

Polyfluorinated Amides as a PFCA Source by Electrochemical Fluorination of Alkyl Sulfonyl Fluorides

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Supporting Information

Table S1. List of polyfluorinated amide (PFAM) analytes and their monitored ions for GC-MS in selected ion monitoring mode.

Analyte	Acronym	Ion Monitored
<i>N</i> -methylperfluorooctanamide	MeFOA	428 [M+1] ⁺
<i>N</i> -ethylperfluorooctanamide	EtFOA	442 [M+1] ⁺
<i>N</i> -methyl- <i>N</i> -(2-hydroxyethyl)perfluorooctanamide	MeFOAE	454 [M-17] ⁺
<i>N</i> -ethyl- <i>N</i> -(2-hydroxyethyl)perfluorooctanamide	EtFOAE	468 [M-17] ⁺
<i>N</i> -methylperfluorononanamide*	MeFNA	478 [M+1] ⁺

* only in Scotchgard, pre-2001

Table S2. Mean concentrations of PFAM concentrations \pm one standard deviation in electrochemical sulfonamide materials as determined by GC-MS ($n = 3$). All concentrations normalized to dry mass. n/d = not detected.

Compound	Manufacturer	Amide Detected	Concentration ($\mu\text{g/g}$)
EtFOSA	Lancaster Scientific	EtFOA	150 \pm 7
EtFOSE	3M, Lot A	EtFOA	604 \pm 10
EtFOSE	3M, Lot B	EtFOA	5139 \pm 480
EtFOSE	3B Pharmachem	EtFOA	26 \pm 2
Scotchban FC-807A	3M	EtFOA	266 \pm 10
di-SAmPAP	Defu	EtFOA	12 \pm 1
MeFOSE	3M	MeFOA	6736 \pm 448
Scotchgard, pre-2001	3M	MeFOA	260 \pm 18
Scotchgard, pre-2001	3M	MeFNA	v. low
Scotchgard, post-2001	3M	n/d	n/d
EtFOSE	Wellington Labs	n/d	n/d

Figure S1. Mass spectrum of *N*-methylperfluorooctanamide (MeFOA) obtained in positive chemical ionization mode with methane reagent gas.

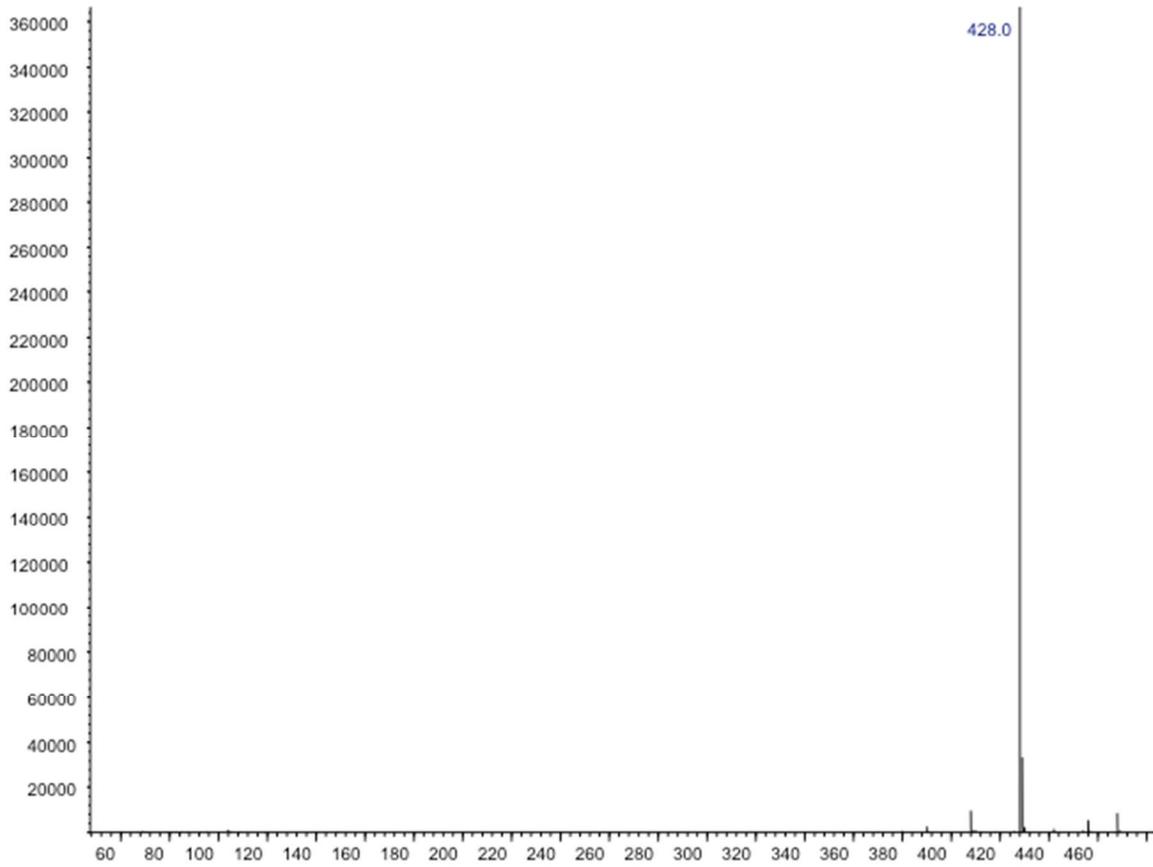


Figure S2. Mass spectrum of *N*-ethylperfluorooctanamide (EtFOA) obtained in positive chemical ionization mode with methane reagent gas.

