

Conditions

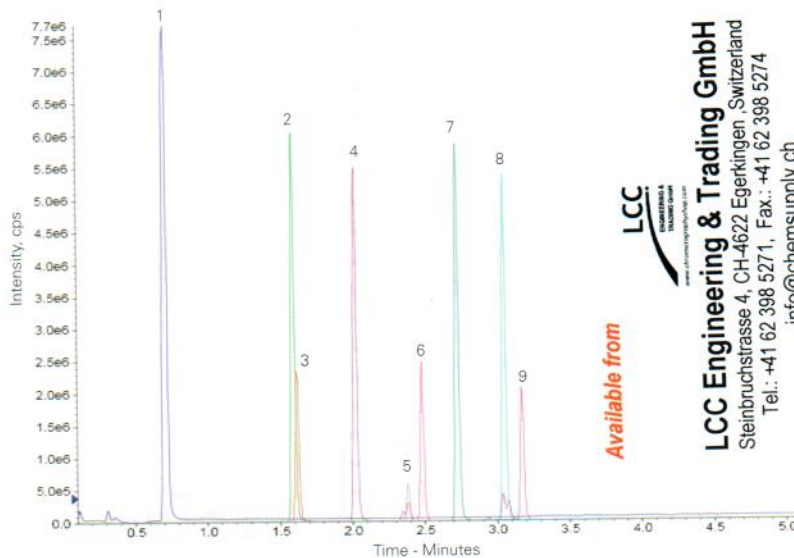
Column: ACE Excel 2 C18
Dimensions: 50 x 2.1 mm
Part Number: EXL-101-0502U
Mobile Phase: A: 2 mM ammonium acetate, 0.1% acetic acid/MeCN (95:5 v/v)
 B: 2 mM ammonium acetate, 0.1% acetic acid/MeCN (5:95 v/v)
Gradient:

Time (mins)	%B
0.0	25
0.5	25
5.5	95
7.5	95
8.0	25
10.0	25

Flow Rate: 0.5 mL/min
Injection: 20 µL
Temperature: 40 °C
Detection: AB SCIEX triple quad 5500
 Negative ESI MRM
 Source temperature: 450 °C
 IonSpray voltage: -2400 V

Analytes

- | | | |
|---|---|---|
| 1. Heptafluorobutyric acid
(m/z 212.9 → 168.9) | 4. Perfluoroheptanoic acid
(m/z 363 → 319) | 7. Perfluorononanoic acid
(m/z 463 → 419) |
| 2. Perfluorohexanoic acid
(m/z 313 → 268.9) | 5. Perfluorooctanoic acid
(m/z 413 → 368.9) | 8. Perfluorodecanoic acid
(m/z 513 → 469) |
| 3. Perfluorobutanesulfonic acid
(m/z 299 → 79.9) | 6. Perfluorohexanesulfonic acid
(m/z 399 → 80) | 9. Perfluorooctanesulfonic acid
(m/z 499 → 80) |



Available from
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Perfluoroalkyl Substances by Ion-Pairing LC-MS/MS

Conditions

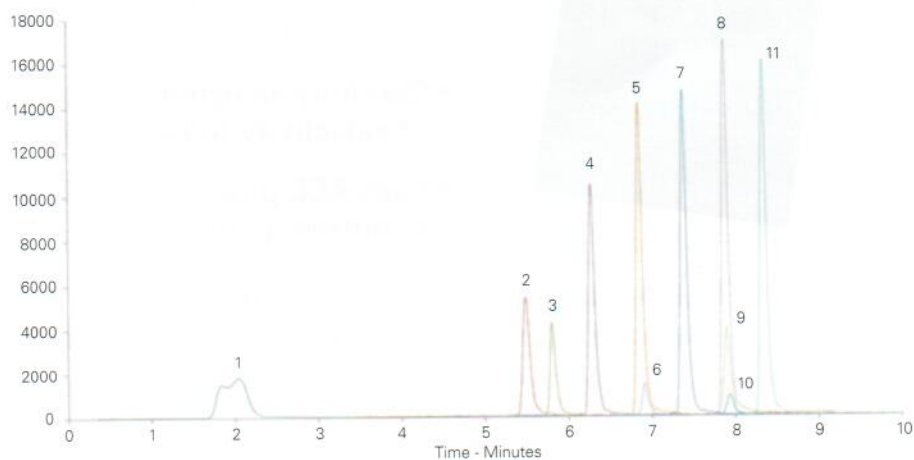
Column: ACE UltraCore 2.5 SuperC18
Dimensions: 50 x 2.1 mm
Part Number: CORE-25A-0502U
Mobile Phase: A: 2 mM ammonium acetate + 5 mM 1-methylpiperidine in MeOH/H₂O (5:95 v/v)
 B: 2 mM ammonium acetate + 5 mM 1-methylpiperidine in MeOH/H₂O (95:5 v/v)
Gradient:

Time (mins)	%B
0.0	10
0.3	10
1.0	20
1.5	50
5.0	80
10.0	80
13.0	100
16.0	100

Flow Rate: 0.3 mL/min
Injection: 5 µL
Temperature: 35 °C
Detection: Agilent 6430 triple quad MS
 ESI in negative ion mode
 Capillary voltage: 3000 V
 Nebulizer pressure: 50 psi

Analytes

- | | | | |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| 1. PFBA
(m/z 213 → 169) | 4. PFHxA
(m/z 313 → 269) | 7. PFOA
(m/z 413 → 369) | 10. FOSA
(m/z 498 → 498) |
| 2. PFPeA
(m/z 263 → 219) | 5. PFHpA
(m/z 363 → 319) | 8. PFNA
(m/z 463 → 419) | 11. PFDA
(m/z 513 → 469) |
| 3. PFBS
(m/z 299 → 99) | 6. PFHxS
(m/z 399 → 99) | 9. PFOS
(m/z 499 → 99) | (m/z 513 → 269) |
| (m/z 299 → 80) | (m/z 399 → 80) | (m/z 499 → 80) | |



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