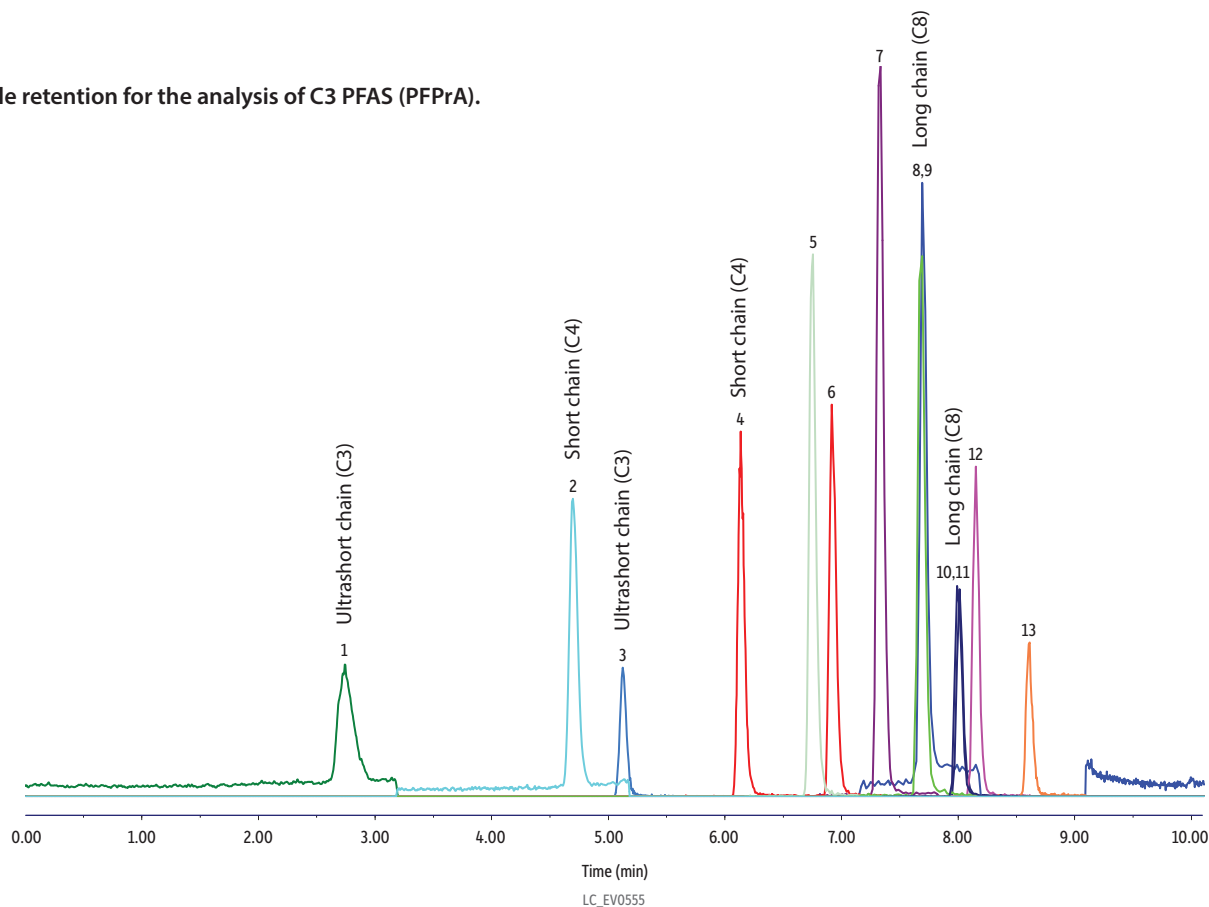


Ultra-short Chain, Legacy, and Alternative PFAS on Raptor C18 in Reagent Water

- Suitable retention for the analysis of C3 PFAS (PFPrA).



Peaks	t_R (min)	Conc. (ng/L)	Precursor Ion	Product Ion
1. Perfluoropropanoic acid (PFPrA)	2.74	80	162.9	119.0
2. Perfluorobutanoic acid (PFBA)	4.69	80	212.8	169.0
3. Perfluoropropanesulfonic acid (PFPrS)	5.13	80	248.8	79.6
4. Perfluorobutanesulfonic acid (PFBS)	6.14	80	298.8	79.9
5. Perfluoro- <i>n</i> -[1,2- $^{13}C_2$]hexanoic acid ($^{13}C_2$ -PFHxA)	6.75	50	314.9	270.0
6. Hexafluoropropylene oxide-dimer acid (HFPO-DA)	6.92	80	285.0	168.9
7. Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA)	7.33	80	376.9	250.7
8. Perfluorooctanoic acid (PFOA)	7.70	80	413.1	368.9
9. Perfluoro-[1,2- $^{13}C_2$]octanoic acid ($^{13}C_2$ -PFOA)	7.70	50	415.0	370.0
10. Perfluorooctanesulfonic acid (PFOS)	8.01	80	498.8	80.0
11. Perfluoro-[1,2,3,4- $^{13}C_4$]octanesulfonic acid ($^{13}C_4$ -PFOS)	8.01	50	503.0	80.0
12. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS)	8.15	80	530.8	350.7
13. 11-Chloroicosadecafluoro-3-oxanonane-1-sulfonate (11Cl-PF3OUdS)	8.61	80	630.7	451.0

Column Raptor C18 (cat.# 9304A1E)
 Dimensions: 100 mm x 3 mm ID
 Particle Size: 2.7 μ m
 Guard Column: 90 Å
 Temp.: 40 °C
Sample
 Conc.: 80 ppt
 Inj. Vol.: 10 μ L
Mobile Phase
 A: Water, 5 mM ammonium acetate
 B: Methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.25	80	20
7.00	0.25	5	95
9.00	0.25	5	95
9.01	0.25	80	20
11.0	0.25	80	20

Detector MS/MS
 Ion Mode: ESI-
 Mode: MRM
Instrument UHPLC
Notes

A PFAS delay column (cat.# 27854) was installed between the pump mixer and the injector.

In a polypropylene vial, 250 μ L of reagent water (fortified at 80 ppt) was mixed with 250 μ L of 40:60 reagent water:methanol and 5 μ L of internal standard solution (5 ng/mL of $^{13}C_2$ -PFHxA, $^{13}C_2$ -PFOA, $^{13}C_4$ -PFOS in methanol). The vial was capped with a polyethylene cap prior to analysis.