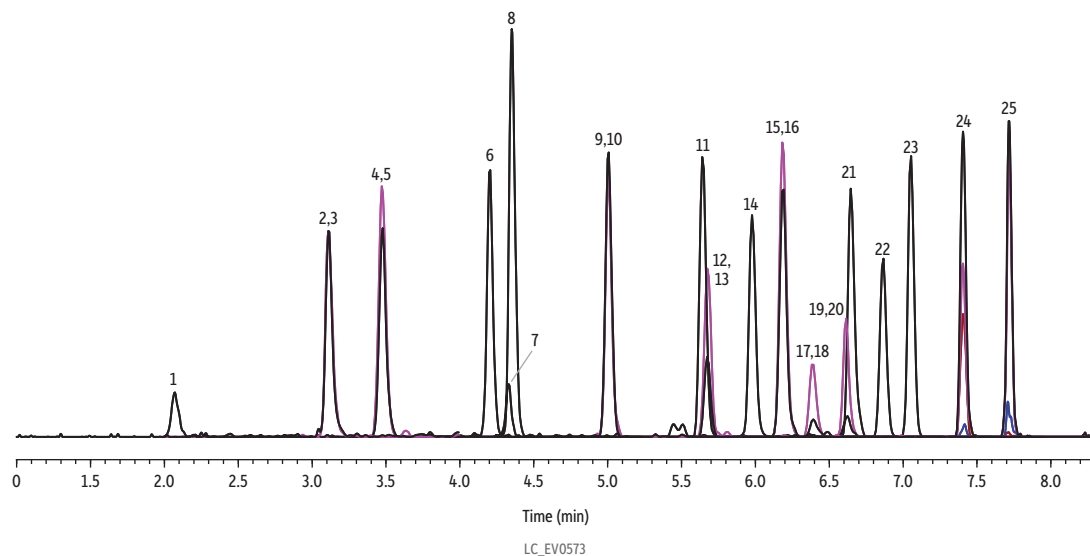


## Laboratory Fortified Blank (LFB) at Midrange (40 ppt) for EPA 537.1 on Raptor C18

- Excellent resolution of fluorochemicals in short total cycle times.
- Workflow meets EPA Method 537.1 requirements.
- Unique, robust Raptor C18 column design increases instrument uptime.



Peaks	tr (min)	Conc. (ng/L)	Precursor Ion	Product Ion	Column	Diluent	Conc.:	Inj. Vol:	Mobile Phase	A:	B:	Time (min)	Flow (mL/min)	%A	%B
1. Perfluorobutanesulfonic acid (PFBS)	2.08	40	299.0	80.0	Raptor C18 (cat.# 9304A52)	96:4 Methanol:water		2 µL	Water, 5 mM ammonium acetate	Methanol		0.00	0.4	70	30
2. Perfluoro- <i>n</i> -[1,2- <sup>13</sup> C <sub>2</sub> ]hexanoic acid ( <sup>13</sup> C <sub>2</sub> -PFHxA)	3.11	20	315.1	270.1	Dimensions: 50 mm x 2.1 mm ID	5-20 ng/mL in the final solution after sample preparation (equivalent to 20-80 ppt in laboratory reagent water sample prior to extraction)						8.00	0.4	10	90
3. Perfluorohexanoic acid (PFHxA)	3.11	40	313.2	269.0	Particle Size: 2.7 µm							8.01	0.4	70	30
4. Tetrafluoro-2-heptafluoropropoxy- <sup>13</sup> C <sub>3</sub> -propanoic acid ( <sup>13</sup> C <sub>3</sub> -HFPO-DA)	3.47	20	328.9	284.9	Pore Size: 90 Å							10.0	0.4	70	30
5. Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.47	40	328.9	284.9	Temp.: 40 °C										
6. Perfluorheptanoic acid (PFHpA)	4.19	40	363.2	319.2	Standard/Sample										
7. Perfluorhexanesulfonic acid (PFHxS)	4.33	40	399.2	79.9	Diluent:										
8. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.34	40	376.9	251.0	Conc.:										
9. Perfluoro-[1,2- <sup>13</sup> C <sub>2</sub> ]octanoic acid ( <sup>13</sup> C <sub>2</sub> -PFOA)	5.00	20	414.9	370.0	Inj. Vol:										
10. Perfluorooctanoic acid (PFOA)	5.00	40	413.1	369.1	Mobile Phase										
11. Perfluorononanoic acid (PFNA)	5.64	40	463.1	419.0	A:										
12. Perfluorooctanesulfonic acid (PFOS)	5.66	40	499.2	80.1	B:										
13. Perfluoro-1-[1,2,3,4- <sup>13</sup> C <sub>4</sub> ]octanesulfonic acid ( <sup>13</sup> C <sub>4</sub> -PFOS)	5.67	60	503.1	80.2	Detector										
14. 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	5.97	40	531.0	350.9	Ion Mode:										
15. Perfluoro- <i>n</i> -[1,2- <sup>13</sup> C <sub>2</sub> ]decanoic acid ( <sup>13</sup> C <sub>2</sub> -PFDA)	6.18	20	515.2	470.1	Mode:										
16. Perfluorodecanoic acid (PFDA)	6.18	40	512.9	468.9	Instrument										
17. N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	6.38	40	570.2	419.0	Sample Preparation										
18. N-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-N-MeFOSAA)	6.38	80	573.1	419.1	The sample was prepared using Resprep S-DVB SPE cartridges (cat.# 28937) mounted on a Resprep vacuum manifold (cat.# 29298-VM) following the procedure in U.S. EPA Method 537.1. While internal standard concentrations varied, all target analytes were fortified at 40 ppt.										
19. N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-N-EtFOSAA)	6.61	80	589.2	419.1	A PFAS delay column (cat.# 27854) was installed before the injector.										
20. N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	6.62	40	583.8	418.9											
21. Perfluoroundecanoic acid (PFUnA)	6.64	40	563.2	519.1											
22. 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.86	40	630.8	451.1											
23. Perfluorododecanoic acid (PFDoA)	7.05	40	613.1	569.1											
24. Perfluorotridecanoic acid (PFTriDA)	7.40	40	663.0	619.2											
25. Perfluorotetradecanoic acid (PFTA)	7.71	40	713.1	669.0											