

Perfluoroalkyl Substances by Ion-Pairing LC-MS/MS

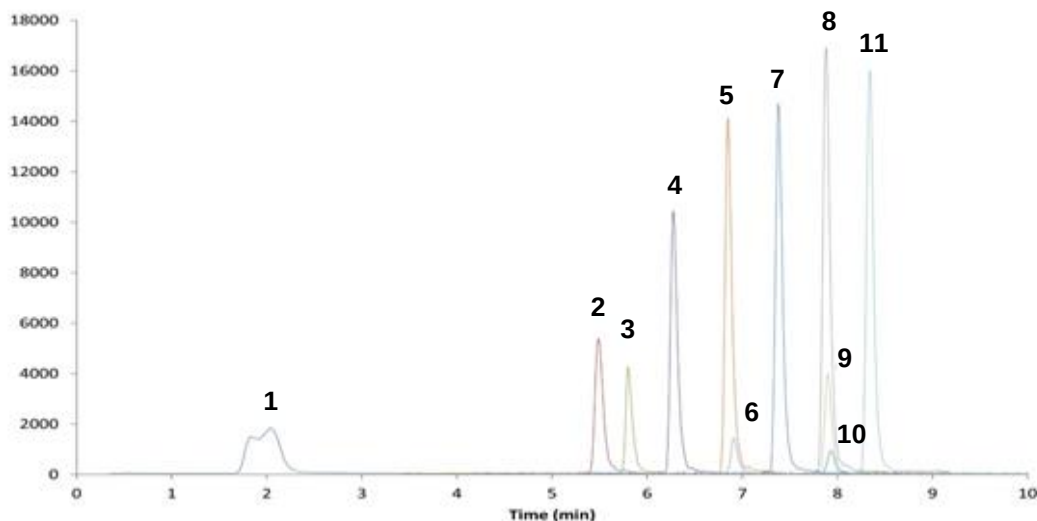
Application #AN2560

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)

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



1. PFBA
(*m/z* 213 → 169)
2. PFPeA
(*m/z* 263 → 219)
(*m/z* 263 → 175)
3. PFBS
(*m/z* 299 → 99)
(*m/z* 299 → 80)
4. PFHxA
(*m/z* 313 → 269)
(*m/z* 313 → 119)
5. PFHpA
(*m/z* 363 → 319)
(*m/z* 363 → 169)
6. PFHxS
(*m/z* 399 → 99)
(*m/z* 399 → 80)
7. PFOA
(*m/z* 413 → 369)
(*m/z* 413 → 169)
8. PFNA
(*m/z* 463 → 419)
(*m/z* 463 → 169)
9. PFOS
(*m/z* 499 → 99)
(*m/z* 499 → 80)
10. FOSA
(*m/z* 498 → 498)
(*m/z* 498 → 78)
11. PFDA
(*m/z* 513 → 469)
(*m/z* 513 → 269)

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