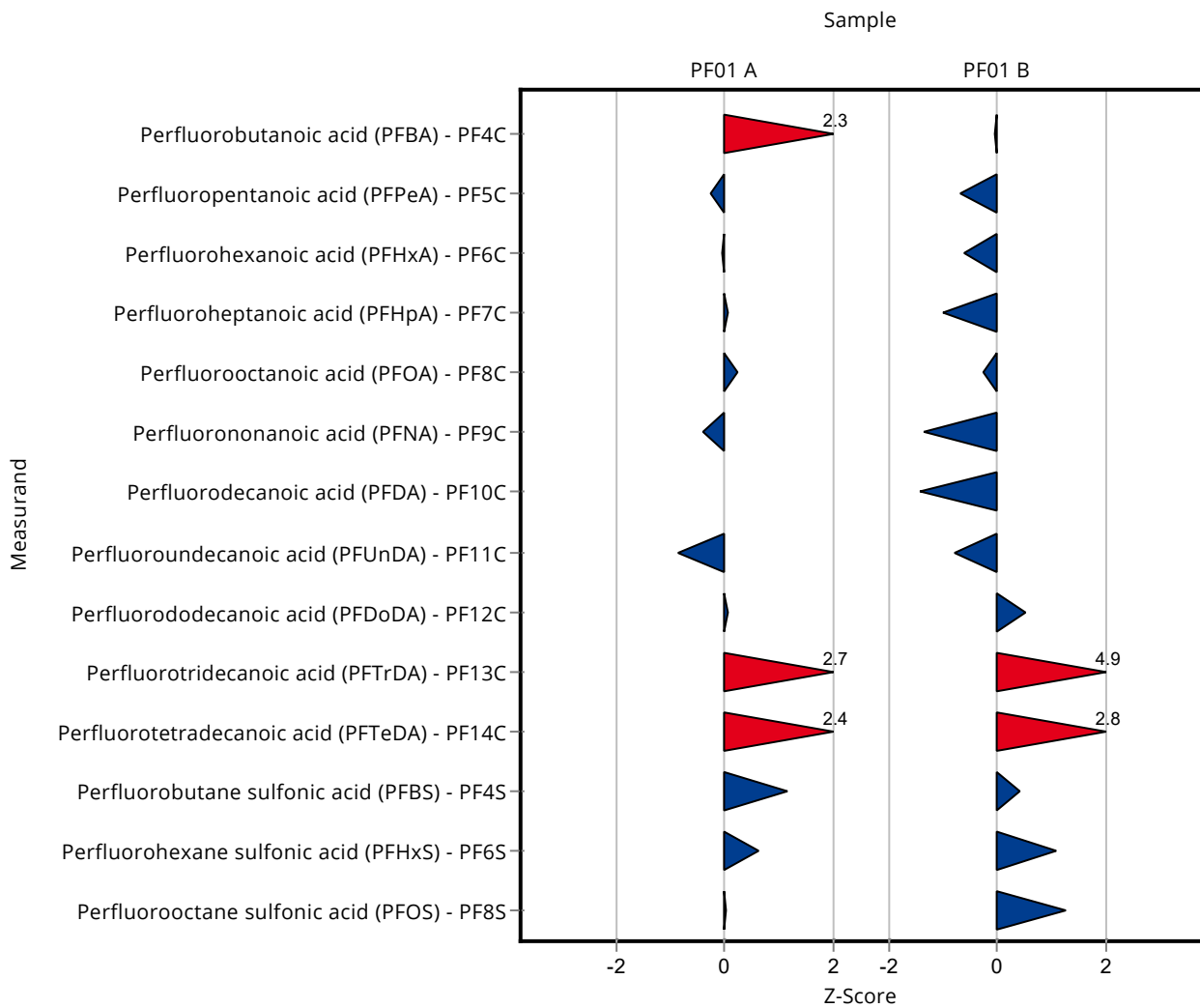
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.102 ± 0.0101	0.0144	99.3	-0.05
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0771 ± 0.0098	0.00828	93.1	-0.69

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.165 ± 0.0247	0.0176	93.9	-0.61
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.033 ± 0.0021	0.00539	85.7	-1.02
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.162 ± 0.0278	0.0236	96.2	-0.27
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1 ± 0.0122	0.0116	86.4	-1.36
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0291 ± 0.003	0.00706	74.1	-1.44
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0444 ± 0.0074	0.0118	82.6	-0.79
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0227 ± 0.0066	0.0054	113	0.50
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0243 ± 0.0092	0.00262	213	4.92
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0294 ± 0.0077	0.00588	230	2.83
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0325 ± 0.0023	0.00602	108	0.40
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	- ± -	0.00819	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0635 ± 0.0078	0.00821	116	1.07
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	- ± -	0.00898	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.145 ± 0.0281	0.0213	123	1.26
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0010

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0207 ± 0.0014	0.00219	133	1.73
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0156 ± 0.0019	0.0021	96.5	-0.14
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.00086	0.00143	99.2	-0.05
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0127 ± 0.0015	0.00177	101	0.02
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0322 ± 0.0036	0.00346	103	0.11
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0112 ± 0.0016	0.00141	95.2	-0.17
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	<0.01 (LOQ) ± -	0.00121	-	-
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0103 ± 0.0016	0.00219	84.5	-0.56
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0128 ± 0.003	0.00241	101	0.02
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0101 ± 0.0046	0.0018	191	0.52
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.0122 ± 0.0062	0.00277	216	0.52
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0286 ± 0.0032	0.00279	113	0.49
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	- ± -	0.00221	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0425 ± 0.0058	0.004	106	0.21
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	- ± -	0.00309	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0444 ± 0.0082	0.00665	100	0.01
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	- ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.102 ± 0.0101	0.0144	99.3	-0.03
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0771 ± 0.0098	0.00828	93.1	-0.29
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.165 ± 0.0247	0.0176	93.9	-0.21
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.033 ± 0.0021	0.00539	85.7	-1.13

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0010

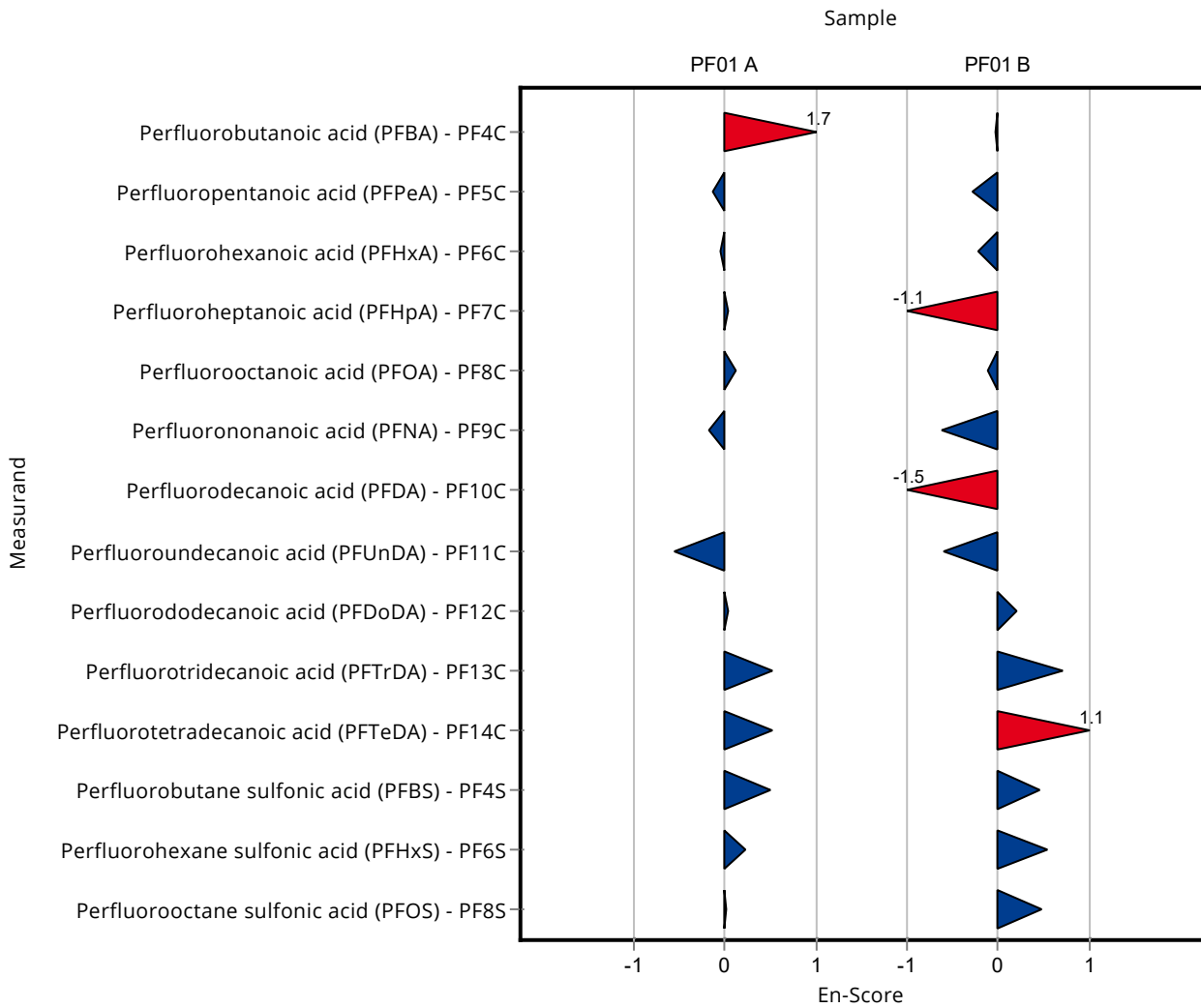
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.162 ± 0.0278	0.0236	96.2	-0.11
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1 ± 0.0122	0.0116	86.4	-0.63
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0291 ± 0.003	0.00706	74.1	-1.49
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0444 ± 0.0074	0.0118	82.6	-0.59
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0227 ± 0.0066	0.0054	113	0.20
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0243 ± 0.0092	0.00262	213	0.70
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0294 ± 0.0077	0.00588	230	1.06
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0325 ± 0.0023	0.00602	108	0.45
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	- ± -	0.00819	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0635 ± 0.0078	0.00821	116	0.55
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	- ± -	0.00898	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.145 ± 0.0281	0.0213	123	0.47
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	- ± -	0.0157	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-





Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	- ± -	0.00219	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0125 ± 0.0031	0.0021	77.3	-1.74
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	- ± -	0.00143	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0119 ± 0.003	0.00177	94.2	-0.41
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0301 ± 0.0075	0.00346	95.8	-0.38
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0112 ± 0.0028	0.00141	95.2	-0.40
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0072 ± 0.0018	0.00121	89.1	-0.73
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0095 ± 0.0024	0.00219	77.9	-1.23
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0079 ± 0.002	0.00241	62.4	-1.98
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.003 ± 0.0008	0.0018	56.8	-1.27
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0219 ± 0.0055	0.00279	86.2	-1.25
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0168 ± 0.0042	0.00221	91.3	-0.72
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0411 ± 0.0103	0.004	103	0.28
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0209 ± 0.0052	0.00309	94.8	-0.37
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0409 ± 0.0102	0.00665	92.3	-0.51

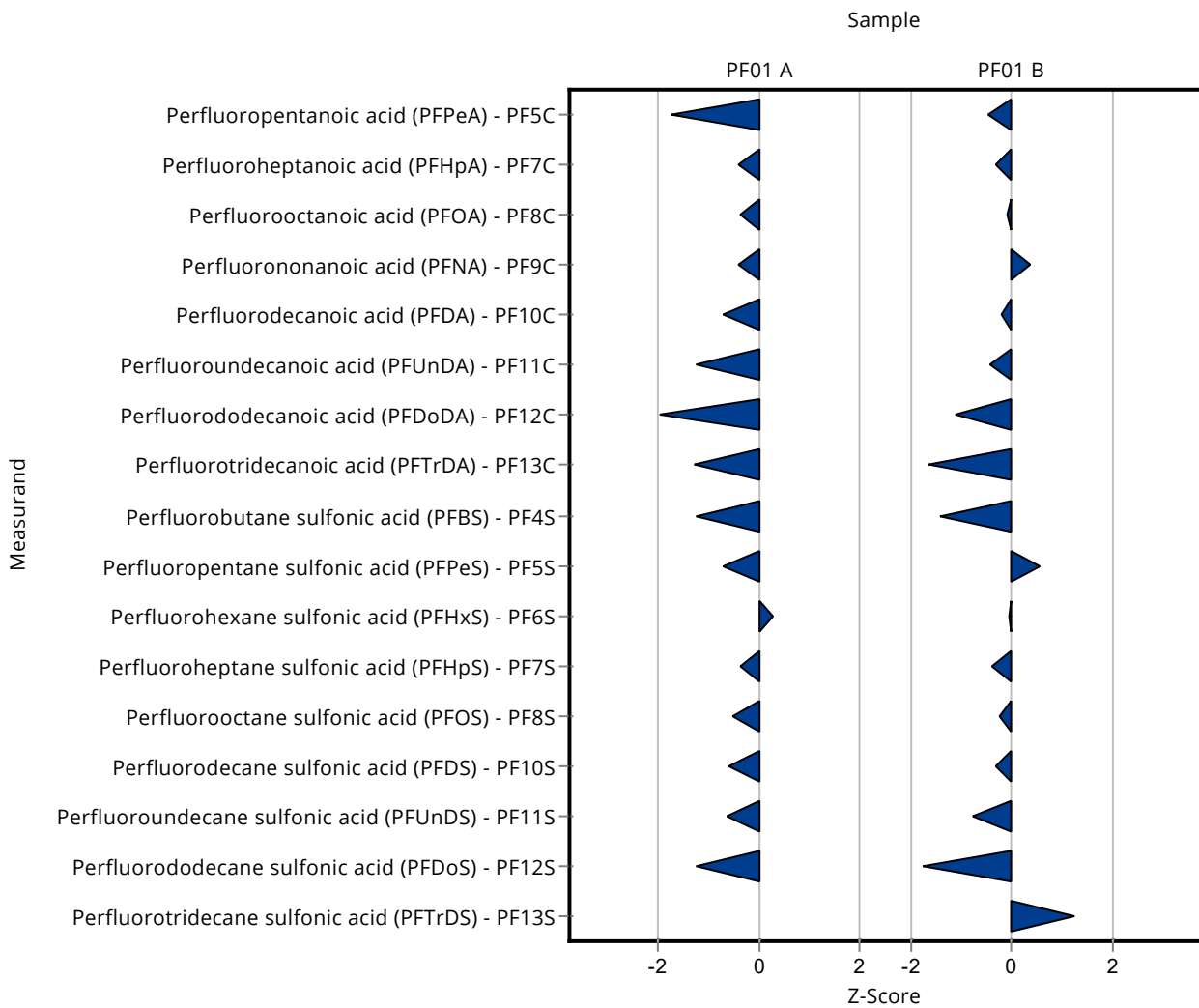
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0172 ± 0.0043	0.0048	86	-0.58
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0137 ± 0.0034	0.00714	74.8	-0.65
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0064 ± 0.0016	0.00618	45.6	-1.24
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0098 ± 0.0025	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	- ± -	0.0144	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.079 ± 0.0198	0.00828	95.4	-0.46

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	- ± -	0.0176	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0368 ± 0.0092	0.00539	95.6	-0.31
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1659 ± 0.0415	0.0236	98.5	-0.11
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.12 ± 0.03	0.0116	104	0.37
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0378 ± 0.0095	0.00706	96.3	-0.20
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0488 ± 0.0122	0.0118	90.8	-0.42
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.014 ± 0.0035	0.0054	69.9	-1.11
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0071 ± 0.0018	0.00262	62.3	-1.64
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0215 ± 0.0054	0.00602	71.4	-1.43
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0789 ± 0.0197	0.00819	106	0.54
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0542 ± 0.0136	0.00821	99	-0.06
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0355 ± 0.0089	0.00898	90.9	-0.39
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1131 ± 0.0283	0.0213	95.7	-0.24
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.051 ± 0.0128	0.0157	90.9	-0.32
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0213 ± 0.0053	0.0095	74	-0.79

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0056 ± 0.0014	0.00307	51	-1.75
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0181 ± 0.0045	0.00499	152	1.24
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0011

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	- ± -	0.00219	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0125 ± 0.0031	0.0021	77.3	-0.58
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	- ± -	0.00143	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0119 ± 0.003	0.00177	94.2	-0.12
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0301 ± 0.0075	0.00346	95.8	-0.09
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0112 ± 0.0028	0.00141	95.2	-0.10
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0072 ± 0.0018	0.00121	89.1	-0.24
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0095 ± 0.0024	0.00219	77.9	-0.55
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0079 ± 0.002	0.00241	62.4	-1.14
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.003 ± 0.0008	0.0018	56.8	-1.31
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0219 ± 0.0055	0.00279	86.2	-0.32
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0168 ± 0.0042	0.00221	91.3	-0.19
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0411 ± 0.0103	0.004	103	0.05
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0209 ± 0.0052	0.00309	94.8	-0.11
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0409 ± 0.0102	0.00665	92.3	-0.17
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0172 ± 0.0043	0.0048	86	-0.31
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0137 ± 0.0034	0.00714	74.8	-0.52
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0064 ± 0.0016	0.00618	45.6	-1.28
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0098 ± 0.0025	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	- ± -	0.0144	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.079 ± 0.0198	0.00828	95.4	-0.10
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	- ± -	0.0176	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0368 ± 0.0092	0.00539	95.6	-0.09



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

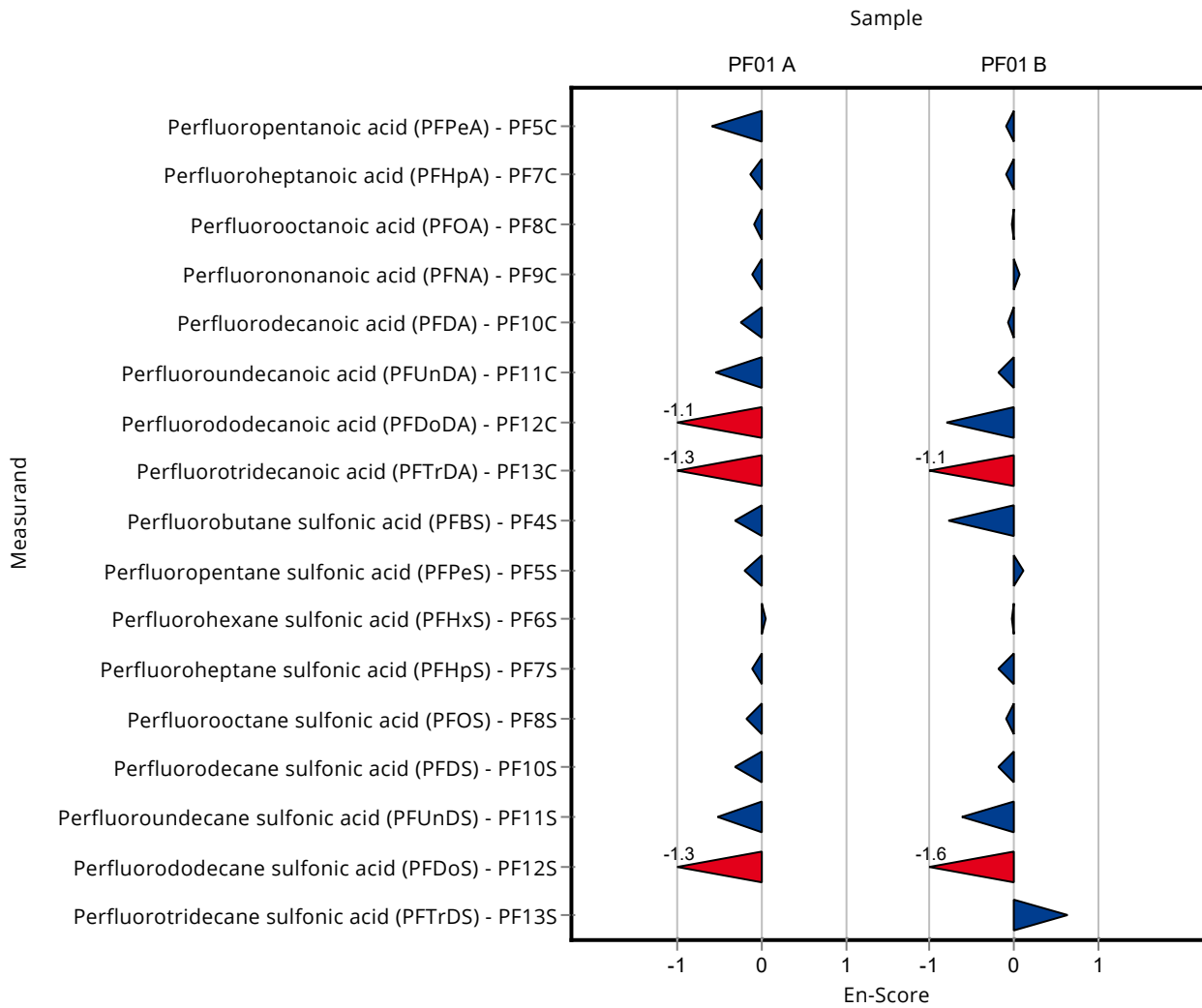
Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1659 ± 0.0415	0.0236	98.5	-0.03
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.12 ± 0.03	0.0116	104	0.07
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0378 ± 0.0095	0.00706	96.3	-0.08
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0488 ± 0.0122	0.0118	90.8	-0.20
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.014 ± 0.0035	0.0054	69.9	-0.81
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0071 ± 0.0018	0.00262	62.3	-1.14
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0215 ± 0.0054	0.00602	71.4	-0.77
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0789 ± 0.0197	0.00819	106	0.11
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0542 ± 0.0136	0.00821	99	-0.02
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0355 ± 0.0089	0.00898	90.9	-0.19
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1131 ± 0.0283	0.0213	95.7	-0.09
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.051 ± 0.0128	0.0157	90.9	-0.19
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0213 ± 0.0053	0.0095	74	-0.63
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0056 ± 0.0014	0.00307	51	-1.55
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0181 ± 0.0045	0.00499	152	0.64
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.01744 ± 0.008021	0.00219	112	0.83
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.01708 ± 0.002733	0.0021	106	0.43
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01159 ± 0.002202	0.00143	106	0.42
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.01355 ± 0.004742	0.00177	107	0.52
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.03164 ± 0.006961	0.00346	101	0.07
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.01239 ± 0.002107	0.00141	105	0.44
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00831 ± 0.00133	0.00121	103	0.19
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.01368 ± 0.00465	0.00219	112	0.68
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0138 ± 0.00621	0.00241	109	0.47
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0051 ± 0.000764	0.0018	96.5	-0.10
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.02378 ± 0.007135	0.00279	93.6	-0.58
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.01978 ± 0.001978	0.00221	108	0.63
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04026 ± 0.011273	0.004	101	0.07
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.02177 ± 0.001959	0.00309	98.8	-0.09
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.04063 ± 0.003657	0.00665	91.7	-0.55

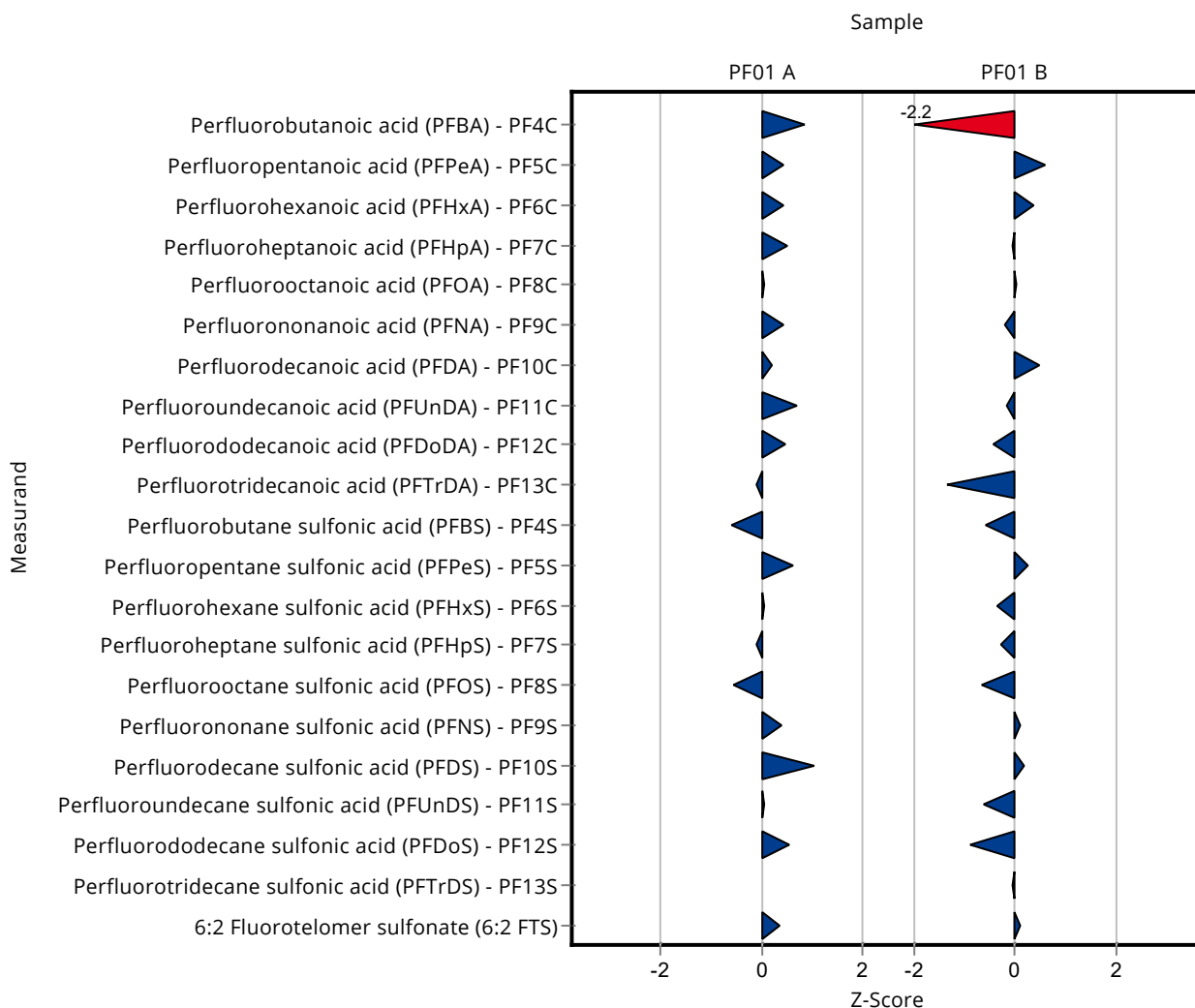
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.01981 ± 0.001981	0.00548	112	0.39
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.025 ± 0.0025	0.0048	125	1.04
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.01857 ± 0.006501	0.00714	101	0.04
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0173 ± 0.002249	0.00618	123	0.53
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0147 ± 0.002058	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.02069 ± 0.013033	0.00276	105	0.34
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.071 ± 0.032658	0.0144	69.1	-2.21
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.08773 ± 0.014036	0.00828	106	0.59

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.18239 ± 0.034654	0.0176	104	0.38
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03833 ± 0.013416	0.00539	99.6	-0.03
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1687 ± 0.037113	0.0236	100	0.01
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.11323 ± 0.01925	0.0116	97.9	-0.21
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.04276 ± 0.006842	0.00706	109	0.50
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.05186 ± 0.017633	0.0118	96.5	-0.16
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0176 ± 0.007921	0.0054	87.9	-0.45
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.00789 ± 0.001184	0.00262	69.2	-1.34
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.02659 ± 0.007978	0.00602	88.3	-0.58
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.07669 ± 0.007669	0.00819	103	0.27
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.05179 ± 0.014501	0.00821	94.6	-0.36
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0365 ± 0.003285	0.00898	93.5	-0.28
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.10413 ± 0.009371	0.0213	88.1	-0.66
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.09321 ± 0.009321	0.0174	102	0.10
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.05868 ± 0.005868	0.0157	105	0.16
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.02292 ± 0.008023	0.0095	79.6	-0.62

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0082 ± 0.001066	0.00307	74.7	-0.90
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.01162 ± 0.001627	0.00499	97.7	-0.05
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.17158 ± 0.108095	0.0187	101	0.09
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0012

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.01744 ± 0.008021	0.00219	112	0.11
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.01708 ± 0.002733	0.0021	106	0.16
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.01159 ± 0.002202	0.00143	106	0.14
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.01355 ± 0.004742	0.00177	107	0.10
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.03164 ± 0.006961	0.00346	101	0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.01239 ± 0.002107	0.00141	105	0.15
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00831 ± 0.00133	0.00121	103	0.08
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.01368 ± 0.00465	0.00219	112	0.16
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0138 ± 0.00621	0.00241	109	0.09
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0051 ± 0.000764	0.0018	96.5	-0.11
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.02378 ± 0.007135	0.00279	93.6	-0.11
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.01978 ± 0.001978	0.00221	108	0.34
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04026 ± 0.011273	0.004	101	0.01
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.02177 ± 0.001959	0.00309	98.8	-0.06
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.04063 ± 0.003657	0.00665	91.7	-0.46
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.01981 ± 0.001981	0.00548	112	0.43

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.025 ± 0.0025	0.0048	125	0.90
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.01857 ± 0.006501	0.00714	101	0.02
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0173 ± 0.002249	0.00618	123	0.48
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0147 ± 0.002058	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.02069 ± 0.013033	0.00276	105	0.04
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.071 ± 0.032658	0.0144	69.1	-0.48
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.08773 ± 0.014036	0.00828	106	0.17
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.18239 ± 0.034654	0.0176	104	0.10
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.03833 ± 0.013416	0.00539	99.6	-0.01

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

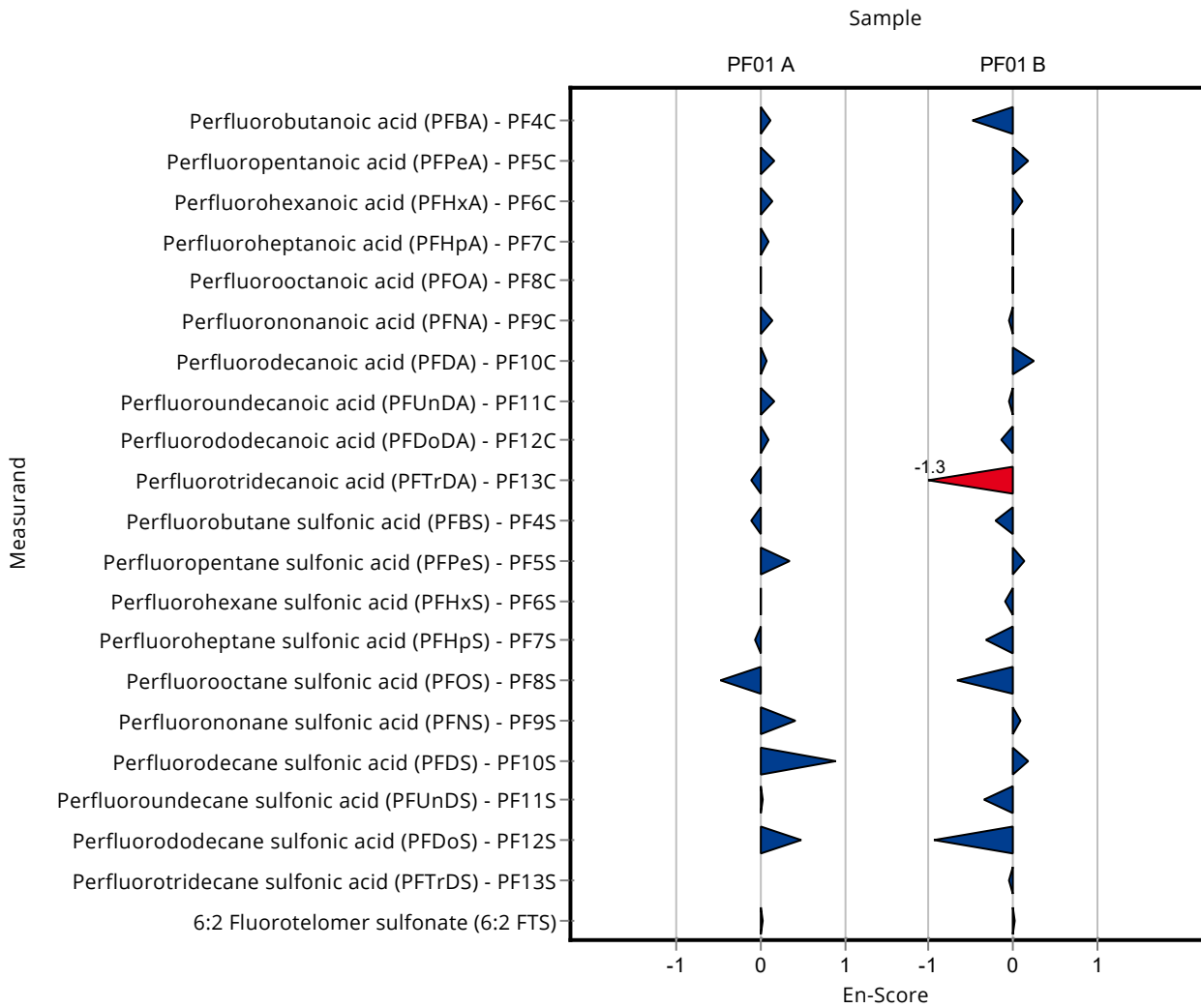
Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1687 ± 0.037113	0.0236	100	0.00
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.11323 ± 0.01925	0.0116	97.9	-0.06
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.04276 ± 0.006842	0.00706	109	0.25
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.05186 ± 0.017633	0.0118	96.5	-0.05
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0176 ± 0.007921	0.0054	87.9	-0.15
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.00789 ± 0.001184	0.00262	69.2	-1.33
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.02659 ± 0.007978	0.00602	88.3	-0.22
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.07669 ± 0.007669	0.00819	103	0.14
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.05179 ± 0.014501	0.00821	94.6	-0.10
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0365 ± 0.003285	0.00898	93.5	-0.33
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.10413 ± 0.009371	0.0213	88.1	-0.67
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.09321 ± 0.009321	0.0174	102	0.08
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.05868 ± 0.005868	0.0157	105	0.18
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.02292 ± 0.008023	0.0095	79.6	-0.35
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0082 ± 0.001066	0.00307	74.7	-0.94
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.01162 ± 0.001627	0.00499	97.7	-0.05
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.17158 ± 0.108095	0.0187	101	0.01
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.016 ± 0.005	0.00219	102	0.17
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.018 ± 0.005	0.0021	111	0.87
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.012 ± 0.004	0.00143	109	0.71
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.014 ± 0.004	0.00177	111	0.77
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.034 ± 0.01	0.00346	108	0.75
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.013 ± 0.004	0.00141	110	0.87
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.009 ± 0.003	0.00121	111	0.76
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.017 ± 0.005	0.00219	139	2.19
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.027 ± 0.008	0.00241	213	5.96
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.011 ± 0.003	0.0018	208	3.18
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.029 ± 0.009	0.00279	114	1.29
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.019 ± 0.006	0.00221	103	0.28
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.045 ± 0.014	0.004	113	1.25
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.027 ± 0.008	0.00309	123	1.61
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.053 ± 0.016	0.00665	120	1.31

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.028 ± 0.008	0.00548	158	1.88
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.042 ± 0.013	0.0048	210	4.58
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.039 ± 0.012	0.00714	213	2.90
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.04 ± 0.012	0.00618	285	4.20
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.042 ± 0.013	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.023 ± 0.007	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.023 ± 0.007	0.00323	114	0.87
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.022 ± 0.007	0.00276	111	0.82
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.058 ± 0.017	0.00835	167	2.78
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.031 ± 0.009	0.00357	104	0.34
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.046 ± 0.014	0.00646	107	0.45
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.02 ± 0.006	0.00223	117	1.27

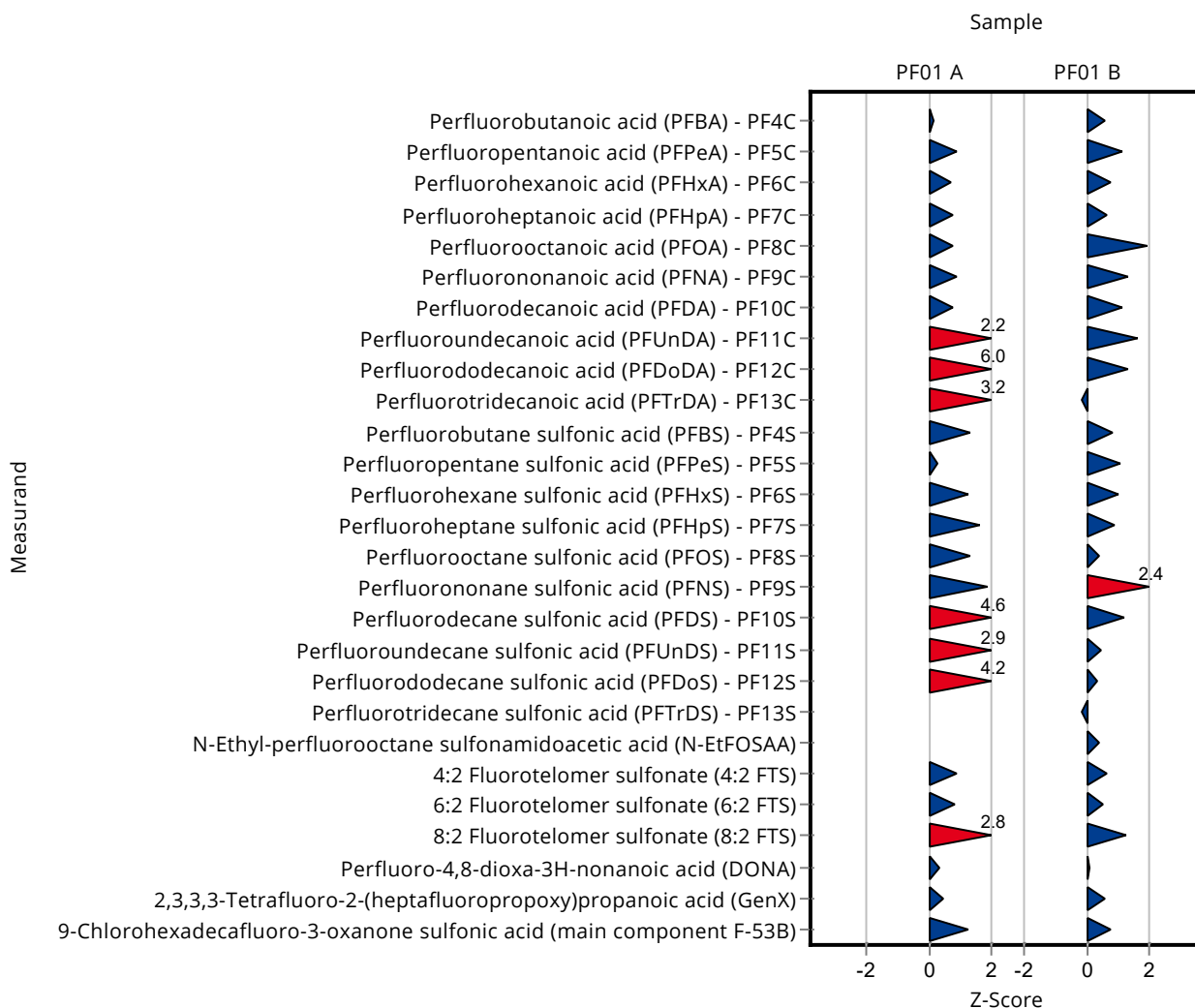
Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.111 ± 0.033	0.0144	108	0.58
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.092 ± 0.028	0.00828	111	1.11

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.189 ± 0.057	0.0176	108	0.76
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.042 ± 0.013	0.00539	109	0.65
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.213 ± 0.064	0.0236	126	1.89
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.131 ± 0.041	0.0116	113	1.32
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.047 ± 0.014	0.00706	120	1.10
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.073 ± 0.022	0.0118	136	1.63
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.027 ± 0.008	0.0054	135	1.29
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.011 ± 0.003	0.00262	96.5	-0.15
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.011	0.00602	116	0.81
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.083 ± 0.025	0.00819	111	1.04
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.063 ± 0.019	0.00821	115	1.01
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.047 ± 0.014	0.00898	120	0.89
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.127 ± 0.038	0.0213	107	0.41
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.134 ± 0.04	0.0174	146	2.44
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.075 ± 0.023	0.0157	134	1.20
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.033 ± 0.001	0.0095	115	0.44



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.012 ± 0.004	0.00307	109	0.33
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.011 ± 0.003	0.00499	92.5	-0.18
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.063 ± 0.019	0.00777	105	0.42
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.093 ± 0.028	0.0135	110	0.62
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.179 ± 0.054	0.0187	105	0.49
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.146 ± 0.044	0.0261	129	1.25
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.118 ± 0.035	0.0275	103	0.12
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.239 ± 0.072	0.0226	106	0.59
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.163 ± 0.049	0.0207	110	0.74



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0013

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.016 ± 0.005	0.00219	102	0.04
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.018 ± 0.005	0.0021	111	0.18
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.012 ± 0.004	0.00143	109	0.13
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.014 ± 0.004	0.00177	111	0.17
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.034 ± 0.01	0.00346	108	0.13
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.013 ± 0.004	0.00141	110	0.15
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.009 ± 0.003	0.00121	111	0.15
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.017 ± 0.005	0.00219	139	0.48
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.027 ± 0.008	0.00241	213	0.89
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.011 ± 0.003	0.0018	208	0.95
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.029 ± 0.009	0.00279	114	0.20
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.019 ± 0.006	0.00221	103	0.05
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.045 ± 0.014	0.004	113	0.18
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.027 ± 0.008	0.00309	123	0.31
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.053 ± 0.016	0.00665	120	0.27
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.028 ± 0.008	0.00548	158	0.63

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.042 ± 0.013	0.0048	210	0.84
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.039 ± 0.012	0.00714	213	0.84
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.04 ± 0.012	0.00618	285	1.06
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.042 ± 0.013	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.023 ± 0.007	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.023 ± 0.007	0.00323	114	0.20
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.022 ± 0.007	0.00276	111	0.16
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.058 ± 0.017	0.00835	167	0.67
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.031 ± 0.009	0.00357	104	0.07
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.046 ± 0.014	0.00646	107	0.10
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.02 ± 0.006	0.00223	117	0.23

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.111 ± 0.033	0.0144	108	0.12
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.092 ± 0.028	0.00828	111	0.16
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.189 ± 0.057	0.0176	108	0.12
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.042 ± 0.013	0.00539	109	0.13

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

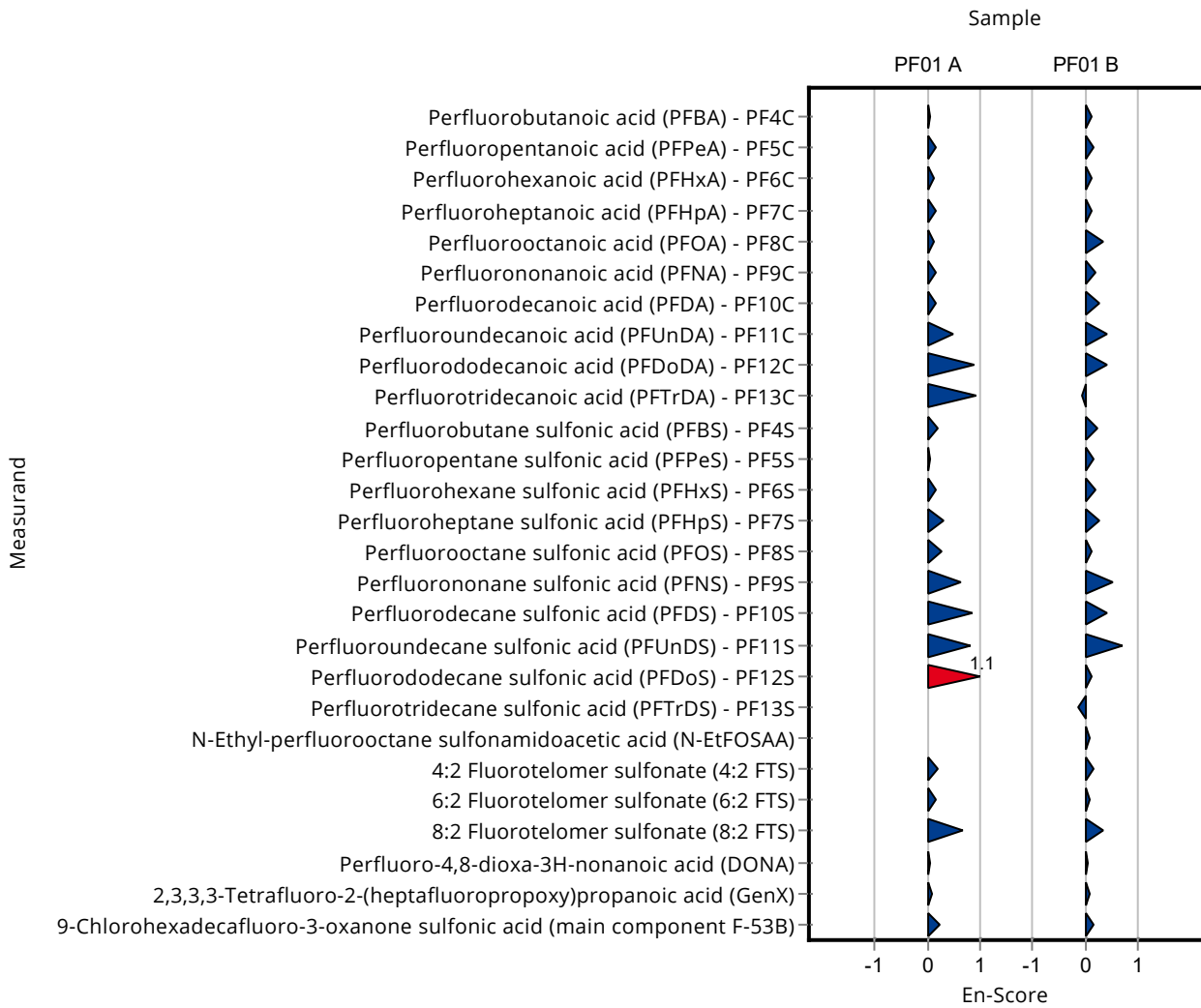
Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.213 ± 0.064	0.0236	126	0.35
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.131 ± 0.041	0.0116	113	0.19
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.047 ± 0.014	0.00706	120	0.28
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.073 ± 0.022	0.0118	136	0.43
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.027 ± 0.008	0.0054	135	0.43
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.011 ± 0.003	0.00262	96.5	-0.07
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.035 ± 0.011	0.00602	116	0.22
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.083 ± 0.025	0.00819	111	0.17
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.063 ± 0.019	0.00821	115	0.22
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.047 ± 0.014	0.00898	120	0.28
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.127 ± 0.038	0.0213	107	0.11
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.134 ± 0.04	0.0174	146	0.53
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.075 ± 0.023	0.0157	134	0.41
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.033 ± 0.001	0.0095	115	0.72
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.012 ± 0.004	0.00307	109	0.12
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.011 ± 0.003	0.00499	92.5	-0.13
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.063 ± 0.019	0.00777	105	0.08

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.093 ± 0.028	0.0135	110	0.15
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.179 ± 0.054	0.0187	105	0.08
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.146 ± 0.044	0.0261	129	0.36
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.118 ± 0.035	0.0275	103	0.04
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.239 ± 0.072	0.0226	106	0.09
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.163 ± 0.049	0.0207	110	0.15



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0148 ± 0.00445	0.00219	94.7	-0.38
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.00479	0.0021	99	-0.08
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.00327	0.00143	99.2	-0.06
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0142 ± 0.00427	0.00177	112	0.89
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0302 ± 0.00905	0.00346	96.1	-0.35
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0104 ± 0.00311	0.00141	88.4	-0.97
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00835 ± 0.00251	0.00121	103	0.22
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.013 ± 0.00391	0.00219	107	0.37
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0165 ± 0.00494	0.00241	130	1.60
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0053 ± 0.00159	0.0018	100	0.01
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0254 ± 0.00763	0.00279	100	0.00
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0204 ± 0.00612	0.00221	111	0.91
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0421 ± 0.0126	0.004	105	0.53
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0261 ± 0.00783	0.00309	118	1.32
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0454 ± 0.0136	0.00665	102	0.16



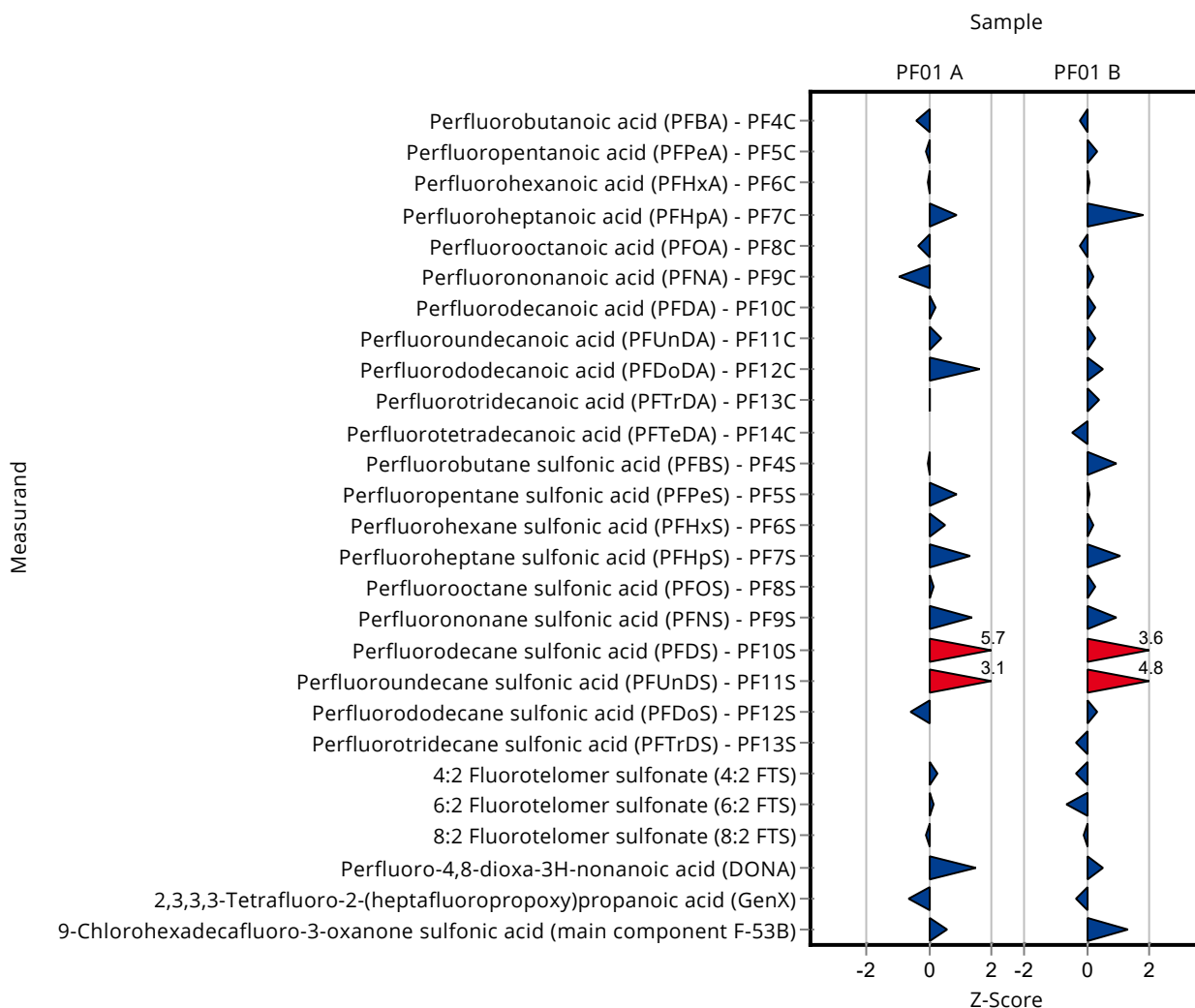
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0252 ± 0.00756	0.00548	142	1.37
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0475 ± 0.0143	0.0048	238	5.73
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0405 ± 0.0121	0.00714	221	3.11
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0106 ± 0.00317	0.00618	75.4	-0.56
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.005 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0211 ± 0.00634	0.00323	105	0.28
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0202 ± 0.00605	0.00276	102	0.16
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0339 ± 0.0102	0.00835	97.4	-0.11
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0352 ± 0.0106	0.00357	118	1.52
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0391 ± 0.0117	0.00646	90.7	-0.62
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0185 ± 0.00554	0.00223	108	0.60

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0994 ± 0.0298	0.0144	96.8	-0.23
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0858 ± 0.0257	0.00828	104	0.36

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.177 ± 0.053	0.0176	101	0.08
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0481 ± 0.0144	0.00539	125	1.78
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.163 ± 0.049	0.0236	96.8	-0.23
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.118 ± 0.0353	0.0116	102	0.20
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.041 ± 0.0123	0.00706	104	0.25
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0573 ± 0.0172	0.0118	107	0.30
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0229 ± 0.00686	0.0054	114	0.53
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0125 ± 0.00375	0.00262	110	0.42
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.01 ± 0.003	0.00588	78.2	-0.47
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0357 ± 0.0107	0.00602	119	0.93
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.075 ± 0.0225	0.00819	101	0.06
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0563 ± 0.0169	0.00821	103	0.19
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0486 ± 0.0146	0.00898	124	1.06
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.124 ± 0.0373	0.0213	105	0.27
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.108 ± 0.0325	0.0174	118	0.95
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.112 ± 0.0335	0.0157	200	3.56
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0743 ± 0.0223	0.0095	258	4.79

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.012 ± 0.00361	0.00307	109	0.33
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0103 ± 0.00308	0.00499	86.6	-0.32
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0799 ± 0.024	0.0135	94.4	-0.35
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.158 ± 0.0473	0.0187	93	-0.63
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.111 ± 0.0334	0.0261	98	-0.09
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.129 ± 0.0388	0.0275	112	0.52
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.226 ± 0.00994	0.218 ± 0.0654	0.0226	96.6	-0.34
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.175 ± 0.0525	0.0207	119	1.32



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0014

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0148 ± 0.00445	0.00219	94.7	-0.09
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.00479	0.0021	99	-0.02
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0109 ± 0.00327	0.00143	99.2	-0.01
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0142 ± 0.00427	0.00177	112	0.18
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0302 ± 0.00905	0.00346	96.1	-0.07
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0104 ± 0.00311	0.00141	88.4	-0.22
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00835 ± 0.00251	0.00121	103	0.05
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.013 ± 0.00391	0.00219	107	0.10
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0165 ± 0.00494	0.00241	130	0.39
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0053 ± 0.00159	0.0018	100	0.01
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0254 ± 0.00763	0.00279	100	0.00
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0204 ± 0.00612	0.00221	111	0.16
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0421 ± 0.0126	0.004	105	0.08
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0261 ± 0.00783	0.00309	118	0.26
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0454 ± 0.0136	0.00665	102	0.04
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0252 ± 0.00756	0.00548	142	0.49

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0475 ± 0.0143	0.0048	238	0.96
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0405 ± 0.0121	0.00714	221	0.89
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0106 ± 0.00317	0.00618	75.4	-0.43
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.005 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0211 ± 0.00634	0.00323	105	0.07
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0202 ± 0.00605	0.00276	102	0.04
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0339 ± 0.0102	0.00835	97.4	-0.04
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0352 ± 0.0106	0.00357	118	0.25
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0391 ± 0.0117	0.00646	90.7	-0.17
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0185 ± 0.00554	0.00223	108	0.12

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0994 ± 0.0298	0.0144	96.8	-0.06
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0858 ± 0.0257	0.00828	104	0.06
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.177 ± 0.053	0.0176	101	0.01
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0481 ± 0.0144	0.00539	125	0.33

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0014

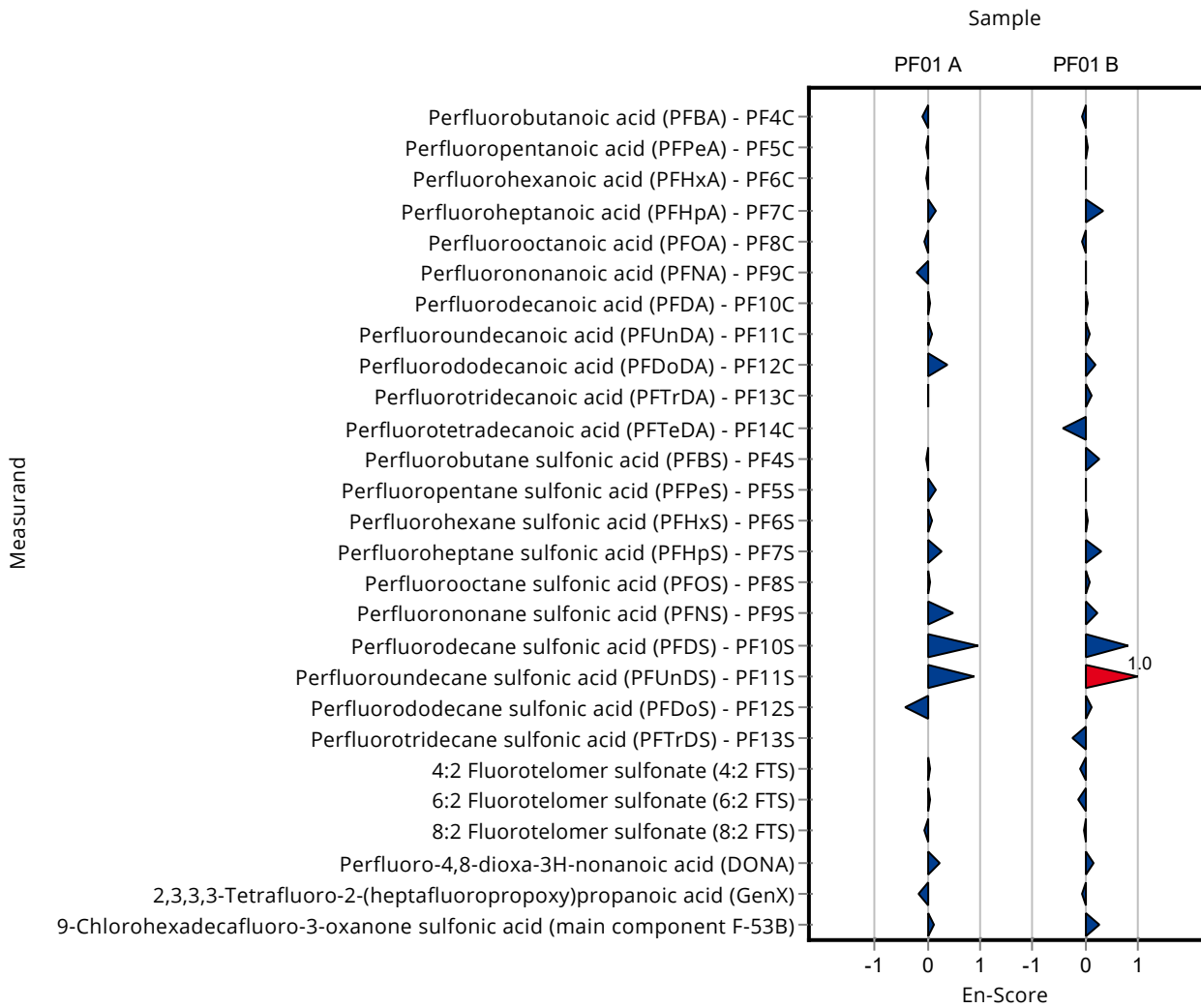
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.163 ± 0.049	0.0236	96.8	-0.05
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.118 ± 0.0353	0.0116	102	0.03
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.041 ± 0.0123	0.00706	104	0.07
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0573 ± 0.0172	0.0118	107	0.10
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0229 ± 0.00686	0.0054	114	0.21
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0125 ± 0.00375	0.00262	110	0.15
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.01 ± 0.003	0.00588	78.2	-0.42
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0357 ± 0.0107	0.00602	119	0.26
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.075 ± 0.0225	0.00819	101	0.01
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0563 ± 0.0169	0.00821	103	0.05
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0486 ± 0.0146	0.00898	124	0.32
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.124 ± 0.0373	0.0213	105	0.08
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.108 ± 0.0325	0.0174	118	0.25
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.112 ± 0.0335	0.0157	200	0.83
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0743 ± 0.0223	0.0095	258	1.01
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.012 ± 0.00361	0.00307	109	0.14
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0103 ± 0.00308	0.00499	86.6	-0.22
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0799 ± 0.024	0.0135	94.4	-0.10
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.158 ± 0.0473	0.0187	93	-0.12
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.111 ± 0.0334	0.0261	98	-0.03
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.129 ± 0.0388	0.0275	112	0.18
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.218 ± 0.0654	0.0226	96.6	-0.06
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.175 ± 0.0525	0.0207	119	0.26





Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0137 ± 0.0055	0.00219	87.7	-0.88
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0143 ± 0.0057	0.0021	88.4	-0.89
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00958 ± 0.0038	0.00143	87.2	-0.98
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0104 ± 0.0042	0.00177	82.3	-1.26
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0275 ± 0.011	0.00346	87.5	-1.13
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.00972 ± 0.0039	0.00141	82.6	-1.45
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00681 ± 0.0027	0.00121	84.3	-1.05
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.00979 ± 0.0039	0.00219	80.3	-1.09
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0114 ± 0.0046	0.00241	90	-0.52
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.0012 ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00588 ± 0.0024	0.00277	104	0.08
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0254 ± 0.0102	0.00279	100	0.00
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0169 ± 0.0068	0.00221	91.9	-0.68
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0375 ± 0.015	0.004	93.8	-0.62
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0207 ± 0.0083	0.00309	93.9	-0.43
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0391 ± 0.0156	0.00665	88.2	-0.78

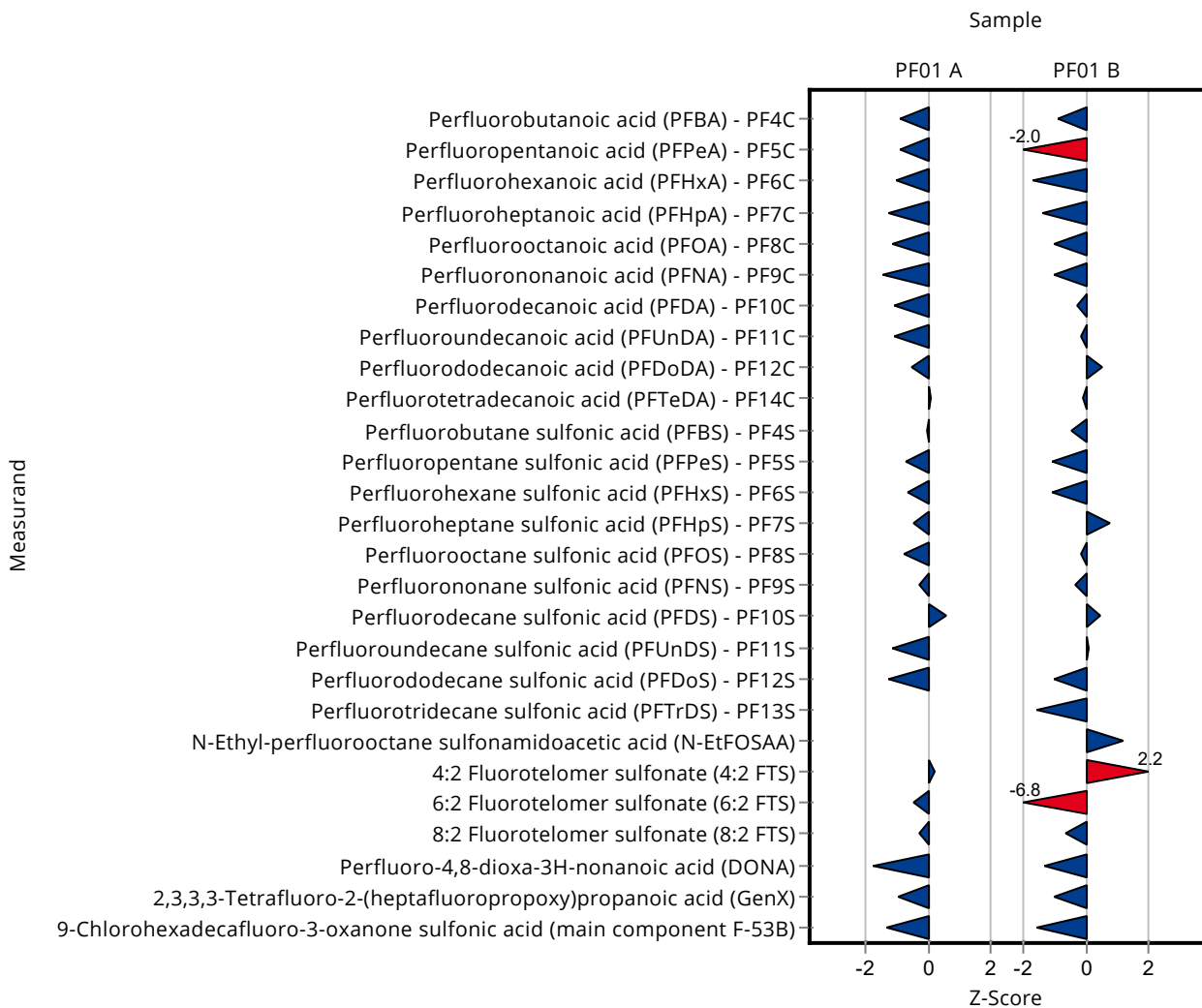
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0162 ± 0.0065	0.00548	91.6	-0.27
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0227 ± 0.0091	0.0048	114	0.56
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0101 ± 0.004	0.00714	55.2	-1.15
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00614 ± 0.0024	0.00618	43.7	-1.28
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00558 ± 0.0022	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0147 ± 0.0059	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0208 ± 0.0083	0.00323	103	0.19
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0184 ± 0.0074	0.00276	93.2	-0.49
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0324 ± 0.013	0.00835	93.1	-0.29
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0235 ± 0.0094	0.00357	78.9	-1.76
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	0.0371 ± 0.0148	0.00646	86.1	-0.93
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0143 ± 0.0057	0.00223	83.3	-1.28

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.09 ± 0.036	0.0144	87.6	-0.88
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0659 ± 0.0264	0.00828	79.6	-2.04

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.146 ± 0.0584	0.0176	83.1	-1.69
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0312 ± 0.0125	0.00539	81.1	-1.35
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.144 ± 0.0576	0.0236	85.5	-1.03
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.104 ± 0.0416	0.0116	89.9	-1.01
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0375 ± 0.015	0.00706	95.6	-0.25
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0519 ± 0.0208	0.0118	96.5	-0.16
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0227 ± 0.0091	0.0054	113	0.50
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.0012 ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0122 ± 0.0049	0.00588	95.5	-0.10
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0274 ± 0.011	0.00602	91	-0.45
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0658 ± 0.0263	0.00819	88.4	-1.06
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0458 ± 0.0183	0.00821	83.7	-1.09
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0459 ± 0.0184	0.00898	118	0.76
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1146 ± 0.0458	0.0213	96.9	-0.17
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.086 ± 0.0344	0.0174	94	-0.32
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0636 ± 0.0254	0.0157	113	0.48
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0294 ± 0.0118	0.0095	102	0.06

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00788 ± 0.0032	0.00307	71.8	-1.01
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00422 ± 0.0017	0.00499	35.5	-1.54
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0688 ± 0.0275	0.00777	115	1.17
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.1145 ± 0.0458	0.0135	135	2.20
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.0432 ± 0.0173	0.0187	25.4	-6.78
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0964 ± 0.0386	0.0261	85.1	-0.65
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.0781 ± 0.0312	0.0275	68	-1.33
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.2033 ± 0.0813	0.0226	90	-1.00
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1151 ± 0.046	0.0207	77.9	-1.58



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0015

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0137 ± 0.0055	0.00219	87.7	-0.17
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0143 ± 0.0057	0.0021	88.4	-0.16
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00958 ± 0.0038	0.00143	87.2	-0.18
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0104 ± 0.0042	0.00177	82.3	-0.26
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0275 ± 0.011	0.00346	87.5	-0.18
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.00972 ± 0.0039	0.00141	82.6	-0.26
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00681 ± 0.0027	0.00121	84.3	-0.23
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.00979 ± 0.0039	0.00219	80.3	-0.31
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0114 ± 0.0046	0.00241	90	-0.14
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.0012 ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00588 ± 0.0024	0.00277	104	0.04
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0254 ± 0.0102	0.00279	100	0.00
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0169 ± 0.0068	0.00221	91.9	-0.11
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0375 ± 0.015	0.004	93.8	-0.08
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0207 ± 0.0083	0.00309	93.9	-0.08
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0391 ± 0.0156	0.00665	88.2	-0.17
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0162 ± 0.0065	0.00548	91.6	-0.11

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0227 ± 0.0091	0.0048	114	0.15
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0101 ± 0.004	0.00714	55.2	-0.84
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00614 ± 0.0024	0.00618	43.7	-1.14
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00558 ± 0.0022	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0147 ± 0.0059	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0208 ± 0.0083	0.00323	103	0.04
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0184 ± 0.0074	0.00276	93.2	-0.09
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0324 ± 0.013	0.00835	93.1	-0.09
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0235 ± 0.0094	0.00357	78.9	-0.33
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0371 ± 0.0148	0.00646	86.1	-0.20
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	0.0143 ± 0.0057	0.00223	83.3	-0.25

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.09 ± 0.036	0.0144	87.6	-0.18
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0659 ± 0.0264	0.00828	79.6	-0.32
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.146 ± 0.0584	0.0176	83.1	-0.25
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0312 ± 0.0125	0.00539	81.1	-0.29



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

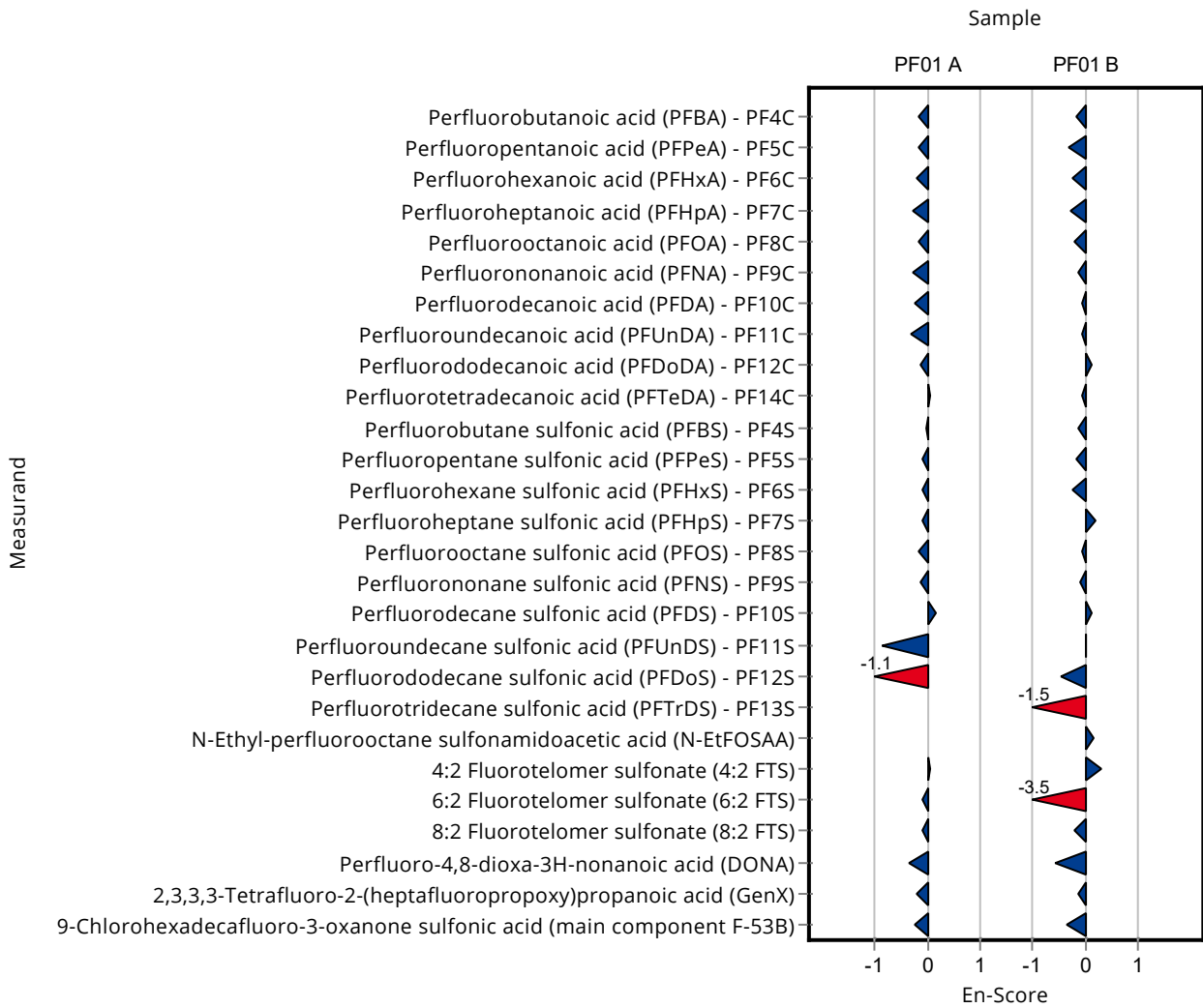
Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.144 ± 0.0576	0.0236	85.5	-0.21
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.104 ± 0.0416	0.0116	89.9	-0.14
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0375 ± 0.015	0.00706	95.6	-0.06
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0519 ± 0.0208	0.0118	96.5	-0.04
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0227 ± 0.0091	0.0054	113	0.15
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.0012 ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0122 ± 0.0049	0.00588	95.5	-0.06
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0274 ± 0.011	0.00602	91	-0.12
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0658 ± 0.0263	0.00819	88.4	-0.16
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0458 ± 0.0183	0.00821	83.7	-0.24
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0459 ± 0.0184	0.00898	118	0.19
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1146 ± 0.0458	0.0213	96.9	-0.04
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.086 ± 0.0344	0.0174	94	-0.08
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0636 ± 0.0254	0.0157	113	0.15
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0294 ± 0.0118	0.0095	102	0.03
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00788 ± 0.0032	0.00307	71.8	-0.46
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00422 ± 0.0017	0.00499	35.5	-1.51
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0688 ± 0.0275	0.00777	115	0.16

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.1145 ± 0.0458	0.0135	135	0.32
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.0432 ± 0.0173	0.0187	25.4	-3.48
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0964 ± 0.0386	0.0261	85.1	-0.21
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.0781 ± 0.0312	0.0275	68	-0.56
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.2033 ± 0.0813	0.0226	90	-0.14
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	0.1151 ± 0.046	0.0207	77.9	-0.35



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0208 ± 0.003	0.00219	133	2.37
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0195 ± 0.002	0.0021	121	1.59
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0141 ± 0.002	0.00143	128	2.18
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.00943 ± 0.001	0.00177	74.7	-1.81
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0419 ± 0.006	0.00346	133	3.04
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0129 ± 0.002	0.00141	110	0.80
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00904 ± 0.001	0.00121	112	0.79
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0102 ± 0.002	0.00219	83.7	-0.91
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0111 ± 0.002	0.00241	87.7	-0.65
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00429 ± 0.001	0.0018	81.2	-0.55
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00224 ± 0.0006	0.00277	39.6	-1.23
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0354 ± 0.005	0.00279	139	3.58
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.023 ± 0.003	0.00221	125	2.09
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0551 ± 0.008	0.004	138	3.78
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0336 ± 0.005	0.00309	152	3.75
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0482 ± 0.007	0.00665	109	0.59

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0016

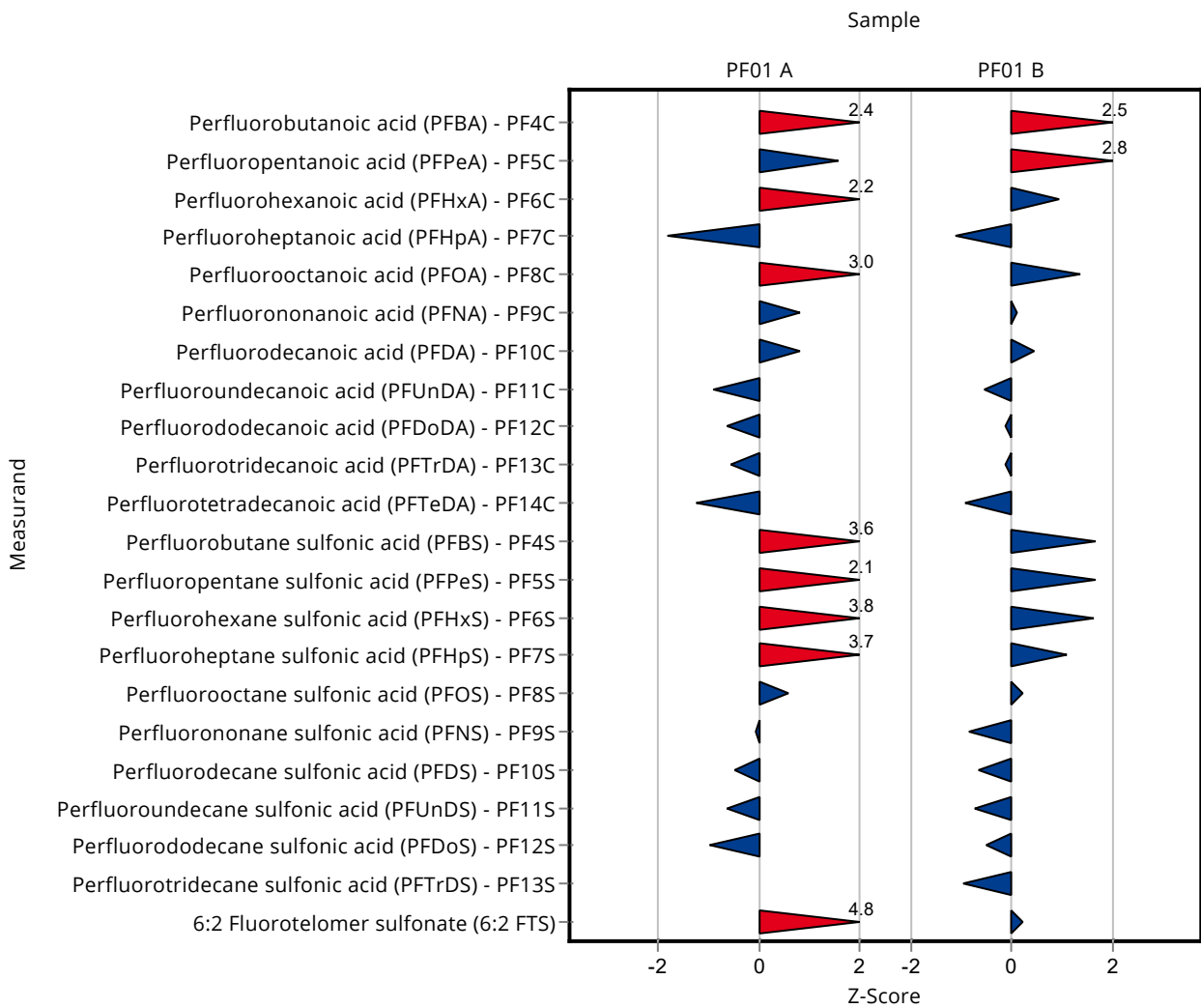
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0173 ± 0.003	0.00548	97.8	-0.07
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0177 ± 0.003	0.0048	88.5	-0.48
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0139 ± 0.002	0.00714	75.9	-0.62
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00796 ± 0.001	0.00618	56.7	-0.99
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00521 ± 0.0008	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0331 ± 0.005	0.00276	168	4.83
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.139 ± 0.021	0.0144	135	2.52
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.106 ± 0.016	0.00828	128	2.80

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.192 ± 0.029	0.0176	109	0.93
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0324 ± 0.005	0.00539	84.2	-1.13
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.2 ± 0.03	0.0236	119	1.34
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.117 ± 0.018	0.0116	101	0.11
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0425 ± 0.006	0.00706	108	0.46
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0472 ± 0.007	0.0118	87.8	-0.55
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0193 ± 0.003	0.0054	96.4	-0.13
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0111 ± 0.002	0.00262	97.4	-0.11
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.00738 ± 0.001	0.00588	57.7	-0.92
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.04 ± 0.006	0.00602	133	1.64
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0882 ± 0.013	0.00819	118	1.68
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0682 ± 0.01	0.00821	125	1.64
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0487 ± 0.007	0.00898	125	1.08
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.123 ± 0.018	0.0213	104	0.22
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.077 ± 0.012	0.0174	84.1	-0.83
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0458 ± 0.007	0.0157	81.7	-0.66
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0219 ± 0.003	0.0095	76.1	-0.72

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00945 ± 0.001	0.00307	86.1	-0.50
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00709 ± 0.001	0.00499	59.6	-0.96
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.174 ± 0.026	0.0187	102	0.22
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0016

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0208 ± 0.003	0.00219	133	0.85
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0195 ± 0.002	0.0021	121	0.81
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0141 ± 0.002	0.00143	128	0.77
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.00943 ± 0.001	0.00177	74.7	-1.44
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0419 ± 0.006	0.00346	133	0.87
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0129 ± 0.002	0.00141	110	0.28
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00904 ± 0.001	0.00121	112	0.46
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0102 ± 0.002	0.00219	83.7	-0.48
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0111 ± 0.002	0.00241	87.7	-0.37
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00429 ± 0.001	0.0018	81.2	-0.47
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.00224 ± 0.0006	0.00277	39.6	-1.57
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0354 ± 0.005	0.00279	139	0.99
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.023 ± 0.003	0.00221	125	0.76
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0551 ± 0.008	0.004	138	0.94
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0336 ± 0.005	0.00309	152	1.14
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0482 ± 0.007	0.00665	109	0.27
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0173 ± 0.003	0.00548	97.8	-0.06

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0177 ± 0.003	0.0048	88.5	-0.35
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0139 ± 0.002	0.00714	75.9	-0.64
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.00796 ± 0.001	0.00618	56.7	-1.12
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.00521 ± 0.0008	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0331 ± 0.005	0.00276	168	1.32
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.139 ± 0.021	0.0144	135	0.85
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.106 ± 0.016	0.00828	128	0.72
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.192 ± 0.029	0.0176	109	0.28
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0324 ± 0.005	0.00539	84.2	-0.59

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

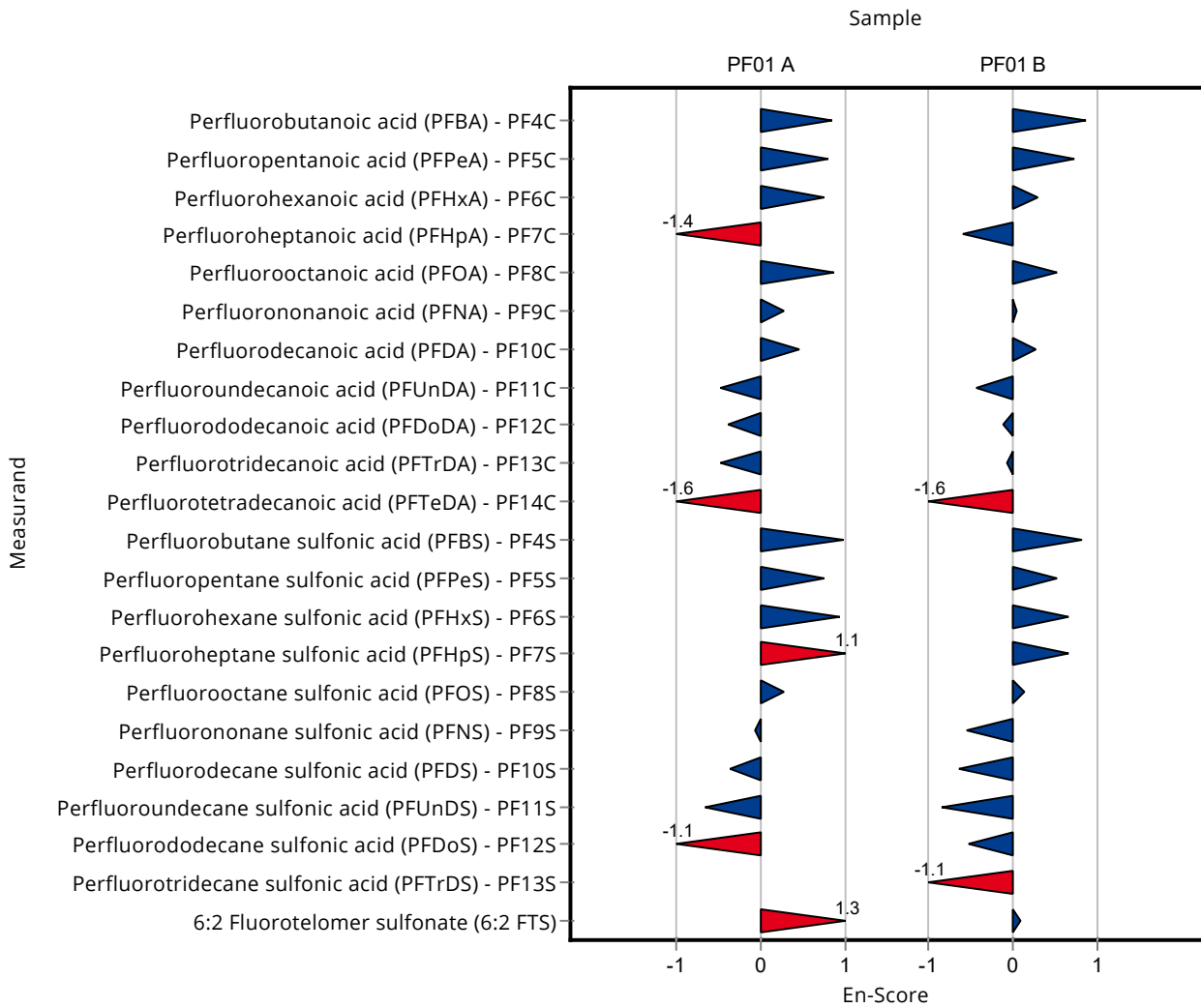
Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.2 ± 0.03	0.0236	119	0.52
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.117 ± 0.018	0.0116	101	0.04
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0425 ± 0.006	0.00706	108	0.26
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0472 ± 0.007	0.0118	87.8	-0.44
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0193 ± 0.003	0.0054	96.4	-0.11
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0111 ± 0.002	0.00262	97.4	-0.07
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.00738 ± 0.001	0.00588	57.7	-1.58
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.04 ± 0.006	0.00602	133	0.81
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0882 ± 0.013	0.00819	118	0.52
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0682 ± 0.01	0.00821	125	0.66
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0487 ± 0.007	0.00898	125	0.66
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.123 ± 0.018	0.0213	104	0.13
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.077 ± 0.012	0.0174	84.1	-0.56
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0458 ± 0.007	0.0157	81.7	-0.65
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0219 ± 0.003	0.0095	76.1	-0.85
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.00945 ± 0.001	0.00307	86.1	-0.54
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.00709 ± 0.001	0.00499	59.6	-1.13
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.174 ± 0.026	0.0187	102	0.08
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.014 ± 0.003	0.00219	89.6	-0.74
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.003	0.0021	99	-0.08
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.011 ± 0.002	0.00143	100	0.01
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.002	0.00177	95	-0.36
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.033 ± 0.007	0.00346	105	0.46
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.002	0.00141	93.5	-0.54
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.008 ± 0.0015	0.00121	99	-0.07
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.011 ± 0.002	0.00219	90.2	-0.54
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.011 ± 0.002	0.00241	86.9	-0.69
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.005 ± 0.001	0.0018	94.7	-0.16
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.006 ± 0.001	0.00277	106	0.12
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.025 ± 0.005	0.00279	98.4	-0.14
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	- ± -	0.00221	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04 ± 0.008	0.004	100	0.00
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	- ± -	0.00309	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.036 ± 0.007	0.00665	81.3	-1.25

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.004	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

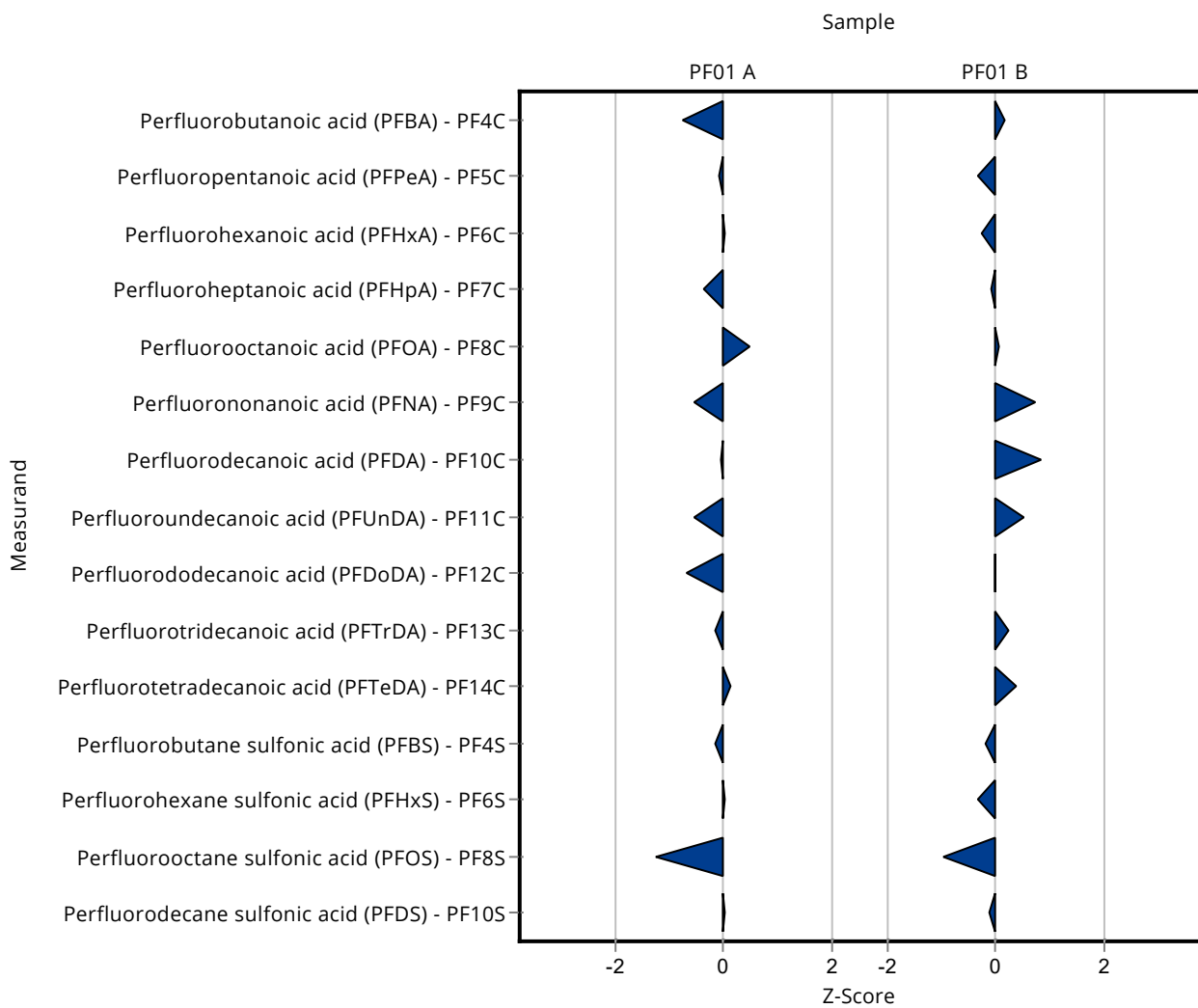
### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.105 ± 0.021	0.0144	102	0.16
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.08 ± 0.016	0.00828	96.6	-0.34

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.171 ± 0.034	0.0176	97.4	-0.26
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.038 ± 0.008	0.00539	98.7	-0.09
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.17 ± 0.034	0.0236	101	0.07
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.124 ± 0.025	0.0116	107	0.72
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.045 ± 0.009	0.00706	115	0.81
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.06 ± 0.012	0.0118	112	0.53
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.02 ± 0.004	0.0054	99.9	0.00
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.012 ± 0.002	0.00262	105	0.23
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.015 ± 0.003	0.00588	117	0.38
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.029 ± 0.006	0.00602	96.3	-0.18
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	- ± -	0.00819	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.052 ± 0.01	0.00821	95	-0.33
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	- ± -	0.00898	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.098 ± 0.02	0.0213	82.9	-0.95
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.054 ± 0.011	0.0157	96.3	-0.13
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0017

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.014 ± 0.003	0.00219	89.6	-0.27
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.016 ± 0.003	0.0021	99	-0.03
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.011 ± 0.002	0.00143	100	0.00
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.002	0.00177	95	-0.15
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.033 ± 0.007	0.00346	105	0.11
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.011 ± 0.002	0.00141	93.5	-0.19
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.008 ± 0.0015	0.00121	99	-0.03
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.011 ± 0.002	0.00219	90.2	-0.29
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.011 ± 0.002	0.00241	86.9	-0.40
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.005 ± 0.001	0.0018	94.7	-0.13
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	0.006 ± 0.001	0.00277	106	0.13
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.025 ± 0.005	0.00279	98.4	-0.04
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	- ± -	0.00221	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.04 ± 0.008	0.004	100	0.00
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	- ± -	0.00309	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.036 ± 0.007	0.00665	81.3	-0.58
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.02 ± 0.004	0.0048	100	0.00
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.105 ± 0.021	0.0144	102	0.05
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.08 ± 0.016	0.00828	96.6	-0.09
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.171 ± 0.034	0.0176	97.4	-0.07
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.038 ± 0.008	0.00539	98.7	-0.03

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

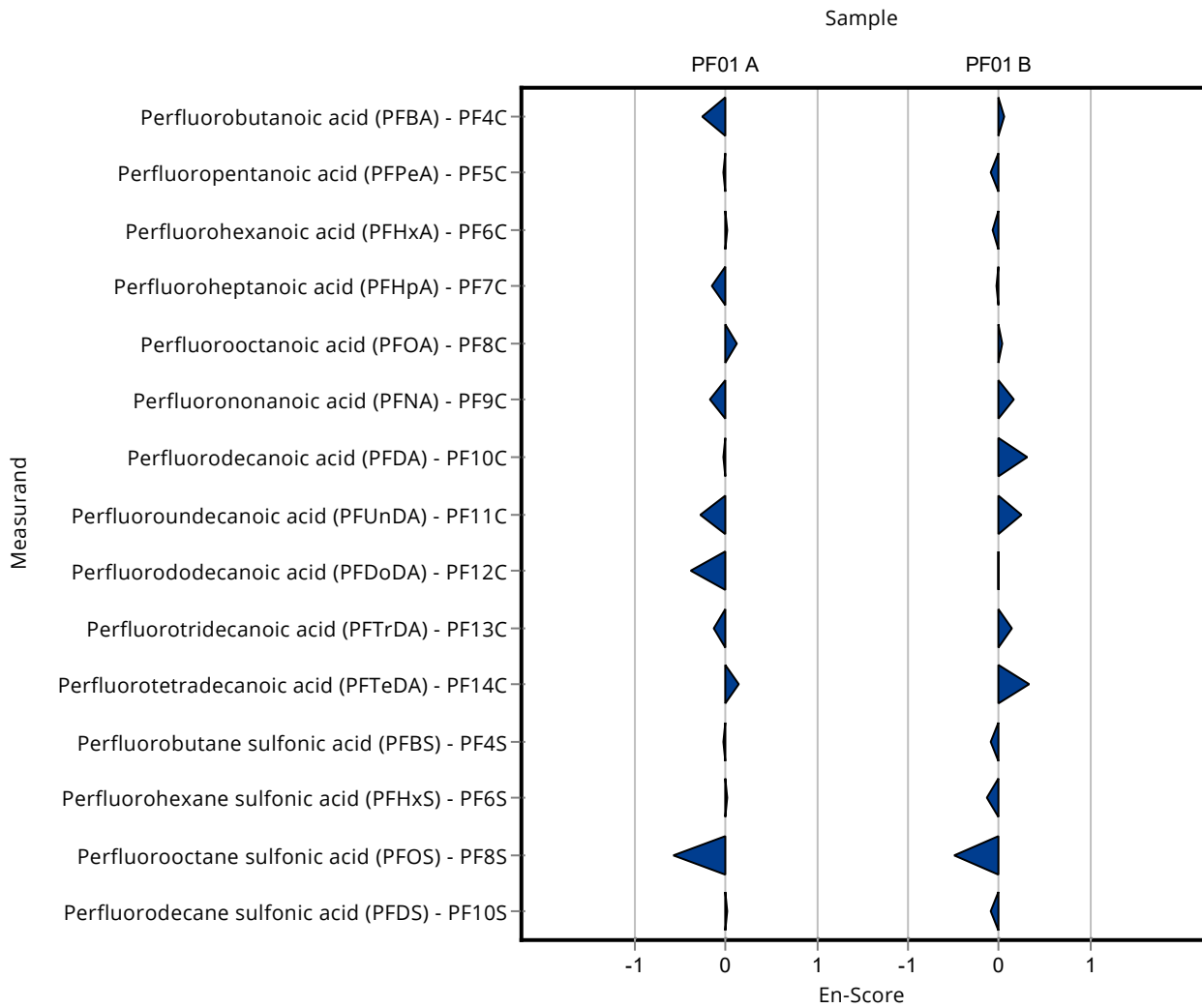
Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.17 ± 0.034	0.0236	101	0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.124 ± 0.025	0.0116	107	0.17
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.045 ± 0.009	0.00706	115	0.31
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.06 ± 0.012	0.0118	112	0.25
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.02 ± 0.004	0.0054	99.9	0.00
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.012 ± 0.002	0.00262	105	0.14
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.015 ± 0.003	0.00588	117	0.34
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.029 ± 0.006	0.00602	96.3	-0.09
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	- ± -	0.00819	-	-
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.052 ± 0.01	0.00821	95	-0.13
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	- ± -	0.00898	-	-
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.098 ± 0.02	0.0213	82.9	-0.49
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.054 ± 0.011	0.0157	96.3	-0.09
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0169 ± 0.0056	0.00219	108	0.58
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0185 ± 0.0057	0.0021	114	1.11
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0124 ± 0.0056	0.00143	113	0.99
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0134 ± 0.0048	0.00177	106	0.43
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.0099	0.00346	102	0.17
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0145 ± 0.0034	0.00141	123	1.94
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0098 ± 0.0046	0.00121	121	1.42
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0151 ± 0.0075	0.00219	124	1.32
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0136 ± 0.0068	0.00241	107	0.39
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0315 ± 0.0069	0.00279	124	2.18
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0221 ± 0.0044	0.00221	120	1.68
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0547 ± 0.0161	0.004	137	3.68
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0247 ± 0.0032	0.00309	112	0.86
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0582 ± 0.0281	0.00665	131	2.09



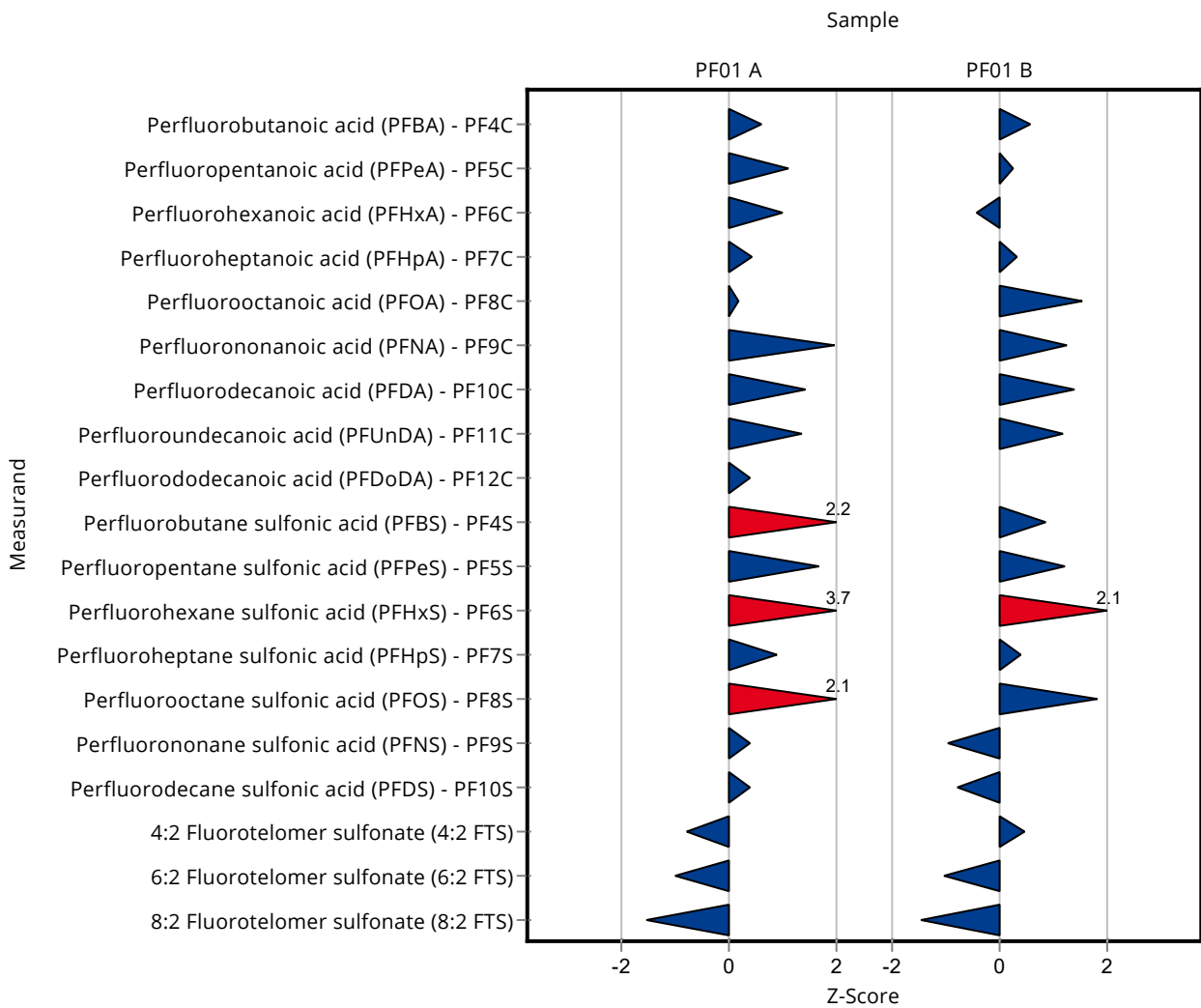
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0198 ± 0.0084	0.00548	112	0.39
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0219 ± 0.0106	0.0048	110	0.40
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0152 ± 0.0075	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0176 ± 0.0037	0.00323	87.2	-0.80
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.017 ± 0.0062	0.00276	86.1	-0.99
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.022 ± 0.0094	0.00835	63.2	-1.53
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.111 ± 0.0369	0.0144	108	0.58
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0851 ± 0.026	0.00828	103	0.28

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1681 ± 0.0763	0.0176	95.7	-0.43
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0402 ± 0.0145	0.00539	104	0.32
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.2045 ± 0.063	0.0236	121	1.53
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1303 ± 0.031	0.0116	113	1.26
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0492 ± 0.0229	0.00706	125	1.41
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0677 ± 0.0339	0.0118	126	1.18
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0354 ± 0.0078	0.00602	118	0.88
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0845 ± 0.0167	0.00819	113	1.22
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0719 ± 0.0212	0.00821	131	2.09
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0427 ± 0.0054	0.00898	109	0.41
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1574 ± 0.0761	0.0213	133	1.84
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.075 ± 0.0317	0.0174	82	-0.95
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0437 ± 0.0211	0.0157	77.9	-0.79
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.091 ± 0.0325	0.0135	108	0.47
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.1506 ± 0.0278	0.0187	88.7	-1.03
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0759 ± 0.0337	0.0261	67	-1.44
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0018

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0169 ± 0.0056	0.00219	108	0.11
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0185 ± 0.0057	0.0021	114	0.20
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0124 ± 0.0056	0.00143	113	0.13
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0134 ± 0.0048	0.00177	106	0.08
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.032 ± 0.0099	0.00346	102	0.03
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0145 ± 0.0034	0.00141	123	0.40
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0098 ± 0.0046	0.00121	121	0.19
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0151 ± 0.0075	0.00219	124	0.19
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0136 ± 0.0068	0.00241	107	0.07
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	- ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0315 ± 0.0069	0.00279	124	0.44
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0221 ± 0.0044	0.00221	120	0.42
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0547 ± 0.0161	0.004	137	0.46
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0247 ± 0.0032	0.00309	112	0.40
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0582 ± 0.0281	0.00665	131	0.25
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0198 ± 0.0084	0.00548	112	0.12

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0219 ± 0.0106	0.0048	110	0.09
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0152 ± 0.0075	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0176 ± 0.0037	0.00323	87.2	-0.33
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.017 ± 0.0062	0.00276	86.1	-0.22
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.022 ± 0.0094	0.00835	63.2	-0.65
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.111 ± 0.0369	0.0144	108	0.11
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0851 ± 0.026	0.00828	103	0.04
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1681 ± 0.0763	0.0176	95.7	-0.05
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0402 ± 0.0145	0.00539	104	0.06

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0018

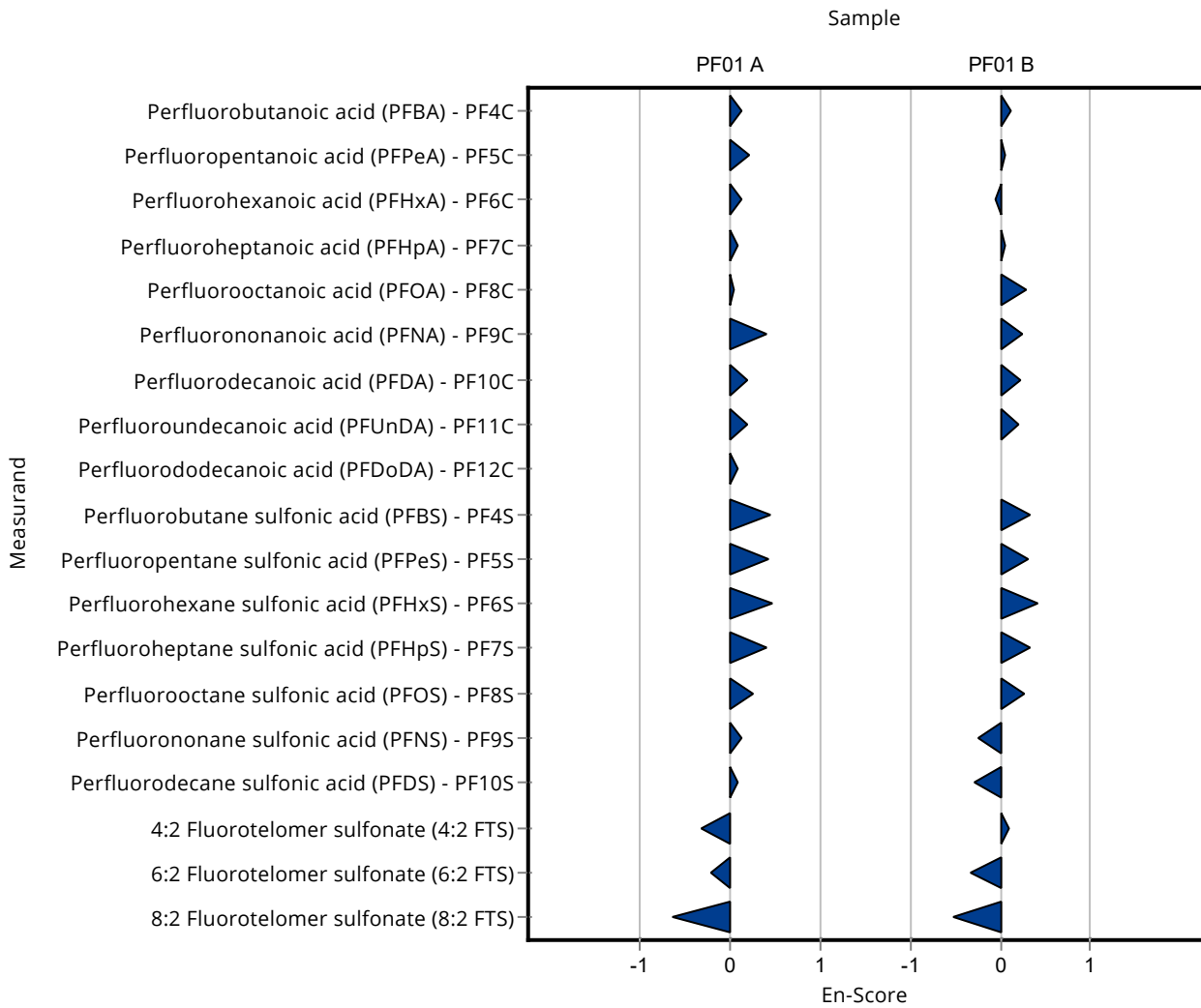
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.2045 ± 0.063	0.0236	121	0.29
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1303 ± 0.031	0.0116	113	0.23
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0492 ± 0.0229	0.00706	125	0.22
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0677 ± 0.0339	0.0118	126	0.20
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	- ± -	0.0054	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	- ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0354 ± 0.0078	0.00602	118	0.33
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0845 ± 0.0167	0.00819	113	0.30
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.0719 ± 0.0212	0.00821	131	0.40
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0427 ± 0.0054	0.00898	109	0.32
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.1574 ± 0.0761	0.0213	133	0.26
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.075 ± 0.0317	0.0174	82	-0.26
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0437 ± 0.0211	0.0157	77.9	-0.29
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.091 ± 0.0325	0.0135	108	0.10
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.1506 ± 0.0278	0.0187	88.7	-0.34
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0759 ± 0.0337	0.0261	67	-0.53
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0145 ± 0.0025	0.00219	92.8	-0.51
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0152 ± 0.0052	0.0021	94	-0.46
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0101 ± 0.0027	0.00143	92	-0.62
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0118 ± 0.0021	0.00177	93.4	-0.47
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0318 ± 0.0086	0.00346	101	0.11
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0107 ± 0.0028	0.00141	90.9	-0.76
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0081 ± 0.0031	0.00121	100	0.02
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0151 ± 0.0033	0.00219	124	1.32
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0165 ± 0.0036	0.00241	130	1.60
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0072 ± 0.0015	0.0018	136	1.07
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0264 ± 0.0026	0.00279	104	0.36
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0182 ± 0.0024	0.00221	99	-0.09
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0385 ± 0.0073	0.004	96.3	-0.37
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0225 ± 0.0031	0.00309	102	0.15
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0529 ± 0.0085	0.00665	119	1.29

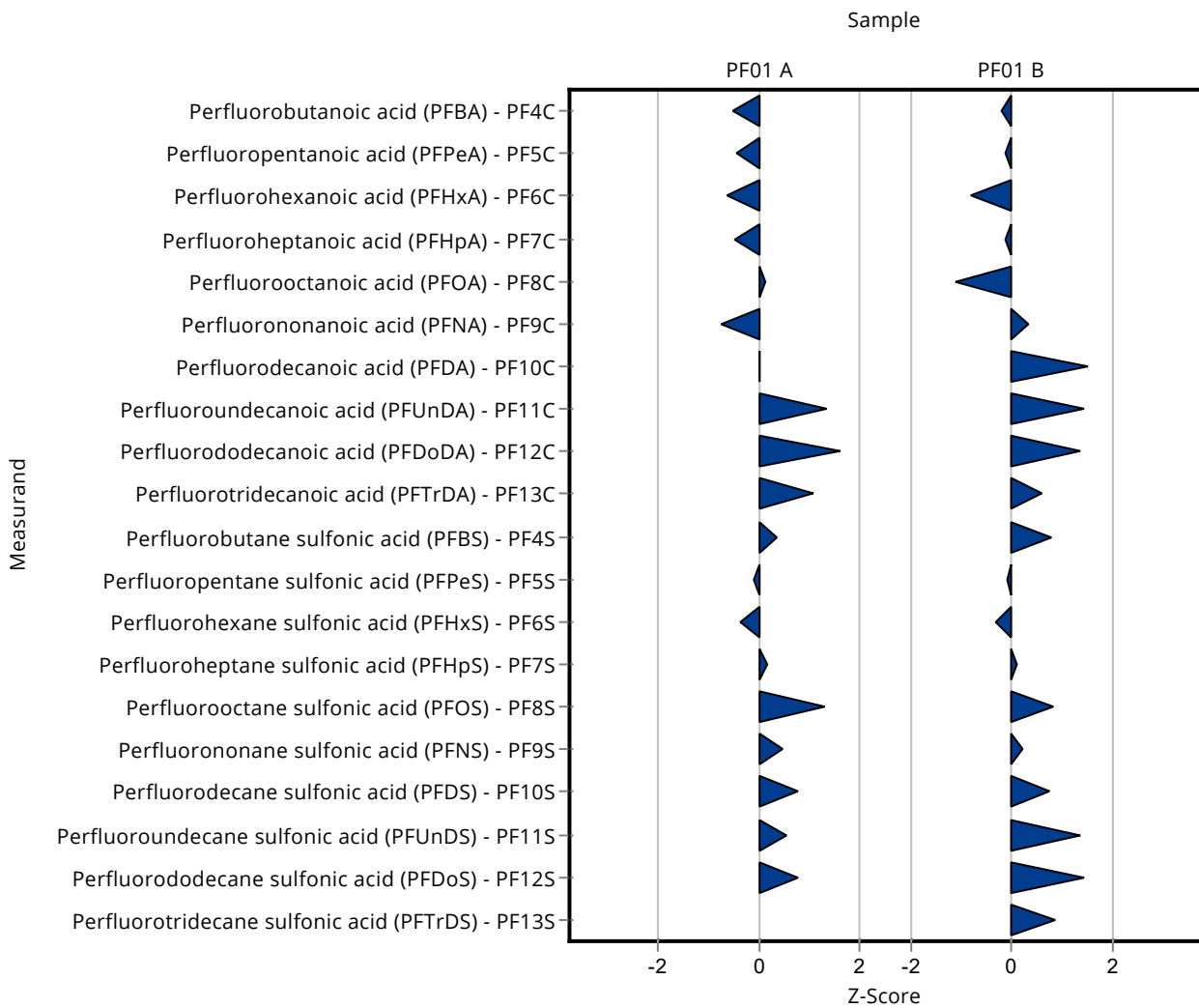
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0202 ± 0.0045	0.00548	114	0.46
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0237 ± 0.009	0.0048	119	0.77
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0223 ± 0.0085	0.00714	122	0.56
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0188 ± 0.0071	0.00618	134	0.77
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0236 ± 0.0068	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0997 ± 0.0169	0.0144	97.1	-0.21
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0818 ± 0.0278	0.00828	98.8	-0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1615 ± 0.0436	0.0176	91.9	-0.81
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0378 ± 0.0068	0.00539	98.2	-0.13
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1418 ± 0.0383	0.0236	84.2	-1.13
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1193 ± 0.031	0.0116	103	0.31
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0498 ± 0.0189	0.00706	127	1.49
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0707 ± 0.0156	0.0118	131	1.43
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0273 ± 0.006	0.0054	136	1.35
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.013 ± 0.0027	0.00262	114	0.61
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0348 ± 0.0035	0.00602	116	0.78
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0738 ± 0.0096	0.00819	99.1	-0.08
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.052 ± 0.0099	0.00821	95	-0.33
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0398 ± 0.0056	0.00898	102	0.08
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.136 ± 0.0218	0.0213	115	0.83
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0951 ± 0.0209	0.0174	104	0.21
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0678 ± 0.0258	0.0157	121	0.75
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0418 ± 0.0159	0.0095	145	1.37

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0154 ± 0.0059	0.00307	140	1.44
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0162 ± 0.0047	0.00499	136	0.86
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0019

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0145 ± 0.0025	0.00219	92.8	-0.22
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0152 ± 0.0052	0.0021	94	-0.09
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.0101 ± 0.0027	0.00143	92	-0.16
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0118 ± 0.0021	0.00177	93.4	-0.19
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0318 ± 0.0086	0.00346	101	0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0107 ± 0.0028	0.00141	90.9	-0.19
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.0081 ± 0.0031	0.00121	100	0.00
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0151 ± 0.0033	0.00219	124	0.43
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0165 ± 0.0036	0.00241	130	0.53
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.0072 ± 0.0015	0.0018	136	0.62
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0264 ± 0.0026	0.00279	104	0.19
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0182 ± 0.0024	0.00221	99	-0.04
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0385 ± 0.0073	0.004	96.3	-0.10
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0225 ± 0.0031	0.00309	102	0.07
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0529 ± 0.0085	0.00665	119	0.50
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.0202 ± 0.0045	0.00548	114	0.26

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.0237 ± 0.009	0.0048	119	0.20
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	0.0223 ± 0.0085	0.00714	122	0.22
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	0.0188 ± 0.0071	0.00618	134	0.32
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	0.0236 ± 0.0068	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0997 ± 0.0169	0.0144	97.1	-0.09
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0818 ± 0.0278	0.00828	98.8	-0.02
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.1615 ± 0.0436	0.0176	91.9	-0.16
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0378 ± 0.0068	0.00539	98.2	-0.05



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

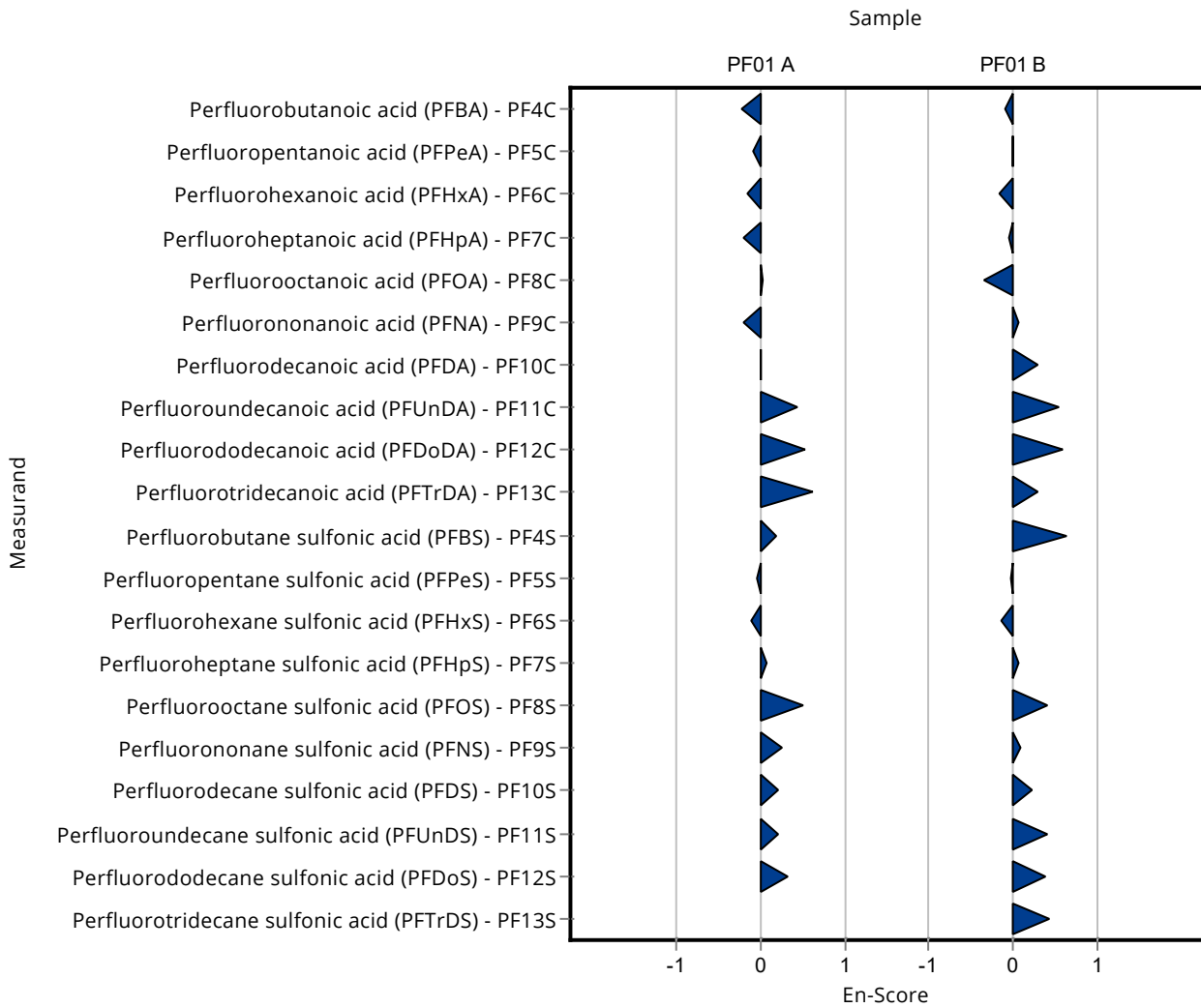
Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.1418 ± 0.0383	0.0236	84.2	-0.34
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.1193 ± 0.031	0.0116	103	0.06
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0498 ± 0.0189	0.00706	127	0.28
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0707 ± 0.0156	0.0118	131	0.53
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0273 ± 0.006	0.0054	136	0.59
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.013 ± 0.0027	0.00262	114	0.29
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0348 ± 0.0035	0.00602	116	0.63
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0738 ± 0.0096	0.00819	99.1	-0.03
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.052 ± 0.0099	0.00821	95	-0.14
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0398 ± 0.0056	0.00898	102	0.06
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.136 ± 0.0218	0.0213	115	0.40
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.0951 ± 0.0209	0.0174	104	0.08
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0678 ± 0.0258	0.0157	121	0.22
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.0418 ± 0.0159	0.0095	145	0.40
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	0.0154 ± 0.0059	0.00307	140	0.37
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	0.0162 ± 0.0047	0.00499	136	0.43
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	<0.03 (LOQ) ± -	0.00219	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	<0.02 (LOQ) ± -	0.0021	-	-
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	<0.02 (LOQ) ± -	0.00143	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.004	0.00177	95	-0.36
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.026 ± 0.008	0.00346	82.8	-1.57
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	<0.03 (LOQ) ± -	0.00141	-	-
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	<0.01 (LOQ) ± -	0.00121	-	-
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	<0.01 (LOQ) ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	<0.01 (LOQ) ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.01 (LOQ) ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.026 ± 0.008	0.00279	102	0.21
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.015 ± 0.004	0.00221	81.6	-1.54
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.035 ± 0.011	0.004	87.5	-1.25
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.015 ± 0.004	0.00309	68.1	-2.28
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.043 ± 0.013	0.00665	97.1	-0.20

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01

Labcode: LC0020

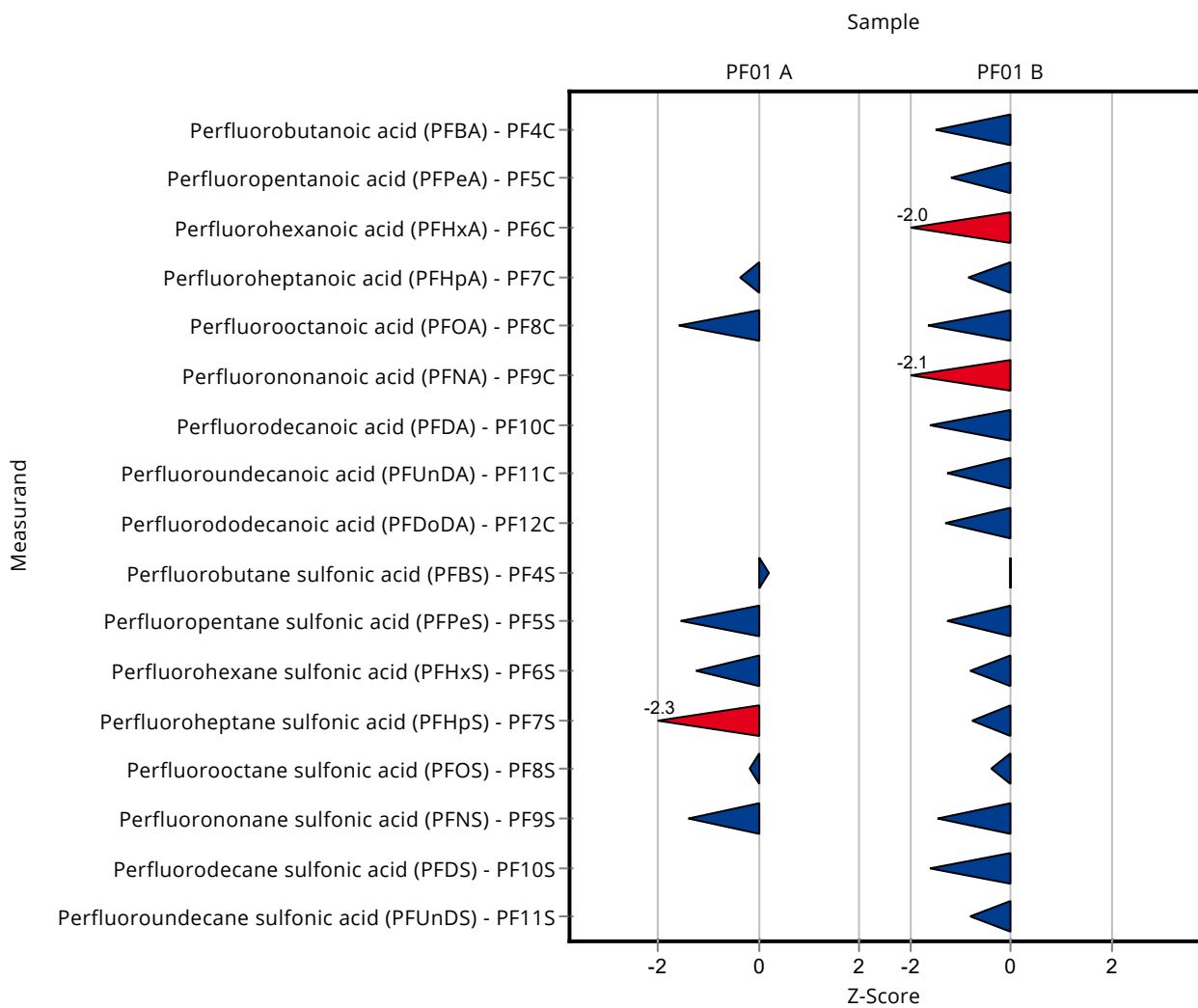
Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.01 ± 0.003	0.00548	56.5	-1.40
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	<0.02 (LOQ) ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	<0.02 (LOQ) ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	<0.02 (LOQ) ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.02 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propan acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.081 ± 0.024	0.0144	78.9	-1.51
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.073 ± 0.022	0.00828	88.2	-1.18

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.14 ± 0.04	0.0176	79.7	-2.03
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.034 ± 0.01	0.00539	88.3	-0.83
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.13 ± 0.04	0.0236	77.2	-1.63
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.091 ± 0.027	0.0116	78.7	-2.13
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.028 ± 0.008	0.00706	71.3	-1.59
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.039 ± 0.012	0.0118	72.5	-1.25
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.013 ± 0.004	0.0054	64.9	-1.30
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.01 (LOQ) ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.03 ± 0.009	0.00602	99.7	-0.02
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.064 ± 0.019	0.00819	85.9	-1.28
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.048 ± 0.014	0.00821	87.7	-0.82
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.032 ± 0.01	0.00898	82	-0.78
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.11 ± 0.03	0.0213	93	-0.39
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.066 ± 0.02	0.0174	72.1	-1.47
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.031 ± 0.009	0.0157	55.3	-1.60
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.021 ± 0.006	0.0095	73	-0.82

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	<0.02 (LOQ) ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	<0.02 (LOQ) ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-





Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0020

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	<0.03 (LOQ) ± -	0.00219	-	-
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	<0.02 (LOQ) ± -	0.0021	-	-
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	<0.02 (LOQ) ± -	0.00143	-	-
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.012 ± 0.004	0.00177	95	-0.08
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.026 ± 0.008	0.00346	82.8	-0.34
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	<0.03 (LOQ) ± -	0.00141	-	-
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	<0.01 (LOQ) ± -	0.00121	-	-
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	<0.01 (LOQ) ± -	0.00219	-	-
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	<0.01 (LOQ) ± -	0.00241	-	-
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	<0.01 (LOQ) ± -	0.0018	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	- ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.026 ± 0.008	0.00279	102	0.04
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.015 ± 0.004	0.00221	81.6	-0.42
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.035 ± 0.011	0.004	87.5	-0.23
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.015 ± 0.004	0.00309	68.1	-0.86
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.043 ± 0.013	0.00665	97.1	-0.05
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	0.01 ± 0.003	0.00548	56.5	-1.14

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	<0.02 (LOQ) ± -	0.0048	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	<0.02 (LOQ) ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	<0.02 (LOQ) ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	<0.02 (LOQ) ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	- ± -	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	- ± -	0.00323	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	- ± -	0.00276	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	- ± -	0.00835	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	- ± -	0.00357	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	- ± -	0.00646	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.081 ± 0.024	0.0144	78.9	-0.45
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.073 ± 0.022	0.00828	88.2	-0.22
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.14 ± 0.04	0.0176	79.7	-0.44
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.034 ± 0.01	0.00539	88.3	-0.22

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

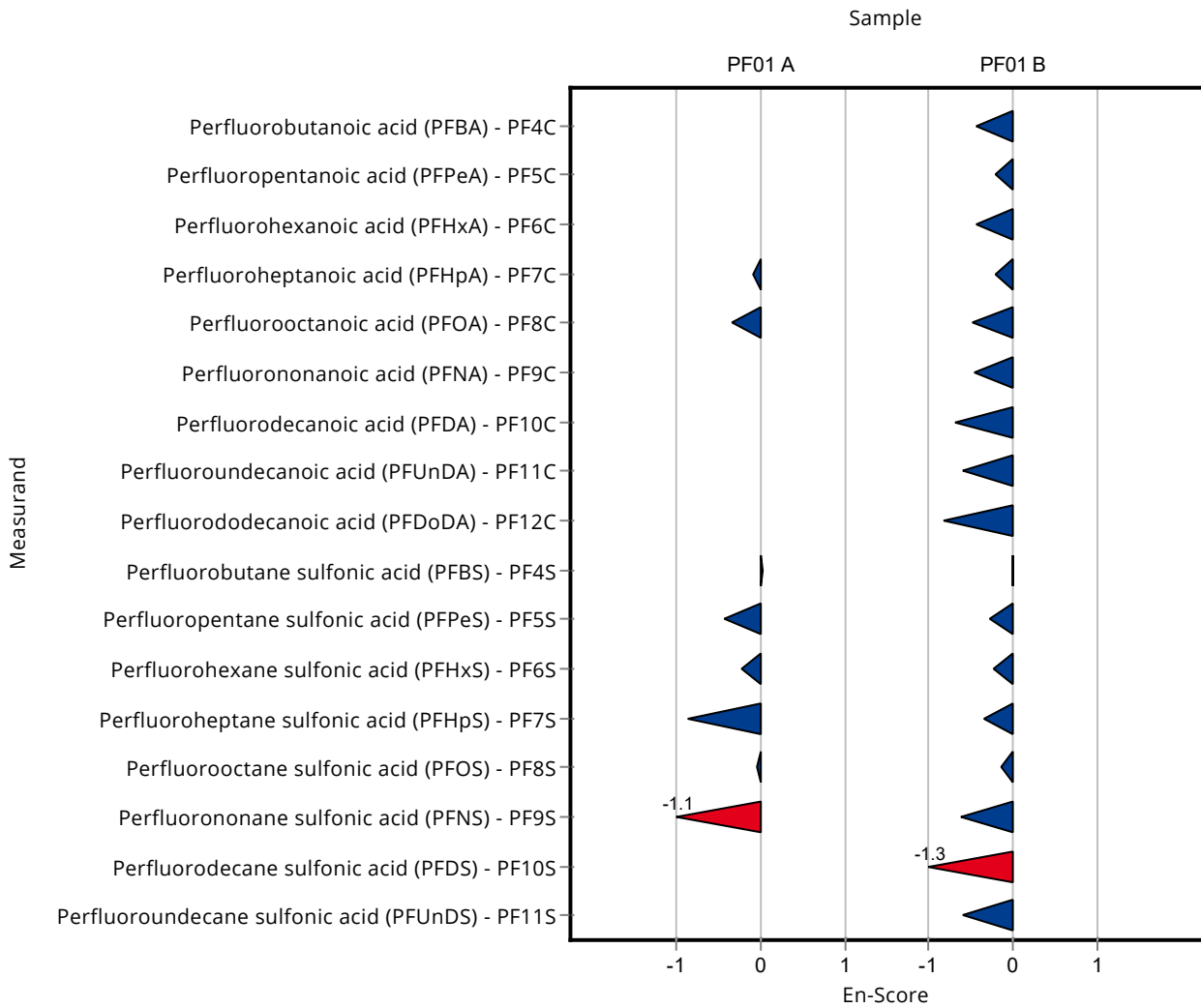
Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.13 ± 0.04	0.0236	77.2	-0.48
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.091 ± 0.027	0.0116	78.7	-0.45
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.028 ± 0.008	0.00706	71.3	-0.69
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.039 ± 0.012	0.0118	72.5	-0.60
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.013 ± 0.004	0.0054	64.9	-0.84
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	<0.01 (LOQ) ± -	0.00262	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	- ± -	0.00588	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.03 ± 0.009	0.00602	99.7	-0.01
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.064 ± 0.019	0.00819	85.9	-0.27
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.048 ± 0.014	0.00821	87.7	-0.24
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.032 ± 0.01	0.00898	82	-0.34
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.11 ± 0.03	0.0213	93	-0.14
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	0.066 ± 0.02	0.0174	72.1	-0.62
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.031 ± 0.009	0.0157	55.3	-1.28
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	0.021 ± 0.006	0.0095	73	-0.59
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	<0.02 (LOQ) ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	<0.02 (LOQ) ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	- ± -	0.00777	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	- ± -	0.0135	-	-
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	- ± -	0.0187	-	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	- ± -	0.0261	-	-
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	- ± -	0.0275	-	-
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	- ± -	0.0226	-	-
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Sample: PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0178 ± 0.0054	0.00219	114	1.00
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0156 ± 0.0047	0.0021	96.5	-0.27
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00935 ± 0.0028	0.00143	85.1	-1.14
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0143 ± 0.0043	0.00177	113	0.94
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0339 ± 0.0102	0.00346	108	0.72
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0109 ± 0.0033	0.00141	92.6	-0.61
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00668 ± 0.002	0.00121	82.7	-1.15
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0102 ± 0.0031	0.00219	83.7	-0.91
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0121 ± 0.0036	0.00241	95.6	-0.23
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00567 ± 0.0017	0.0018	107	0.22
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0253 ± 0.0076	0.00279	99.6	-0.04
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0172 ± 0.0052	0.00221	93.5	-0.54
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0388 ± 0.012	0.004	97	-0.30
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0209 ± 0.0063	0.00309	94.8	-0.37
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0434 ± 0.013	0.00665	98	-0.14

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.013 ± 0.0039	0.0048	65	-1.46
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0121 ± 0.0036	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0158 ± 0.0047	0.00323	78.3	-1.36
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0147 ± 0.0044	0.00276	74.5	-1.82
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0292 ± 0.0088	0.00835	83.9	-0.67
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0314 ± 0.0094	0.00357	105	0.46
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0394 ± 0.0118	0.00646	91.4	-0.57
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

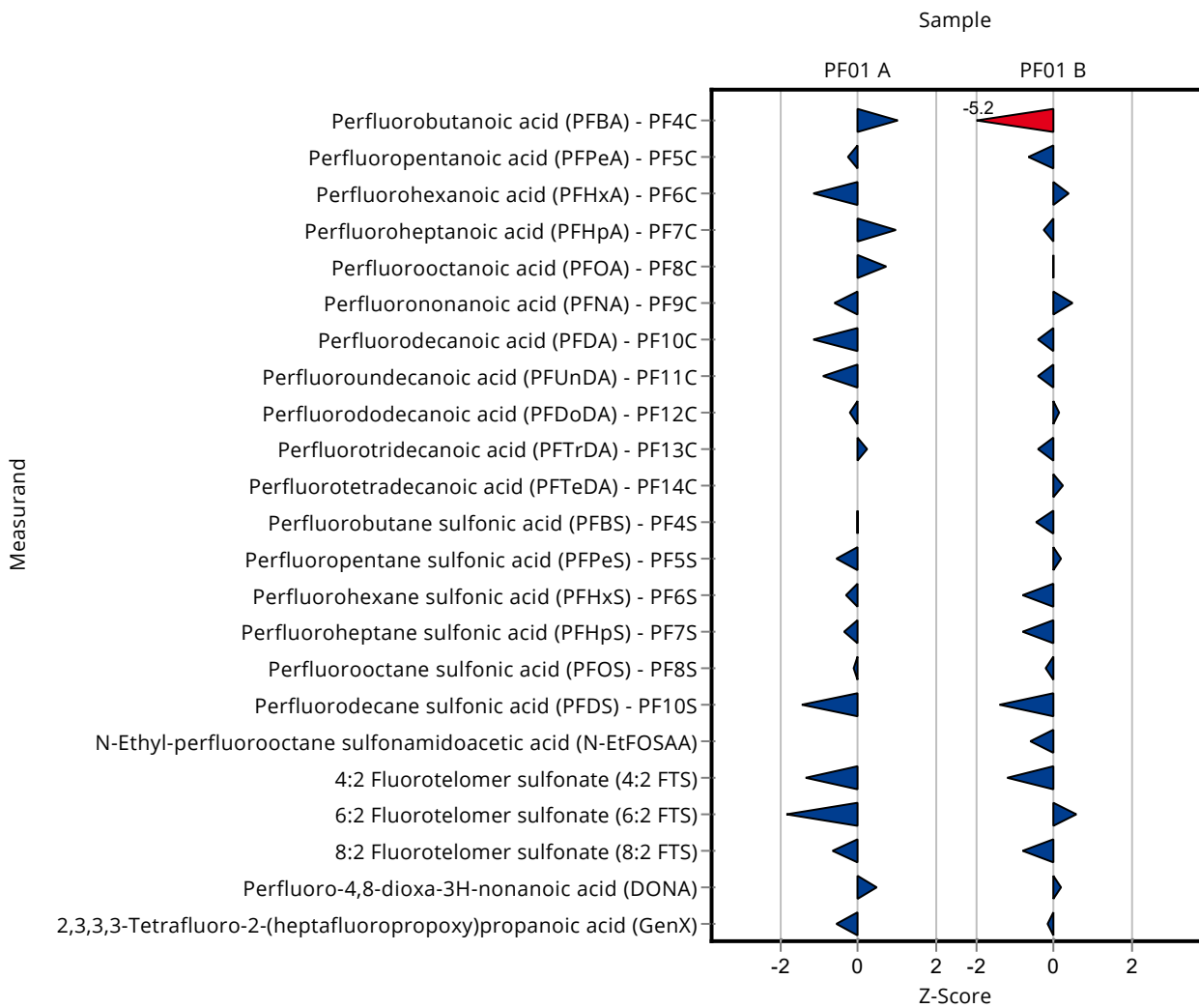
Sample: PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0274 ± 0.0082	0.0144	26.7	-5.24
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0775 ± 0.0233	0.00828	93.6	-0.64

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.182 ± 0.055	0.0176	104	0.36
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0371 ± 0.0111	0.00539	96.4	-0.26
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.168 ± 0.05	0.0236	99.8	-0.02
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.121 ± 0.036	0.0116	105	0.46
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0362 ± 0.0108	0.00706	92.2	-0.43
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0491 ± 0.0147	0.0118	91.3	-0.39
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0208 ± 0.0062	0.0054	104	0.15
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0103 ± 0.0031	0.00262	90.4	-0.42
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0142 ± 0.0043	0.00588	111	0.24
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0274 ± 0.0082	0.00602	91	-0.45
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0757 ± 0.0227	0.00819	102	0.15
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.048 ± 0.0144	0.00821	87.7	-0.82
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0317 ± 0.0095	0.00898	81.2	-0.82
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.114 ± 0.034	0.0213	96.4	-0.20
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0341 ± 0.0102	0.0157	60.8	-1.40
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-



Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0551 ± 0.0165	0.00777	92.2	-0.60
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0684 ± 0.0205	0.0135	80.8	-1.20
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.18 ± 0.054	0.0187	106	0.55
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0918 ± 0.0275	0.0261	81	-0.83
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.12 ± 0.036	0.0275	105	0.19
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.222 ± 0.066	0.0226	98.3	-0.17
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0021

Sample:PF01A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.0156 ± 0.000853	0.0178 ± 0.0054	0.00219	114	0.20
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0162 ± 0.000935	0.0156 ± 0.0047	0.0021	96.5	-0.06
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.011 ± 0.000606	0.00935 ± 0.0028	0.00143	85.1	-0.29
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0126 ± 0.000981	0.0143 ± 0.0043	0.00177	113	0.19
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.0314 ± 0.00153	0.0339 ± 0.0102	0.00346	108	0.12
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.0118 ± 0.000741	0.0109 ± 0.0033	0.00141	92.6	-0.13
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.00808 ± 0.000565	0.00668 ± 0.002	0.00121	82.7	-0.35
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0122 ± 0.00108	0.0102 ± 0.0031	0.00219	83.7	-0.32
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.0127 ± 0.00122	0.0121 ± 0.0036	0.00241	95.6	-0.08
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.00528 ± 0.000706	0.00567 ± 0.0017	0.0018	107	0.11
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.00566 ± 0.00182	<0.01 (LOQ) ± -	0.00277	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0254 ± 0.00127	0.0253 ± 0.0076	0.00279	99.6	-0.01
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0184 ± 0.00108	0.0172 ± 0.0052	0.00221	93.5	-0.11
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.04 ± 0.00169	0.0388 ± 0.012	0.004	97	-0.05
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.022 ± 0.0015	0.0209 ± 0.0063	0.00309	94.8	-0.09
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.0443 ± 0.00302	0.0434 ± 0.013	0.00665	98	-0.03
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0177 ± 0.00303	- ± -	0.00548	-	-

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.02 ± 0.00244	0.013 ± 0.0039	0.0048	65	-0.86
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0183 ± 0.00558	- ± -	0.00714	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.0141 ± 0.00504	- ± -	0.00618	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	- ± -	- ± -	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	- ± -	0.0121 ± 0.0036	-	-	-
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0202 ± 0.00251	0.0158 ± 0.0047	0.00323	78.3	-0.45
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.0197 ± 0.00167	0.0147 ± 0.0044	0.00276	74.5	-0.56
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.0348 ± 0.00592	0.0292 ± 0.0088	0.00835	83.9	-0.30
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.0298 ± 0.00268	0.0314 ± 0.0094	0.00357	105	0.09
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.0431 ± 0.00488	0.0394 ± 0.0118	0.00646	91.4	-0.15
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.0172 ± 0.00171	- ± -	0.00223	-	-

### Sample:PF01B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorobutanoic acid (PFBA) - PF4C	µg/l	0.103 ± 0.00675	0.0274 ± 0.0082	0.0144	26.7	-4.25
Perfluoropentanoic acid (PFPeA) - PF5C	µg/l	0.0828 ± 0.00365	0.0775 ± 0.0233	0.00828	93.6	-0.11
Perfluorohexanoic acid (PFHxA) - PF6C	µg/l	0.176 ± 0.00728	0.182 ± 0.055	0.0176	104	0.06
Perfluoroheptanoic acid (PFHpA) - PF7C	µg/l	0.0385 ± 0.00246	0.0371 ± 0.0111	0.00539	96.4	-0.06

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

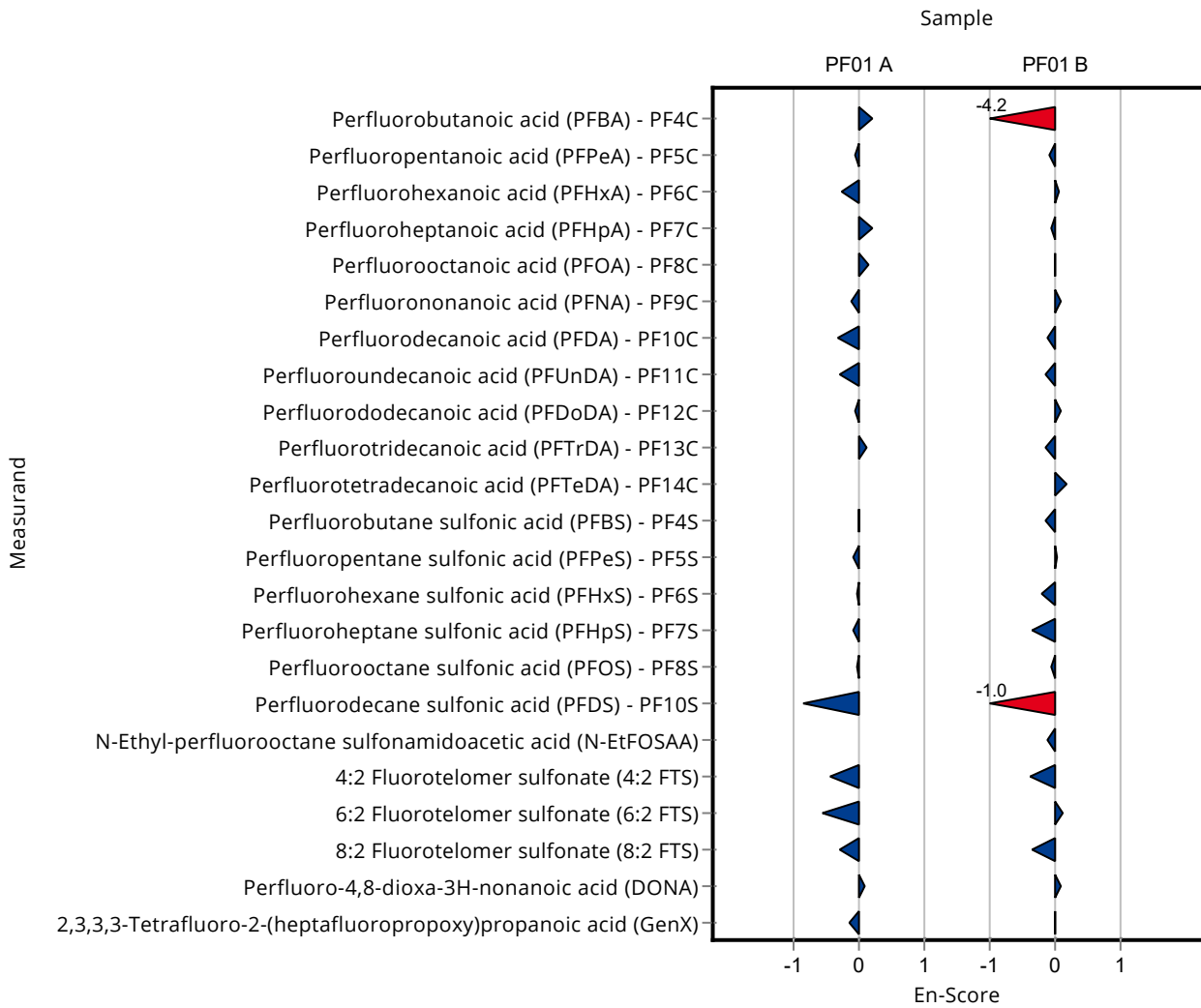
Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Perfluorooctanoic acid (PFOA) - PF8C	µg/l	0.168 ± 0.0102	0.168 ± 0.05	0.0236	99.8	0.00
Perfluorononanoic acid (PFNA) - PF9C	µg/l	0.116 ± 0.00542	0.121 ± 0.036	0.0116	105	0.07
Perfluorodecanoic acid (PFDA) - PF10C	µg/l	0.0392 ± 0.00321	0.0362 ± 0.0108	0.00706	92.2	-0.14
Perfluoroundecanoic acid (PFUnDA) - PF11C	µg/l	0.0538 ± 0.00561	0.0491 ± 0.0147	0.0118	91.3	-0.16
Perfluorododecanoic acid (PFDoDA) - PF12C	µg/l	0.02 ± 0.00255	0.0208 ± 0.0062	0.0054	104	0.06
Perfluorotridecanoic acid (PFTrDA) - PF13C	µg/l	0.0114 ± 0.00116	0.0103 ± 0.0031	0.00262	90.4	-0.17
Perfluorotetradecanoic acid (PFTeDA) - PF14C	µg/l	0.0128 ± 0.00278	0.0142 ± 0.0043	0.00588	111	0.16
Perfluorobutane sulfonic acid (PFBS) - PF4S	µg/l	0.0301 ± 0.00259	0.0274 ± 0.0082	0.00602	91	-0.16
Perfluoropentane sulfonic acid (PFPeS) - PF5S	µg/l	0.0745 ± 0.00382	0.0757 ± 0.0227	0.00819	102	0.03
Perfluorohexane sulfonic acid (PFHxS) - PF6S	µg/l	0.0547 ± 0.00369	0.048 ± 0.0144	0.00821	87.7	-0.23
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	µg/l	0.039 ± 0.00409	0.0317 ± 0.0095	0.00898	81.2	-0.38
Perfluorooctane sulfonic acid (PFOS) - PF8S	µg/l	0.118 ± 0.00961	0.114 ± 0.034	0.0213	96.4	-0.06
Perfluorononane sulfonic acid (PFNS) - PF9S	µg/l	0.0915 ± 0.00999	- ± -	0.0174	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S	µg/l	0.0561 ± 0.00765	0.0341 ± 0.0102	0.0157	60.8	-1.01
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	µg/l	0.0288 ± 0.00548	- ± -	0.0095	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	µg/l	0.011 ± 0.00203	- ± -	0.00307	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	µg/l	0.0119 ± 0.00377	- ± -	0.00499	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	µg/l	0.0598 ± 0.00631	0.0551 ± 0.0165	0.00777	92.2	-0.14

Summary of results Per- and polyfluoroalkyl substances (PFAS) - PF01 - En-Score

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
4:2 Fluorotelomer sulfonate (4:2 FTS)	µg/l	0.0847 ± 0.00815	0.0684 ± 0.0205	0.0135	80.8	-0.39
6:2 Fluorotelomer sulfonate (6:2 FTS)	µg/l	0.17 ± 0.0112	0.18 ± 0.054	0.0187	106	0.09
8:2 Fluorotelomer sulfonate (8:2 FTS)	µg/l	0.113 ± 0.0186	0.0918 ± 0.0275	0.0261	81	-0.37
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	µg/l	0.115 ± 0.0195	0.12 ± 0.036	0.0275	105	0.07
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	µg/l	0.226 ± 0.00994	0.222 ± 0.066	0.0226	98.3	-0.03
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	µg/l	0.148 ± 0.0156	- ± -	0.0207	-	-



## E9. Methodenübersicht / Overview of methods

LabCode	Sample	Perfluorobutanoic acid (PFBA) - PF4C	Perfluoropentanoic acid (PFPeA) - PF5C	Perfluorohexanoic acid (PFHxA) - PF6C	Perfluoroheptanoic acid (PFHpA) - PF7C
LC0001	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0002	PF01A	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01A	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0010	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0011	PF01A		LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01A	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0018	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;



LabCode	Sample	Perfluorooctanoic acid (PFOA) - PF8C	Perfluorononanoic acid (PFNA) - PF9C	Perfluorodecanoic acid (PFDA) - PF10C	Perfluoroundecanoic acid (PFUnDA) - PF11C
LC0001	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	
LC0002	PF01A	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01A	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0010	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0011	PF01A	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01A	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0018	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	Perfluorododecanoic acid (PFDoDA) - PF12C	Perfluorotridecanoic acid (PFTrDA) - PF13C	Perfluorotetradecanoic acid (PFTeDA) - PF14C	Perfluorobutane sulfonic acid (PFBS) - PF4S
LC0001	PF01A				LLE-LC-MS/MS; DIN 38407-42
LC0002	PF01A				LLE-LC-MS/MS;
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);		LC-MS/MS (offline enrichment);
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0006	PF01A	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01A	LC-MS/MS;	LC-MS/MS;		LC-MS/MS;
LC0010	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0011	PF01A	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01A	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);		LC-MS/MS (large volume inj.);
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0018	PF01A	LC-MS/MS;			LC-MS/MS;
LC0019	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	Perfluoropentane sulfonic acid (PFPeS) - PF5S	Perfluorohexane sulfonic acid (PFHxS) - PF6S	Perfluoroheptane sulfonic acid (PFHpS) - PF7S	Perfluorooctane sulfonic acid (PFOS) - PF8S	Perfluorononane sulfonic acid (PFNS) - PF9S	Perfluorodecane sulfonic acid (PFDS) - PF10S
LC0001	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		
LC0002	PF01A	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;		
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01A	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0010	PF01A		LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42		
LC0011	PF01A	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01A	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01A		LC-MS/MS direct;		LC-MS/MS direct;		LC-MS/MS direct;
LC0018	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;		SPE-LC-MS/MS;

LabCode	Sample	Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	Perfluorododecane sulfonic acid (PFDoS) - PF12S	Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	4:2 Fluorotelomer sulfonate (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)
LC0001	PF01A						
LC0002	PF01A						LLE-LC-MS/MS;
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);			
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01A				LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A						LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;		
LC0009	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;			
LC0010	PF01A						
LC0011	PF01A	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022			
LC0012	PF01A	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);			LC-MS/MS (large volume inj.);
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;		LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01A						
LC0018	PF01A				LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			
LC0020	PF01A	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			
LC0021	PF01A				SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	8:2 Fluorotelomer sulfonate (8:2 FTS)	Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)
LC0001	PF01A				
LC0002	PF01A				
LC0003	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01A				
LC0005	PF01A	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0006	PF01A	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01A	LLE-LC-MS/MS; DIN 38407-42			
LC0008	PF01A		LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01A				
LC0010	PF01A				
LC0011	PF01A				
LC0012	PF01A				
LC0013	PF01A	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01A	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01A				
LC0017	PF01A				
LC0018	PF01A	LC-MS/MS;			
LC0019	PF01A				
LC0020	PF01A				
LC0021	PF01A	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	

LabCode	Sample	Perfluorobutanoic acid (PFBA) - PF4C	Perfluoropentanoic acid (PFPeA) - PF5C	Perfluorohexanoic acid (PFHxA) - PF6C	Perfluoroheptanoic acid (PFHpA) - PF7C	Perfluorooctanoic acid (PFOA) - PF8C	Perfluorononanoic acid (PFNA) - PF9C
LC0001	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0002	PF01B	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;
LC0003	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01B	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);
LC0005	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01B	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0010	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0011	PF01B		LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01B	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);
LC0013	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0018	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	Perfluorodecanoic acid (PFDA) - PF10C	Perfluoroundecanoic acid (PFUnDA) - PF11C	Perfluorododecanoic acid (PFDoDA) - PF12C	Perfluorotridecanoic acid (PFTrDA) - PF13C	Perfluorotetradecanoic acid (PFTeDA) - PF14C	Perfluorobutane sulfonic acid (PFBS) - PF4S
LC0001	PF01B	LLE-LC-MS/MS; DIN 38407-42					LLE-LC-MS/MS; DIN 38407-42
LC0002	PF01B	LLE-LC-MS/MS;					LLE-LC-MS/MS;
LC0003	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01B	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);		LC-MS/MS (offline enrichment);
LC0005	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0006	PF01B	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;		LC-MS/MS;
LC0010	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0011	PF01B	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01B	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);		LC-MS/MS (large volume inj.);
LC0013	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0014	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0018	PF01B	LC-MS/MS;	LC-MS/MS;				LC-MS/MS;
LC0019	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	Perfluoropentane sulfonic acid (PFPeS) - PF5S	Perfluorohexane sulfonic acid (PFHxS) - PF6S	Perfluoroheptane sulfonic acid (PFHpS) - PF7S	Perfluorooctane sulfonic acid (PFOS) - PF8S	Perfluorononane sulfonic acid (PFNS) - PF9S	Perfluorodecane sulfonic acid (PFDS) - PF10S
LC0001	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		
LC0002	PF01B	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;	LLE-LC-MS/MS;		
LC0003	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01B	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);
LC0005	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01B	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0010	PF01B		LLE-LC-MS/MS; DIN 38407-42		LLE-LC-MS/MS; DIN 38407-42		
LC0011	PF01B	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022		LC-MS/MS (prEN17892); prEN 17892:2022
LC0012	PF01B	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);
LC0013	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01B		LC-MS/MS direct;		LC-MS/MS direct;		LC-MS/MS direct;
LC0018	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0019	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0020	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42
LC0021	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;		SPE-LC-MS/MS;



LabCode	Sample	Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	Perfluorododecane sulfonic acid (PFDoS) - PF12S	Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	4:2 Fluorotelomer sulfonate (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)
LC0001	PF01B						
LC0002	PF01B						LLE-LC-MS/MS;
LC0003	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01B	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);	LC-MS/MS (offline enrichment);			
LC0005	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;	LC-MS/MS direct;
LC0006	PF01B				LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01B						LLE-LC-MS/MS; DIN 38407-42
LC0008	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;		
LC0009	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;			
LC0010	PF01B						
LC0011	PF01B	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022	LC-MS/MS (prEN17892); prEN 17892:2022			
LC0012	PF01B	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);	LC-MS/MS (large volume inj.);			LC-MS/MS (large volume inj.);
LC0013	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;		LC-MS/MS;	LC-MS/MS;
LC0015	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			LLE-LC-MS/MS; DIN 38407-42
LC0017	PF01B						
LC0018	PF01B					LC-MS/MS;	LC-MS/MS;
LC0019	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			
LC0020	PF01B	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42	LLE-LC-MS/MS; DIN 38407-42			
LC0021	PF01B				SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;

LabCode	Sample	8:2 Fluorotelomer sulfonate (8:2 FTS)	Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)
LC0001	PF01B				
LC0002	PF01B				
LC0003	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;
LC0004	PF01B				
LC0005	PF01B	LC-MS/MS direct;	LC-MS/MS direct;		LC-MS/MS direct;
LC0006	PF01B	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI	LC-MS/MS direct; ESI
LC0007	PF01B	LLE-LC-MS/MS; DIN 38407-42			
LC0008	PF01B		LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0009	PF01B				
LC0010	PF01B				
LC0011	PF01B				
LC0012	PF01B				
LC0013	PF01B	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;	LC-MS/MS direct;
LC0014	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0015	PF01B	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;	LC-MS/MS;
LC0016	PF01B				
LC0017	PF01B				
LC0018	PF01B	LC-MS/MS;			
LC0019	PF01B				
LC0020	PF01B				
LC0021	PF01B	SPE-LC-MS/MS;	SPE-LC-MS/MS;	SPE-LC-MS/MS;	