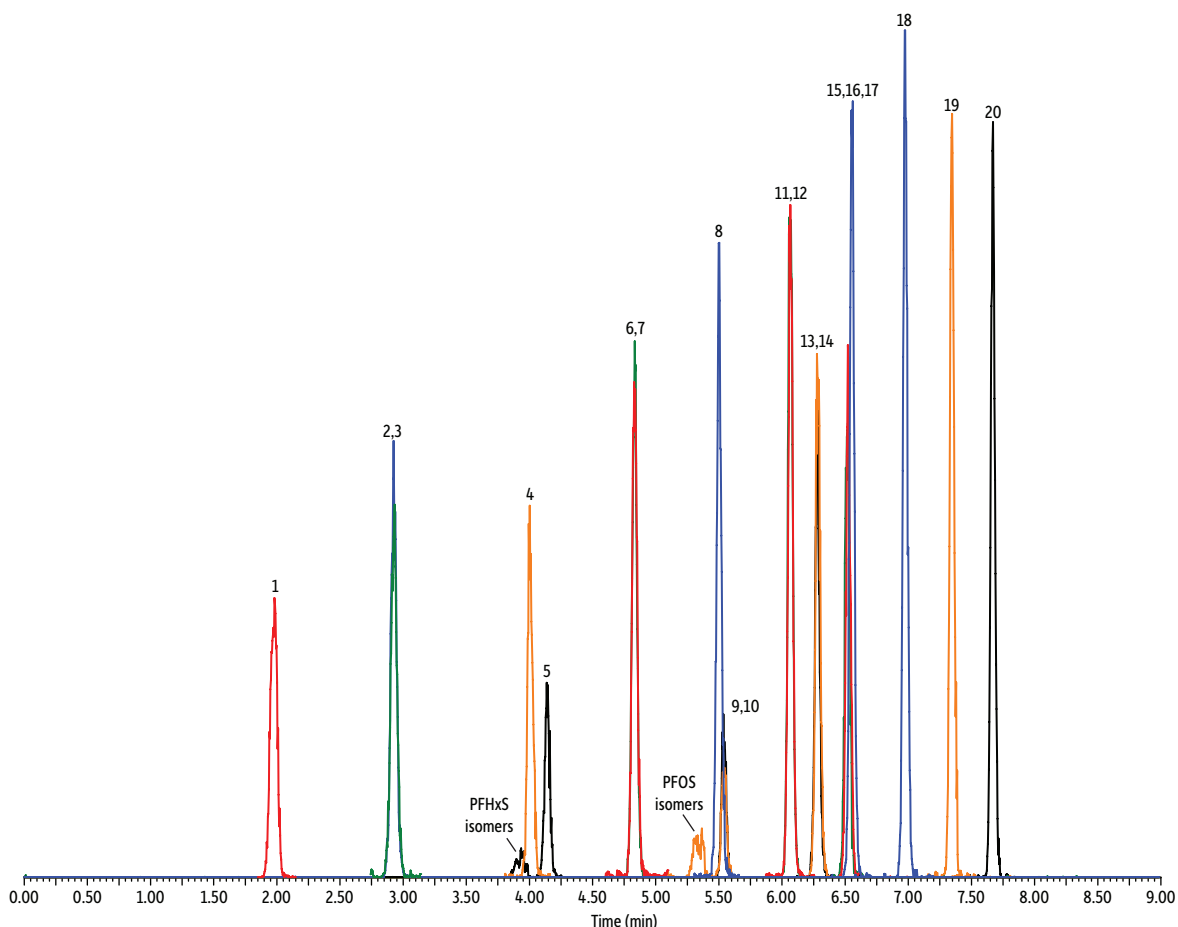


Perfluorinated Alkyl Acids on Raptor C18 by LC-MS/MS for EPA Method 537



LC_EV0548

Peaks	tr (min)	Conc. (ng/mL)	Precursor Ion	Product Ion	Column
1. Perfluorobutanesulfonic acid (PFBS)	1.98	10	299.10	79.99	Raptor C18 (cat.# 9304552)
2. Perfluoro- <i>n</i> -[1,2- ¹³ C ₂]hexanoic acid (¹³ C-PFHxA)	2.92	10	315.13	270.13	Dimensions: 50 mm x 2.1 mm ID
3. Perfluorohexanoic acid (PFHxA)	2.93	10	313.10	269.12	Particle Size: 5 μm
4. Perfluoroheptanoic acid (PFHpA)	4.00	5	363.16	319.09	Pore Size: 90 Å
5. Perfluorohexanesulfonic acid (PFHxS)	4.14	10	399.13	79.98	Temp.: 40 °C
6. Perfluoro-[1,2- ¹³ C ₂]octanoic acid (¹³ C-PFOA)	4.83	5	415.13	370.10	Sample
7. Perfluorooctanoic acid (PFOA)	4.83	5	413.16	369.10	Diluent: 96:4 Methanol:water
8. Perfluorononanoic acid (PFNA)	5.50	5	463.16	419.19	Conc.: 5–10 ng/mL
9. Perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonic acid (¹³ C-PFOS)	5.54	5	503.13	79.98	Inj. Vol.: 2 μL
10. Perfluorooctanesulfonic acid (PFOS)	5.54	10	499.17	79.98	Mobile Phase
11. Perfluoro- <i>n</i> -[1,2- ¹³ C ₂]decanoic acid (¹³ C-PFDA)	6.06	5	515.17	470.17	A: 5 mM ammonium acetate in water
12. Perfluorodecanoic acid (PFDA)	6.07	5	513.17	469.16	B: Methanol
13. N-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-NMeFOSAA)	6.28	5	573.23	419.15	Time (min) Flow (mL/min) %A %B
14. N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.28	5	570.20	419.17	0.00 0.4 75 25
15. N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-NEtFOSAA)	6.52	5	589.27	419.11	8.00 0.4 15 85
16. N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.52	5	584.20	419.18	8.01 0.4 75 25
17. Perfluoroundecanoic acid (PFUnA)	6.56	5	563.23	519.24	9.00 0.4 75 25
18. Perfluorododecanoic acid (PFDoA)	6.98	5	613.23	569.19	Detector MS/MS
19. Perfluorotridecanoic acid (PFTrDA)	7.35	5	663.23	619.21	Ion Source: Electrospray
20. Perfluorotetradecanoic acid (PFTA)	7.67	5	713.23	669.23	Ion Mode: ESI-
					Mode: MRM
					Instrument Waters ACQUITY
					Notes Want even better performance when analyzing metal-sensitive compounds? Check out Inert LC columns at www.restek.com/inert .