

# 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.

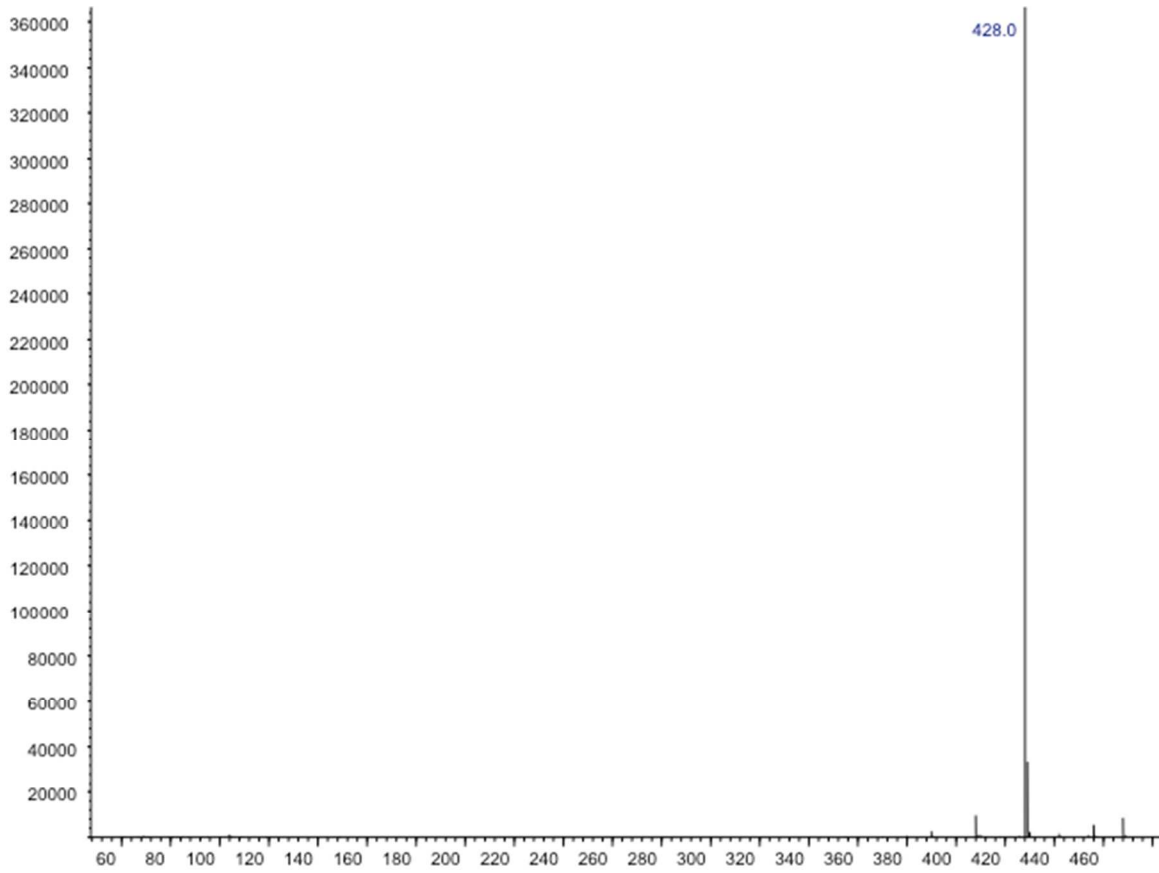
Analyte	Acronym	Ion Monitored
<i>N</i> -methylperfluorooctanamide	MeFOA	428 [M+1] <sup>+</sup>
<i>N</i> -ethylperfluorooctanamide	EtFOA	442 [M+1] <sup>+</sup>
<i>N</i> -methyl- <i>N</i> -(2-hydroxyethyl)perfluorooctanamide	MeFOAE	454 [M-17] <sup>+</sup>
<i>N</i> -ethyl- <i>N</i> -(2-hydroxyethyl)perfluorooctanamide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

\* 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.

