

Electronic Supplementary Information

for

Demonstration of Plasma-Ionization Orbitrap Mass Spectrometry for Non-Target Elemental and Molecular Screening of Perfluorinated Compounds

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Table Of Contents:

Figure S1: Mass Spectrum of N-EtFOSE	S-2
Figure S2: Mass Spectrum of Polyfluoro Acrylates	S-2
Figure S3: Mass Spectrum of Fluorotelomer Alcohols	S-3
Figure S4: Perfluoro Sulphonamides Linearity Curve	S-4
Figure S5: Polyfluoro Aacrylate Linearity Curve	S-4

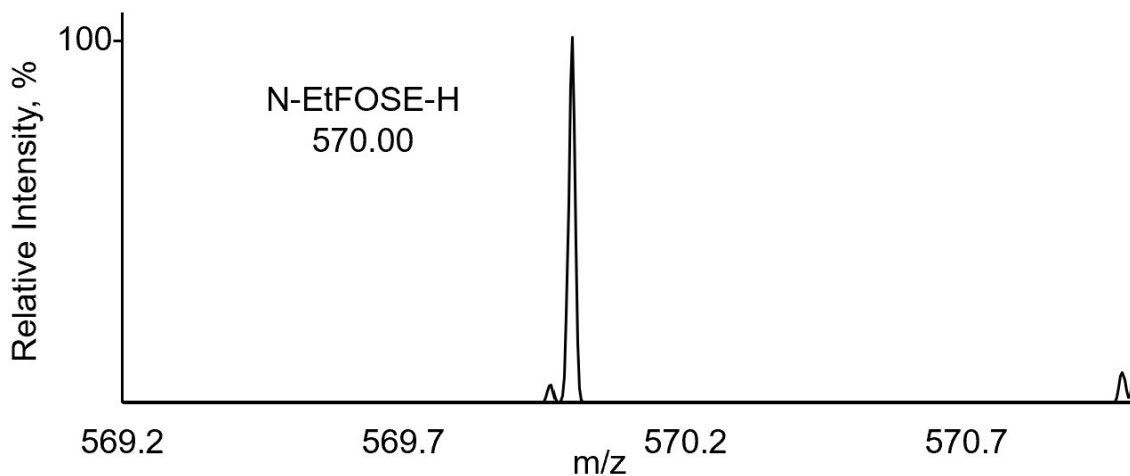


Figure S1: Mass spectrum of N-ethyl-N-(2-hydroxyethyl)perfluorooctyl sulphonamide (N-EtFOSE) found from a 20 μL injection of 10 $\mu\text{g mL}^{-1}$ mixture of various PFAS.

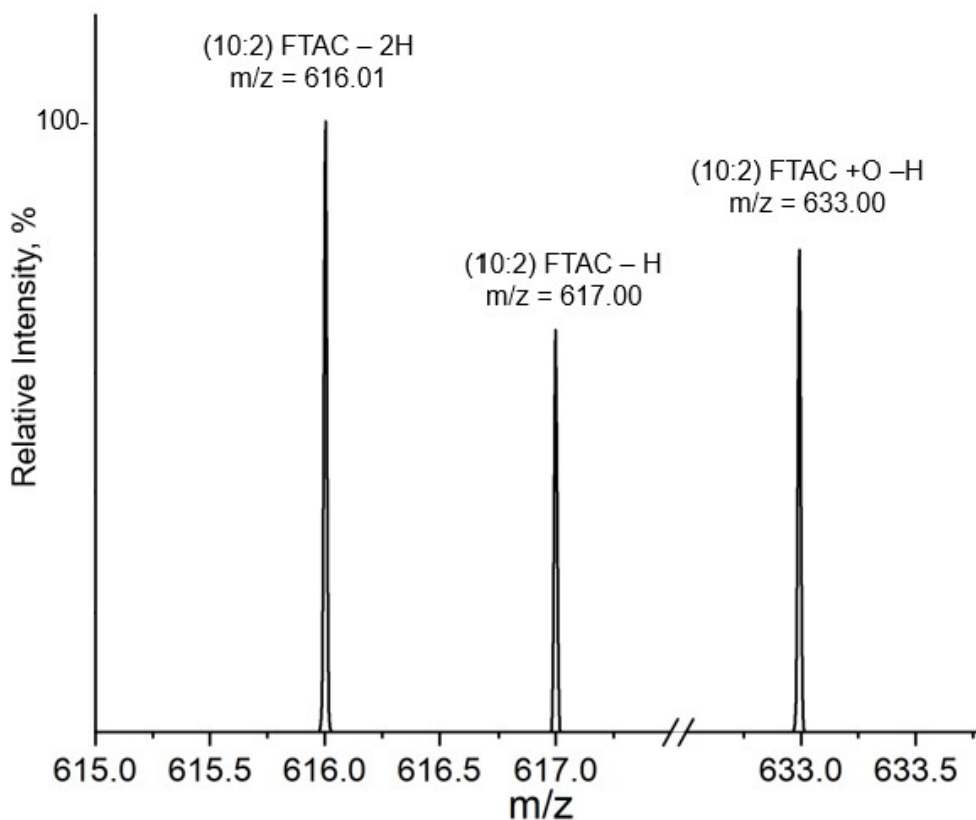


Figure S2: Mass spectrum of 1H,1H,2H,2H-perfluoro-n-dodecyl acrylate (10:2 FTAC) found from a 20 $\mu\text{g mL}^{-1}$ injection of 10 $\mu\text{g mL}^{-1}$ mixture of various PFAS.

Fig

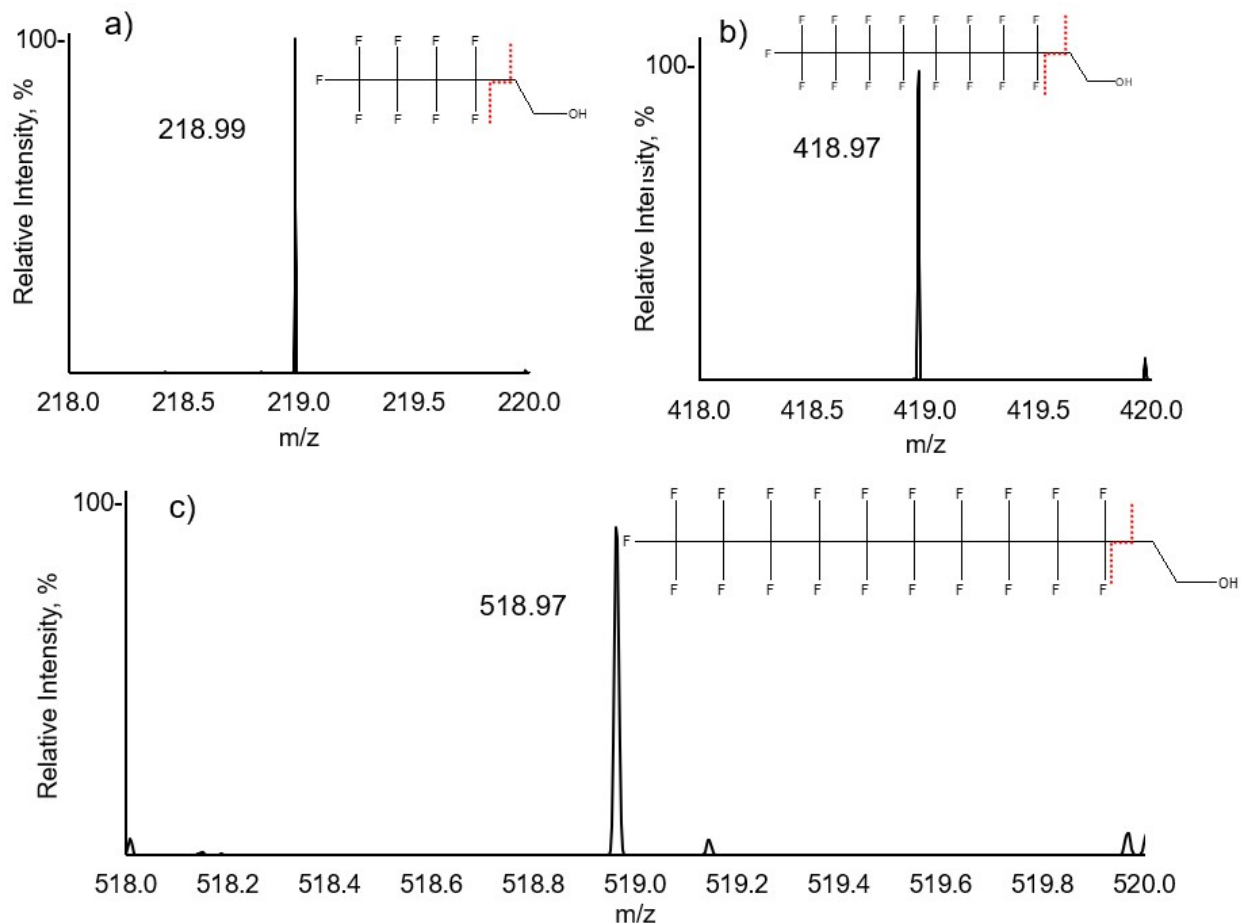


Figure S3: Mass spectra of a) 1H,1H,2H,2H-perfluorohexan-1-ol (4:2 FTOH), b) 1H,1H,2H,2H-perfluorodecan-1-ol (8:2 FTOH) and c) 1H,1H,2H,2H-perfluorododecan-1-ol (10:2-FTOH) found from a 20 μL injection of 10 $\mu\text{g mL}^{-1}$ mixture of various PFAS.

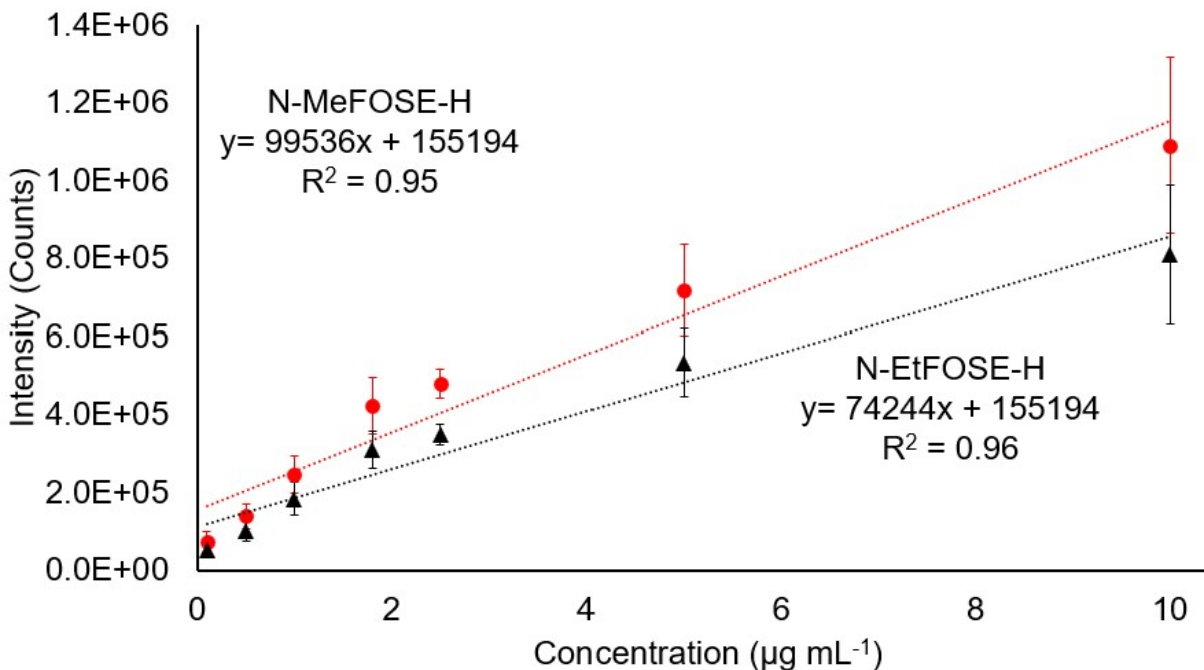


Figure S4: Response curves for N-ethyl-N-(2-hydroxyethyl)perfluorooctyl sulphonamide (N-EtFOSE) and N-(2-hydroxyethyl)-N-methylperfluorooctyl sulfonamide (N-MeFOSE) found from a 20 µL injection of a mixture of various PFAS. Concentration ranges from 0.1 to 10 µg mL⁻¹.

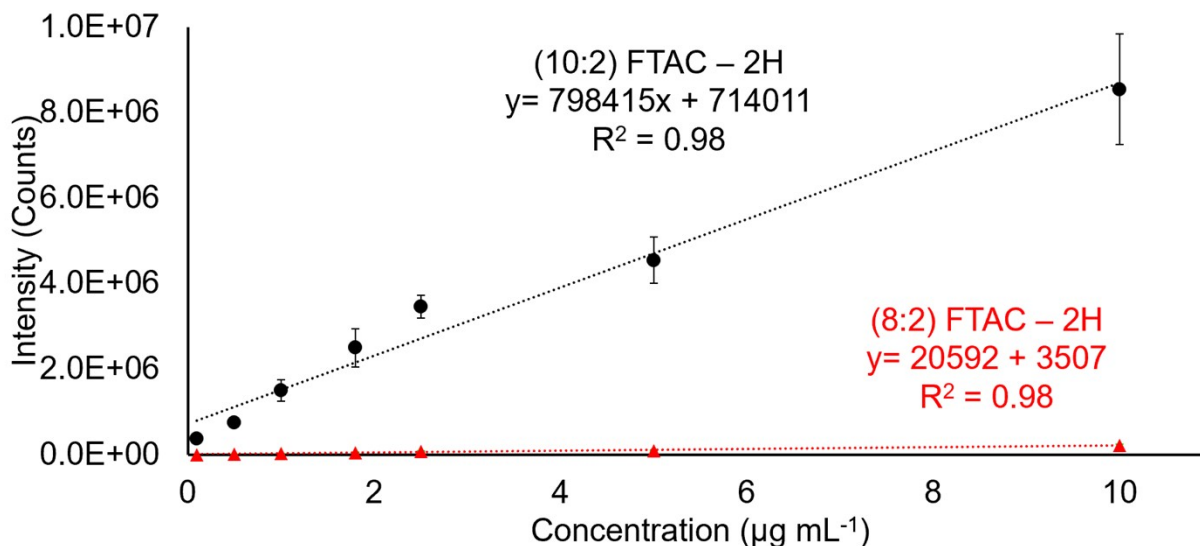


Figure S5: Response curves for 1H,1H,2H,2H-perfluoro-n-decyl acrylate (8:2 FTAC) and 1H,1H,2H,2H-perfluoro-n-dodecyl acrylate (10:2 FTAC) found from a 20 µL injection of a mixture of various PFAS. Concentration ranges from 0.1 to 10 µg mL⁻¹. 1H,1H,2H,2H-perfluoro-n-octyl acrylate was not plotted due to the low ion counts.