

Sample Preparation Product

Air Sampler for PFAS FM4



PFAS that can be collected using FM4

| | Group | | Compounds |
|---------------------|---|--------|---|
| Ionic PFAS | Perfluoroalkyl sulfonic acid | PFSAs | PFEtS, PFPrS, PFBS, PFHxS, PFOS, PFDS |
| | Perfluoroalkyl carboxylic acid | PFCAs | PFPrA (C3)- PFTeDA (C14), PFHxDA, PFOcDA |
| | Fluorotelomer sulfonic acid | FTSAs | 6:2 FTSA, 8:2 FTSA |
| | Fluorotelomer unsaturated carboxylic acid | FTUCAs | 8:2 FTUCA, 10:2 FTUCA |
| | Perfluorooctanoic sulfonamide acetic acid | FOSAAs | N-MeFOSAA, N-EtFOSAA |
| Neutral PFAS | Perfluorooctanoic sulfonamide | FOSAs | FOSA, N-MeFOSA, N-EtFOSA |
| | Perfluorooctanoic sulfonamide ethanol | FOSEs | N-MeFOSE, N-EtFOSE |
| | Fluorotelomer alcohol | FTOHs | 4:2 FTOH, 4:3 FTOH, 6:2 FTOH, 6:3 FTOH, and 8:2 FTOH, 8:3 FTOH, 10:2 FTOH |
| | Fluorotelomer iodine | FTIs | 6:2 FTI, 8:2 FTI, 10:2 FTI) |
| | Fluorinated iodine alkane | FIAs | PFDoI |
| | Fluorinated diiodoalkane | FDIAs | PFBuDiI, PFHxDiI, PFODiI |
| | Fluorobromine-containing compounds | | BTFBB (C8H3BrF6), BPFB (C6BrF5) |



Comprehensive Sampling Device

Both a particulate substance and a gaseous substance can be simultaneously collected using one compact sampler. Because it is possible to evaluate the collection amount for each material, comprehensive PFAS evaluation is possible.

Capable of Collecting Gaseous PFAS (FTOH, etc.)

The collection of gaseous PFAS in the air, which are difficult to collect, is now possible using the newly activated carbon desorption material.

Excellent Recovery Rate

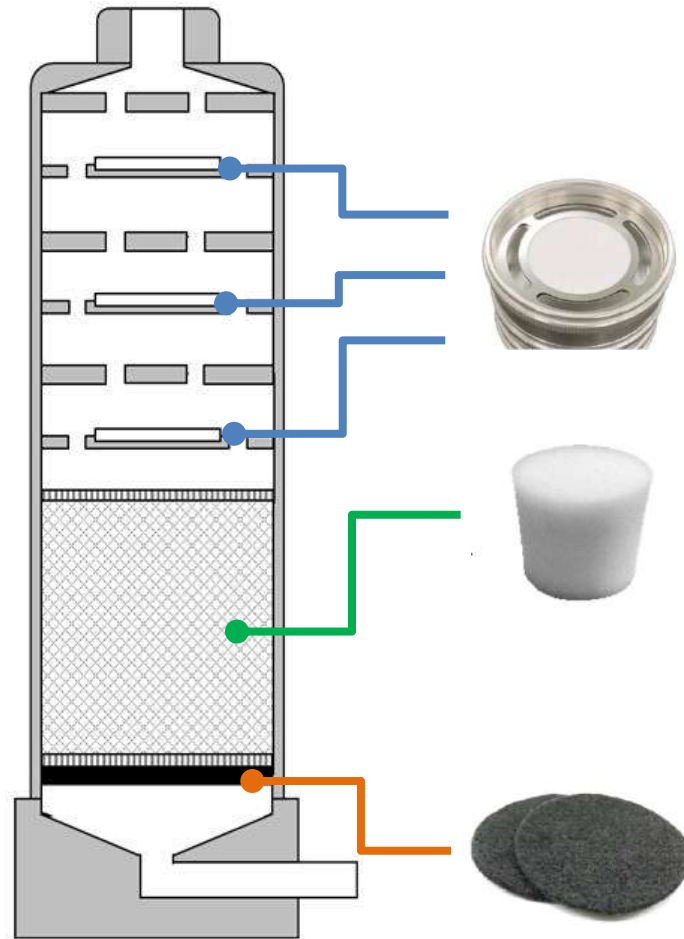
We achieved recovery rates for various PFAS.

Compact and Portable

A lightweight and compact air sampler that is easy to carry and does not have a large footprint.

Product composition and collection target

Cascade Impactor



Quartz Fiber Filter (QFF) × 3

Stage 1: > 10 μm

Stage 2: 2.5 - 10 μm

Stage 3: 1.0 - 2.5 μm

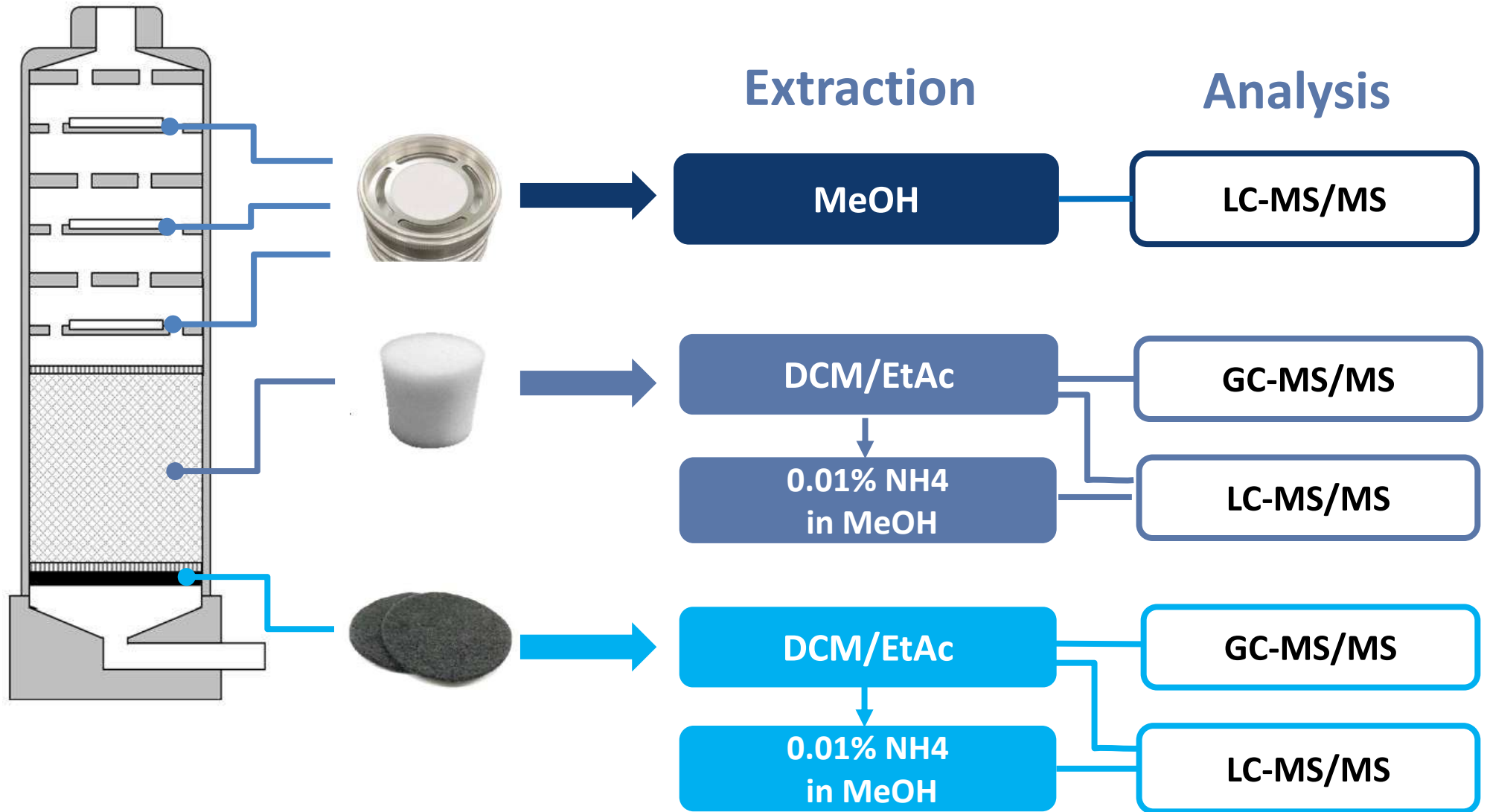
Polyurethane Foam (PUF)

Activated Carbon Fiber Disk (GAIAC) × 2

Particle

Gas

Extraction and analysis method

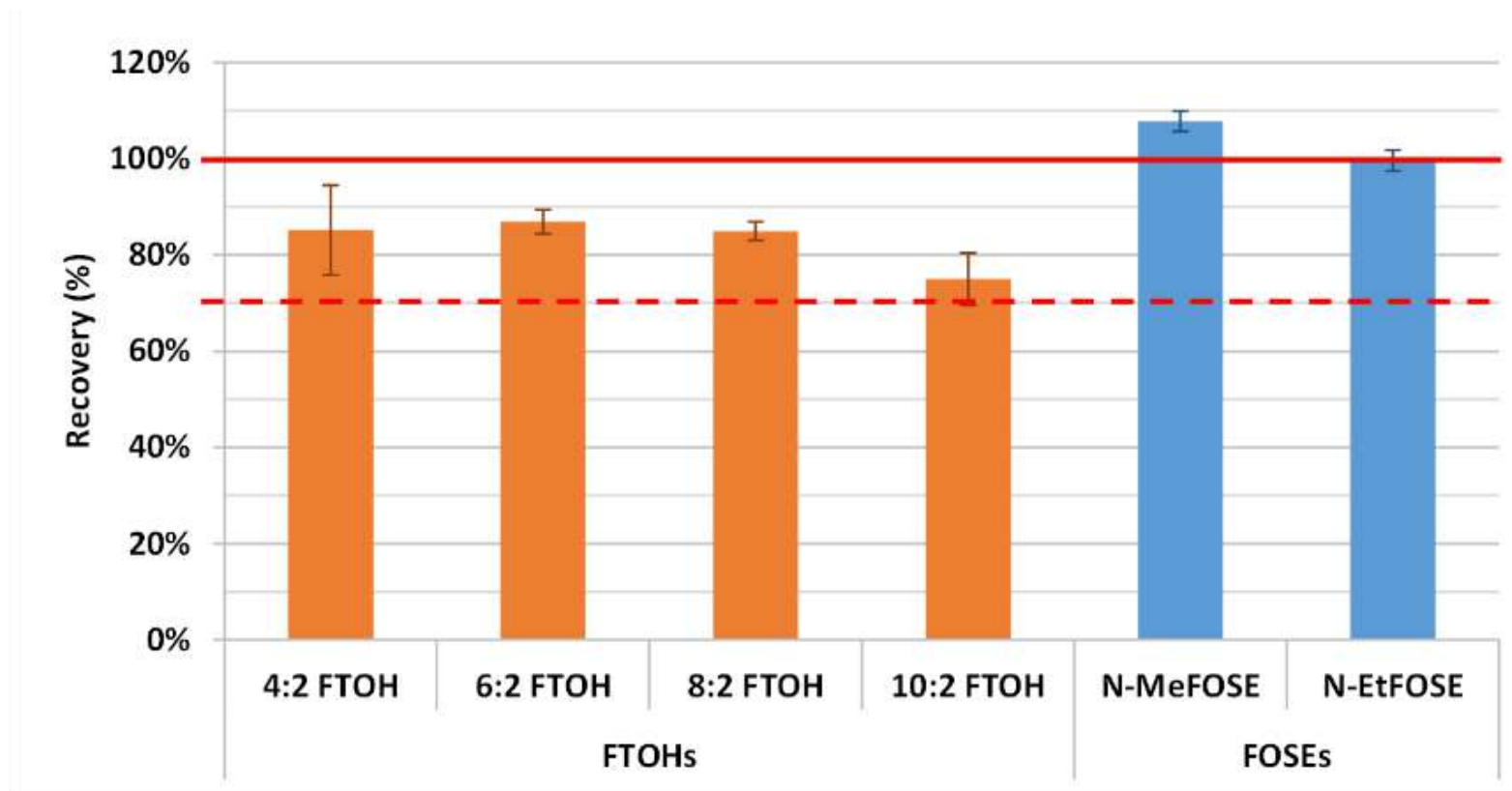




A newly developed new functional activated carbon adsorbent (GAIAC) is used for obtaining gaseous PFAS.

Conventional activated carbons have complicated pores; although they can be adsorbed, they cannot be fully eluted. GAIAC is an innovative sorbent composed of synthetic resin fiber with optimized pore and surface activity, which enables the collection and elution of PFAS.

Excellent recovery for the most volatile 4:2 FTOH



■ GAIAC ■ PUF | Standard deviation

PFAS That Can Be Collected and Extracted with FM4



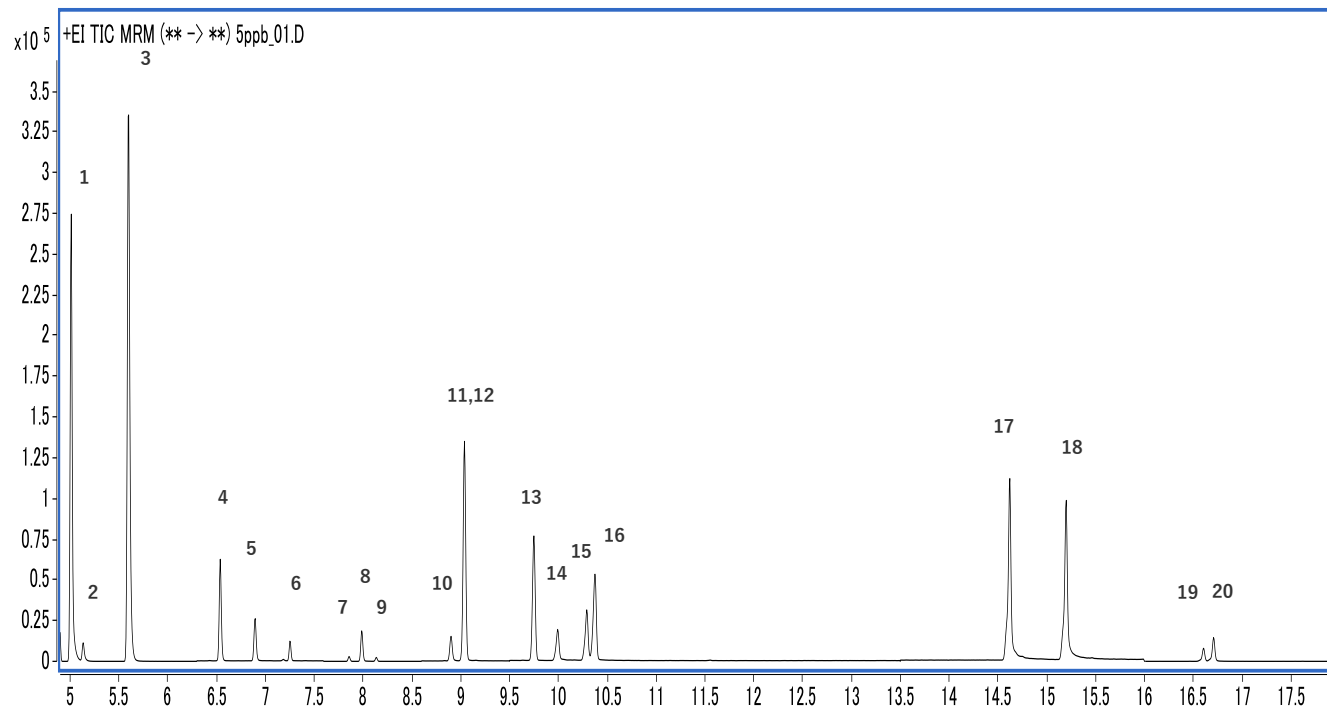
| No. | Compounds | Abbreviation | CAS RN | LC-MS/MS | GC-MS/MS |
|-----|--|--------------------------|-------------|----------|----------|
| 1 | Perfluorobutanoic acid | PFBA | 375-22-4 | x | |
| 2 | Perfluoropentanoic acid | PFPeA | 2706-90-3 | x | |
| 3 | Perfluorohexanoic acid | PFHxA | 307-24-4 | x | |
| 4 | Perfluoroheptanoic acid | PFHpA | 375-85-9 | x | |
| 5 | Perfluorooctanoic acid | PFOA | 335-67-1 | x | |
| 6 | Perfluorononanoic acid | PFNA | 375-95-1 | x | |
| 7 | Perfluorodecanoic acid | PFDA | 335-76-2 | x | |
| 8 | Perfluoroundecanoic acid | PFUnA | 2058-94-8 | x | |
| 9 | Perfluorododecanoic acid | PFDoA | 307-55-1 | x | |
| 10 | Perfluorotridecanoic acid | PFTTrDA | 72629-94-8 | x | |
| 11 | Perfluorotetradecanoic acid | PFTTeDA | 376-06-7 | x | |
| 12 | Perfluoro-n-hexadecanoic acid | PFHxDA | 67905-19-5 | x | |
| 13 | Perfluoro-n-octadecanoic acid | PFOcDA (PFODA) | 16517-11-6 | x | |
| 14 | Perfluorobutanesulfonic acid | PFBS | 375-73-5 | x | |
| 15 | Perfluorohexanesulfonic acid | PFHxS | 355-46-4 | x | |
| 16 | Perfluoroheptanesulfonic acid | PFHpS | 375-92-8 | x | |
| 17 | Perfluorooctanesulfonic acid | PFOS | 1763-23-1 | x | |
| 18 | Perfluorodecanesulfonic acid | PFDS | 335-77-3 | x | |
| 19 | Perfluorooctanesulfonamide | FOSA | 754-91-6 | x | |
| 20 | N-ethylperfluoro-1-octanesulfonamide | NEtFOSA | 4151-50-2 | x | x |
| 21 | n-methylperfluoro-1-octanesulfonamide | NMeFOSA | 31506-32-8 | x | x |
| 22 | N-methylperfluoro-1-octanesulfonamidoacetic acid | NMeFOSAA | 2355-31-9 | x | |
| 23 | N-ethylperfluoro-1-octanesulfonamidoacetic acid | NEtFOSAA | 2991-50-6 | x | |
| 24 | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol | NMeFOSE | 24448-09-7 | | x |
| 25 | 2-(N-ethylperfluoro-1-octanesulfonamide)-ethanol | NEtFOSE | 1691-99-2 | | x |
| 26 | 6:2 Fluorotelomer sulfonic acid | 6:2FTS | 27619-97-2 | x | |
| 27 | 8:2 Fluorotelomer sulfonic acid | 8:2FTS | 39108-34-4 | x | |
| 28 | 4,8-Dioxa-3H-perfluorononanoic acid | ADONA (DONA) | 919005-14-4 | x | |
| 29 | Hexafluoropropylene oxide dimer acid (GenX) | HFPO-DA | 13252-13-6 | x | |
| 30 | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 9Cl-PF3ONS (F-53B Major) | 756426-58-1 | x | |

| No. | Compounds | Abbreviation | CAS RN | LC-MS/MS | GC-MS/MS |
|-----|---|-------------------|------------|----------|----------|
| 31 | 8:2 Fluorotelomer unsaturated carboxylic acid | FOUEA (8:2 FTUCA) | 70887-84-2 | x | |
| 32 | 8:2 Polyfluoroalkyl phosphate diester | 8:2 diPAP | 678-41-1 | x | |
| 33 | 2-Perfluorobutyl ethanol (4:2) FBET | 4:2 FTOH | | | x |
| 34 | 2-Perfluorohexyl ethanol (6:2) FHET | 6:2 FTOH | | | x |
| 35 | 2-Perfluorooctyl ethanol (8:2) FOET | 8:2 FTOH | | | x |
| 36 | 2-Perfluorodecyl ethanol(10:2) FDET | 10:2 FTOH | | | x |
| 37 | Pentafluoroethanesulfonic acid | PFEtS | 354-88-1 | x | |
| 38 | Sodium prefluoro-1-propanesulfanate | PFPrS | | x | |
| 39 | 2,2,3,3,3-Pentafluoropropionic acid | PFPrA | 422-64-0 | x | |
| 40 | 2H-perfluoro-2-dodecenoic acid (FDUEA) | 10:2FTUCA | | x | |
| 41 | 4,4,5,5,6,6,7,7,7-Nonafluoro-1-heptanol | 4:3 FTOH | 83310-97-8 | | x |
| 42 | 1H,1H,2H,2H,3H,3H-Tridecafluoro-1-nonanol | 6:3 FTOH | 80806-68-4 | | x |
| 43 | 3-(Perfluorooctyl)propanol | 8:3 FTOH | 1651-41-8 | | x |
| 44 | 1H,1H,2H,2H-Perfluorooctyl iodide | 6:2FTI | 2043-57-4 | | x |
| 45 | 1H,1H,2H,2H-Perfluorodecyl iodide | 8:2FTI | 2043-53-0 | | x |
| 46 | 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-Henicosafuoro-12-iodododecane | 10:2FTI | 2043-54-1 | | x |
| 47 | Pentacosafuoro-1-iodododecane | PFDoI | 307-60-8 | | x |
| 48 | Octafluoro-1,4-diiodobutane | PFBUdI | 375-50-8 | | x |
| 49 | Perfluoro-1,6-diiodohexane | PFHxDI | 375-80-4 | | x |
| 50 | Hexadecafluoro-1,8-diiodooctane | PFODI | 335-70-6 | | x |
| 51 | 1,3-Bis(trifluoromethyl)-5-bromobenzene | BTFBB | 328-70-1 | | x |
| 52 | Bromopentafluorobenzene | BPFBB | 344-04-7 | | x |

* Compounds that have been confirmed as of March 2022

Analyses of Neutral (Volatile) PFAS using GC-MS/MS

Analytical Conditions and MRM Chromatogram



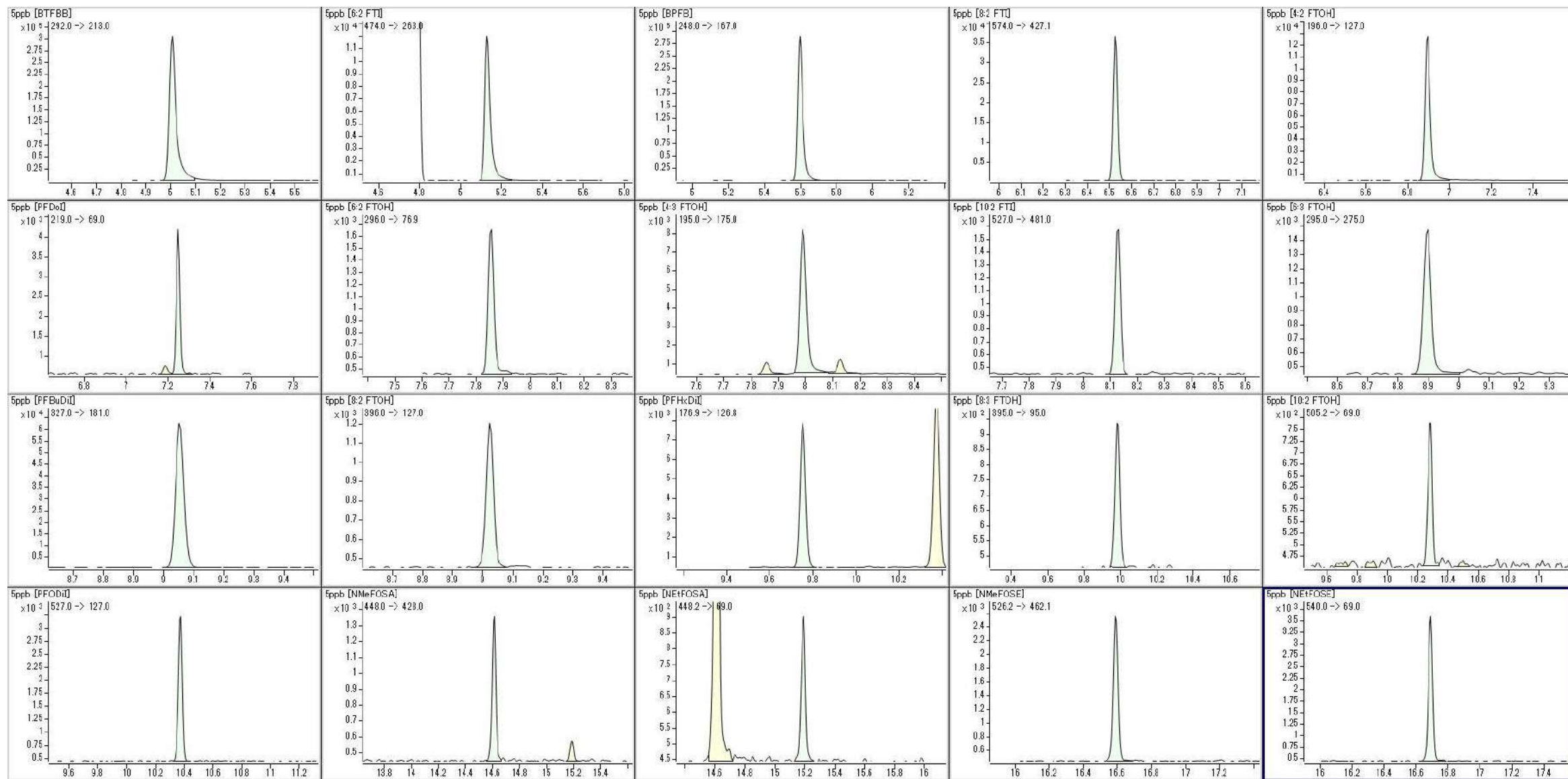
| | | | |
|-------------------------|--|-----------|------------|
| System | 8890/7010B Triple quadrupole GC/MS (Agilent Technologies, Inc) | | |
| Column | InertCap Pure-WAX (GL Science Inc.) 0.25 mm I.D. × 30 m, df = 0.25 μm | | |
| Injection | Splitless | | |
| Injection Vol. | 2 μL, 200°C | | |
| Carrier Gas | He, 1.2 mL / min | | |
| Column Temp. | Rate (°C / min) | Temp (°C) | hold (min) |
| | 0 | 40 | 2 |
| | 10 | 200 | 0 |
| | 20 | 250 | 20 |
| Ion Source temp. | 320 °C | | |
| Ion mode | EI | | |
| Mode | MRM | | |

| No. | Compounds | R.T.(min) | No. | Compounds | R.T.(min) | No. | Compounds | R.T.(min) | No. | Compounds | R.T.(min) |
|-----|-----------|-----------|-----|-----------|-----------|-----|-----------|-----------|-----|-----------|-----------|
| 1 | BTFBB | 5.00 | 6 | PFDol | 7.25 | 11 | 6:3 FTOH | 8.90 | 16 | 10:2 FTOH | 10.28 |
| 2 | 6:2FTI | 5.13 | 7 | 6:2 FTOH | 7.86 | 12 | 8:2 FTOH | 9.02 | 17 | NEtFOSA | 14.61 |
| 3 | BPFB | 5.60 | 8 | 4:3 FTOH | 7.99 | 13 | PFHxDil | 9.75 | 18 | NMeFOSA | 15.19 |
| 4 | 8:2FTI | 6.53 | 9 | 10:2FTI | 8.13 | 14 | 8:3 FTOH | 9.98 | 19 | NMeFOSE | 16.59 |
| 5 | 4:2 FTOH | 6.90 | 10 | PFBuDil | 9.05 | 15 | PFODil | 10.38 | 20 | NEtFOSE | 16.69 |

Transitions and Collision Energy

| No. | Compounds | Abbreviation | R.T. (min) | Transition 1 | CE | Transition 2 | CE |
|-----|---|--------------|------------|--------------|----|--------------|----|
| 1 | 1,3-Bis(trifluoromethyl)-5-bromobenzene | BTFBB | 5.00 | 292>213 | 26 | 294>213 | 18 |
| 2 | 1 H,1H,2H,2H-Perfluorooctyl iodide | 6:2FTI | 5.13 | 474>263 | 28 | 327>181 | 16 |
| 3 | Bromopentafluorobenzene | BPFB | 5.60 | 248>167 | 24 | 248>117 | 22 |
| 4 | 1H,1H,2H,2H-Perfluorodecyl iodide | 8:2FTI | 6.53 | 574>427 | 8 | 547>313 | 20 |
| 5 | 1H,1H,2H,2H-Perfluoro-1-hexanol | 4:2 FTOH | 6.90 | 196>127 | 10 | 196>77 | 26 |
| 6 | Pentacosafuoro-1-iodododecane | PFDol | 7.25 | 219>69 | 28 | 169>69 | 16 |
| 7 | 1H,1H,2H,2H-Perfluoro-1-octanol | 6:2 FTOH | 7.86 | 296>77 | 26 | 344>95 | 24 |
| 8 | 3-(Perfluorobutyl)propanol | 4:3 FTOH | 7.99 | 195>175 | 8 | 195>95 | 24 |
| 9 | 1H,1H,2H,2H-Perfluorododecyl iodide | 10:2FTI | 8.13 | 527>481 | 8 | 527>145 | 10 |
| 10 | Octafluoro-1,4-diiodobutane | 6:3 FTOH | 8.90 | 295>275 | 8 | 295>181 | 24 |
| 11 | 3-(Perfluorohexyl)propanol | 8:2 FTOH | 9.02 | 396>127 | 12 | 131>69 | 22 |
| 12 | 1H,1H,2H,2H-Perfluoro-1-decanol | PFBuDil | 9.05 | 327>181 | 8 | 327>69 | 60 |
| 13 | Perfluoro-1,6-diiodohexane | PFHxDil | 9.75 | 177>127 | 28 | 281>181 | 22 |
| 14 | 3-(Perfluorooctyl)propanol | 8:3 FTOH | 9.98 | 395>95 | 12 | 131>69 | 20 |
| 15 | Hexadecafluoro-1,8-diiodooctane | 10:2 FTOH | 10.28 | 505>69 | 60 | 131>69 | 60 |
| 16 | 1H,1H,2H,2H-Perfluoro-1-dodecanol | PFODil | 10.38 | 527>127 | 14 | 381>69 | 60 |
| 17 | N-ethylperfluoro-1-octanesulfonamide | NEtFOSA | 14.61 | 448>69 | 60 | 131>69 | 28 |
| 18 | n-methylperfluoro-1-octanesulfonamide | NMeFOSA | 15.19 | 448>428 | 12 | 131>69 | 28 |
| 19 | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol | NMeFOSE | 16.59 | 526>462 | 18 | 462>93 | 28 |
| 20 | 2-(N-ethylperfluoro-1-octanesulfonamide)-ethanol | NEtFOSE | 16.69 | 540>69 | 54 | 540>448 | 20 |

MRM Chromatogram (5 ng/mL)



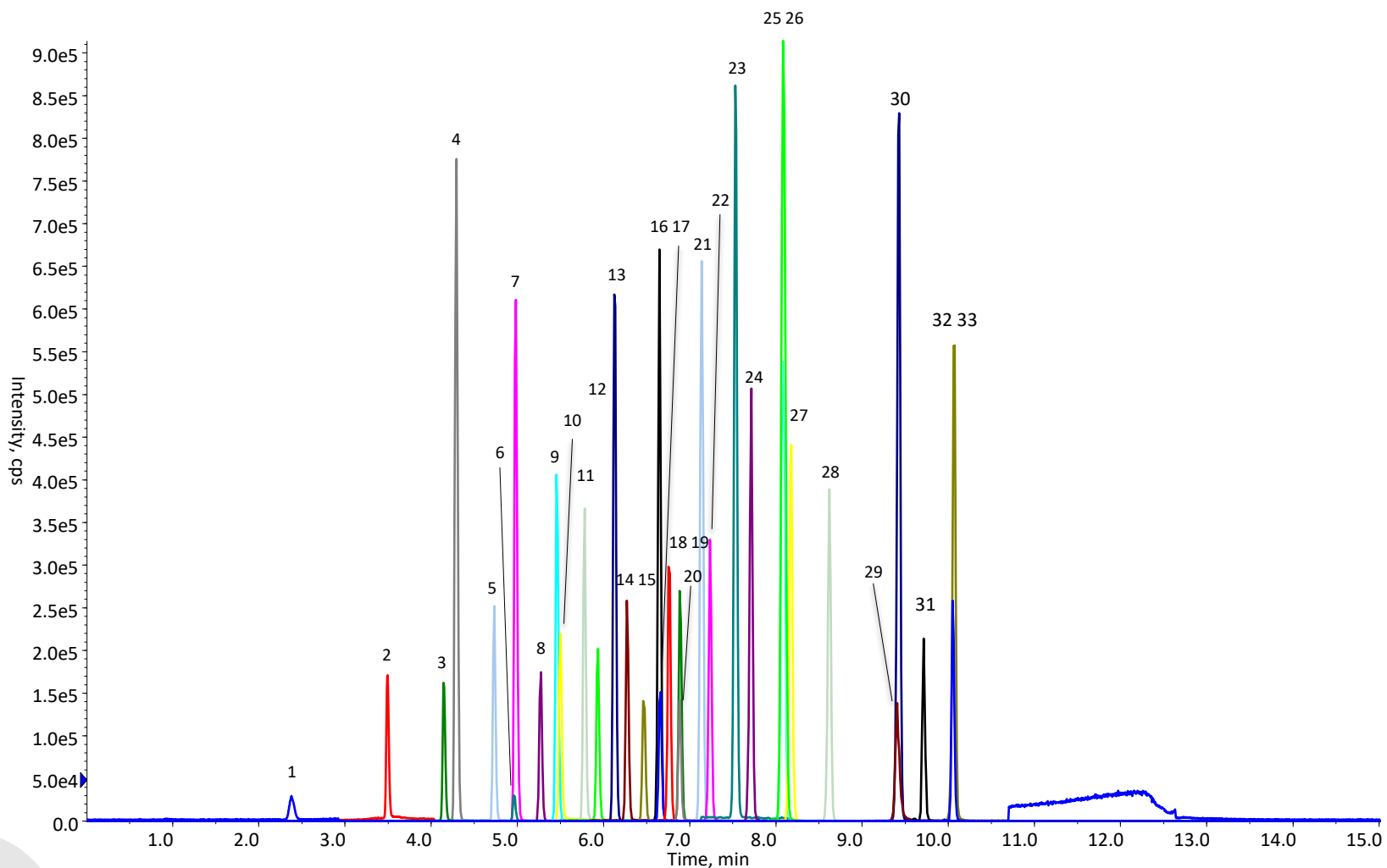
Analyses of ionic PFAS using LC-MS/MS

Analytical Conditions

| | | | | | | | |
|-------------------------|--|----|-----|-----|-----|------|----|
| System | Exion (SCIEX) | | | | | | |
| Column | InertSustain AQ-C18 (GL Sciences Inc.) 1.9 µm, 2.1 mm I.D. × 100 mm | | | | | | |
| Delay Column | Delay Column for PFAS 3.0 × 30 mm (GL Science Inc.) | | | | | | |
| Mobile Phase (A) | 10 mmol/L aqueous ammonium acetate solution | | | | | | |
| Mobile Phase (B) | Acetonitrile | | | | | | |
| Gradient | Time (min) | 0 | 1.5 | 10 | 11 | 11.1 | 15 |
| | A % | 90 | 70 | 0 | 0 | 90 | 90 |
| | B % | 10 | 30 | 100 | 100 | 10 | 10 |
| Flow Rate | 0.3 mL/min | | | | | | |
| Injection Volume | 2 µL | | | | | | |
| Column Temp. | 40 °C | | | | | | |
| Sample Cooler | 10 °C | | | | | | |

| | |
|-------------------------------|---------------------|
| System | QTRAP 6500+ (SCIEX) |
| Ion Source | ESI |
| Mode | MRM |
| Polarity | Negative |
| Curtain Gas (CUR) | 40 |
| Collision Gas (CAD) | 12 |
| Ion Spray Voltage (IS) | -4500 |
| Temperature (TEM) | 300 °C |
| Ion Source Gas1 | 50 |
| Ion Source Gas2 | 30 |

MRM Chromatogram

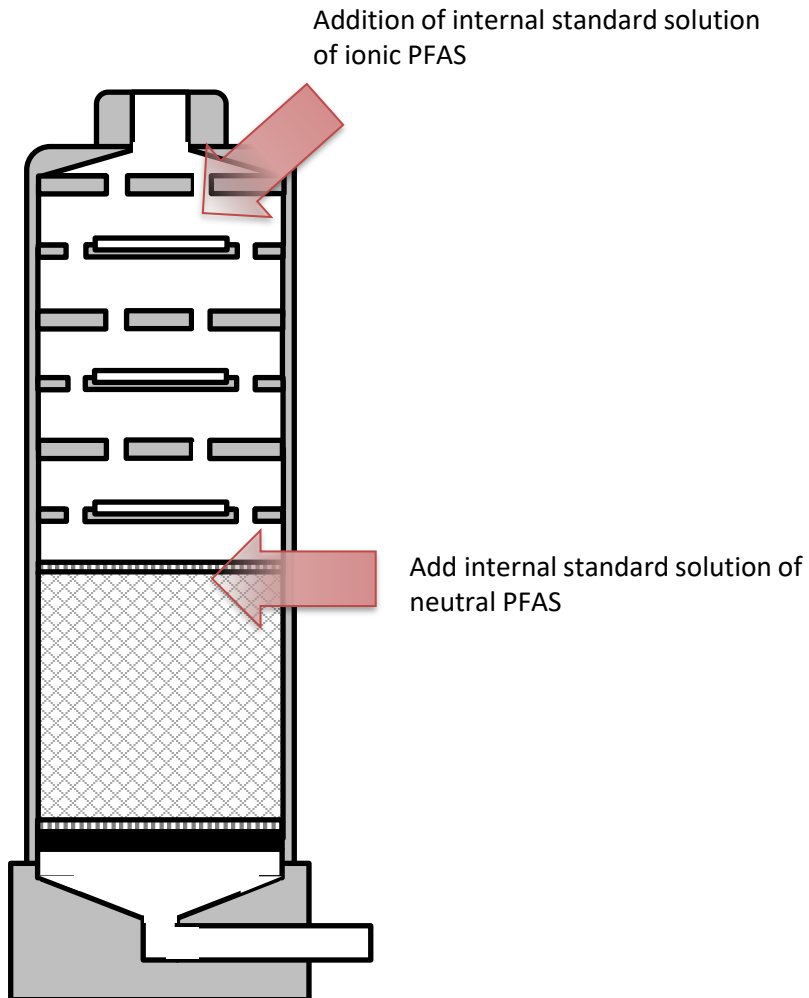


| No. | Compounds | R.T.(min) |
|-----|---------------------|-----------|
| 1 | PFPrA | 2.38 |
| 2 | PFBA | 3.49 |
| 3 | PFPrS | 4.15 |
| 4 | PFPeA | 4.29 |
| 5 | PFHxA | 4.73 |
| 6 | PFBS | 4.97 |
| 7 | HFPO-DA (GenX) | 4.98 |
| 8 | PFHpA | 5.27 |
| 9 | ADONA(DONA) | 5.46 |
| 10 | 6:2FTS | 5.5 |
| 11 | PFOA | 5.78 |
| 12 | PFHxS | 5.93 |
| 13 | FOUEA (8:2 FTUCA*) | 6.13 |
| 14 | PFNA | 6.27 |
| 15 | 8:2FTS | 6.47 |
| 16 | PFHpS | 6.65 |
| 17 | PFDA | 6.66 |
| 18 | NMeFOSAA | 6.76 |
| 19 | PFOS | 6.88 |
| 20 | 10:2FTUCA | 6.89 |
| 21 | N-EtFOSAA | 7.14 |
| 22 | PFUnA | 7.24 |
| 23 | 9Cl-PF3ONS | 7.53 |
| 24 | PFDoA | 7.71 |
| 25 | PFDS | 8.08 |
| 26 | PFTrDA | 8.09 |
| 27 | PFTeDA(PFTeA) | 8.18 |
| 28 | FOSA | 8.62 |
| 29 | PFHxDA | 9.41 |
| 30 | PFOcDA (PFODA) | 9.43 |
| 31 | 8:2 diPAP | 9.72 |
| 32 | N-MeFOSA | 10.1 |
| 33 | N-EtFOSA | 10.1 |

Transitions and Collision Energy

| No. | Compounds | Compounds | R.T. | Transition 1 | CE | Transition 2 | CE |
|-----|--|---------------------|-------|--------------|------|--------------|-----|
| 1 | 2,2,3,3,3-Pentafluoropropionic acid | PFPrA | 1.24 | 163.0>119.0 | -16 | | |
| 2 | Perfluorobutanoic acid | PFBA | 2.14 | 213.0>169.0 | -14 | | |
| 3 | Sodium prefluoro-1-propanesulfanate | PFPrS | 3.95 | 249.0>80.0 | -52 | 249.0>99.0 | -34 |
| 4 | Perfluoropentanoic acid | PFPeA | 4.02 | 263.0>219.0 | -11 | | |
| 5 | Perfluorohexanoic acid | PFHxA | 4.73 | 313.0>269.0 | -15 | 313.0>119.0 | -30 |
| 6 | Perfluorobutanesulfonic acid | PFBS | 4.84 | 299.0>80.0 | -59 | 299.0>99.0 | -44 |
| 7 | Hexafluoropropylene oxide dimer acid | HFPO-DA (GenX) | 4.96 | 329.0>169.0 | -16 | 329.0>285.0 | -8 |
| 8 | Perfluoroheptanoic acid | PFHpA | 5.29 | 363.0>319.0 | -14 | 363.0>169.0 | -26 |
| 9 | 4,8-Dioxa-3H-perfluorononanoic acid | ADONA(DONA) | 5.44 | 377.0>251.0 | -14 | 377.0>85.0 | -56 |
| 10 | 6:2 Fluorotelomer sulfonic acid | 6:2FTS | 5.5 | 427.0>407.0 | -34 | 427.0>81.0 | -74 |
| 11 | Perfluorooctanoic acid | PFOA | 5.69 | 413.0>369.0 | -14 | 413.0>169.0 | -26 |
| 12 | Perfluorohexanesulfonic acid | PFHxS | 5.86 | 399.0>80.0 | -80 | 399.0>99.0 | -80 |
| 13 | 8:2 Fluorotelomer unsaturated carboxylic acid | FOUEA (8:2 FTUCA*) | 5.9 | 457.0>393.0 | -16 | 457.0>343.0 | -56 |
| 14 | Perfluorononanoic acid | PFNA | 6.07 | 463.0>419.0 | -16 | 463.0>219.0 | -26 |
| 15 | 8:2 Fluorotelomer sulfonic acid | 8:2FTS | 6.25 | 527.0>507.0 | -40 | 527.0>81.0 | -82 |
| 16 | Perfluoroheptanesulfonic Acid | PFHpS | 6.29 | 449.0>80.0 | -104 | 449.0>99.0 | -70 |
| 17 | Perfluorodecanoic acid | PFDA | 6.43 | 513.0>469.0 | -19 | 513.0>219.0 | -27 |
| 18 | N-methylperfluoro-1-octanesulfonamidoacetic acid | NMeFOSAA | 6.56 | 570.0>419.0 | -30 | 570.0>483.0 | -24 |
| 19 | Perfluorooctanesulfonic acid | PFOS | 6.65 | 499.0>80.0 | -97 | 499.0>99.0 | -77 |
| 20 | 2H-perfluoro-2-dodecenoic acid (FDUEA) | 10:2FTUCA | 6.66 | 557.0>493.0 | -20 | 557.0>243.0 | -52 |
| 21 | N-ethylperfluoro-1-octanesulfonamidoacetic acid | NEtFOSAA | 6.78 | 584.0>419.0 | -30 | 584.0>526.0 | -28 |
| 22 | Perfluoroundecanoic acid | PFUnA | 6.81 | 563.0>519.0 | -19 | 563.0>269.0 | -28 |
| 23 | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 9Cl-PF3ONS | 6.95 | 531.0>351.0 | -40 | 531.0>83.0 | -56 |
| 24 | Perfluorododecanoic acid | PFDoA | 7.16 | 613.0>569.0 | -17 | 613.0>269.0 | -29 |
| 25 | Perfluorodecanesulfonic acid | PFDS | 7.38 | 599.0>80.0 | -94 | 599.0>99.0 | -91 |
| 26 | Perfluorotridecanoic acid | PFTriDA | 7.52 | 663.0>619.0 | -19 | 663.0>269.0 | -32 |
| 27 | Perfluorotetradecanoic acid | PFTeDA (PFTeA) | 7.84 | 713.0>669.0 | -19 | 713.0>319.0 | -36 |
| 28 | Perfluorooctanesulfonamide | FOSA | 8.47 | 498.0>78.0 | -85 | 498.0>169.0 | -40 |
| 29 | Perfluoro-n-hexadecanoic acid | PFHxDA | 8.52 | 813.0>769.0 | -20 | 813.0>319.0 | -34 |
| 30 | Perfluoro-n-octadecanoic acid | PFODA (PFODA) | 9.1 | 913.0>869.0 | -20 | 913.0>369.0 | -40 |
| 31 | 8:2 Polyfluoroalkyl phosphate diester | 8:2 diPAP | 9.5 | 989.0>97.0 | -130 | 989.0>543.0 | -36 |
| 32 | n-methylperfluoro-1-octanesulfonamide | NMeFOSA | 9.96 | 512.0>169.0 | -37 | 512.0>219.0 | -34 |
| 33 | N-ethylperfluoro-1-octanesulfonamide | NEtFOSA | 10.28 | 526.0>169.0 | -37 | 526.0>219.0 | -34 |

FM4 Performance Data

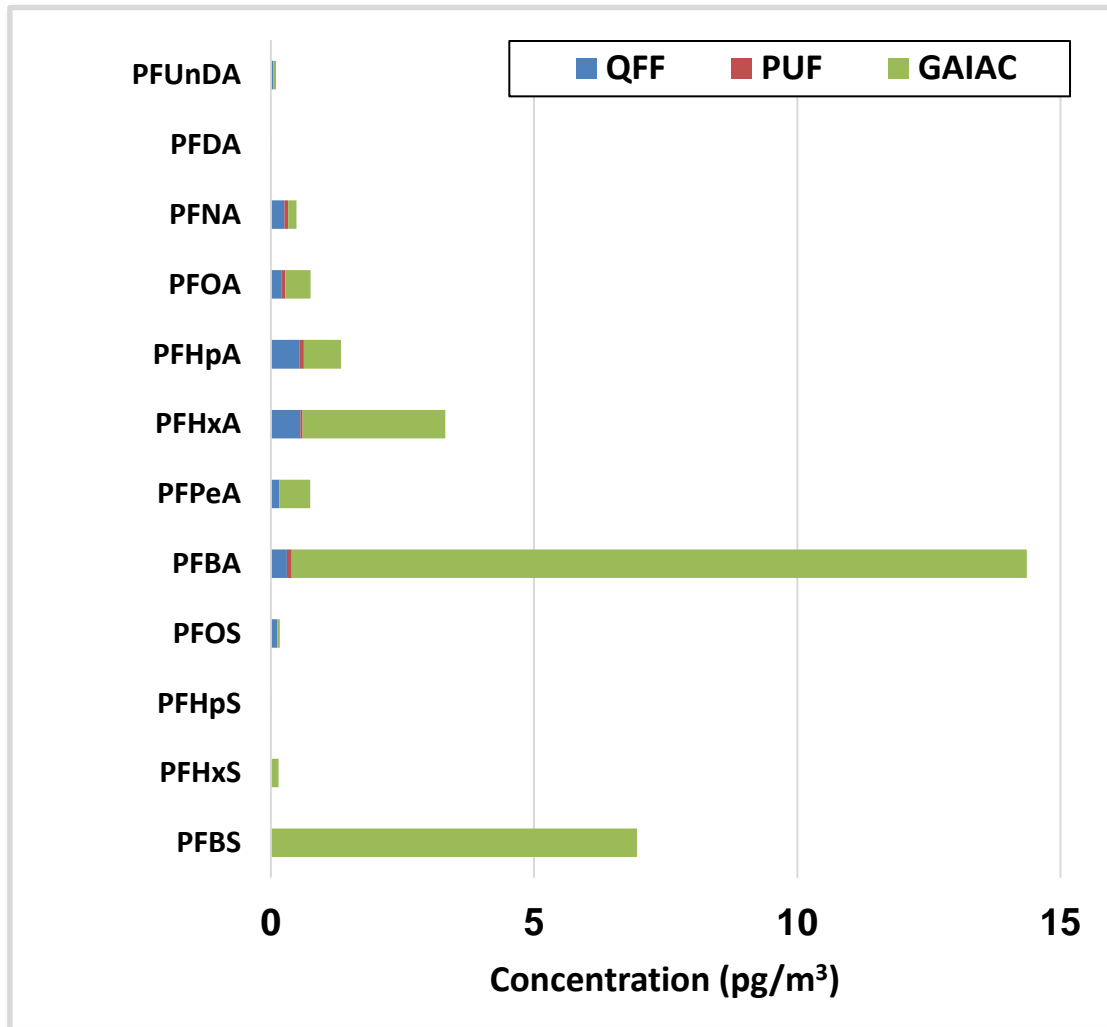


| Particle collection | |
|---------------------------------|-------------------|
| Compounds | Recovery Rate (%) |
| $^{13}\text{C}_3\text{-PFBS}$ | 94 |
| $^{13}\text{C}_3\text{-PFHxA}$ | 94 |
| $^{13}\text{C}_8\text{-PFOS}$ | 85 |
| $^{13}\text{C}_4\text{-PFBA}$ | 47 |
| $^{13}\text{C}_5\text{-PFPeA}$ | 59 |
| $^{13}\text{C}_5\text{-PFHxA}$ | 69 |
| $^{13}\text{C}_4\text{-PFHpA}$ | 79 |
| $^{13}\text{C}_8\text{-PFOA}$ | 85 |
| $^{13}\text{C}_9\text{-PFNA}$ | 103 |
| $^{13}\text{C}_6\text{-PFDA}$ | 88 |
| $^{13}\text{C}_7\text{-PFUnDA}$ | 95 |

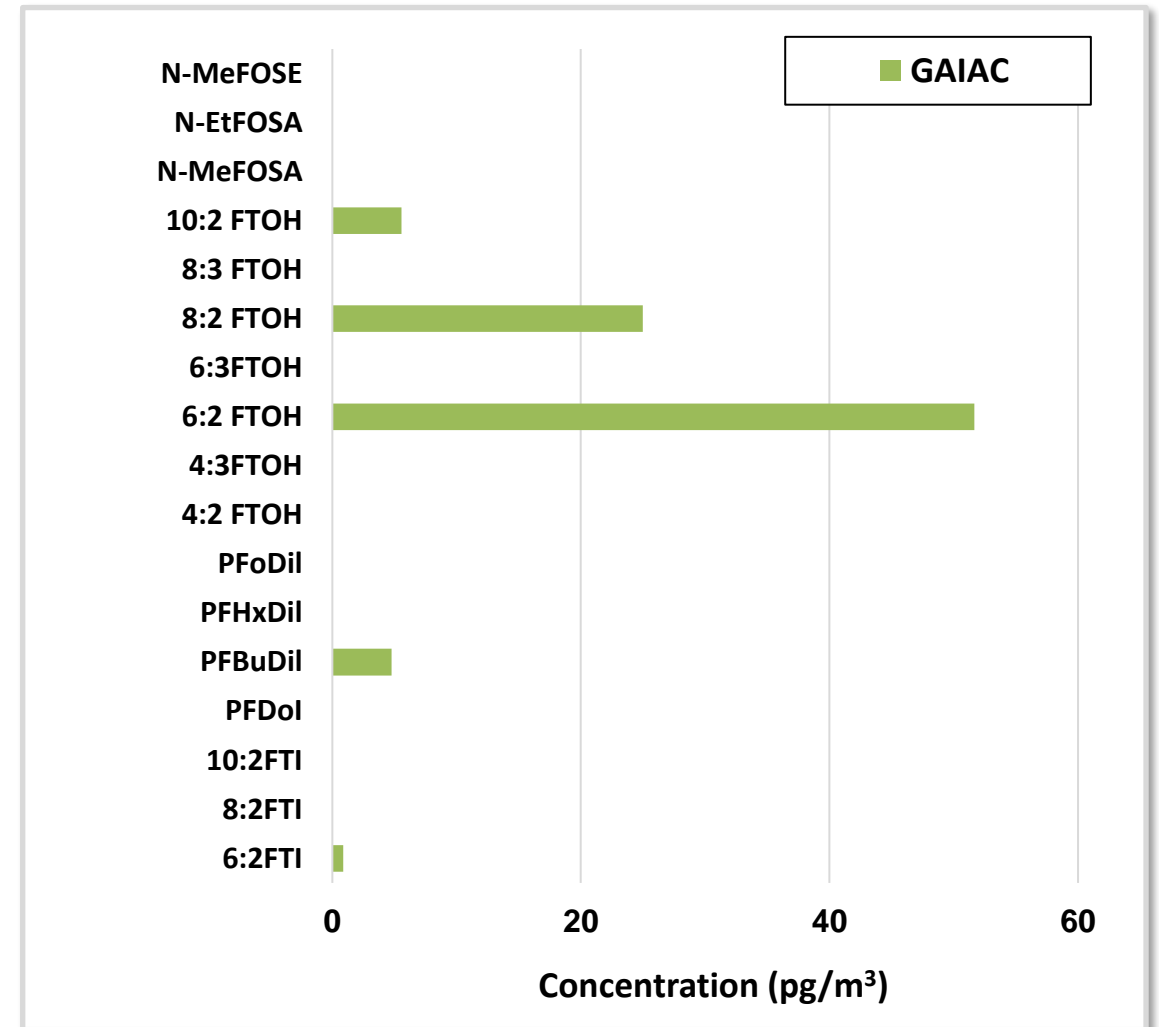
| Gas collection | |
|---------------------------------------|-------------------|
| Compounds | Recovery Rate (%) |
| 4:2FTOH-d ₄ | 91 |
| $^{13}\text{C}_2\text{-6:2FTOH-d}_2$ | 90 |
| $^{13}\text{C}_2\text{-8:2FTOH-d}_2$ | 102 |
| $^{13}\text{C}_2\text{-10:2FTOH-d}_2$ | 84 |
| N-MeFOSA-d ₅ | 71 |
| N-EtFOSA-d ₃ | 78 |
| N-MeFOSE-d ₇ | 110 |
| N-EtFOSE-d ₉ | 110 |

Air Measurement Example

Ionic PFAS



Neutral PFAS



FM4 Specifications

FM4

| Cat.No. | Item | Qty. | Specifications |
|------------|------|-------|--|
| 1050-13015 | FM4 | 1 set | Material: Aluminum (anodizing treatment) Dimension: 60 mm × 195 mm Weight: approx. 900 g Connection: Rc 1/4 |



FM4



Quartz Fiber Filter (QFF)



Polyurethane Foam



GAIAC

Consumables

| Cat.No. | Item | Qty. | Number of use per sampling | Specifications |
|------------|---|-----------------------|----------------------------|-------------------------|
| 1050-13022 | Quartz Fiber Filter QFF31 | 100 pcs | 3 pcs | Impactor section, 31 mm |
| 1050-13023 | Quartz Fiber Filter QFF47 | 100 pcs | 1 pc | Backup, 47 mm |
| 1050-13021 | Polyurethane Foam PUF4750 | 10 pcs | 1 pc | 47 mm × 50mm |
| 1050-13020 | Activated Carbon Fiber Disk (GAIAC FF047) | 20 pcs (2/pk x 10pks) | 2 pcs | 47 mm × 2 mm |

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