Message

**From**: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]
**Sent**: 10/26/2018 6:28:42 PM
**To**: Sivertsen, Scott [Sivertsen.Scott@epa.gov]
**Subject**: RE: Analytical Standards
**Attachments**: Final McCord Cape Fear Compound Discovery Manuscript 10-24-2018.docx; PFAS Chemours_DuPont Fayetteville.pptx

Scott,

Here is our recently submitted paper. As we discussed please keep it internal for now.

Also here is a poster I have been working on that puts all of the compounds we have discussed on one sheet.

Mark

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**From:** Sivertsen, Scott
**Sent:** Tuesday, October 23, 2018 10:36 AM
**To:** Strynar, Mark <Strynar.Mark@epa.gov>
**Subject:** RE: Analytical Standards

The legacy + GenX analysis in water goes OK; routine work. Byproducts is in development, and we'll be reporting a limited set of data to Linda Culpepper soon, but the QA side bothers me. Lots of qualification…

Sediment/soil is a hot topic here as well. Trying to balance the method development with everything else that happens on a daily basis. One interesting delay was our 6-month old Xevo TQS-micro shredding a turbo pump, resulting in the MS and roughing pump being replaced. Just after instrument qualification was finished – three steps ahead, two steps back.

When I infused PEPA and PMPA on the new detector, I saw an increased mass shift (+3 Da) for the precursor. We saw the expected *m/z* when we originally infused, months ago. I have no idea what we have in that vial, but the compound has changed. I suspect oxygen/fluorine exchange. Have you seen any changes in those compounds?

Scott

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**From:** Strynar, Mark
**Sent:** Tuesday, October 23, 2018 10:12 AM
**To:** Sivertsen, Scott <Sivertsen.Scott@epa.gov>
**Subject:** RE: Analytical Standards

How is the analysis going down in R4?

Mark

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**From:** Sivertsen, Scott
**Sent:** Tuesday, October 23, 2018 10:08 AM

**To:** Strynar, Mark <Strynar.Mark@epa.gov>
**Subject:** RE: Analytical Standards

Thanks Mark. That's what I expected to hear.

Scott

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**From:** Strynar, Mark
**Sent:** Tuesday, October 23, 2018 7:09 AM
**To:** Sivertsen, Scott <Sivertsen.Scott@epa.gov>
**Subject:** RE: Analytical Standards

Beyond PFMOAA no not yet. I am meeting with a professor at UNC Chapel Hill next Wednesday to discuss the synthesis of Nafion BP1 and BP2 in house. All other standards I have only gotten from Chemours.

Mark

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**From:** Sivertsen, Scott
**Sent:** Monday, October 22, 2018 3:02 PM
**To:** Strynar, Mark <Strynar.Mark@epa.gov>
**Subject:** RE: Analytical Standards

Hi Mark,

I hope you're doing well.

Is there any update to standards availability (beyond PFMOAA)?

Thanks,

Scott

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**From:** Strynar, Mark
**Sent:** Monday, June 11, 2018 8:05 AM
**To:** Sivertsen, Scott <Sivertsen.Scott@epa.gov>; Detlef R. U. Knappe <knappe@ncsu.edu>; Culpepper, Linda <linda.culpepper@ncdenr.gov>; Mead, Ralph N. <meadr@uncw.edu>; skrabals@uncw.edu; Nadine Kotlarz <nkotlar@ncsu.edu>; Zachary Hopkins <zrhopkin@ncsu.edu>
**Subject:** FW: Analytical Standards

FYI,

All I have been in touch with this company about synthesizing the PFAS we see/have seen in the Cape Fear river. They are working on others but now have this one made and available for purchase. This would be PFMOAA as a sodium salt. Ralph I know you had this made and shared it with me.

Please share with other who may want to get these standards.

Mark

**From:** David Offord [mailto:david@fluoryx.com]
**Sent:** Saturday, June 09, 2018 1:45 PM
**To:** Strynar, Mark <Strynar.Mark@epa.gov>
**Cc:** Paul Resnick <presnick@earthlink.net>
**Subject:** Re: Analytical Standards

Dear Dr. Stynar,

We now have one of the analytical standards you were interested in stock, sodium 2,2-difluoro-2-(trifluoromethoxy)acetate. The link to it is here:

https://fluoryx.com/collections/fluoroethers/products/sodium-2-2-difluoro-2-trifluoromethoxyacetate-catalog-no-fc23-02-cas-no-21837-98-9

Our partners will continue working on the syntheses of the other standards you mentioned and I'll let you know when they are available.

Best regards

David
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