



# Source Test Report

The Chemours Company, FC, LLC  
Fayetteville Works  
22828 Highway 87W  
Fayetteville, North Carolina

Sources Tested: Vinyl Ethers North (VEN)  
Carbon Bed (Inlet/Outlet)  
Test Date: May 5, 2022

Project No. AST-2022-1651-001

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Prepared By  
Alliance Technical Group, LLC  
6515A Basile Rowe  
East Syracuse, NY 13057



**CORPORATE OFFICE**  
255 Grant St. SE, Suite 600  
Decatur, AL 35601  
(256) 351-0121

**SOURCE TESTING**  
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**Regulatory Information**

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*Permit No.* North Carolina Department of Air Quality (NCDAQ) Title V Air Permit No. 03735T48

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**Source Information**

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| <i>Source Name</i>                  | <i>Target Parameter</i> |
|-------------------------------------|-------------------------|
| Vinyl Ethers North (VEN) Carbon Bed | HFPO-DA                 |

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**Contact Information**


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| <i>Test Location</i>   | <i>Test Company</i>  | <i>Analytical Laboratory</i>  |
|--|--|---|
| The Chemours Company, FC, LLC<br>Fayetteville Works<br>22828 Highway 87W<br>Fayetteville, North Carolina | Alliance Technical Group, LLC<br>6515A Basile Rowe<br>East Syracuse, NY 13057              | Eurofins TestAmerica<br>5815 Middlebrook Pike<br>Knoxville, TN 37921<br>Kevin Woodcock<br>kevin.woodcock@testamericainc.com<br>(865) 291-3000 |
| <i>Facility Contact</i><br>Christel Compton<br>christel.e.compton@chemours.com<br>(910) 261-8821         | <i>Project Manager</i><br>Jeff Gorman<br>jeff.gorman@stacktest.com<br>(315) 289-9433       |   |
|  | <i>Field Team Leader</i><br>Patrick Grady<br>patrick.grady@stacktest.com<br>(716) 713-9238 |   |
|  | <i>QA/QC Manager</i><br>Heather Morgan<br>heather.morgan@stacktest.com<br>(256) 260-3972   |   |
|  | <i>Report Coordinator</i><br>Emily King<br>emily.king@stacktest.com<br>(812) 452-4785      |   |

Alliance Technical Group, LLC (Alliance) has completed the source testing as described in this report. Results apply only to the source(s) tested and operating condition(s) for the specific test date(s) and time(s) identified within this report. All results are intended to be considered in their entirety, and Alliance is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

To the best of my knowledge and abilities, all information, facts and test data are correct. Data presented in this report has been checked for completeness and is accurate, error-free and legible. Onsite testing was conducted in accordance with approved internal Standard Operating Procedures. Any deviations or problems are detailed in the relevant sections in the test report.

This report is only considered valid once an authorized representative of Alliance has signed in the space provided below; any other version is considered draft. This document was prepared in portable document format (.pdf) and contains pages as identified in the bottom footer of this document.



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**Patrick Grady**  
**Alliance Technical Group, LLC**

**June 15, 2022**

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Date

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## Introduction

**1.0 Introduction**

Alliance Technical Group, LLC (Alliance) was retained by The Chemours Company (Chemours) to conduct compliance testing at the Fayetteville Works Facility in Fayetteville, North Carolina. The facility operates under North Carolina Department of Air Quality (NCDAQ) Title V Air Permit No. 03735T48. Testing was conducted to determine the emission rate of hexafluoro-propylene oxide-dimer acid (HFPO-DA) from the inlet and outlet of the Vinyl Ethers North (VEN) Carbon Bed.

**1.1 Source and Control System Descriptions**

The Chemours Company (Chemours) owns and operates the Vinyl Ethers North (VEN) Carbon Bed. VEN is part of the fluoromonomer area at the Fayetteville facility. This area produces fluorocarbon compounds used to produce Chemours products, such as Nafion® Krytox® and Viton®. Indoor air fugitive emissions from VEN are vented to a carbon bed which is then vented to atmosphere through the Division Stack. Process emissions from VEN are directed to a thermal oxidizer.

**1.2 Project Team**

Personnel involved in this project are identified in the following table.

**Table 1-1: Project Team**

|                           |   |
|---------------------------|---|
| <b>Facility Personnel</b> | Christel Compton<br>Eddie Vega  |
| <b>Alliance Personnel</b> | Patrick Grady<br>Eric Alongi<br>Antonio Anderson<br>Brian Goodhile<br>Angel Solis |

## Summary of Results

**2.0 Summary of Results**

Alliance conducted compliance testing at the Fayetteville Works Facility in Fayetteville, NC on May 5, 2022. Testing consisted of determining the emission rates of HFPO-DA at the inlet and outlet of the VEN Carbon Bed.

Tables 2-1 provides a summary of the emission testing results. Any difference between the summary results listed in the following table and the detailed results contained in appendices is due to rounding for presentation.

**Table 2-1: Summary of Results – VEN Carbon Bed**

| Run Number                  | Run 1   | Run 2   | Run 3   | Average |
|-----------------------------|---------|---------|---------|---------|
| Date                        | 5/5/22  | 5/5/22  | 5/5/22  | --      |
| <b>HFPO-DA Data</b>         |         |         |         |         |
| Outlet Emission Rate, lb/hr | 4.1E-03 | 4.2E-03 | 4.1E-03 | 4.1E-03 |
| Inlet Emission Rate, lb/hr  | 4.5E-02 | 3.7E-02 | 4.4E-02 | 4.2E-02 |
| Reduction Efficiency, %     | 90.8    | 88.4    | 90.6    | 89.9    |



## Testing Methodology

### 3.0 Testing Methodology

The emission testing program was conducted in accordance with the test methods listed in Table 3-1. Method descriptions are provided below while quality assurance/quality control data is provided in Appendix D.

**Table 3-1: Source Testing Methodology**

| Parameter                             | U.S. EPA Reference Test Methods | Notes/Remarks           |
|---------------------------------------|---------------------------------|-------------------------|
| Volumetric Flow Rate                  | 1 & 2                           | Full Velocity Traverses |
| Oxygen/Carbon Dioxide                 | 3                               | Fyrite Analysis         |
| Moisture Content                      | 4                               | Gravimetric Analysis    |
| Hexafluoro-Propylene Oxide-Dimer Acid | Modified Method 0010            | Isokinetic Sampling     |

#### 3.1 U.S. EPA Reference Test Methods 1 and 2 – Sampling/Traverse Points and Volumetric Flow Rate

The sampling location and number of traverse (sampling) points were selected in accordance with U.S. EPA Reference Test Method 1. To determine the minimum number of traverse points, the upstream and downstream distances were equated into equivalent diameters and compared to Figure 1-1 (for isokinetic sampling) and/or Figure 1-2 (measuring velocity alone) in U.S. EPA Reference Test Method 1.

Full velocity traverses were conducted in accordance with U.S. EPA Reference Test Method 2 to determine the average stack gas velocity pressure, static pressure and temperature. The velocity and static pressure measurement system consisted of a pitot tube and inclined manometer. The stack gas temperature was measured with a K-type thermocouple and pyrometer.

Stack gas velocity pressure and temperature readings were recorded during each test run. The data collected was utilized to calculate the volumetric flow rate in accordance with U.S. EPA Reference Test Method 2.

#### 3.2 U.S. EPA Reference Test Method 3 – Oxygen/Carbon Dioxide

The oxygen (O<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>) concentrations were assumed to be ambient for molecular weight and volumetric flow rate calculations.

#### 3.3 U.S. EPA Reference Test Method 4 – Moisture Content

The stack gas moisture content (BWS) was determined in accordance with U.S. EPA Reference Test Method 4. The gas conditioning train consisted of a series of chilled impingers. Prior to testing, each impinger was filled with a known quantity of water or silica gel. Each impinger was analyzed gravimetrically before and after each test run on the same balance to determine the amount of moisture condensed.

#### 3.4 Method 0010 – Hexafluoro-Propylene Oxide-Dimer Acid

HFPO-DA emissions were evaluated in accordance with Modified Method 0010. Testing followed the submitted protocol in the execution of our onsite sampling and analysis activities. Modified Method 0010 procedure was followed as outlined in the protocol submitted to NC Division of Air Quality. Modified Method 0010 sampling and analysis procedures performed for this project are consistent with OTM-45, which was released by EPA in January 2021, subsequent to Chemours submittal of plans to DAQ.

The sample train consisted of a borosilicate glass nozzle attached directly to a heated borosilicate glass-lined probe. The probe was connected directly to a heated borosilicate glass filter holder containing a solvent-extracted glass fiber filter. In order to minimize possible thermal degradation of the HFPO-DA, the probe and particulate filter were heated to just above stack temperature to minimize water vapor condensation before the filter. The filter holder exit was connected to a water-cooled coil condenser followed by a water-cooled sorbent module containing approximately 40 grams of XAD-2 resin. The XAD-2 inlet temperature was monitored to ensure that the module is maintained at a temperature below 20°C.

The XAD-2 resin trap was followed by a condensate knockout impinger and a series of three impingers each containing 100-ml of high purity deionized water. The water impingers were followed by another condensate knockout impinger equipped with a second XAD-2 resin trap to account for any sample breakthrough. The final impinger contained approximately 250 grams of dry pre-weighed silica gel. The water impingers and condensate impingers were submerged in an ice bath through the duration of the testing. The water in the ice bath was also used to circulate around the coil condenser and the XAD-2 resin traps.

Exhaust gases were extracted from the sample locations isokinetically using a metering console equipped with a vacuum pump, a calibrated orifice, oil manometer and probe/filter heat controllers

### **3.5 HFPO-DA Sample Train and Equipment Preparation**

Prior to conducting the field work the following procedures were conducted to prepare the field sampling glassware and sample recovery tools.

1. Wash all glassware, brushes, and ancillary tools with low residue soap and hot water.
2. Rinse all glassware, brushes, and ancillary tools three (3) times with D.I. H<sub>2</sub>O.
3. Bake glassware (with the exception of probe liners) at 450°C for approximately 2 hours, (XAD-2 resin tube glassware is cleaned by Eurofins/TestAmerica by this same procedure).
4. Solvent rinse three (3) times all glassware, brushes, and ancillary tools with the following sequence of solvents: acetone, methylene chloride, hexane, and methanol.
5. Clean glassware and tools will be sealed in plastic bags or aluminum foil for transport to the sampling site.
6. Squirt bottles will be new dedicated bottles of known history and dedicated to the D.I. Water and methanol/ammonium hydroxide (MeOH/ 5% NH<sub>4</sub>OH) solvent contents. Squirt bottles will be labelled with the solvent content it contains.

### **3.6 HFPO-DA Sample Train Recovery**

Following completion of each test run, the sample probe, nozzle and front-half of the filter holder were brushed and rinsed three times each with the MeOH/ 5% NH<sub>4</sub>OH solution (Container #1). The glass fiber filter was removed from its housing and transferred to a polyethylene bottle (Container #2). Any particulate matter and filter fibers which adhered to the filter holder and gasket were also placed in Container #2. The XAD-2 resin trap was sealed, labelled and placed in an iced sample cooler. The back-half of the filter holder, coil condenser condensate trap and connecting glassware were rinsed with the same MeOH/ 5% NH<sub>4</sub>OH solution and placed in Container #3.

The volume of water collected in all impingers was measured for moisture determinations and then placed in Container #4. All impingers and connecting glassware were then rinsed with the MeOH/ 5% NH<sub>4</sub>OH solution and placed in Container #5. The second (breakthrough) XAD-2 resin trap was sealed, labelled and placed in an iced

sample cooler. The contents of the fifth impinger were placed in its original container and weighed for moisture determinations.

Containers were sealed and labeled with the appropriate sample information. Samples remained chilled until analysis. HFPO-DA analysis was conducted using liquid chromatography/dual mass spectrometry (LC/MS/MS).

## Appendix A

**Location:** Chemours Company - Fayetteville Works Facility, NC  
**Source:** VEN Carbon Bed Outlet  
**Project No.:** 2022-1651-001  
**Run No.:** I  
**Parameter:** HFPO-DA

Meter Pressure (Pm), in. Hg

$$P_m = P_b + \frac{\Delta H}{1.36}$$

where,

$P_b = \frac{30.22}{1} =$  barometric pressure, in. Hg  
 $\Delta H = \frac{1.666}{1} =$  pressure differential of orifice, in H<sub>2</sub>O  
 $P_m = \frac{30.34}{1} =$  in. Hg

Absolute Stack Gas Pressure (Ps), in. Hg

$$P_s = P_b + \frac{P_g}{1.36}$$

where,

$P_b = \frac{30.22}{1} =$  barometric pressure, in. Hg  
 $P_g = \frac{2.10}{1} =$  static pressure, in. H<sub>2</sub>O  
 $P_s = \frac{30.37}{1} =$  in. Hg

Standard Meter Volume (Vmstd), dscf

$$Vmstd = \frac{17.636 \times Y \times V_m \times P_m}{T_m}$$

where,

$Y = \frac{0.98}{1} =$  meter correction factor  
 $V_m = \frac{72.888}{1} =$  meter volume, cf  
 $P_m = \frac{30.34}{1} =$  absolute meter pressure, in. Hg  
 $T_m = \frac{539.0}{1} =$  absolute meter temperature, °R  
 $Vmstd = \frac{70.916}{1} =$  dscf

Standard Wet Volume (Vwstd), scf

$$Vwstd = 0.04716 \times V_{lc}$$

where,

$V_{lc} = \frac{64}{1} =$  volume of H<sub>2</sub>O collected, ml  
 $Vwstd = \frac{3.018}{1} =$  scf

Moisture Fraction (BWSsat), dimensionless (theoretical at saturated conditions)

$$BWS_{sat} = \frac{10^{6.37 - \left(\frac{2,827}{T_s + 365}\right)}}{P_s}$$

where,

$T_s = \frac{88.1}{1} =$  stack temperature, °F  
 $P_s = \frac{30.37}{1} =$  absolute stack gas pressure, in. Hg  
 $BWS_{sat} = \frac{0.044}{1} =$  dimensionless

Moisture Fraction (BWS), dimensionless (measured)

$$BWS = \frac{Vwstd}{(Vwstd + Vmstd)}$$

where,

$Vwstd = \frac{3.018}{1} =$  standard wet volume, scf  
 $Vmstd = \frac{70.916}{1} =$  standard meter volume, dscf  
 $BWS = \frac{0.041}{1} =$  dimensionless

Moisture Fraction (BWS), dimensionless

$$BWS = BWS_{msd} \text{ unless } BWS_{sat} < BWS_{msd}$$

where,

$BWS_{sat} = \frac{0.044}{1} =$  moisture fraction (theoretical at saturated conditions)  
 $BWS_{msd} = \frac{0.041}{1} =$  moisture fraction (measured)  
 $BWS = \frac{0.041}{1}$

Molecular Weight (DRY) (Md), lb/lb-mole

$$Md = (0.44 \times \% CO_2) + (0.32 \times \% O_2) + (0.28 (100 - \% CO_2 - \% O_2))$$

where,

$CO_2 = \frac{0.1}{1} =$  carbon dioxide concentration, %  
 $O_2 = \frac{20.9}{1} =$  oxygen concentration, %  
 $Md = \frac{28.85}{1} =$  lb/lb mol

**Location:** Chemours Company - Fayetteville Works Facility, NC  
**Source:** VEN Carbon Bed Outlet  
**Project No.:** 2022-1651-001  
**Run No.:** 1  
**Parameter:** HFPO-DA

**Molecular Weight (WET) (Ms), lb/lb-mole**

$$M_s = M_d (1 - BWS) + 18.015 (BWS)$$

where,

|       |                       |                                     |
|-------|-----------------------|-------------------------------------|
| $M_d$ | $\frac{28.85}{28.85}$ | = molecular weight (DRY), lb/lb mol |
| BWS   | $\frac{0.041}{0.041}$ | = moisture fraction, dimensionless  |
| $M_s$ | $\frac{28.41}{28.41}$ | = lb/lb mol                         |

**Average Velocity (Vs), ft/sec**

$$V_s = 85.49 \times C_p \times (\Delta P^{1/2})_{avg} \times \sqrt{\frac{T_s}{P_s \times M_s}}$$

where,

|                  |                       |   |
|------------------|-----------------------|---|
| $C_p$            | $\frac{0.840}{0.840}$ | = pitot tube coefficient  |
| $\Delta P^{1/2}$ | $\frac{0.664}{0.664}$ | = velocity head of stack gas, (in. H <sub>2</sub> O) <sup>1/2</sup> |
| $T_s$            | $\frac{547.8}{547.8}$ | = absolute stack temperature, °R                                    |
| $P_s$            | $\frac{30.37}{30.37}$ | = absolute stack gas pressure, in. Hg                               |
| $M_s$            | $\frac{28.41}{28.41}$ | = molecular weight of stack gas, lb/lb mol                          |
| $V_s$            | $\frac{38.0}{38.0}$   | = ft/sec  |

**Average Stack Gas Flow at Stack Conditions (Qa), acfm**

$$Q_a = 60 \times V_s \times A_s$$

where,

|       |                         |  |
|-------|-------------------------|--|
| $V_s$ | $\frac{38.0}{38.0}$     | = stack gas velocity, ft/sec                     |
| $A_s$ | $\frac{7.07}{7.07}$     | = cross-sectional area of stack, ft <sup>2</sup> |
| $Q_a$ | $\frac{16,115}{16,115}$ | = acfm   |

**Average Stack Gas Flow at Standard Conditions (Qs), dscfm**

$$Q_s = 17.636 \times Q_a \times (1 - BWS) \times \frac{P_s}{T_s}$$

where,

|       |                         |  |
|-------|-------------------------|--|
| $Q_a$ | $\frac{16,115}{16,115}$ | = average stack gas flow at stack conditions, acfm |
| BWS   | $\frac{0.041}{0.041}$   | = moisture fraction, dimensionless                 |
| $P_s$ | $\frac{30.37}{30.37}$   | = absolute stack gas pressure, in. Hg              |
| $T_s$ | $\frac{547.8}{547.8}$   | = absolute stack temperature, °R                   |
| $Q_s$ | $\frac{15,117}{15,117}$ | = dscfm  |

**Dry Gas Meter Calibration Check (Yqa), dimensionless**

$$Y_{qa} = \frac{Y - \left( \frac{\theta}{V_m} \sqrt{\frac{0.0319 \times T_m \times 29}{\Delta H @ \times \left( P_b + \frac{\Delta H_{avg.}}{13.6} \right) \times M_d}} \sqrt{\Delta H_{avg.}} \right)}{\dots} \times 100$$

where,

|                    |                         |  |
|--------------------|-------------------------|--|
| $Y$                | $\frac{0.98}{0.98}$     | = meter correction factor, dimensionless   |
| $\theta$           | $\frac{96}{96}$         | = run time, min.   |
| $V_m$              | $\frac{72.888}{72.888}$ | = total meter volume, dcf  |
| $T_m$              | $\frac{539.0}{539.0}$   | = absolute meter temperature, °R   |
| $\Delta H @$       | $\frac{1.686}{1.686}$   | = orifice meter calibration coefficient, in. H <sub>2</sub> O                                |
| $P_b$              | $\frac{30.22}{30.22}$   | = barometric pressure, in. Hg  |
| $\Delta H_{avg}$   | $\frac{1.666}{1.666}$   | = average pressure differential of orifice, in. H <sub>2</sub> O                             |
| $M_d$              | $\frac{28.85}{28.85}$   | = molecular weight (DRY), lb/lb mol  |
| $(\Delta H)^{1/2}$ | $\frac{1.284}{1.284}$   | = average squareroot pressure differential of orifice, (in. H <sub>2</sub> O) <sup>1/2</sup> |
| $Y_{qa}$           | $\frac{-0.3}{-0.3}$     | = dimensionless  |

**Volume of Nozzle (Vn), ft<sup>3</sup>**

$$V_n = \frac{T_s}{P_c} \left( 0.002669 \times V_{lc} + \frac{V_m \times P_m \times Y}{T_m} \right)$$

where,

|          |                         |  |
|----------|-------------------------|--|
| $T_s$    | $\frac{547.8}{547.8}$   | = absolute stack temperature, °R           |
| $P_s$    | $\frac{30.37}{30.37}$   | = absolute stack gas pressure, in. Hg      |
| $V_{lc}$ | $\frac{64.0}{64.0}$     | = volume of H <sub>2</sub> O collected, ml |
| $V_m$    | $\frac{72.888}{72.888}$ | = meter volume, cf                         |
| $P_m$    | $\frac{30.34}{30.34}$   | = absolute meter pressure, in. Hg          |
| $Y$      | $\frac{0.980}{0.980}$   | = meter correction factor, unitless        |
| $T_m$    | $\frac{539.0}{539.0}$   | = absolute meter temperature, °R           |
| $V_n$    | $\frac{75.594}{75.594}$ | = volume of nozzle, ft <sup>3</sup>        |

**Location:** Chemours Company - Fayetteville Works Facility, NC  
**Source:** VEN Carbon Bed Outlet  
**Project No.:** 2022-1651-001  
**Run No.:** I  
**Parameter:** HFPO-DA

**Isokinetic Sampling Rate (I), %**

$$I = \left( \frac{V_n}{\theta \times 60 \times A_n \times V_s} \right) \times 100$$

where,

|          |                |                                   |
|----------|----------------|-----------------------------------|
| $V_n$    | <u>75.594</u>  | = nozzle volume, ft <sup>3</sup>  |
| $\theta$ | <u>96.0</u>    | = run time, minutes               |
| $A_n$    | <u>0.00034</u> | = area of nozzle, ft <sup>2</sup> |
| $V_s$    | <u>38.0</u>    | = average velocity, ft/sec        |
| $I$      | <u>101.3</u>   | = %                               |

**HFPO-DA Concentration (C), ng/dscm**

$$C = \frac{M \times 35.313}{Vmstd}$$

where,

|            |                |                               |
|------------|----------------|-------------------------------|
| $M$        | <u>145,607</u> | = HFPO-DA mass, ng            |
| $Vmstd$    | <u>70,916</u>  | = standard meter volume, dscf |
| $C_{NH_3}$ | <u>7.3E+04</u> | = ng/dscm                     |

**HFPO-DA Emission Rate (ER), lb/hr**

$$ER = \frac{M \times Q_s \times 60}{Vmstd \times 4.54F + 11}$$

where,

|         |                |  |
|---------|----------------|--|
| $M$     | <u>145,607</u> | = HFPO-DA mass, ng                                     |
| $Q_s$   | <u>15,117</u>  | = average stack gas flow at standard conditions, dscfm |
| $Vmstd$ | <u>70,916</u>  | = standard meter volume, dscf                          |
| $ER$    | <u>4.1E-03</u> | = lb/hr  |



## Appendix B

**VEN Inlet**

**Location Chemours Company - Fayetteville Works Facility, NC**  
**Source VEN Carbon Bed Inlet**  
**Project No. 2022-1651-001**  
**Parameter HFPO-DA**

| Run Number                             |                        | Run 1       | Run 2       | Run 3       | Average     |
|--|------------------------|-------------|-------------|-------------|-------------|
| Date                                   |                        | 5/5/22      | 5/5/22      | 5/5/22      | --          |
| Start Time                             |                        | 8:41        | 11:12       | 13:50       | --          |
| Stop Time                              |                        | 10:45       | 13:07       | 15:42       | --          |
| Run Time, min                          | ( $\theta$ )           | 96.0        | 96.0        | 96.0        | 96.0        |
| <b>INPUT DATA</b>                      |                        |             |             |             |             |
| Barometric Pressure, in. Hg            | (Pb)                   | 30.22       | 30.22       | 30.22       | 30.22       |
| Meter Correction Factor                | (Y)                    | 0.990       | 0.990       | 0.990       | 0.990       |
| Orifice Calibration Value              | ( $\Delta H @$ )       | 1.660       | 1.660       | 1.660       | 1.660       |
| Meter Volume, ft <sup>3</sup>          | (V <sub>m</sub> )      | 69.611      | 68.532      | 69.461      | 69.201      |
| Meter Temperature, °F                  | (T <sub>m</sub> )      | 77.3        | 81.8        | 86.0        | 81.7        |
| Meter Temperature, °R                  | (T <sub>m</sub> )      | 537.0       | 541.4       | 545.7       | 541.4       |
| Meter Orifice Pressure, in. WC         | ( $\Delta H$ )         | 1.500       | 1.471       | 1.488       | 1.486       |
| Volume H <sub>2</sub> O Collected, mL  | (V <sub>lc</sub> )     | 64.8        | 58.2        | 59.4        | 60.8        |
| Nozzle Diameter, in                    | (D <sub>n</sub> )      | 0.250       | 0.250       | 0.250       | 0.250       |
| Area of Nozzle, ft <sup>2</sup>        | (A <sub>n</sub> )      | 0.0003      | 0.0003      | 0.0003      | 0.0003      |
| FH HFPO-DA Mass, ng                    | M <sub>(HFPODA)</sub>  | 196,000.0   | 274,000.0   | 215,000.0   | 228,333.3   |
| BH HFPO-DA Mass, ng                    | M <sub>(HFPODA)</sub>  | 1,210,000.0 | 901,000.0   | 1,180,000.0 | 1,097,000.0 |
| Imp HFPO-DA Mass, ng                   | M <sub>(HFPODA)</sub>  | 182,000.0   | 115,000.0   | 138,000.0   | 145,000.0   |
| Breakthrough HFPO-DA Mass, ng          | M <sub>(HFPODA)</sub>  | 1,320.0     | 3,390.0     | 2,600.0     | 2,436.67    |
| Total HFPO-DA Mass, ng                 | M <sub>(HFPODA)</sub>  | 1,589,320.0 | 1,293,390.0 | 1,535,600.0 | 1,472,770.0 |
| <b>ISOKINETIC DATA</b>                 |                        |             |             |             |             |
| Standard Meter Volume, ft <sup>3</sup> | (V <sub>mstd</sub> )   | 68.646      | 67.026      | 67.403      | 67.691      |
| Standard Water Volume, ft <sup>3</sup> | (V <sub>wstd</sub> )   | 3.056       | 2.745       | 2.801       | 2.867       |
| Moisture Fraction Measured             | (BWS <sub>msd</sub> )  | 0.043       | 0.039       | 0.040       | 0.041       |
| Moisture Fraction @ Saturation         | (BWS <sub>sat</sub> )  | 0.041       | 0.041       | 0.043       | 0.042       |
| Moisture Fraction                      | (BWS)                  | 0.041       | 0.039       | 0.040       | 0.040       |
| Meter Pressure, in Hg                  | (P <sub>m</sub> )      | 30.33       | 30.33       | 30.33       | 30.33       |
| Volume at Nozzle, ft <sup>3</sup>      | (V <sub>n</sub> )      | 73.914      | 71.923      | 72.702      | 72.85       |
| Isokinetic Sampling Rate, (%)          | (I)                    | 102.0       | 100.8       | 100.8       | 101.2       |
| DGM Calibration Check Value, (+/- 5%)  | (Y <sub>qa</sub> )     | 0.4         | -0.6        | -0.1        | -0.1        |
| <b>EMISSION CALCULATIONS</b>           |                        |             |             |             |             |
| HFPO-DA Concentration, ng/dscm         | C <sub>(HFPODA)</sub>  | 8.2E+05     | 6.8E+05     | 8.0E+05     | 7.7E+05     |
| HFPO-DA Emission Rate, lb/hr           | ER <sub>(HFPODA)</sub> | 4.5E-02     | 3.7E-02     | 4.4E-02     | 4.2E-02     |

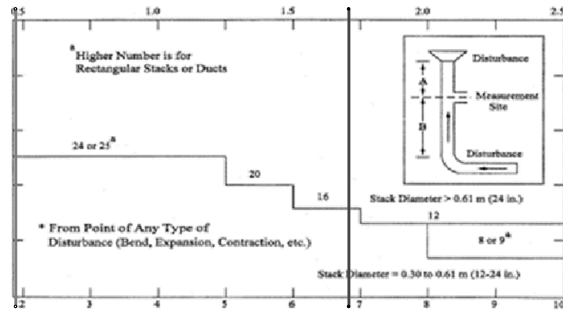
**Location Chemours Company - Fayetteville Works Facility, NC**  
**Source VEN Carbon Bed Inlet**  
**Project No. 2022-1651-001**  
**Parameter HFPO-DA**

| Run Number  | Run 1              | Run 2  | Run 3  | Average |         |
|---|--------------------|--------|--------|---------|---------|
| Date  | 5/5/22             | 5/5/22 | 5/5/22 | --      |         |
| Start Time  | 8:41               | 11:12  | 13:50  | --      |         |
| Stop Time   | 10:45              | 13:07  | 15:42  | --      |         |
| Run Time, min                                       | 96.0               | 96.0   | 96.0   | 96.0    |         |
| VELOCITY HEAD, in. WC                               |                    |        |        |         |         |
| Point 1   | 0.32               | 0.30   | 0.30   | 0.31    |         |
| Point 2   | 0.34               | 0.32   | 0.32   | 0.33    |         |
| Point 3   | 0.33               | 0.32   | 0.31   | 0.32    |         |
| Point 4   | 0.33               | 0.34   | 0.33   | 0.33    |         |
| Point 5   | 0.38               | 0.34   | 0.32   | 0.35    |         |
| Point 6   | 0.38               | 0.34   | 0.34   | 0.35    |         |
| Point 7   | 0.36               | 0.35   | 0.38   | 0.36    |         |
| Point 8   | 0.37               | 0.42   | 0.41   | 0.40    |         |
| Point 9   | 0.43               | 0.43   | 0.42   | 0.43    |         |
| Point 10  | 0.42               | 0.45   | 0.44   | 0.44    |         |
| Point 11  | 0.43               | 0.43   | 0.43   | 0.43    |         |
| Point 12  | 0.40               | 0.38   | 0.40   | 0.39    |         |
| Point 13  | 0.44               | 0.41   | 0.45   | 0.43    |         |
| Point 14  | 0.43               | 0.43   | 0.45   | 0.44    |         |
| Point 15  | 0.43               | 0.43   | 0.46   | 0.44    |         |
| Point 16  | 0.45               | 0.42   | 0.48   | 0.45    |         |
| Point 17  | 0.48               | 0.43   | 0.46   | 0.46    |         |
| Point 18  | 0.48               | 0.44   | 0.46   | 0.46    |         |
| Point 19  | 0.50               | 0.47   | 0.47   | 0.48    |         |
| Point 20  | 0.49               | 0.46   | 0.47   | 0.47    |         |
| Point 21  | 0.45               | 0.46   | 0.45   | 0.45    |         |
| Point 22  | 0.45               | 0.44   | 0.45   | 0.45    |         |
| Point 23  | 0.44               | 0.43   | 0.42   | 0.43    |         |
| Point 24  | 0.38               | 0.40   | 0.40   | 0.39    |         |
| CALCULATED DATA                                     |                    |        |        |         |         |
| Square Root of $\Delta P$ , (in. WC) <sup>1/2</sup> | ( $\Delta P$ )     | 0.641  | 0.632  | 0.638   | 0.637   |
| Pitot Tube Coefficient                              | (Cp)               | 0.840  | 0.840  | 0.840   | 0.840   |
| Barometric Pressure, in. Hg                         | (Pb)               | 30.22  | 30.22  | 30.22   | 30.22   |
| Static Pressure, in. WC                             | (Pg)               | -3.20  | -3.20  | -3.60   | -3.33   |
| Stack Pressure, in. Hg                              | (Ps)               | 29.98  | 29.98  | 29.96   | 29.97   |
| Stack Cross-sectional Area, ft <sup>2</sup>         | (As)               | 7.07   | 7.07   | 7.07    | 7.07    |
| Temperature, °F                                     | (Ts)               | 85.5   | 85.5   | 87.5    | 86.2    |
| Temperature, °R                                     | (Ts)               | 545.2  | 545.2  | 547.1   | 545.823 |
| Moisture Fraction Measured                          | (BWSmsd)           | 0.043  | 0.039  | 0.040   | 0.041   |
| Moisture Fraction @ Saturation                      | (BWSsat)           | 0.041  | 0.041  | 0.043   | 0.042   |
| Moisture Fraction                                   | (BWS)              | 0.041  | 0.039  | 0.040   | 0.040   |
| O <sub>2</sub> Concentration, %                     | (O <sub>2</sub> )  | 20.9   | 20.9   | 20.9    | 20.9    |
| CO <sub>2</sub> Concentration, %                    | (CO <sub>2</sub> ) | 0.1    | 0.1    | 0.1     | 0.1     |
| Molecular Weight, lb/lb-mole (dry)                  | (Md)               | 28.85  | 28.85  | 28.85   | 28.85   |
| Molecular Weight, lb/lb-mole (wet)                  | (Ms)               | 28.41  | 28.43  | 28.42   | 28.42   |
| Velocity, ft/sec                                    | (Vs)               | 36.8   | 36.3   | 36.7    | 36.6    |
| VOLUMETRIC FLOW RATE                                |                    |        |        |         |         |
| At Stack Conditions, acfm                           | (Qa)               | 15,624 | 15,406 | 15,578  | 15,536  |
| At Standard Conditions, dscfm                       | (Qs)               | 14,538 | 14,355 | 14,441  | 14,445  |

Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Inlet  
 Project No. 2022-1651-001  
 Date: 05/04/22

**Stack Parameters**

Duct Orientation: Horizontal  
 Duct Design: Circular  
 Distance from Far Wall to Outside of Port: 51.13 in  
 Nipple Length: 15.13 in  
 Depth of Duct: 36.00 in  
 Cross Sectional Area of Duct: 7.07 ft<sup>2</sup>  
 No. of Test Ports: 2  
 Distance A: 5.1 ft  
 Distance A Duct Diameters: 1.7 (must be > 0.5)  
 Distance B: 5.7 ft  
 Distance B Duct Diameters: 1.9 (must be > 2)  
 Minimum Number of Traverse Points: 24  
 Actual Number of Traverse Points: 24  
 Number of Readings per Point: 1  
 Measurer (Initial and Date): PJG 5/4/22  
 Reviewer (Initial and Date): BAG 5/4/22



**CIRCULAR DUCT**

**LOCATION OF TRAVERSE POINTS**  
 Number of traverse points on a diameter

|    | 2    | 3  | 4    | 5  | 6    | 7  | 8    | 9  | 10   | 11 | 12   |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1  | 14.6 | -- | 6.7  | -- | 4.4  | -- | 3.2  | -- | 2.6  | -- | 2.1  |
| 2  | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2  | -- | 6.7  |
| 3  | --   | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4  | --   | -- | 93.3 | -- | 70.4 | -- | 32.3 | -- | 22.6 | -- | 17.7 |
| 5  | --   | -- | --   | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6  | --   | -- | --   | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7  | --   | -- | --   | -- | --   | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8  | --   | -- | --   | -- | --   | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9  | --   | -- | --   | -- | --   | -- | --   | -- | 91.8 | -- | 82.3 |
| 10 | --   | -- | --   | -- | --   | -- | --   | -- | 97.4 | -- | 88.2 |
| 11 | --   | -- | --   | -- | --   | -- | --   | -- | --   | -- | 93.3 |
| 12 | --   | -- | --   | -- | --   | -- | --   | -- | --   | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1              | 2.1           | 1.00                      | 16.13                         |
| 2              | 6.7           | 2.41                      | 17.54                         |
| 3              | 11.8          | 4.25                      | 19.37                         |
| 4              | 17.7          | 6.37                      | 21.50                         |
| 5              | 25.0          | 9.00                      | 24.13                         |
| 6              | 35.6          | 12.82                     | 27.94                         |
| 7              | 64.4          | 23.18                     | 38.31                         |
| 8              | 75.0          | 27.00                     | 42.13                         |
| 9              | 82.3          | 29.63                     | 44.75                         |
| 10             | 88.2          | 31.75                     | 46.88                         |
| 11             | 93.3          | 33.59                     | 48.71                         |
| 12             | 97.9          | 35.00                     | 50.13                         |

\*Percent of stack diameter from inside wall to traverse point.

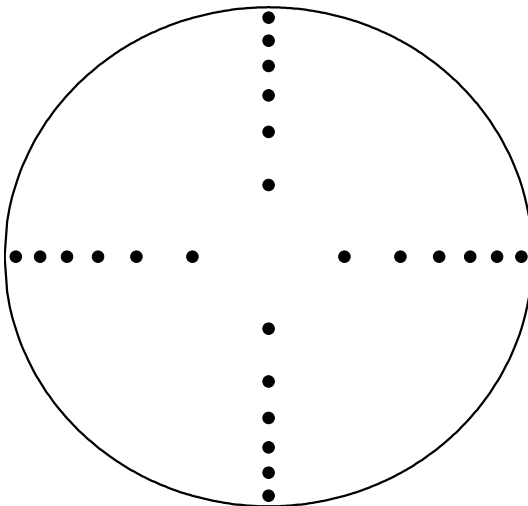
**Stack Diagram**

A = 5.1 ft.

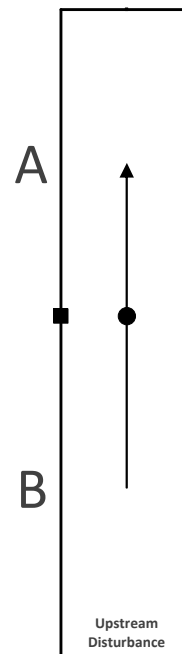
B = 5.7 ft.

Depth of Duct = 36 in.

**Cross Sectional Area**



**Downstream Disturbance**



**Location** Chemours Company - Fayetteville Works Facility, NC  
**Source** VEN Carbon Bed Inlet  
**Project No.** 2022-1651-001  
**Date** 05/05/22

| Sample Point   | Angle ( $\Delta P=0$ ) |
|----------------|------------------------|
| 1              | 10                     |
| 2              | 10                     |
| 3              | 12                     |
| 4              | 12                     |
| 5              | 12                     |
| 6              | 12                     |
| 7              | 15                     |
| 8              | 15                     |
| 9              | 12                     |
| 10             | 10                     |
| 11             | 10                     |
| 12             | 10                     |
| 13             | 10                     |
| 14             | 8                      |
| 15             | 8                      |
| 16             | 8                      |
| 17             | 8                      |
| 18             | 10                     |
| 19             | 12                     |
| 20             | 15                     |
| 21             | 12                     |
| 22             | 15                     |
| 23             | 10                     |
| 24             | 10                     |
| <b>Average</b> | 11                     |

**Location** Chemours Company - Fayetteville Works Facility, NC  
**Source** VEN Carbon Bed Inlet  
**Project No.** 2022-1651-001  
**Parameter** HFPO-DA  
**Analysis** Gravimetric

| Run 1           | Date: 5/5/22 |       |       |       |       |       |          |        |        |
|-----------------|--------------|-------|-------|-------|-------|-------|----------|--------|--------|
| Impinger No.    | 1            | 2     | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap     | Empty | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 316.6        | 491.6 | 790.6 | 783.2 | 754.6 | 513.0 | 309.4    | 803.8  | 4762.8 |
| Final Mass, g   | 336.4        | 505.6 | 789.4 | 783.8 | 755.2 | 515.2 | 324.6    | 817.4  | 4827.6 |
| Gain            | 19.8         | 14.0  | -1.2  | 0.6   | 0.6   | 2.2   | 15.2     | 13.6   | 64.8   |
| Run 2           | Date: 5/5/22 |       |       |       |       |       |          |        |        |
| Impinger No.    | 1            | 2     | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap     | Empty | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 316.0        | 479.2 | 747.4 | 733.0 | 728.6 | 469.4 | 293.6    | 801.8  | 4569.0 |
| Final Mass, g   | 335.4        | 488.8 | 745.0 | 731.8 | 728.8 | 471.8 | 308.8    | 816.8  | 4627.2 |
| Gain            | 19.4         | 9.6   | -2.4  | -1.2  | 0.2   | 2.4   | 15.2     | 15.0   | 58.2   |
| Run 3           | Date: 5/5/22 |       |       |       |       |       |          |        |        |
| Impinger No.    | 1            | 2     | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap     | Empty | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 297.6        | 491.8 | 798.8 | 784.8 | 756.2 | 512.8 | 304.8    | 842.4  | 4789.2 |
| Final Mass, g   | 322.4        | 501.2 | 797.0 | 784.4 | 756.0 | 515.4 | 316.6    | 855.6  | 4848.6 |
| Gain            | 24.8         | 9.4   | -1.8  | -0.4  | -0.2  | 2.6   | 11.8     | 13.2   | 59.4   |

| Location: <b>Chemours Company - Fayetteville Works Facility, NC</b> |  |                     | Start Time: <b>8:41</b>            |                        |  | Source: <b>VEN Carbon Bed Inlet</b>  |  |                           |            |  |   |  |  |                     |  |
|---|--|---------------------|------------------------------------|------------------------|--|--|--|---------------------------|------------|--|---|--|--|---------------------|--|
| Date: <b>5/5/22</b>   |  | Run 1: <b>VALID</b> |                                    | End Time: <b>10:45</b> |  | Project No.: <b>2022-1651-001</b>  |  | Parameter: <b>HFPO-DA</b> |            |  |   |  |  |                     |  |
| STACK DATA (EST)  |  |                     | EQUIPMENT                          |                        |  | STACK DATA (EST)   |  |                           | FILTER NO. |  | STACK DATA (FINAL)                                    |  |  | MOIST. DATA         |  |
| Moisture: <b>2.5</b> % est.   |  |                     | Meter Box ID: <b>4</b>             |                        |  | Est. Tm: <b>55</b> °F  |  |                           |            |  | Pb: <b>30.22</b> in. Hg                               |  |  | Vlc (ml)            |  |
| Barometric: <b>30.15</b> in. Hg                                     |  |                     | Y: <b>0.990</b>                    |                        |  | Est. Ts: <b>92</b> °F  |  |                           |            |  | Pg: <b>-3.20</b> in. WC                               |  |  | <b>64.8</b>         |  |
| Static Press: <b>-6.80</b> in. WC                                   |  |                     | ΔH @ (in.WC): <b>1.660</b>         |                        |  | Est. ΔP: <b>0.62</b> in. WC  |  |                           |            |  | O <sub>2</sub> : <b>20.9</b> %                        |  |  | K-FACTOR            |  |
| Stack Press: <b>29.65</b> in. Hg                                    |  |                     | Probe ID: <b>P4-3</b>              |                        |  | Est. Dn: <b>0.243</b> in.  |  |                           |            |  | CO <sub>2</sub> : <b>0.1</b> %                        |  |  | <b>3.397</b>        |  |
| CO <sub>2</sub> : <b>0.1</b> %                                      |  |                     | Liner Material: <b>glass</b>       |                        |  | Target Rate: <b>0.78</b> scfm  |  |                           |            |  | Check Pt.   |  |  | Initial Final Corr. |  |
| O <sub>2</sub> : <b>20.9</b> %                                      |  |                     | Pitot ID: <b>P4-3</b>              |                        |  | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post   |  |                           |            |  | Mid 1 (cf) <b>545.846</b> <b>546.048</b> <b>0.202</b> |  |  |                     |  |
| N <sub>2</sub> /CO: <b>79.0</b> %                                   |  |                     | Pitot Cp/Type: <b>0.840</b> S-type |                        |  | Leak Rate (cfm): <b>0.008</b> <b>0.009</b> <b>0.010</b> <b>--</b> <b>0.011</b> |  |                           |            |  | Mid 2 (cf) <b>546.048</b> <b>546.552</b> <b>0.504</b> |  |  |                     |  |
| Md: <b>28.85</b> lb/lb-mole   |  |                     | Nozzle ID: <b>G-2</b> glass        |                        |  | Vacuum (in Hg): <b>12</b> <b>16</b> <b>12</b> <b>--</b> <b>16</b>              |  |                           |            |  | Mid 3 (cf) <b>--</b> <b>--</b> <b>--</b>              |  |  |                     |  |
| Ms: <b>28.58</b> lb/lb-mole   |  |                     | Nozzle Dn (in.): <b>0.250</b>      |                        |  | Pitot Tube: <b>Pass</b> <b>--</b> <b>--</b> <b>--</b> <b>Pass</b>              |  |                           |            |  | Mid-Point Leak Check Vol (cf): <b>0.706</b>           |  |  |                     |  |

| Sample Pt.        | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |      | Orifice Press. ΔH (in. WC) |       | Pump Vac (in. Hg) | Gas Temperatures (°F) |       |        |          | % ISO | Vs (fps) |
|-------------------|-----------------------|-------|--|-----------------------|-----------------------|------|----------------------------|-------|-------------------|-----------------------|-------|--------|----------|-------|----------|
|                   |                       |       |  |                       | DGM Average           |      | Stack                      | Ideal |                   | Actual                | Probe | Filter | Imp Exit |       |          |
|                   | Amb.                  | Amb.  |  |                       | Amb.                  | Amb. | Amb.                       |       |                   |                       | Amb.  | Amb.   | Amb.     |       |          |
|                   | Begin                 | End   |  |                       | -                     | -    | -                          | -     |                   | -                     | -     | -      | -        |       |          |
| A1                | 0.00                  | 4.00  | 512.084                                  | 0.32                  | 70                    | 85   | 1.13                       | 1.20  | 4                 | 90                    | 98    | 64     | 56       | 96.6  | 32.57    |
| 2                 | 4.00                  | 8.00  | 514.500                                  | 0.34                  | 71                    | 85   | 1.21                       | 1.30  | 4                 | 90                    | 98    | 55     | 57       | 104.5 | 33.57    |
| 3                 | 8.00                  | 12.00 | 517.200                                  | 0.33                  | 73                    | 85   | 1.18                       | 1.20  | 5                 | 90                    | 98    | 54     | 54       | 105.7 | 33.07    |
| 4                 | 12.00                 | 16.00 | 519.900                                  | 0.33                  | 74                    | 85   | 1.18                       | 1.20  | 5                 | 89                    | 97    | 54     | 54       | 105.5 | 33.07    |
| 5                 | 16.00                 | 20.00 | 522.600                                  | 0.38                  | 75                    | 85   | 1.36                       | 1.40  | 5                 | 89                    | 98    | 53     | 50       | 98.2  | 35.49    |
| 6                 | 20.00                 | 24.00 | 525.300                                  | 0.38                  | 75                    | 85   | 1.36                       | 1.40  | 5                 | 89                    | 99    | 52     | 51       | 101.8 | 35.49    |
| 7                 | 24.00                 | 28.00 | 528.100                                  | 0.36                  | 75                    | 85   | 1.29                       | 1.30  | 5                 | 88                    | 99    | 54     | 53       | 104.6 | 34.54    |
| 8                 | 28.00                 | 32.00 | 530.900                                  | 0.37                  | 75                    | 85   | 1.32                       | 1.30  | 5                 | 90                    | 98    | 55     | 53       | 106.8 | 35.02    |
| 9                 | 32.00                 | 36.00 | 533.800                                  | 0.43                  | 76                    | 85   | 1.54                       | 1.60  | 6                 | 91                    | 97    | 55     | 52       | 105.8 | 37.75    |
| 10                | 36.00                 | 40.00 | 536.900                                  | 0.42                  | 77                    | 85   | 1.51                       | 1.50  | 6                 | 89                    | 97    | 55     | 53       | 106.8 | 37.31    |
| 11                | 40.00                 | 44.00 | 540.000                                  | 0.43                  | 78                    | 85   | 1.55                       | 1.60  | 6                 | 90                    | 97    | 54     | 52       | 102.0 | 37.75    |
| 12                | 44.00                 | 48.00 | 543.000                                  | 0.40                  | 78                    | 85   | 1.44                       | 1.40  | 6                 | 89                    | 98    | 53     | 52       | 100.3 | 36.41    |
| B1                | 48.00                 | 52.00 | 545.846                                  | 0.44                  | 78                    | 86   | 1.58                       | 1.60  | 6                 | 93                    | 96    | 58     | 56       | 106.1 | 38.22    |
| 2                 | 52.00                 | 56.00 | 549.000                                  | 0.43                  | 79                    | 86   | 1.55                       | 1.60  | 6                 | 96                    | 98    | 50     | 48       | 105.3 | 37.79    |
| 3                 | 56.00                 | 60.00 | 552.100                                  | 0.43                  | 79                    | 86   | 1.55                       | 1.60  | 7                 | 100                   | 99    | 51     | 49       | 98.5  | 37.79    |
| 4                 | 60.00                 | 64.00 | 555.000                                  | 0.45                  | 79                    | 86   | 1.62                       | 1.60  | 7                 | 100                   | 98    | 52     | 50       | 102.9 | 38.66    |
| 5                 | 64.00                 | 68.00 | 558.100                                  | 0.48                  | 80                    | 86   | 1.73                       | 1.70  | 7                 | 101                   | 99    | 50     | 51       | 96.3  | 39.92    |
| 6                 | 68.00                 | 72.00 | 561.100                                  | 0.48                  | 80                    | 86   | 1.73                       | 1.70  | 7                 | 97                    | 98    | 50     | 52       | 102.7 | 39.92    |
| 7                 | 72.00                 | 76.00 | 564.300                                  | 0.50                  | 80                    | 86   | 1.80                       | 1.80  | 8                 | 95                    | 99    | 50     | 49       | 94.4  | 40.75    |
| 8                 | 76.00                 | 80.00 | 567.300                                  | 0.49                  | 80                    | 86   | 1.76                       | 1.80  | 8                 | 97                    | 98    | 50     | 48       | 104.9 | 40.34    |
| 9                 | 80.00                 | 84.00 | 570.600                                  | 0.45                  | 81                    | 86   | 1.62                       | 1.60  | 8                 | 98                    | 97    | 51     | 50       | 95.9  | 38.66    |
| 10                | 84.00                 | 88.00 | 573.500                                  | 0.45                  | 81                    | 86   | 1.62                       | 1.60  | 8                 | 98                    | 97    | 51     | 50       | 99.3  | 38.66    |
| 11                | 88.00                 | 92.00 | 576.500                                  | 0.44                  | 81                    | 86   | 1.59                       | 1.60  | 8                 | 99                    | 96    | 51     | 49       | 103.7 | 38.22    |
| 12                | 92.00                 | 96.00 | 579.600                                  | 0.38                  | 81                    | 86   | 1.37                       | 1.40  | 8                 | 97                    | 97    | 50     | 48       | 100.8 | 35.52    |
| <b>Final DGM:</b> |                       |       | <b>582.401</b>                           |                       |                       |      |                            |       |                   |                       |       |        |          |       |          |

| RESULTS | Run Time |     | Vm              | ΔP     | Tm   | Ts   | Max Vac | ΔH     | %ISO  | BWS   | Y <sub>qa</sub> |
|---------|----------|-----|-----------------|--------|------|------|---------|--------|-------|-------|-----------------|
|         | min      | sec | ft <sup>3</sup> | in. WC | °F   | °F   |         | in. WC |       |       |                 |
|         | 96.0     |     | 69.611          | 0.41   | 77.3 | 85.5 | 8       | 1.500  | 102.0 | 0.041 | 0.4             |



| Location: <b>Chemours Company - Fayetteville Works Facility, NC</b> |                                    |  | Start Time: <b>11:12</b> |                                   | Source: <b>VEN Carbon Bed Inlet</b> |            |                    |  |             |  |  |
|---|------------------------------------|--|--------------------------|-----------------------------------|-------------------------------------|------------|--------------------|--|-------------|--|--|
| Date: <b>5/5/22</b>   | Run: <b>Run 2</b>                  | VALID  | End Time: <b>13:07</b>   | Project No.: <b>2022-1651-001</b> | Parameter: <b>HFPO-DA</b>           |            |                    |  |             |  |  |
| STACK DATA (EST)  |                                    | EQUIPMENT  |                          | STACK DATA (EST)                  |                                     | FILTER NO. | STACK DATA (FINAL) |  | MOIST. DATA |  |  |
| Moisture: <b>2.5</b> % est.   | Meter Box ID: <b>4</b>             | Est. Tm: <b>77</b> °F                              |                          | Pb: <b>30.22</b> in. Hg           | Vlc (ml)                            |            |                    |  |             |  |  |
| Barometric: <b>30.15</b> in. Hg                                     | Y: <b>0.990</b>                    | Est. Ts: <b>86</b> °F                              |                          | Pg: <b>-3.20</b> in. WC           | 58.2                                |            |                    |  |             |  |  |
| Static Press: <b>-6.80</b> in. WC                                   | AH @ (in. WC): <b>1.660</b>        | Est. AP: <b>0.41</b> in. WC                        |                          | O <sub>2</sub> : <b>20.9</b> %    | K-FACTOR                            |            |                    |  |             |  |  |
| Stack Press: <b>29.65</b> in. Hg                                    | Probe ID: <b>P4-3</b>              | Est. Dn: <b>0.262</b> in.                          |                          | CO <sub>2</sub> : <b>0.1</b> %    | 3.59                                |            |                    |  |             |  |  |
| CO <sub>2</sub> : <b>0.1</b> %                                      | Liner Material: <b>glass</b>       | Target Rate: <b>0.78</b> scfm                      |                          | Check Pt.                         | Initial                             | Final      | Corr.              |  |             |  |  |
| O <sub>2</sub> : <b>20.9</b> %                                      | Pitot ID: <b>P4-3</b>              | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post             |                          | Mid 1 (cf)                        | 615.556                             | 615.706    | 0.150              |  |             |  |  |
| N <sub>2</sub> /CO: <b>79.0</b> %                                   | Pitot Cp/Type: <b>0.840</b> S-type | Leak Rate (cfm): <b>0.008 0.009 0.008 -- 0.007</b> |                          | Mid 2 (cf)                        | 615.706                             | 615.926    | 0.220              |  |             |  |  |
| Md: <b>28.85</b> lb/lb-mole   | Nozzle ID: <b>G-2</b> glass        | Vacuum (in Hg): <b>16 12 14 -- 12</b>              |                          | Mid 3 (cf)                        | --                                  | --         | --                 |  |             |  |  |
| Ms: <b>28.58</b> lb/lb-mole   | Nozzle Dn (in.): <b>0.250</b>      | Pitot Tube: <b>Pass -- -- -- Pass</b>              |                          | Mid-Point Leak Check Vol (cf):    |                                     |            | <b>0.370</b>       |  |             |  |  |

| Sample Pt. | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |       | Orifice Press. ΔH (in. WC) |        | Pump Vac (in. Hg) | Gas Temperatures (°F) |        |          |      | % ISO | Vs (fps) |
|------------|-----------------------|-------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
|            | Begin                 | End   |  |                       | DGM Average           | Stack | Ideal                      | Actual |                   | Probe                 | Filter | Imp Exit | Aux  |       |          |
|            |                       |       |  |                       | Amb.                  | Amb.  |                            |        |                   | Amb.                  | Amb.   | Amb.     | Amb. |       |          |
| A1         | 0.00                  | 4.00  | 582.906                                  | 0.30                  | 79                    | 85    | 1.08                       | 1.10   | 4                 | 90                    | 100    | 63       | 54   | 101.2 | 31.53    |
| 2          | 4.00                  | 8.00  | 585.400                                  | 0.32                  | 79                    | 85    | 1.15                       | 1.20   | 4                 | 96                    | 98     | 58       | 52   | 102.2 | 32.57    |
| 3          | 8.00                  | 12.00 | 588.000                                  | 0.32                  | 80                    | 85    | 1.16                       | 1.20   | 4                 | 100                   | 98     | 59       | 48   | 102.0 | 32.57    |
| 4          | 12.00                 | 16.00 | 590.600                                  | 0.34                  | 80                    | 85    | 1.23                       | 1.20   | 4                 | 98                    | 95     | 59       | 50   | 99.0  | 33.57    |
| 5          | 16.00                 | 20.00 | 593.200                                  | 0.34                  | 80                    | 85    | 1.23                       | 1.20   | 4                 | 95                    | 98     | 59       | 50   | 102.8 | 33.57    |
| 6          | 20.00                 | 24.00 | 595.900                                  | 0.34                  | 81                    | 85    | 1.23                       | 1.20   | 4                 | 98                    | 95     | 56       | 48   | 95.0  | 33.57    |
| 7          | 24.00                 | 28.00 | 598.400                                  | 0.35                  | 81                    | 85    | 1.27                       | 1.30   | 4                 | 97                    | 98     | 54       | 49   | 101.1 | 34.06    |
| 8          | 28.00                 | 32.00 | 601.100                                  | 0.42                  | 81                    | 85    | 1.52                       | 1.50   | 5                 | 98                    | 100    | 54       | 50   | 95.8  | 37.31    |
| 9          | 32.00                 | 36.00 | 603.900                                  | 0.43                  | 82                    | 85    | 1.56                       | 1.60   | 6                 | 99                    | 101    | 53       | 49   | 94.5  | 37.75    |
| 10         | 36.00                 | 40.00 | 606.700                                  | 0.45                  | 82                    | 85    | 1.63                       | 1.60   | 6                 | 98                    | 100    | 54       | 50   | 102.3 | 38.62    |
| 11         | 40.00                 | 44.00 | 609.800                                  | 0.43                  | 82                    | 85    | 1.56                       | 1.60   | 6                 | 100                   | 101    | 54       | 51   | 97.9  | 37.75    |
| 12         | 44.00                 | 48.00 | 612.700                                  | 0.38                  | 82                    | 85    | 1.38                       | 1.40   | 6                 | 98                    | 99     | 54       | 51   | 102.5 | 35.49    |
| B1         | 48.00                 | 52.00 | 615.556                                  | 0.41                  | 80                    | 86    | 1.48                       | 1.50   | 8                 | 99                    | 99     | 58       | 52   | 105.7 | 36.90    |
| 2          | 52.00                 | 56.00 | 618.600                                  | 0.43                  | 81                    | 86    | 1.55                       | 1.60   | 8                 | 102                   | 98     | 55       | 45   | 104.9 | 37.79    |
| 3          | 56.00                 | 60.00 | 621.700                                  | 0.43                  | 81                    | 86    | 1.55                       | 1.60   | 8                 | 100                   | 99     | 55       | 46   | 104.9 | 37.79    |
| 4          | 60.00                 | 64.00 | 624.800                                  | 0.42                  | 81                    | 86    | 1.52                       | 1.50   | 8                 | 101                   | 94     | 57       | 48   | 102.7 | 37.35    |
| 5          | 64.00                 | 68.00 | 627.800                                  | 0.43                  | 83                    | 86    | 1.56                       | 1.60   | 8                 | 99                    | 96     | 56       | 48   | 97.8  | 37.79    |
| 6          | 68.00                 | 72.00 | 630.700                                  | 0.44                  | 83                    | 86    | 1.59                       | 1.60   | 8                 | 98                    | 97     | 56       | 48   | 100.0 | 38.22    |
| 7          | 72.00                 | 76.00 | 633.700                                  | 0.47                  | 83                    | 86    | 1.70                       | 1.70   | 8                 | 100                   | 99     | 57       | 48   | 96.8  | 39.51    |
| 8          | 76.00                 | 80.00 | 636.700                                  | 0.46                  | 83                    | 86    | 1.67                       | 1.70   | 8                 | 102                   | 100    | 56       | 48   | 104.4 | 39.08    |
| 9          | 80.00                 | 84.00 | 639.900                                  | 0.46                  | 84                    | 86    | 1.67                       | 1.70   | 8                 | 98                    | 99     | 56       | 47   | 100.9 | 39.08    |
| 10         | 84.00                 | 88.00 | 643.000                                  | 0.44                  | 84                    | 86    | 1.60                       | 1.60   | 8                 | 100                   | 94     | 58       | 49   | 103.1 | 38.22    |
| 11         | 88.00                 | 92.00 | 646.100                                  | 0.43                  | 85                    | 86    | 1.56                       | 1.60   | 8                 | 99                    | 96     | 59       | 50   | 100.8 | 37.79    |
| 12         | 92.00                 | 96.00 | 649.100                                  | 0.40                  | 85                    | 86    | 1.45                       | 1.50   | 8                 | 100                   | 98     | 60       | 52   | 94.3  | 36.45    |

**Final DGM:** 651.808

| RESULTS | Run Time |  | Vm              | ΔP     | Tm   | Ts   | Max Vac | ΔH     | %ISO  | BWS   | Y <sub>qa</sub> |
|---------|----------|--|-----------------|--------|------|------|---------|--------|-------|-------|-----------------|
|         | min      |  | ft <sup>3</sup> | in. WC | °F   | °F   |         | in. WC |       |       |                 |
|         | 96.0     |  | 68.532          | 0.40   | 81.8 | 85.5 | 8       | 1.471  | 100.8 | 0.039 | -0.6            |

|   |                   |       |                          |  |                                     |                           |  |
|---|-------------------|-------|--------------------------|--|-------------------------------------|---------------------------|--|
| Location: <b>Chemours Company - Fayetteville Works Facility, NC</b> |                   |       | Start Time: <b>13:50</b> |  | Source: <b>VEN Carbon Bed Inlet</b> |                           |  |
| Date: <b>5/5/22</b>   | Run: <b>Run 3</b> | VALID | End Time: <b>15:42</b>   |  | Project No.: <b>2022-1651-001</b>   | Parameter: <b>HFPO-DA</b> |  |

| STACK DATA (EST)                  | EQUIPMENT                          | STACK DATA (EST)                                   | FILTER NO. | STACK DATA (FINAL)             | MOIST. DATA  |
|-----------------------------------|------------------------------------|--|------------|--------------------------------|--------------|
| Moisture: <b>2.5</b> % est.       | Meter Box ID: <b>4</b>             | Est. Tm: <b>82</b> °F                              |            | Pb: <b>30.22</b> in. Hg        | Vlc (ml)     |
| Barometric: <b>30.15</b> in. Hg   | Y: <b>0.990</b>                    | Est. Ts: <b>86</b> °F                              |            | Pg: <b>-3.60</b> in. WC        | <b>59.4</b>  |
| Static Press: <b>-6.80</b> in. WC | ΔH @ (in. WC): <b>1.660</b>        | Est. AP: <b>0.40</b> in. WC                        |            | O <sub>2</sub> : <b>20.9</b> % | K-FACTOR     |
| Stack Press: <b>29.65</b> in. Hg  | Probe ID: <b>P4-3</b>              | Est. Dn: <b>0.263</b> in.                          |            | CO <sub>2</sub> : <b>0.1</b> % | <b>3.616</b> |
| CO <sub>2</sub> : <b>0.1</b> %    | Liner Material: <b>glass</b>       | Target Rate: <b>0.78</b> scfm                      |            | Check Pt.                      | Initial      |
| O <sub>2</sub> : <b>20.9</b> %    | Pitot ID: <b>P4-3</b>              | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post             |            | Mid 1 (cf)                     | 686.471      |
| N <sub>2</sub> /CO: <b>79.0</b> % | Pitot Cp/Type: <b>0.840</b> S-type | Leak Rate (cfm): <b>0.011 0.009 0.008 -- 0.007</b> |            | Mid 2 (cf)                     | 686.581      |
| Md: <b>28.85</b> lb/lb-mole       | Nozzle ID: <b>G-2</b> glass        | Vacuum (in Hg): <b>12 11 12 -- 14</b>              |            | Mid 3 (cf)                     | 686.756      |
| Ms: <b>28.58</b> lb/lb-mole       | Nozzle Dn (in.): <b>0.250</b>      | Pitot Tube: <b>Pass -- -- -- Pass</b>              |            | Mid-Point Leak Check Vol (cf): | <b>0.285</b> |

| Sample Pt. | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |       | Orifice Press. ΔH (in. WC) |        | Pump Vac (in. Hg) | Gas Temperatures (°F) |        |          |      | % ISO | Vs (fps) |
|------------|-----------------------|-------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
|            | Begin                 | End   |  |                       | DGM Average           | Stack | Ideal                      | Actual |                   | Probe                 | Filter | Imp Exit | Aux  |       |          |
|            |                       |       |  |                       | Amb.                  | Amb.  |                            |        |                   | Amb.                  | Amb.   | Amb.     | Amb. |       |          |
| A1         | 0.00                  | 4.00  | 653.304                                  | 0.30                  | 82                    | 86    | 1.09                       | 1.10   | 4                 | 98                    | 100    | 65       | 58   | 100.8 | 31.56    |
| 2          | 4.00                  | 8.00  | 655.800                                  | 0.32                  | 84                    | 86    | 1.16                       | 1.20   | 4                 | 99                    | 101    | 62       | 56   | 101.3 | 32.60    |
| 3          | 8.00                  | 12.00 | 658.400                                  | 0.31                  | 84                    | 87    | 1.12                       | 1.10   | 4                 | 100                   | 102    | 58       | 54   | 101.8 | 32.11    |
| 4          | 12.00                 | 16.00 | 660.970                                  | 0.33                  | 84                    | 87    | 1.20                       | 1.20   | 4                 | 97                    | 95     | 56       | 53   | 101.0 | 33.13    |
| 5          | 16.00                 | 20.00 | 663.600                                  | 0.32                  | 84                    | 87    | 1.16                       | 1.20   | 4                 | 93                    | 96     | 56       | 53   | 103.4 | 32.63    |
| 6          | 20.00                 | 24.00 | 666.250                                  | 0.34                  | 85                    | 87    | 1.23                       | 1.20   | 4                 | 94                    | 95     | 56       | 55   | 99.4  | 33.63    |
| 7          | 24.00                 | 28.00 | 668.880                                  | 0.38                  | 85                    | 87    | 1.38                       | 1.40   | 4                 | 98                    | 95     | 56       | 55   | 97.3  | 35.55    |
| 8          | 28.00                 | 32.00 | 671.600                                  | 0.41                  | 85                    | 87    | 1.49                       | 1.50   | 5                 | 100                   | 96     | 56       | 54   | 99.8  | 36.93    |
| 9          | 32.00                 | 36.00 | 674.500                                  | 0.42                  | 86                    | 87    | 1.53                       | 1.50   | 5                 | 99                    | 97     | 56       | 54   | 101.9 | 37.38    |
| 10         | 36.00                 | 40.00 | 677.500                                  | 0.44                  | 86                    | 87    | 1.60                       | 1.60   | 5                 | 98                    | 94     | 57       | 55   | 102.9 | 38.26    |
| 11         | 40.00                 | 44.00 | 680.600                                  | 0.43                  | 86                    | 87    | 1.56                       | 1.60   | 5                 | 100                   | 98     | 56       | 54   | 100.7 | 37.82    |
| 12         | 44.00                 | 48.00 | 683.600                                  | 0.40                  | 87                    | 88    | 1.45                       | 1.50   | 5                 | 100                   | 98     | 54       | 52   | 99.8  | 36.51    |
| B1         | 48.00                 | 52.00 | 686.471                                  | 0.45                  | 85                    | 88    | 1.63                       | 1.60   | 6                 | 98                    | 95     | 66       | 63   | 103.0 | 38.73    |
| 2          | 52.00                 | 56.00 | 689.600                                  | 0.45                  | 86                    | 88    | 1.63                       | 1.60   | 6                 | 99                    | 96     | 54       | 50   | 101.8 | 38.73    |
| 3          | 56.00                 | 60.00 | 692.700                                  | 0.46                  | 86                    | 88    | 1.67                       | 1.70   | 6                 | 100                   | 98     | 51       | 49   | 94.2  | 39.15    |
| 4          | 60.00                 | 64.00 | 695.600                                  | 0.48                  | 87                    | 88    | 1.74                       | 1.70   | 7                 | 99                    | 98     | 52       | 46   | 95.2  | 40.00    |
| 5          | 64.00                 | 68.00 | 698.600                                  | 0.46                  | 87                    | 88    | 1.67                       | 1.70   | 8                 | 100                   | 102    | 50       | 47   | 100.5 | 39.15    |
| 6          | 68.00                 | 72.00 | 701.700                                  | 0.46                  | 87                    | 88    | 1.67                       | 1.70   | 8                 | 99                    | 101    | 49       | 48   | 100.5 | 39.15    |
| 7          | 72.00                 | 76.00 | 704.800                                  | 0.47                  | 88                    | 88    | 1.71                       | 1.70   | 8                 | 97                    | 100    | 50       | 49   | 102.5 | 39.58    |
| 8          | 76.00                 | 80.00 | 708.000                                  | 0.47                  | 89                    | 88    | 1.71                       | 1.70   | 8                 | 100                   | 101    | 51       | 50   | 99.1  | 39.58    |
| 9          | 80.00                 | 84.00 | 711.100                                  | 0.45                  | 88                    | 88    | 1.64                       | 1.60   | 8                 | 99                    | 97     | 52       | 51   | 98.2  | 38.73    |
| 10         | 84.00                 | 88.00 | 714.100                                  | 0.45                  | 88                    | 88    | 1.64                       | 1.60   | 8                 | 97                    | 100    | 53       | 51   | 94.9  | 38.73    |
| 11         | 88.00                 | 92.00 | 717.000                                  | 0.42                  | 88                    | 88    | 1.53                       | 1.50   | 8                 | 98                    | 102    | 54       | 52   | 101.6 | 37.41    |
| 12         | 92.00                 | 96.00 | 720.000                                  | 0.40                  | 88                    | 88    | 1.46                       | 1.50   | 8                 | 97                    | 99     | 55       | 52   | 105.8 | 36.51    |

**Final DGM:** 723.050

| RESULTS | Run Time |     | Vm              | ΔP     | Tm   | Ts   | Max Vac | ΔH     | %ISO  | BWS   | Y <sub>qa</sub> |
|---------|----------|-----|-----------------|--------|------|------|---------|--------|-------|-------|-----------------|
|         | min      | sec | ft <sup>3</sup> | in. WC | °F   | °F   |         | in. WC |       |       |                 |
|         | 96.0     |     | 69.461          | 0.41   | 86.0 | 87.5 | 8       | 1.488  | 100.8 | 0.040 | -0.1            |

**VEN Outlet**

**Location Chemours Company - Fayetteville Works Facility, NC**  
**Source VEN Carbon Bed Outlet**  
**Project No. 2022-1651-001**  
**Parameter HFPO-DA**

| Run Number                             |                        | Run 1     | Run 2     | Run 3     | Average   |
|--|------------------------|-----------|-----------|-----------|-----------|
| Date                                   |                        | 5/5/22    | 5/5/22    | 5/5/22    | --        |
| Start Time                             |                        | 8:41      | 11:12     | 13:50     | --        |
| Stop Time                              |                        | 10:45     | 13:07     | 15:42     | --        |
| Run Time, min                          | ( $\theta$ )           | 96.0      | 96.0      | 96.0      | 96.0      |
| <b>INPUT DATA</b>                      |                        |           |           |           |           |
| Barometric Pressure, in. Hg            | (Pb)                   | 30.22     | 30.22     | 30.22     | 30.22     |
| Meter Correction Factor                | (Y)                    | 0.980     | 0.980     | 0.980     | 0.980     |
| Orifice Calibration Value              | ( $\Delta H @$ )       | 1.686     | 1.686     | 1.686     | 1.686     |
| Meter Volume, ft <sup>3</sup>          | (Vm)                   | 72.888    | 75.340    | 75.714    | 74.647    |
| Meter Temperature, °F                  | (Tm)                   | 79.3      | 83.3      | 86.5      | 83.1      |
| Meter Temperature, °R                  | (Tm)                   | 539.0     | 543.0     | 546.2     | 542.7     |
| Meter Orifice Pressure, in. WC         | ( $\Delta H$ )         | 1.666     | 1.765     | 1.796     | 1.743     |
| Volume H <sub>2</sub> O Collected, mL  | (Vlc)                  | 64.0      | 53.6      | 59.8      | 59.1      |
| Nozzle Diameter, in                    | (Dn)                   | 0.250     | 0.250     | 0.250     | 0.250     |
| Area of Nozzle, ft <sup>2</sup>        | (An)                   | 0.0003    | 0.0003    | 0.0003    | 0.0003    |
| FH HFPO-DA Mass, ng                    | M <sub>(HFPODA)</sub>  | 99,300.0  | 93,100.0  | 97,900.0  | 96,766.7  |
| BH HFPO-DA Mass, ng                    | M <sub>(HFPODA)</sub>  | 44,800.0  | 54,400.0  | 45,400.0  | 48,200.0  |
| Imp HFPO-DA Mass, ng                   | M <sub>(HFPODA)</sub>  | 1,470.0   | 2,100.0   | 940.0     | 1,503.3   |
| Breakthrough HFPO-DA Mass, ng          | M <sub>(HFPODA)</sub>  | 37.0      | 59.3      | 53.7      | 50.00     |
| Total HFPO-DA Mass, ng                 | M <sub>(HFPODA)</sub>  | 145,607.0 | 149,659.3 | 144,293.7 | 146,520.0 |
| <b>ISOKINETIC DATA</b>                 |                        |           |           |           |           |
| Standard Meter Volume, ft <sup>3</sup> | (Vmstd)                | 70.916    | 72.779    | 72.716    | 72.137    |
| Standard Water Volume, ft <sup>3</sup> | (Vwstd)                | 3.018     | 2.528     | 2.820     | 2.256     |
| Moisture Fraction Measured             | (BWSmsd)               | 0.041     | 0.034     | 0.037     | 0.037     |
| Moisture Fraction @ Saturation         | (BWSsat)               | 0.044     | 0.043     | 0.045     | 0.044     |
| Moisture Fraction                      | (BWS)                  | 0.041     | 0.034     | 0.037     | 0.037     |
| Meter Pressure, in Hg                  | (Pm)                   | 30.34     | 30.35     | 30.35     | 30.35     |
| Volume at Nozzle, ft <sup>3</sup>      | (Vn)                   | 75.594    | 76.963    | 77.338    | 76.63     |
| Isokinetic Sampling Rate, (%)          | (I)                    | 101.3     | 100.9     | 100.6     | 100.9     |
| DGM Calibration Check Value, (+/- 5%)  | (Y <sub>qa</sub> )     | -0.3      | -0.1      | -0.7      | -0.4      |
| <b>EMISSION CALCULATIONS</b>           |                        |           |           |           |           |
| HFPO-DA Concentration, ng/dscm         | C <sub>(HFPODA)</sub>  | 7.3E+04   | 7.3E+04   | 7.0E+04   | 7.2E+04   |
| Outlet HFPO-DA Emission Rate, lb/hr    | ER <sub>(HFPODA)</sub> | 4.1E-03   | 4.2E-03   | 4.1E-03   | 4.1E-03   |
| <b>REDUCTION CALCULATIONS</b>          |                        |           |           |           |           |
| Inlet HFPO-DA Emission Rate, lb/hr     | ER <sub>(HFPODA)</sub> | 4.5E-02   | 3.7E-02   | 4.4E-02   | 4.2E-02   |
| HFPO-DA Reduction Efficiency, %        | ER <sub>(HFPODA)</sub> | 90.8      | 88.4      | 90.6      | 89.9      |

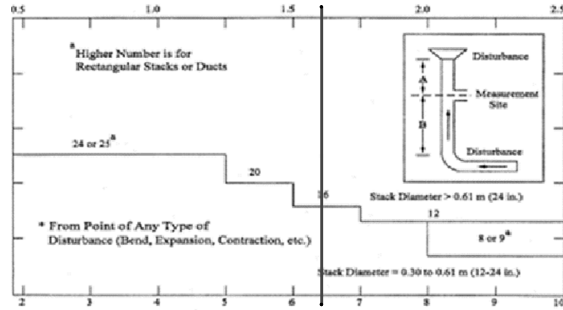
**Location Chemours Company - Fayetteville Works Facility, NC**  
**Source VEN Carbon Bed Outlet**  
**Project No. 2022-1651-001**  
**Parameter HFPO-DA**

| Run Number  | Run 1              | Run 2  | Run 3  | Average |         |
|---|--------------------|--------|--------|---------|---------|
| Date  | 5/5/22             | 5/5/22 | 5/5/22 | --      |         |
| Start Time  | 8:41               | 11:12  | 13:50  | --      |         |
| Stop Time   | 10:45              | 13:07  | 15:42  | --      |         |
| Run Time, min                                       | 96.0               | 96.0   | 96.0   | 96.0    |         |
| VELOCITY HEAD, in. WC                               |                    |        |        |         |         |
| Point 1   | 0.40               | 0.37   | 0.40   | 0.39    |         |
| Point 2   | 0.39               | 0.38   | 0.42   | 0.40    |         |
| Point 3   | 0.40               | 0.41   | 0.42   | 0.41    |         |
| Point 4   | 0.42               | 0.43   | 0.43   | 0.43    |         |
| Point 5   | 0.44               | 0.43   | 0.42   | 0.43    |         |
| Point 6   | 0.45               | 0.40   | 0.40   | 0.42    |         |
| Point 7   | 0.35               | 0.37   | 0.36   | 0.36    |         |
| Point 8   | 0.32               | 0.37   | 0.36   | 0.35    |         |
| Point 9   | 0.35               | 0.36   | 0.34   | 0.35    |         |
| Point 10  | 0.36               | 0.35   | 0.34   | 0.35    |         |
| Point 11  | 0.36               | 0.35   | 0.34   | 0.35    |         |
| Point 12  | 0.36               | 0.35   | 0.36   | 0.36    |         |
| Point 13  | 0.55               | 0.60   | 0.65   | 0.60    |         |
| Point 14  | 0.56               | 0.63   | 0.68   | 0.62    |         |
| Point 15  | 0.62               | 0.69   | 0.69   | 0.67    |         |
| Point 16  | 0.68               | 0.71   | 0.71   | 0.70    |         |
| Point 17  | 0.58               | 0.63   | 0.64   | 0.62    |         |
| Point 18  | 0.48               | 0.59   | 0.57   | 0.55    |         |
| Point 19  | 0.50               | 0.51   | 0.52   | 0.51    |         |
| Point 20  | 0.49               | 0.50   | 0.50   | 0.50    |         |
| Point 21  | 0.47               | 0.50   | 0.50   | 0.49    |         |
| Point 22  | 0.45               | 0.48   | 0.47   | 0.47    |         |
| Point 23  | 0.39               | 0.43   | 0.45   | 0.42    |         |
| Point 24  | 0.33               | 0.41   | 0.43   | 0.39    |         |
| CALCULATED DATA                                     |                    |        |        |         |         |
| Square Root of $\Delta P$ , (in. WC) <sup>1/2</sup> | ( $\Delta P$ )     | 0.664  | 0.680  | 0.684   | 0.676   |
| Pitot Tube Coefficient                              | (Cp)               | 0.840  | 0.840  | 0.840   | 0.840   |
| Barometric Pressure, in. Hg                         | (Pb)               | 30.22  | 30.22  | 30.22   | 30.22   |
| Static Pressure, in. WC                             | (Pg)               | 2.10   | 2.10   | 2.10    | 2.10    |
| Stack Pressure, in. Hg                              | (Ps)               | 30.37  | 30.37  | 30.37   | 30.37   |
| Stack Cross-sectional Area, ft <sup>2</sup>         | (As)               | 7.07   | 7.07   | 7.07    | 7.07    |
| Temperature, °F                                     | (Ts)               | 88.1   | 87.8   | 88.8    | 88.3    |
| Temperature, °R                                     | (Ts)               | 547.8  | 547.5  | 548.5   | 547.920 |
| Moisture Fraction Measured                          | (BWSmsd)           | 0.041  | 0.034  | 0.037   | 0.037   |
| Moisture Fraction @ Saturation                      | (BWSsat)           | 0.044  | 0.043  | 0.045   | 0.044   |
| Moisture Fraction                                   | (BWS)              | 0.041  | 0.034  | 0.037   | 0.037   |
| O <sub>2</sub> Concentration, %                     | (O <sub>2</sub> )  | 20.9   | 20.9   | 20.9    | 20.9    |
| CO <sub>2</sub> Concentration, %                    | (CO <sub>2</sub> ) | 0.1    | 0.1    | 0.1     | 0.1     |
| Molecular Weight, lb/lb-mole (dry)                  | (Md)               | 28.85  | 28.85  | 28.85   | 28.85   |
| Molecular Weight, lb/lb-mole (wet)                  | (Ms)               | 28.41  | 28.49  | 28.45   | 28.45   |
| Velocity, ft/sec                                    | (Vs)               | 38.0   | 38.8   | 39.1    | 38.7    |
| VOLUMETRIC FLOW RATE                                |                    |        |        |         |         |
| At Stack Conditions, acfm                           | (Qa)               | 16,115 | 16,475 | 16,602  | 16,398  |
| At Standard Conditions, dscfm                       | (Qs)               | 15,117 | 15,578 | 15,609  | 15,435  |

Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Outlet  
 Project No. 2022-1651-001  
 Date: 12/15/21

**Stack Parameters**

Duct Orientation: Horizontal  
 Duct Design: Circular  
 Distance from Far Wall to Outside of Port: 51.13 in  
 Nipple Length: 15.13 in  
 Depth of Duct: 36.00 in  
 Cross Sectional Area of Duct: 7.07 ft<sup>2</sup>  
 No. of Test Ports: 2  
 Distance A: 4.8 ft  
 Distance A Duct Diameters: 1.6 (must be > 0.5)  
 Distance B: 4.8 ft  
 Distance B Duct Diameters: 1.6 (must be > 2)  
 Minimum Number of Traverse Points: 24  
 Actual Number of Traverse Points: 24  
 Number of Readings per Point: 1  
 Measurer (Initial and Date): PJG 5/4/22  
 Reviewer (Initial and Date): BAG 5/4/22



**CIRCULAR DUCT**

**LOCATION OF TRAVERSE POINTS**  
 Number of traverse points on a diameter

|    | 2    | 3  | 4    | 5  | 6    | 7  | 8    | 9  | 10   | 11 | 12   |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1  | 14.6 | -- | 6.7  | -- | 4.4  | -- | 3.2  | -- | 2.6  | -- | 2.1  |
| 2  | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2  | -- | 6.7  |
| 3  | --   | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4  | --   | -- | 93.3 | -- | 70.4 | -- | 32.3 | -- | 22.6 | -- | 17.7 |
| 5  | --   | -- | --   | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6  | --   | -- | --   | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7  | --   | -- | --   | -- | --   | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8  | --   | -- | --   | -- | --   | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9  | --   | -- | --   | -- | --   | -- | --   | -- | 91.8 | -- | 82.3 |
| 10 | --   | -- | --   | -- | --   | -- | --   | -- | 97.4 | -- | 88.2 |
| 11 | --   | -- | --   | -- | --   | -- | --   | -- | --   | -- | 93.3 |
| 12 | --   | -- | --   | -- | --   | -- | --   | -- | --   | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1              | 2.1           | 1.00                      | 16.13                         |
| 2              | 6.7           | 2.41                      | 17.54                         |
| 3              | 11.8          | 4.25                      | 19.37                         |
| 4              | 17.7          | 6.37                      | 21.50                         |
| 5              | 25.0          | 9.00                      | 24.13                         |
| 6              | 35.6          | 12.82                     | 27.94                         |
| 7              | 64.4          | 23.18                     | 38.31                         |
| 8              | 75.0          | 27.00                     | 42.13                         |
| 9              | 82.3          | 29.63                     | 44.75                         |
| 10             | 88.2          | 31.75                     | 46.88                         |
| 11             | 93.3          | 33.59                     | 48.71                         |
| 12             | 97.9          | 35.00                     | 50.13                         |

\*Percent of stack diameter from inside wall to traverse point.

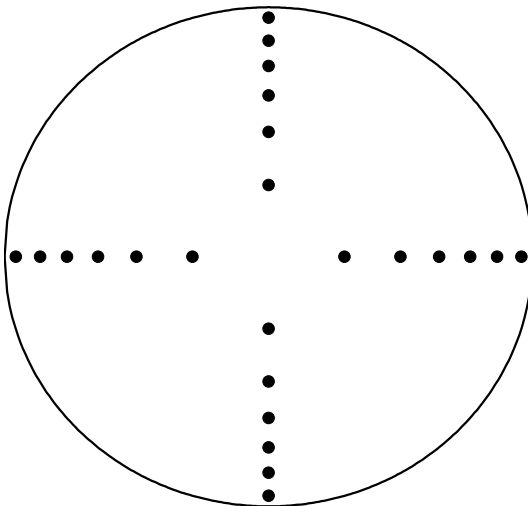
**Stack Diagram**

A = 4.8 ft.

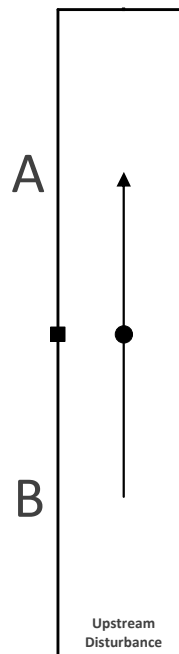
B = 4.8 ft.

Depth of Duct = 36 in.

**Cross Sectional Area**



**Downstream Disturbance**



Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Outlet  
 Project No. 2022-1651-001  
 Date 05/05/22

| Sample Point   | Angle ( $\Delta P=0$ ) |
|----------------|------------------------|
| 1              | 10                     |
| 2              | 10                     |
| 3              | 12                     |
| 4              | 12                     |
| 5              | 10                     |
| 6              | 15                     |
| 7              | 15                     |
| 8              | 12                     |
| 9              | 10                     |
| 10             | 8                      |
| 11             | 8                      |
| 12             | 8                      |
| 13             | 12                     |
| 14             | 12                     |
| 15             | 10                     |
| 16             | 10                     |
| 17             | 12                     |
| 18             | 12                     |
| 19             | 12                     |
| 20             | 10                     |
| 21             | 10                     |
| 22             | 12                     |
| 23             | 10                     |
| 24             | 10                     |
| <b>Average</b> | 11                     |

Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Outlet  
 Project No. 2022-1651-001  
 Parameter HFPO-DA  
 Analysis Gravimetric

| Run 1           |          | Date: 5/5/22 |       |       |       |       |          |        |        |
|-----------------|----------|--------------|-------|-------|-------|-------|----------|--------|--------|
| Impinger No.    | 1        | 2            | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap | Empty        | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 300.6    | 477.8        | 803.6 | 746.0 | 728.4 | 508.0 | 277.0    | 794.6  | 4636.0 |
| Final Mass, g   | 318.6    | 492.6        | 803.0 | 747.2 | 730.4 | 509.8 | 291.2    | 807.2  | 4700.0 |
| Gain            | 18.0     | 14.8         | -0.6  | 1.2   | 2.0   | 1.8   | 14.2     | 12.6   | 64.0   |
| Run 2           |          | Date: 5/5/22 |       |       |       |       |          |        |        |
| Impinger No.    | 1        | 2            | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap | Empty        | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 302.0    | 447.4        | 789.0 | 794.4 | 753.6 | 485.4 | 309.2    | 798.0  | 4679.0 |
| Final Mass, g   | 320.6    | 458.0        | 787.0 | 794.2 | 754.8 | 487.6 | 318.4    | 812.0  | 4732.6 |
| Gain            | 18.6     | 10.6         | -2.0  | -0.2  | 1.2   | 2.2   | 9.2      | 14.0   | 53.6   |
| Run 3           |          | Date: 5/5/22 |       |       |       |       |          |        |        |
| Impinger No.    | 1        | 2            | 3     | 4     | 5     | 6     | 7        | 8      | Total  |
| Contents        | XAD Trap | Empty        | H2O   | H2O   | H2O   | Empty | XAD Trap | Silica | --     |
| Initial Mass, g | 311.4    | 478.2        | 803.6 | 745.0 | 730.2 | 508.2 | 290.8    | 797.6  | 4665.0 |
| Final Mass, g   | 333.4    | 489.0        | 799.4 | 744.4 | 732.8 | 512.0 | 301.6    | 812.2  | 4724.8 |
| Gain            | 22.0     | 10.8         | -4.2  | -0.6  | 2.6   | 3.8   | 10.8     | 14.6   | 59.8   |



| Location: <b>Chemours Company - Fayetteville Works Facility, NC</b> |       |                                    | Start Time: <b>8:41</b> |   | Source: <b>VEN Carbon Bed Outlet</b> |               |                                |              |             |              |
|---|-------|------------------------------------|-------------------------|---|--------------------------------------|---------------|--------------------------------|--------------|-------------|--------------|
| Date: <b>5/5/22</b>   | Run 1 | VALID                              | End Time: <b>10:45</b>  | Project No.: <b>2022-1651-001</b>               | Parameter: <b>HFPO-DA</b>            |               |                                |              |             |              |
| STACK DATA (EST)  |       | EQUIPMENT                          |                         | STACK DATA (EST)                                |                                      | FILTER NO.    | STACK DATA (FINAL)             |              | MOIST. DATA |              |
| Moisture: <b>2.5</b> % est.   |       | Meter Box ID: <b>14</b>            |                         | Est. Tm: <b>55</b> °F                           |                                      | <b>OTM-45</b> | Pb: <b>30.22</b> in. Hg        | Vlc (ml)     |             |              |
| Barometric: <b>30.40</b> in. Hg                                     |       | Y: <b>0.980</b>                    |                         | Est. Ts: <b>93</b> °F                           |                                      |               | Pg: <b>2.10</b> in. WC         | <b>64.0</b>  |             |              |
| Static Press: <b>2.80</b> in. WC                                    |       | AH @ (in. WC): <b>1.686</b>        |                         | Est. AP: <b>0.67</b> in. WC                     |                                      |               | O <sub>2</sub> : <b>20.9</b> % | K-FACTOR     |             |              |
| Stack Press: <b>30.61</b> in. Hg                                    |       | Probe ID: <b>P4-1</b>              |                         | Est. Dn: <b>0.232</b> in.                       |                                      |               | CO <sub>2</sub> : <b>0.1</b> % | <b>3.526</b> |             |              |
| CO <sub>2</sub> : <b>0.1</b> %                                      |       | Liner Material: <b>glass</b>       |                         | Target Rate: <b>0.75</b> scfm                   |                                      |               | Check Pt.                      | Initial      | Final       | Corr.        |
| O <sub>2</sub> : <b>20.9</b> %                                      |       | Pitot ID: <b>P4-1</b>              |                         | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post          |                                      |               | Mid 1 (cf)                     | 558.989      | 559.081     | 0.092        |
| N <sub>2</sub> /CO: <b>79.0</b> %                                   |       | Pitot Cp/Type: <b>0.840</b> S-type |                         | Leak Rate (cfm): <b>0.007 0.007 0.008 0.009</b> |                                      |               | Mid 2 (cf)                     | 559.081      | 559.144     | 0.063        |
| Md: <b>28.85</b> lb/lb-mole   |       | Nozzle ID: <b>G-3</b> glass        |                         | Vacuum (in Hg): <b>11 11 12 10</b>              |                                      |               | Mid 3 (cf)                     |              |             | --           |
| Ms: <b>28.58</b> lb/lb-mole   |       | Nozzle Dn (in.): <b>0.250</b>      |                         | Pitot Tube: <b>Pass Pass Pass -- Pass</b>       |                                      |               | Mid-Point Leak Check Vol (cf): |              |             | <b>0.155</b> |

| Sample Pt. | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |       | Orifice Press. ΔH (in. WC) |        | Pump Vac (in. Hg) | Gas Temperatures (°F) |        |          |     | % ISO | Vs (fps) |
|------------|-----------------------|-------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
|            | Begin                 | End   |  |                       | DGM Average           |       | Ideal                      | Actual |                   | Probe                 | Filter | Imp Exit | Aux |       |          |
|            |                       |       |  |                       | Amb.                  | Stack |                            |        |                   |                       |        |          |     |       |          |
| A1         | 0.00                  | 4.00  | 525.117                                  | 0.40                  | 69                    | 87    | 1.47                       | 1.47   | 4                 | 95                    | 95     | 67       | 54  | 100.8 | 35.90    |
| 2          | 4.00                  | 8.00  | 527.975                                  | 0.39                  | 72                    | 88    | 1.43                       | 1.44   | 4                 | 97                    | 99     | 53       | 45  | 100.4 | 35.49    |
| 3          | 8.00                  | 12.00 | 530.800                                  | 0.40                  | 74                    | 88    | 1.48                       | 1.48   | 4                 | 97                    | 97     | 47       | 44  | 100.0 | 35.94    |
| 4          | 12.00                 | 16.00 | 533.660                                  | 0.42                  | 74                    | 88    | 1.55                       | 1.56   | 4                 | 98                    | 100    | 46       | 46  | 100.4 | 36.82    |
| 5          | 16.00                 | 20.00 | 536.600                                  | 0.44                  | 76                    | 88    | 1.63                       | 1.64   | 4                 | 98                    | 98     | 45       | 45  | 99.7  | 37.69    |
| 6          | 20.00                 | 24.00 | 539.600                                  | 0.45                  | 78                    | 88    | 1.67                       | 1.67   | 4                 | 98                    | 99     | 44       | 43  | 99.9  | 38.12    |
| 7          | 24.00                 | 28.00 | 542.650                                  | 0.35                  | 78                    | 88    | 1.30                       | 1.30   | 4                 | 98                    | 99     | 44       | 44  | 102.0 | 33.62    |
| 8          | 28.00                 | 32.00 | 545.400                                  | 0.32                  | 79                    | 88    | 1.19                       | 1.20   | 4                 | 98                    | 98     | 44       | 45  | 100.7 | 32.14    |
| 9          | 32.00                 | 36.00 | 548.000                                  | 0.35                  | 79                    | 88    | 1.30                       | 1.30   | 4                 | 98                    | 99     | 44       | 44  | 101.8 | 33.62    |
| 10         | 36.00                 | 40.00 | 550.750                                  | 0.36                  | 78                    | 88    | 1.34                       | 1.34   | 4                 | 98                    | 98     | 44       | 45  | 100.6 | 34.09    |
| 11         | 40.00                 | 44.00 | 553.500                                  | 0.36                  | 78                    | 88    | 1.34                       | 1.34   | 4                 | 98                    | 98     | 44       | 45  | 98.8  | 34.09    |
| 12         | 44.00                 | 48.00 | 556.200                                  | 0.36                  | 79                    | 88    | 1.34                       | 1.35   | 4                 | 98                    | 98     | 44       | 46  | 101.8 | 34.09    |
| B1         | 48.00                 | 52.00 | 558.989                                  | 0.55                  | 78                    | 88    | 2.04                       | 2.05   | 6                 | 100                   | 101    | 58       | 46  | 97.3  | 42.14    |
| 2          | 52.00                 | 56.00 | 562.270                                  | 0.56                  | 80                    | 88    | 2.09                       | 2.10   | 7                 | 99                    | 103    | 45       | 43  | 100.1 | 42.52    |
| 3          | 56.00                 | 60.00 | 565.690                                  | 0.62                  | 81                    | 89    | 2.31                       | 2.30   | 8                 | 99                    | 100    | 46       | 43  | 99.8  | 44.78    |
| 4          | 60.00                 | 64.00 | 569.280                                  | 0.68                  | 82                    | 88    | 2.54                       | 2.56   | 8                 | 99                    | 97     | 48       | 44  | 101.9 | 46.86    |
| 5          | 64.00                 | 68.00 | 573.125                                  | 0.58                  | 83                    | 88    | 2.17                       | 2.18   | 7                 | 99                    | 99     | 48       | 45  | 102.3 | 43.27    |
| 6          | 68.00                 | 72.00 | 576.700                                  | 0.48                  | 84                    | 88    | 1.80                       | 1.80   | 6                 | 99                    | 97     | 49       | 42  | 97.2  | 39.37    |
| 7          | 72.00                 | 76.00 | 579.800                                  | 0.50                  | 84                    | 88    | 1.88                       | 1.88   | 6                 | 99                    | 99     | 48       | 42  | 99.9  | 40.18    |
| 8          | 76.00                 | 80.00 | 583.050                                  | 0.49                  | 84                    | 88    | 1.84                       | 1.85   | 6                 | 99                    | 100    | 49       | 42  | 100.1 | 39.78    |
| 9          | 80.00                 | 84.00 | 586.275                                  | 0.47                  | 83                    | 88    | 1.76                       | 1.77   | 6                 | 99                    | 99     | 49       | 44  | 99.6  | 38.96    |
| 10         | 84.00                 | 88.00 | 589.410                                  | 0.45                  | 83                    | 88    | 1.69                       | 1.70   | 6                 | 99                    | 97     | 49       | 42  | 101.9 | 38.12    |
| 11         | 88.00                 | 92.00 | 592.550                                  | 0.39                  | 84                    | 89    | 1.46                       | 1.47   | 5                 | 99                    | 99     | 50       | 44  | 100.9 | 35.52    |
| 12         | 92.00                 | 96.00 | 595.450                                  | 0.33                  | 84                    | 89    | 1.24                       | 1.24   | 4                 | 99                    | 99     | 50       | 45  | 102.5 | 32.67    |

Final DGM: 598.160

| RESULTS | Run Time | Vm       | ΔP                     | Tm          | Ts      | Max Vac | ΔH | %ISO         | BWS   | Y <sub>qs</sub> |
|---------|----------|----------|------------------------|-------------|---------|---------|----|--------------|-------|-----------------|
|         |          | 96.0 min | 72.888 ft <sup>3</sup> | 0.45 in. WC | 79.3 °F | 88.1 °F | 8  | 1.666 in. WC | 101.3 | 0.041           |

| Location: Chemours Company - Fayetteville Works Facility, NC |                             |  | Start Time: 11:12 |                  | Source: VEN Carbon Bed Outlet  |                    |                    |       |             |  |
|--|-----------------------------|--|-------------------|------------------|--------------------------------|--------------------|--------------------|-------|-------------|--|
| Date: 5/5/22   | Run 2                       | VALID                                    | End Time: 13:07   |                  | Project No.: 2022-1651-001     | Parameter: HFPO-DA |                    |       |             |  |
| STACK DATA (EST)   |                             | EQUIPMENT                                |                   | STACK DATA (EST) |                                | FILTER NO.         | STACK DATA (FINAL) |       | MOIST. DATA |  |
| Moisture: 2.5 % est.   | Meter Box ID: 14            | Est. Tm: 79 °F                           | OTM-45            |                  | Pb: 30.22 in. Hg               | Vlc (ml)           |                    |       |             |  |
| Barometric: 30.40 in. Hg                                     | Y: 0.980                    | Est. Ts: 88 °F                           |                   |                  | Pg: 2.10 in. WC                | 53.6               |                    |       |             |  |
| Static Press: 2.80 in. WC                                    | AH @ (in.WC): 1.686         | Est. AP: 0.45 in. WC                     |                   |                  | O <sub>2</sub> : 20.9 %        | K-FACTOR           |                    |       |             |  |
| Stack Press: 30.61 in. Hg                                    | Probe ID: P4-1              | Est. Dn: 0.251 in.                       |                   |                  | CO <sub>2</sub> : 0.1 %        | 3.73               |                    |       |             |  |
| CO <sub>2</sub> : 0.1 %                                      | Liner Material: glass       | Target Rate: 0.75 scfm                   |                   |                  | Check Pt.                      | Initial            | Final              | Corr. |             |  |
| O <sub>2</sub> : 20.9 %                                      | Pitot ID: P4-1              | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post   |                   |                  | Mid 1 (cf)                     | 632.414            | 632.500            | 0.086 |             |  |
| N <sub>2</sub> /CO: 79.0 %                                   | Pitot Cp/Type: 0.840 S-type | Leak Rate (cfm): 0.006 0.003 0.004 0.005 |                   |                  | Mid 2 (cf)                     | 632.500            | 632.575            | 0.075 |             |  |
| Md: 28.85 lb/lb-mole   | Nozzle ID: G-3 glass        | Vacuum (in Hg): 12 9 10 12               |                   |                  | Mid 3 (cf)                     |                    |                    | -     |             |  |
| Ms: 28.58 lb/lb-mole   | Nozzle Dn (in.): 0.250      | Pitot Tube: Pass Pass Pass -- Pass       |                   |                  | Mid-Point Leak Check Vol (cf): |                    |                    | 0.161 |             |  |

| Sample Pt. | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |       | Orifice Press. ΔH (in. WC) |        | Pump Vac (in. Hg) | Gas Temperatures (°F) |        |          |      | % ISO | Vs (fps) |
|------------|-----------------------|-------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
|            | Begin                 | End   |  |                       | DGM Average           | Stack | Ideal                      | Actual |                   | Probe                 | Filter | Imp Exit | Aux  |       |          |
|            |                       |       |  |                       | Amb.                  | Amb.  |                            |        |                   | Amb.                  | Amb.   | Amb.     | Amb. |       |          |
|            | --                    |       |  |                       | --                    |       | --                         |        |                   | --                    |        |          |      |       |          |
| A1         | 0.00                  | 4.00  | 598.462                                  | 0.37                  | 79                    | 88    | 1.38                       | 1.38   | 4                 | 100                   | 97     | 66       | 67   | 100.1 | 34.56    |
| 2          | 4.00                  | 8.00  | 601.240                                  | 0.38                  | 79                    | 88    | 1.42                       | 1.42   | 4                 | 99                    | 98     | 59       | 52   | 100.8 | 35.03    |
| 3          | 8.00                  | 12.00 | 604.075                                  | 0.41                  | 79                    | 89    | 1.52                       | 1.52   | 4                 | 99                    | 98     | 57       | 48   | 100.2 | 36.42    |
| 4          | 12.00                 | 16.00 | 607.000                                  | 0.43                  | 80                    | 89    | 1.60                       | 1.60   | 4                 | 99                    | 99     | 54       | 48   | 98.5  | 37.29    |
| 5          | 16.00                 | 20.00 | 609.950                                  | 0.43                  | 81                    | 88    | 1.61                       | 1.60   | 4                 | 101                   | 101    | 53       | 49   | 101.6 | 37.26    |
| 6          | 20.00                 | 24.00 | 613.000                                  | 0.40                  | 82                    | 88    | 1.50                       | 1.50   | 4                 | 101                   | 100    | 52       | 47   | 99.9  | 35.94    |
| 7          | 24.00                 | 28.00 | 615.900                                  | 0.37                  | 83                    | 88    | 1.39                       | 1.40   | 4                 | 101                   | 100    | 51       | 48   | 99.4  | 34.56    |
| 8          | 28.00                 | 32.00 | 618.680                                  | 0.37                  | 83                    | 88    | 1.39                       | 1.40   | 4                 | 101                   | 100    | 51       | 48   | 100.8 | 34.56    |
| 9          | 32.00                 | 36.00 | 621.500                                  | 0.36                  | 83                    | 87    | 1.35                       | 1.36   | 4                 | 101                   | 100    | 51       | 46   | 101.4 | 34.06    |
| 10         | 36.00                 | 40.00 | 624.300                                  | 0.35                  | 83                    | 87    | 1.32                       | 1.32   | 4                 | 99                    | 99     | 51       | 47   | 101.0 | 33.59    |
| 11         | 40.00                 | 44.00 | 627.050                                  | 0.35                  | 84                    | 87    | 1.32                       | 1.32   | 4                 | 99                    | 99     | 51       | 45   | 97.1  | 33.59    |
| 12         | 44.00                 | 48.00 | 629.700                                  | 0.35                  | 84                    | 87    | 1.32                       | 1.32   | 4                 | 99                    | 99     | 52       | 46   | 99.5  | 33.59    |
| B1         | 48.00                 | 52.00 | 632.414                                  | 0.60                  | 80                    | 87    | 2.24                       | 2.25   | 6                 | 99                    | 100    | 67       | 54   | 102.8 | 43.97    |
| 2          | 52.00                 | 56.00 | 636.050                                  | 0.63                  | 82                    | 88    | 2.36                       | 2.37   | 6                 | 99                    | 100    | 49       | 39   | 100.4 | 45.10    |
| 3          | 56.00                 | 60.00 | 639.700                                  | 0.69                  | 84                    | 88    | 2.59                       | 2.60   | 7                 | 99                    | 99     | 51       | 41   | 102.2 | 47.20    |
| 4          | 60.00                 | 64.00 | 643.600                                  | 0.71                  | 84                    | 88    | 2.66                       | 2.66   | 7                 | 99                    | 99     | 52       | 41   | 100.1 | 47.88    |
| 5          | 64.00                 | 68.00 | 647.475                                  | 0.63                  | 85                    | 88    | 2.37                       | 2.38   | 7                 | 99                    | 98     | 53       | 42   | 101.3 | 45.10    |
| 6          | 68.00                 | 72.00 | 651.175                                  | 0.59                  | 85                    | 88    | 2.22                       | 2.23   | 6                 | 99                    | 99     | 53       | 43   | 102.5 | 43.65    |
| 7          | 72.00                 | 76.00 | 654.800                                  | 0.51                  | 86                    | 88    | 1.92                       | 1.93   | 5                 | 99                    | 99     | 53       | 44   | 100.1 | 40.58    |
| 8          | 76.00                 | 80.00 | 658.100                                  | 0.50                  | 87                    | 88    | 1.89                       | 1.90   | 5                 | 99                    | 99     | 53       | 45   | 99.4  | 40.18    |
| 9          | 80.00                 | 84.00 | 661.350                                  | 0.50                  | 87                    | 88    | 1.89                       | 1.90   | 5                 | 99                    | 100    | 53       | 44   | 100.9 | 40.18    |
| 10         | 84.00                 | 88.00 | 664.650                                  | 0.48                  | 87                    | 88    | 1.81                       | 1.82   | 5                 | 99                    | 99     | 55       | 46   | 103.0 | 39.37    |
| 11         | 88.00                 | 92.00 | 667.950                                  | 0.43                  | 87                    | 88    | 1.63                       | 1.63   | 5                 | 99                    | 99     | 55       | 46   | 100.5 | 37.26    |
| 12         | 92.00                 | 96.00 | 671.000                                  | 0.41                  | 86                    | 87    | 1.55                       | 1.56   | 5                 | 99                    | 99     | 55       | 47   | 100.0 | 36.35    |

Final DGM: 673.963

| RESULTS | Run Time | Vm                     | AP          | Tm      | Ts      | Max Vac | ΔH           | %ISO  | BWS   | Y <sub>sp</sub> |
|---------|----------|------------------------|-------------|---------|---------|---------|--------------|-------|-------|-----------------|
|         | 96.0 min | 75.340 ft <sup>3</sup> | 0.47 in. WC | 83.3 °F | 87.8 °F | 7       | 1.765 in. WC | 100.9 | 0.034 | -0.1            |

| Location: <b>Chemours Company - Fayetteville Works Facility, NC</b> |                                    |   | Start Time: <b>13:50</b> |   | Source: <b>VEN Carbon Bed Outlet</b> |                |                    |  |             |  |  |
|---|------------------------------------|---|--------------------------|---|--------------------------------------|----------------|--------------------|--|-------------|--|--|
| Date: <b>5/5/22</b>   | Run <b>3</b>                       | <b>VALID</b>                                    | End Time: <b>15:42</b>   | Project No.: <b>2022-1651-001</b>           | Parameter: <b>HFPO-DA</b>            |                |                    |  |             |  |  |
| STACK DATA (EST)  |                                    | EQUIPMENT                                       |                          | STACK DATA (EST)                            |                                      | FILTER NO.     | STACK DATA (FINAL) |  | MOIST. DATA |  |  |
| Moisture: <b>2.5</b> % est.   | Meter Box ID: <b>14</b>            | Est. Tm: <b>83</b> °F                           | OTM-45                   | Pb: <b>30.22</b> in. Hg                     | Vlc (ml)                             |                |                    |  |             |  |  |
| Barometric: <b>30.40</b> in. Hg                                     | Y: <b>0.980</b>                    | Est. Ts: <b>88</b> °F                           |                          | Pg: <b>2.10</b> in. WC                      | 59.8                                 |                |                    |  |             |  |  |
| Static Press: <b>2.80</b> in. WC                                    | AH @ (in.WC): <b>1.686</b>         | Est. AP: <b>0.47</b> in. WC                     |                          | O <sub>2</sub> : <b>20.9</b> %              | K-FACTOR                             |                |                    |  |             |  |  |
| Stack Press: <b>30.61</b> in. Hg                                    | Probe ID: <b>P4-1</b>              | Est. Dn: <b>0.247</b> in.                       |                          | CO <sub>2</sub> : <b>0.1</b> %              | 3.755                                |                |                    |  |             |  |  |
| CO <sub>2</sub> : <b>0.1</b> %                                      | Liner Material: <b>glass</b>       | Target Rate: <b>0.75</b> scfm                   |                          | Check Pt. Initial Final Corr.               |                                      |                |                    |  |             |  |  |
| O <sub>2</sub> : <b>20.9</b> %                                      | Pitot ID: <b>P4-1</b>              | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post          |                          | Mid 1 (cf) <b>708.524</b>                   | <b>708.591</b>                       | <b>708.591</b> | <b>0.067</b>       |  |             |  |  |
| N <sub>2</sub> /CO: <b>79.0</b> %                                   | Pitot Cp/Type: <b>0.840</b> S-type | Leak Rate (cfm): <b>0.007 0.008 0.008 0.006</b> |                          | Mid 2 (cf) <b>708.591</b>                   | <b>708.678</b>                       | <b>708.678</b> | <b>0.087</b>       |  |             |  |  |
| Md: <b>28.85</b> lb/lb-mole   | Nozzle ID: <b>G-3</b> glass        | Vacuum (in Hg): <b>13 13 12 11</b>              |                          | Mid 3 (cf) <b>---</b>                       | <b>---</b>                           | <b>---</b>     | <b>---</b>         |  |             |  |  |
| Ms: <b>28.58</b> lb/lb-mole   | Nozzle Dn (in.): <b>0.250</b>      | Pitot Tube: <b>Pass Pass Pass -- Pass</b>       |                          | Mid-Point Leak Check Vol (cf): <b>0.154</b> |                                      |                |                    |  |             |  |  |

| Sample Pt. | Sample Time (minutes) |       | Dry Gas Meter Reading (ft <sup>3</sup> ) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) |       | Orifice Press. ΔH (in. WC) |        | Pump Vac (in. Hg) | Gas Temperatures (°F) |        |          |     | % ISO | Vs (fps) |
|------------|-----------------------|-------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
|            | Begin                 | End   |  |                       | DGM Average           |       | Ideal                      | Actual |                   | Probe                 | Filter | Imp Exit | Aux |       |          |
|            |                       |       |  |                       | Amb.                  | Stack |                            |        |                   |                       |        |          |     |       |          |
| A1         | 0.00                  | 4.00  | 674.272                                  | 0.40                  | --                    | --    | 1.50                       | 1.50   | 4                 | 99                    | 99     | 66       | 54  | 100.7 | 35.94    |
| 2          | 4.00                  | 8.00  | 677.200                                  | 0.42                  | 83                    | 88    | 1.58                       | 1.58   | 4                 | 99                    | 99     | 61       | 49  | 99.1  | 36.82    |
| 3          | 8.00                  | 12.00 | 680.150                                  | 0.42                  | 84                    | 88    | 1.58                       | 1.58   | 4                 | 99                    | 99     | 58       | 47  | 99.7  | 36.82    |
| 4          | 12.00                 | 16.00 | 683.125                                  | 0.43                  | 84                    | 89    | 1.61                       | 1.61   | 4                 | 99                    | 99     | 56       | 50  | 97.0  | 37.29    |
| 5          | 16.00                 | 20.00 | 686.050                                  | 0.42                  | 85                    | 89    | 1.58                       | 1.59   | 4                 | 99                    | 99     | 54       | 53  | 102.1 | 36.86    |
| 6          | 20.00                 | 24.00 | 689.100                                  | 0.40                  | 86                    | 89    | 1.51                       | 1.51   | 4                 | 99                    | 100    | 54       | 52  | 100.2 | 35.97    |
| 7          | 24.00                 | 28.00 | 692.025                                  | 0.36                  | 86                    | 89    | 1.36                       | 1.36   | 4                 | 99                    | 99     | 55       | 50  | 107.3 | 34.12    |
| 8          | 28.00                 | 32.00 | 695.000                                  | 0.36                  | 86                    | 89    | 1.36                       | 1.36   | 4                 | 99                    | 100    | 55       | 51  | 100.1 | 34.12    |
| 9          | 32.00                 | 36.00 | 697.775                                  | 0.34                  | 86                    | 89    | 1.28                       | 1.29   | 4                 | 99                    | 99     | 55       | 45  | 97.4  | 33.16    |
| 10         | 36.00                 | 40.00 | 700.400                                  | 0.34                  | 86                    | 89    | 1.28                       | 1.29   | 4                 | 99                    | 99     | 56       | 46  | 102.1 | 33.16    |
| 11         | 40.00                 | 44.00 | 703.150                                  | 0.34                  | 86                    | 89    | 1.28                       | 1.29   | 4                 | 100                   | 99     | 56       | 47  | 95.6  | 33.16    |
| 12         | 44.00                 | 48.00 | 705.725                                  | 0.36                  | 87                    | 88    | 1.36                       | 1.37   | 4                 | 100                   | 100    | 56       | 48  | 100.7 | 34.09    |
| B1         | 48.00                 | 52.00 | 708.524                                  | 0.65                  | 85                    | 89    | 2.44                       | 2.45   | 6                 | 98                    | 99     | 67       | 60  | 101.8 | 45.85    |
| 2          | 52.00                 | 56.00 | 712.300                                  | 0.68                  | 87                    | 89    | 2.56                       | 2.58   | 6                 | 99                    | 101    | 51       | 43  | 94.6  | 46.90    |
| 3          | 56.00                 | 60.00 | 715.900                                  | 0.69                  | 87                    | 89    | 2.60                       | 2.61   | 7                 | 99                    | 102    | 51       | 43  | 99.2  | 47.24    |
| 4          | 60.00                 | 64.00 | 719.700                                  | 0.71                  | 87                    | 89    | 2.67                       | 2.68   | 7                 | 99                    | 101    | 51       | 43  | 101.0 | 47.92    |
| 5          | 64.00                 | 68.00 | 723.625                                  | 0.64                  | 88                    | 89    | 2.41                       | 2.43   | 6                 | 99                    | 100    | 52       | 43  | 100.0 | 45.50    |
| 6          | 68.00                 | 72.00 | 727.325                                  | 0.57                  | 88                    | 89    | 2.15                       | 2.16   | 6                 | 99                    | 100    | 51       | 43  | 102.3 | 42.94    |
| 7          | 72.00                 | 76.00 | 730.900                                  | 0.52                  | 88                    | 89    | 1.96                       | 1.97   | 5                 | 99                    | 100    | 52       | 45  | 98.9  | 41.01    |
| 8          | 76.00                 | 80.00 | 734.200                                  | 0.50                  | 89                    | 89    | 1.89                       | 1.90   | 5                 | 99                    | 100    | 52       | 47  | 102.1 | 40.22    |
| 9          | 80.00                 | 84.00 | 737.550                                  | 0.50                  | 89                    | 89    | 1.89                       | 1.90   | 5                 | 99                    | 100    | 53       | 47  | 102.9 | 40.22    |
| 10         | 84.00                 | 88.00 | 740.925                                  | 0.47                  | 89                    | 89    | 1.78                       | 1.80   | 5                 | 99                    | 100    | 53       | 48  | 95.1  | 38.99    |
| 11         | 88.00                 | 92.00 | 743.950                                  | 0.45                  | 89                    | 89    | 1.70                       | 1.70   | 5                 | 99                    | 100    | 53       | 49  | 101.5 | 38.15    |
| 12         | 92.00                 | 96.00 | 747.110                                  | 0.43                  | 89                    | 89    | 1.63                       | 1.60   | 4                 | 100                   | 100    | 53       | 49  | 99.5  | 37.29    |

Final DGM: 750.140

| RESULTS | Run Time | Vm       | ΔP                     | Tm          | Ts      | Max Vac | ΔH | %ISO         | BWS   | Y <sub>qm</sub> |
|---------|----------|----------|------------------------|-------------|---------|---------|----|--------------|-------|-----------------|
|         |          | 96.0 min | 75.714 ft <sup>3</sup> | 0.48 in. WC | 86.5 °F | 88.8 °F | 7  | 1.796 in. WC | 100.6 | 0.037           |

## Appendix C

## ANALYTICAL REPORT

Eurofins Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921  
Tel: (865)291-3000

Laboratory Job ID: 140-27381-1

Client Project/Site: Fayetteville Emissions Test - VEN CB Inlet

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, Delaware 19713

Attn: Michael Aucoin



Authorized for release by:  
5/24/2022 2:04:36 PM

Courtney Adkins, Project Manager II  
(865)291-3019  
[Courtney.Adkins@et.eurofinsus.com](mailto:Courtney.Adkins@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Case Narrative

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Job ID: 140-27381-1**

**Laboratory: Eurofins Knoxville**

## Narrative

### Job Narrative 140-27381-1

#### Receipt

The samples were received on 5/6/2022 6:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

#### LCMS

Methods 537 (modified), Dilution: LC/MS/MS Sampling Train Preparation and Analysis: The sampling train components are extracted and analyzed for Per- and Polyfluorinated Alkyl Substances (PFAS) using Eurofins TestAmerica Knoxville standard operating procedures KNOX-OP-0026 and KNOX-LC-0007.

The sampling trains are prepared as four analytical fractions: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses are combined for one analytical fraction. The XAD-2 resin trap and back half of the filter holder, coil condenser and connecting glassware solvent rinses are also combined as a separate analytical fraction. The condensate, impinger contents and their related glassware DI water rinses make up the third analytical fraction. The breakthrough XAD module makes up the fourth analytical fraction.

The filters and XAD components are spiked with isotope dilution internal standards and the components are extracted with methanol/ammonium hydroxide by shaking for at least 18 hours. The extracts are concentrated to 10 mL and analyzed by HPLC/MS/MS. The condensates are spiked with the isotope dilution internal standards and extracted using either Solid-Phase Extraction (SPE) or diluting the water sample for analysis. Each extract at its final volume is 80:20 methanol:water

Sample results were calculated using the following equation:

Result, ng/sample = (on-column concentration, ng/mL) × (nominal final volume of extract (10 mL) / 1 sample) × DF × SF

Where:

DF = Instrument dilution factor

SF = Extraction Split Factor = (final volume of extract in the initial extraction batch / initial volume of extract in the "Split" batch)

For condensate, if less than the entire sample is extracted, the fraction of sample used replaces "1 sample"

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2080,2079 VEN CB INLET R1 OTM-45 FH (140-27381-1), T-2073,2072 VEN CB INLET R2 OTM-45 FH (140-27381-5) and T-2066,2065 VEN CB INLET R3 OTM-45 FH (140-27381-9). The sample was analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2080,2079 VEN CB INLET R1 OTM-45 FH (140-27381-1), T-2073,2072 VEN CB INLET R2 OTM-45 FH (140-27381-5) and T-2066,2065 VEN CB INLET R3 OTM-45 FH (140-27381-9). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2078,2077,2075 VEN CB INLET R1 OTM-45 BH (140-27381-2), T-2076 VEN CB INLET R1 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-3), T-2074 VEN CB INLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-4), T-2071,2070,2068 VEN CB INLET R2 OTM-45 BH (140-27381-6), T-2069 VEN CB INLET R2 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-7) and T-2062 VEN CB INLET R3 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-11). The samples were analyzed at a dilution based on screening results.

Method 537 (modified): Results for samples T-2076 VEN CB INLET R1 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-3), T-2069 VEN CB INLET R2 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-7) and T-2062 VEN CB INLET R3 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE (140-27381-11) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits



# Case Narrative

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

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## Job ID: 140-27381-1 (Continued)

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### Laboratory: Eurofins Knoxville (Continued)

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2078,2077,2075 VEN CB INLET R1 OTM-45 BH (140-27381-2), T-2074 VEN CB INLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-4) and T-2071,2070,2068 VEN CB INLET R2 OTM-45 BH (140-27381-6). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): The following sample was reported with elevated reporting limits for all analytes: T-2067 VEN CB INLET R2 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-8). The sample was analyzed at a dilution based on screening results.

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2074 VEN CB INLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-4), T-2064,2063,2061 VEN CB INLET R3 OTM-45 BH (140-27381-10) and T-2060 VEN CB INLET R3 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-12). The samples were analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2064,2063,2061 VEN CB INLET R3 OTM-45 BH (140-27381-10) and T-2060 VEN CB INLET R3 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-12). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): Results for sample T-2074 VEN CB INLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE (140-27381-4) was reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2080,2079 VEN CB INLET R1 OTM-45 FH**

**Lab Sample ID: 140-27381-1**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | 196       |           | 9.91     | 9.32 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 19:55 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |      |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 102       |           | 25 - 150 |      |           |   | 05/09/22 08:48 | 05/18/22 19:55 | 1       |

**Client Sample ID: T-2078,2077,2075 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-2**

BH

Matrix: Air

Date Collected: 05/05/22 00:00

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|-----|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | 1210      |           | 500      | 275 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 20:22 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |     |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 92        |           | 25 - 150 |     |           |   | 05/16/22 13:00 | 05/21/22 20:22 | 1       |

**Client Sample ID: T-2076 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-3**

**IMPINGERS 1,2 & 3 CONDENSATE**

Matrix: Air

Date Collected: 05/05/22 00:00

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL   | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|-------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | 182       |           | 1.50     | 0.600 | ug/Sample |   | 05/20/22 05:00 | 05/21/22 19:27 | 20      |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |       |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 127       |           | 25 - 150 |       |           |   | 05/20/22 05:00 | 05/21/22 19:27 | 20      |

**Client Sample ID: T-2074 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-4**

**BREAKTHROUGH XAD-2 RESIN TUBE**

Matrix: Air

Date Collected: 05/05/22 00:00

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL   | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|-------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | 1.32      |           | 0.400    | 0.220 | ug/Sample |   | 05/16/22 13:00 | 05/23/22 12:23 | 20      |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |       |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 111       |           | 25 - 150 |       |           |   | 05/16/22 13:00 | 05/23/22 12:23 | 20      |

**Client Sample ID: T-2073,2072 VEN CB INLET R2 OTM-45 FH**

**Lab Sample ID: 140-27381-5**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL   | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA | 274    |           | 10.0 | 9.40 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 20:03 | 1       |

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# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2073,2072 VEN CB INLET R2 OTM-45 FH**  
 Date Collected: 05/05/22 00:00  
 Date Received: 05/06/22 18:55  
 Sample Container: Air Train

**Lab Sample ID: 140-27381-5**  
 Matrix: Air

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 101       |           | 25 - 150 | 05/09/22 08:48 | 05/18/22 20:03 | 1       |

**Client Sample ID: T-2071,2070,2068 VEN CB INLET R2 OTM-45 BH**  
 Date Collected: 05/05/22 00:00  
 Date Received: 05/06/22 18:55  
 Sample Container: Air Train

**Lab Sample ID: 140-27381-6**  
 Matrix: Air

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL  | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|-----|-----------|---|----------------|----------------|---------|
| HFPO-DA | 901    |           | 500 | 275 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 20:57 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 114       |           | 25 - 150 | 05/16/22 13:00 | 05/21/22 20:57 | 1       |

**Client Sample ID: T-2069 VEN CB INLET R2 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE**  
 Date Collected: 05/05/22 00:00  
 Date Received: 05/06/22 18:55  
 Sample Container: Air Train

**Lab Sample ID: 140-27381-7**  
 Matrix: Air

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL   | MDL   | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|-------|-----------|---|----------------|----------------|---------|
| HFPO-DA | 115    |           | 1.52 | 0.610 | ug/Sample |   | 05/20/22 05:00 | 05/21/22 19:37 | 20      |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 99        |           | 25 - 150 | 05/20/22 05:00 | 05/21/22 19:37 | 20      |

**Client Sample ID: T-2067 VEN CB INLET R2 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE**  
 Date Collected: 05/05/22 00:00  
 Date Received: 05/06/22 18:55  
 Sample Container: Air Train

**Lab Sample ID: 140-27381-8**  
 Matrix: Air

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL   | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA | 3.39   |           | 2.00 | 1.10 | ug/Sample |   | 05/16/22 13:00 | 05/22/22 13:06 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 83        |           | 25 - 150 | 05/16/22 13:00 | 05/22/22 13:06 | 1       |

**Client Sample ID: T-2066,2065 VEN CB INLET R3 OTM-45 FH**  
 Date Collected: 05/05/22 00:00  
 Date Received: 05/06/22 18:55  
 Sample Container: Air Train

**Lab Sample ID: 140-27381-9**  
 Matrix: Air

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL   | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA | 215    |           | 10.0 | 9.40 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 20:12 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 107       |           | 25 - 150 | 05/09/22 08:48 | 05/18/22 20:12 | 1       |

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# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2064,2063,2061 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-10**

**BH**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-----|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 1180      |           | 500      | 275 | ug/Sample |   | 05/16/22 13:00 | 05/23/22 12:31 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |     |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 86        |           | 25 - 150 |     |           |   | 05/16/22 13:00 | 05/23/22 12:31 | 1       |

**Client Sample ID: T-2062 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-11**

**IMPINGERS 1,2 & 3 CONDENSATE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 138       |           | 1.60     | 0.640 | ug/Sample |   | 05/20/22 05:00 | 05/21/22 19:47 | 20      |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 91        |           | 25 - 150 |       |           |   | 05/20/22 05:00 | 05/21/22 19:47 | 20      |

**Client Sample ID: T-2060 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-12**

**BREAKTHROUGH XAD-2 RESIN TUBE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 2.60      |           | 2.00     | 1.10 | ug/Sample |   | 05/16/22 13:00 | 05/23/22 12:40 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 90        |           | 25 - 150 |      |           |   | 05/16/22 13:00 | 05/23/22 12:40 | 1       |

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: None

| Analyte | RL      | MDL     | Units     |
|---------|---------|---------|-----------|
| HFPO-DA | 0.00500 | 0.00470 | ug/Sample |
| HFPO-DA | 0.0200  | 0.0110  | ug/Sample |

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: PFAS Prep

| Analyte | RL       | MDL      | Units     |
|---------|----------|----------|-----------|
| HFPO-DA | 0.000500 | 0.000200 | ug/Sample |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Air

Prep Type: Total/NA

| Percent Isotope Dilution Recovery (Acceptance Limits) |   |                    |
|---|---|--------------------|
| Lab Sample ID   | Client Sample ID  | HFPODA<br>(25-150) |
| 140-27381-1   | T-2080,2079 VEN CB INLET R1                                       | 102                |
| 140-27381-2   | T-2078,2077,2075 VEN CB<br>INLET R1 OTM-45 BH                     | 92                 |
| 140-27381-3   | T-2076 VEN CB INLET R1<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 127                |
| 140-27381-4   | T-2074 VEN CB INLET R1<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 111                |
| 140-27381-5   | T-2073,2072 VEN CB INLET R2<br>OTM-45 FH                          | 101                |
| 140-27381-6   | T-2071,2070,2068 VEN CB<br>INLET R2 OTM-45 BH                     | 114                |
| 140-27381-7   | T-2069 VEN CB INLET R2<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 99                 |
| 140-27381-8   | T-2067 VEN CB INLET R2<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 83                 |
| 140-27381-9   | T-2066,2065 VEN CB INLET R3<br>OTM-45 FH                          | 107                |
| 140-27381-10  | T-2064,2063,2061 VEN CB<br>INLET R3 OTM-45 BH                     | 86                 |
| 140-27381-11  | T-2062 VEN CB INLET R3<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 91                 |
| 140-27381-12  | T-2060 VEN CB INLET R3<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 90                 |
| LCS 140-61492/2-B                                     | Lab Control Sample  | 90                 |
| LCS 140-61728/2-B                                     | Lab Control Sample  | 90                 |
| LCS 140-61825/2-A                                     | Lab Control Sample  | 102                |
| LCSD 140-61492/3-B                                    | Lab Control Sample Dup  | 90                 |
| LCSD 140-61728/3-B                                    | Lab Control Sample Dup  | 101                |
| LCSD 140-61825/3-A                                    | Lab Control Sample Dup  | 110                |
| MB 140-61492/1-B                                      | Method Blank  | 93                 |
| MB 140-61728/1-B                                      | Method Blank  | 94                 |
| MB 140-61825/1-A                                      | Method Blank  | 107                |
| <b>Surrogate Legend</b>                               |   |                    |
| HFPODA = 13C3 HFPO-DA                                 |   |                    |

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 140-61492/1-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte                  | MB Result    | MB Qualifier | RL       | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|--------------|--------------|----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | ND           |              | 0.00500  | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |
| Isotope Dilution         | MB %Recovery | MB Qualifier | Limits   |         |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 93           |              | 25 - 150 |         |           |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |

**Lab Sample ID: LCS 140-61492/2-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte                  | Spike Added   | LCS Result    | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|--------------------------|---------------|---------------|---------------|-----------|---|------|-------------|
| HFPO-DA                  | 0.0200        | 0.02261       |               | ug/Sample |   | 113  | 60 - 140    |
| Isotope Dilution         | LCS %Recovery | LCS Qualifier | Limits        |           |   |      |             |
| <sup>13</sup> C3 HFPO-DA | 90            |               | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61492/3-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte                  | Spike Added    | LCSD Result    | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|----------------|----------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                  | 0.0200         | 0.02418        |                | ug/Sample |   | 121  | 60 - 140    | 7   | 30        |
| Isotope Dilution         | LCSD %Recovery | LCSD Qualifier | Limits         |           |   |      |             |     |           |
| <sup>13</sup> C3 HFPO-DA | 90             |                | 25 - 150       |           |   |      |             |     |           |

**Lab Sample ID: MB 140-61728/1-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte                  | MB Result    | MB Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|--------------|--------------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | ND           |              | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 19:56 | 1       |
| Isotope Dilution         | MB %Recovery | MB Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 94           |              | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/21/22 19:56 | 1       |

**Lab Sample ID: LCS 140-61728/2-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte                  | Spike Added   | LCS Result    | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|--------------------------|---------------|---------------|---------------|-----------|---|------|-------------|
| HFPO-DA                  | 0.0200        | 0.02358       |               | ug/Sample |   | 118  | 60 - 140    |
| Isotope Dilution         | LCS %Recovery | LCS Qualifier | Limits        |           |   |      |             |
| <sup>13</sup> C3 HFPO-DA | 90            |               | 25 - 150      |           |   |      |             |

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# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCSD 140-61728/3-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte                 | Spike Added      | LCSD Result      | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                 | 0.0200           | 0.02177          |                | ug/Sample |   | 109  | 60 - 140    | 8   | 30        |
|                         |                  | <b>LCSD</b>      | <b>LCSD</b>    |           |   |      |             |     |           |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b>  |           |   |      |             |     |           |
| 13C3 HFPO-DA            | 101              |                  | 25 - 150       |           |   |      |             |     |           |

**Lab Sample ID: MB 140-61825/1-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | MB Result        | MB Qualifier     | RL            | MDL             | Unit            | D              | Prepared       | Analyzed       | Dil Fac |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|----------------|----------------|---------|
| HFPO-DA                 | ND               |                  | 0.000500      | 0.000200        | ug/Sample       |                | 05/20/22 05:00 | 05/20/22 17:34 | 1       |
|                         |                  | <b>MB</b>        | <b>MB</b>     |                 |                 |                |                |                |         |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |                |                |         |
| 13C3 HFPO-DA            | 107              |                  | 25 - 150      | 05/20/22 05:00  | 05/20/22 17:34  | 1              |                |                |         |

**Lab Sample ID: LCS 140-61825/2-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCS Result       | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |  |  |
|-------------------------|------------------|------------------|---------------|-----------|---|------|-------------|--|--|
| HFPO-DA                 | 0.0100           | 0.009305         |               | ug/Sample |   | 93   | 60 - 140    |  |  |
|                         |                  | <b>LCS</b>       | <b>LCS</b>    |           |   |      |             |  |  |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |   |      |             |  |  |
| 13C3 HFPO-DA            | 102              |                  | 25 - 150      |           |   |      |             |  |  |

**Lab Sample ID: LCSD 140-61825/3-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCSD Result      | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                 | 0.0100           | 0.009893         |                | ug/Sample |   | 99   | 60 - 140    | 6   | 30        |
|                         |                  | <b>LCSD</b>      | <b>LCSD</b>    |           |   |      |             |     |           |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b>  |           |   |      |             |     |           |
| 13C3 HFPO-DA            | 110              |                  | 25 - 150       |           |   |      |             |     |           |



# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## LCMS

### Prep Batch: 61492

| Lab Sample ID      | Client Sample ID                      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------------------|-----------|--------|--------|------------|
| 140-27381-1        | T-2080,2079 VEN CB INLET R1 OTM-45 FH | Total/NA  | Air    | None   |            |
| 140-27381-5        | T-2073,2072 VEN CB INLET R2 OTM-45 FH | Total/NA  | Air    | None   |            |
| 140-27381-9        | T-2066,2065 VEN CB INLET R3 OTM-45 FH | Total/NA  | Air    | None   |            |
| MB 140-61492/1-B   | Method Blank                          | Total/NA  | Air    | None   |            |
| LCS 140-61492/2-B  | Lab Control Sample                    | Total/NA  | Air    | None   |            |
| LCSD 140-61492/3-B | Lab Control Sample Dup                | Total/NA  | Air    | None   |            |

### Cleanup Batch: 61620

| Lab Sample ID      | Client Sample ID                      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------------------|-----------|--------|--------|------------|
| 140-27381-1        | T-2080,2079 VEN CB INLET R1 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| 140-27381-5        | T-2073,2072 VEN CB INLET R2 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| 140-27381-9        | T-2066,2065 VEN CB INLET R3 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| MB 140-61492/1-B   | Method Blank                          | Total/NA  | Air    | Split  | 61492      |
| LCS 140-61492/2-B  | Lab Control Sample                    | Total/NA  | Air    | Split  | 61492      |
| LCSD 140-61492/3-B | Lab Control Sample Dup                | Total/NA  | Air    | Split  | 61492      |

### Prep Batch: 61728

| Lab Sample ID      | Client Sample ID                          | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---|-----------|--------|--------|------------|
| 140-27381-2        | T-2078,2077,2075 VEN CB INLET R1 OTM-45 B | Total/NA  | Air    | None   |            |
| 140-27381-4        | T-2074 VEN CB INLET R1 OTM-45 BREAKTHR    | Total/NA  | Air    | None   |            |
| 140-27381-6        | T-2071,2070,2068 VEN CB INLET R2 OTM-45 B | Total/NA  | Air    | None   |            |
| 140-27381-8        | T-2067 VEN CB INLET R2 OTM-45 BREAKTHR    | Total/NA  | Air    | None   |            |
| 140-27381-10       | T-2064,2063,2061 VEN CB INLET R3 OTM-45 B | Total/NA  | Air    | None   |            |
| 140-27381-12       | T-2060 VEN CB INLET R3 OTM-45 BREAKTHR    | Total/NA  | Air    | None   |            |
| MB 140-61728/1-B   | Method Blank                              | Total/NA  | Air    | None   |            |
| LCS 140-61728/2-B  | Lab Control Sample                        | Total/NA  | Air    | None   |            |
| LCSD 140-61728/3-B | Lab Control Sample Dup                    | Total/NA  | Air    | None   |            |

### Cleanup Batch: 61788

| Lab Sample ID      | Client Sample ID                          | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---|-----------|--------|--------|------------|
| 140-27381-2        | T-2078,2077,2075 VEN CB INLET R1 OTM-45 B | Total/NA  | Air    | Split  | 61728      |
| 140-27381-4        | T-2074 VEN CB INLET R1 OTM-45 BREAKTHR    | Total/NA  | Air    | Split  | 61728      |
| 140-27381-6        | T-2071,2070,2068 VEN CB INLET R2 OTM-45 B | Total/NA  | Air    | Split  | 61728      |
| 140-27381-8        | T-2067 VEN CB INLET R2 OTM-45 BREAKTHR    | Total/NA  | Air    | Split  | 61728      |
| 140-27381-10       | T-2064,2063,2061 VEN CB INLET R3 OTM-45 B | Total/NA  | Air    | Split  | 61728      |
| 140-27381-12       | T-2060 VEN CB INLET R3 OTM-45 BREAKTHR    | Total/NA  | Air    | Split  | 61728      |
| MB 140-61728/1-B   | Method Blank                              | Total/NA  | Air    | Split  | 61728      |
| LCS 140-61728/2-B  | Lab Control Sample                        | Total/NA  | Air    | Split  | 61728      |
| LCSD 140-61728/3-B | Lab Control Sample Dup                    | Total/NA  | Air    | Split  | 61728      |

### Analysis Batch: 61817

| Lab Sample ID      | Client Sample ID                      | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|---------------------------------------|-----------|--------|----------------|------------|
| 140-27381-1        | T-2080,2079 VEN CB INLET R1 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| 140-27381-5        | T-2073,2072 VEN CB INLET R2 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| 140-27381-9        | T-2066,2065 VEN CB INLET R3 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| MB 140-61492/1-B   | Method Blank                          | Total/NA  | Air    | 537 (modified) | 61620      |
| LCS 140-61492/2-B  | Lab Control Sample                    | Total/NA  | Air    | 537 (modified) | 61620      |
| LCSD 140-61492/3-B | Lab Control Sample Dup                | Total/NA  | Air    | 537 (modified) | 61620      |

Eurofins Knoxville

# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## LCMS

### Cleanup Batch: 61818

| Lab Sample ID | Client Sample ID                      | Prep Type | Matrix | Method   | Prep Batch |
|---------------|---------------------------------------|-----------|--------|----------|------------|
| 140-27381-1   | T-2080,2079 VEN CB INLET R1 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |
| 140-27381-5   | T-2073,2072 VEN CB INLET R2 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |
| 140-27381-9   | T-2066,2065 VEN CB INLET R3 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |

### Prep Batch: 61825

| Lab Sample ID      | Client Sample ID                        | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|---|-----------|--------|-----------|------------|
| 140-27381-3        | T-2076 VEN CB INLET R1 OTM-45 IMPINGERS | Total/NA  | Air    | PFAS Prep |            |
| 140-27381-7        | T-2069 VEN CB INLET R2 OTM-45 IMPINGERS | Total/NA  | Air    | PFAS Prep |            |
| 140-27381-11       | T-2062 VEN CB INLET R3 OTM-45 IMPINGERS | Total/NA  | Air    | PFAS Prep |            |
| MB 140-61825/1-A   | Method Blank                            | Total/NA  | Air    | PFAS Prep |            |
| LCS 140-61825/2-A  | Lab Control Sample                      | Total/NA  | Air    | PFAS Prep |            |
| LCSD 140-61825/3-A | Lab Control Sample Dup                  | Total/NA  | Air    | PFAS Prep |            |

### Analysis Batch: 61905

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|------------------------|-----------|--------|----------------|------------|
| MB 140-61825/1-A   | Method Blank           | Total/NA  | Air    | 537 (modified) | 61825      |
| LCS 140-61825/2-A  | Lab Control Sample     | Total/NA  | Air    | 537 (modified) | 61825      |
| LCSD 140-61825/3-A | Lab Control Sample Dup | Total/NA  | Air    | 537 (modified) | 61825      |

### Analysis Batch: 61914

| Lab Sample ID      | Client Sample ID                          | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|---|-----------|--------|----------------|------------|
| 140-27381-2        | T-2078,2077,2075 VEN CB INLET R1 OTM-45 B | Total/NA  | Air    | 537 (modified) | 61915      |
| 140-27381-3        | T-2076 VEN CB INLET R1 OTM-45 IMPINGERS   | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27381-6        | T-2071,2070,2068 VEN CB INLET R2 OTM-45 B | Total/NA  | Air    | 537 (modified) | 61915      |
| 140-27381-7        | T-2069 VEN CB INLET R2 OTM-45 IMPINGERS   | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27381-11       | T-2062 VEN CB INLET R3 OTM-45 IMPINGERS   | Total/NA  | Air    | 537 (modified) | 61825      |
| MB 140-61728/1-B   | Method Blank                              | Total/NA  | Air    | 537 (modified) | 61788      |
| LCS 140-61728/2-B  | Lab Control Sample                        | Total/NA  | Air    | 537 (modified) | 61788      |
| LCSD 140-61728/3-B | Lab Control Sample Dup                    | Total/NA  | Air    | 537 (modified) | 61788      |

### Cleanup Batch: 61915

| Lab Sample ID | Client Sample ID                          | Prep Type | Matrix | Method   | Prep Batch |
|---------------|---|-----------|--------|----------|------------|
| 140-27381-2   | T-2078,2077,2075 VEN CB INLET R1 OTM-45 B | Total/NA  | Air    | Dilution | 61788      |
| 140-27381-6   | T-2071,2070,2068 VEN CB INLET R2 OTM-45 B | Total/NA  | Air    | Dilution | 61788      |

### Analysis Batch: 61919

| Lab Sample ID | Client Sample ID                       | Prep Type | Matrix | Method         | Prep Batch |
|---------------|--|-----------|--------|----------------|------------|
| 140-27381-8   | T-2067 VEN CB INLET R2 OTM-45 BREAKTHR | Total/NA  | Air    | 537 (modified) | 61921      |

### Cleanup Batch: 61921

| Lab Sample ID | Client Sample ID                       | Prep Type | Matrix | Method   | Prep Batch |
|---------------|--|-----------|--------|----------|------------|
| 140-27381-8   | T-2067 VEN CB INLET R2 OTM-45 BREAKTHR | Total/NA  | Air    | Dilution | 61788      |

### Analysis Batch: 61945

| Lab Sample ID | Client Sample ID                          | Prep Type | Matrix | Method         | Prep Batch |
|---------------|---|-----------|--------|----------------|------------|
| 140-27381-4   | T-2074 VEN CB INLET R1 OTM-45 BREAKTHR    | Total/NA  | Air    | 537 (modified) | 61788      |
| 140-27381-10  | T-2064,2063,2061 VEN CB INLET R3 OTM-45 B | Total/NA  | Air    | 537 (modified) | 61950      |
| 140-27381-12  | T-2060 VEN CB INLET R3 OTM-45 BREAKTHR    | Total/NA  | Air    | 537 (modified) | 61950      |

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## LCMS

### Cleanup Batch: 61950

| Lab Sample ID | Client Sample ID                          | Prep Type | Matrix | Method   | Prep Batch |
|---------------|---|-----------|--------|----------|------------|
| 140-27381-10  | T-2064,2063,2061 VEN CB INLET R3 OTM-45 B | Total/NA  | Air    | Dilution | 61788      |
| 140-27381-12  | T-2060 VEN CB INLET R3 OTM-45 BREAKTHR    | Total/NA  | Air    | Dilution | 61788      |

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- 14

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2080,2079 VEN CB INLET R1 OTM-45 FH**

**Lab Sample ID: 140-27381-1**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 113 mL       | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 57 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Dilution       |     |            | 5 uL           | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:55       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2078,2077,2075 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-2**

**BH**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Dilution       |     |            | 0.4 uL         | 10000 uL     | 61915        | 05/21/22 19:12       | JRC     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:22       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2076 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-3**

**IMPINGERS 1,2 & 3 CONDENSATE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | PFAS Prep      |     |            | 0.00667 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 20         |                |              | 61914        | 05/21/22 19:27       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2074 VEN CB INLET R1 OTM-45**

**Lab Sample ID: 140-27381-4**

**BREAKTHROUGH XAD-2 RESIN TUBE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 20         |                |              | 61945        | 05/23/22 12:23       | JRC     | TAL KNX |

Instrument ID: LCA

Eurofins Knoxville

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2073,2072 VEN CB INLET R2 OTM-45 FH**

**Lab Sample ID: 140-27381-5**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 84 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 42 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Dilution       |     |            | 5 uL           | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 20:03       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2071,2070,2068 VEN CB INLET R2 OTM-45**

**Lab Sample ID: 140-27381-6**

**BH**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Dilution       |     |            | 0.4 uL         | 10000 uL     | 61915        | 05/21/22 19:12       | JRC     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:57       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2069 VEN CB INLET R2 OTM-45**

**Lab Sample ID: 140-27381-7**

**IMPINGERS 1,2 & 3 CONDENSATE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | PFAS Prep      |     |            | 0.00656 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 20         |                |              | 61914        | 05/21/22 19:37       | JRC     | TAL KNX |

Instrument ID: LCA

**Client Sample ID: T-2067 VEN CB INLET R2 OTM-45**

**Lab Sample ID: 140-27381-8**

**BREAKTHROUGH XAD-2 RESIN TUBE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA  | Cleanup    | Dilution       |     |            | 100 uL         | 10000 uL     | 61921        | 05/22/22 12:12       | JRC     | TAL KNX |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 61919        | 05/22/22 13:06       | JRC     | TAL KNX |

Instrument ID: LCA

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

**Client Sample ID: T-2066,2065 VEN CB INLET R3 OTM-45 FH**

**Lab Sample ID: 140-27381-9**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 82 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 41 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 5 uL           | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 20:12       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2064,2063,2061 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-10**

**BH**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 0.4 uL         | 10000 uL     | 61950        | 05/23/22 11:00       | JRC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61945        | 05/23/22 12:31       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2062 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-11**

**IMPINGERS 1,2 & 3 CONDENSATE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 0.00625 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 20         |                |              | 61914        | 05/21/22 19:47       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2060 VEN CB INLET R3 OTM-45**

**Lab Sample ID: 140-27381-12**

**BREAKTHROUGH XAD-2 RESIN TUBE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 100 uL         | 10000 uL     | 61950        | 05/23/22 11:00       | JRC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61945        | 05/23/22 12:40       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61492/1-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:28       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61728/1-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 19:56       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61825/1-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:34       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61492/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:37       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61728/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:05       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61825/2-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:43       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61492/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:46       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61728/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:13       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61825/3-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:51       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

### Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program               | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
|                        | AFCEE                 | N/A                   |                 |
| ANAB                   | Dept. of Defense ELAP | L2311                 | 02-13-25        |
| ANAB                   | Dept. of Energy       | L2311.01              | 02-13-25        |
| ANAB                   | ISO/IEC 17025         | L2311                 | 02-13-25        |
| Arkansas DEQ           | State                 | 88-0688               | 06-17-22        |
| California             | State                 | 2423                  | 06-30-22        |
| Colorado               | State                 | TN00009               | 02-28-23        |
| Connecticut            | State                 | PH-0223               | 09-30-23        |
| Florida                | NELAP                 | E87177                | 06-30-22        |
| Georgia (DW)           | State                 | 906                   | 12-11-22        |
| Hawaii                 | State                 | NA                    | 12-11-22        |
| Kansas                 | NELAP                 | E-10349               | 10-31-22        |
| Kentucky (DW)          | State                 | 90101                 | 12-31-22        |
| Louisiana              | NELAP                 | 83979                 | 06-30-22        |
| Louisiana (DW)         | State                 | LA019                 | 12-31-22        |
| Maryland               | State                 | 277                   | 03-31-23        |
| Michigan               | State                 | 9933                  | 12-11-22        |
| Nevada                 | State                 | TN00009               | 07-31-22        |
| New Hampshire          | NELAP                 | 299919                | 01-17-23        |
| New Jersey             | NELAP                 | TN001                 | 06-30-22        |
| New York               | NELAP                 | 10781                 | 03-31-23        |
| North Carolina (DW)    | State                 | 21705                 | 07-31-22        |
| North Carolina (WW/SW) | State                 | 64                    | 12-31-22        |
| Ohio VAP               | State                 | CL0059                | 06-02-23        |
| Oklahoma               | State                 | 9415                  | 08-31-22        |
| Oregon                 | NELAP                 | TNI0189               | 12-31-22        |
| Pennsylvania           | NELAP                 | 68-00576              | 12-31-22        |
| Tennessee              | State                 | 02014                 | 12-11-22        |
| Texas                  | NELAP                 | T104704380-18-12      | 08-31-22        |
| US Fish & Wildlife     | US Federal Programs   | 058448                | 07-31-22        |
| USDA                   | US Federal Programs   | P330-19-00236         | 08-20-22        |
| Utah                   | NELAP                 | TN00009               | 07-31-22        |
| Virginia               | NELAP                 | 460176                | 09-14-22        |
| Washington             | State                 | C593                  | 01-19-23        |
| West Virginia (DW)     | State                 | 9955C                 | 12-31-22        |
| West Virginia DEP      | State                 | 345                   | 04-30-23        |
| Wisconsin              | State                 | 998044300             | 08-31-22        |

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

| Method         | Method Description                         | Protocol | Laboratory |
|----------------|--|----------|------------|
| 537 (modified) | Fluorinated Alkyl Substances               | EPA      | TAL KNX    |
| Dilution       | Dilution and Re-fortification of Standards | None     | TAL KNX    |
| None           | Leaching Procedure                         | TAL SOP  | TAL KNX    |
| None           | Leaching Procedure for Filter              | TAL SOP  | TAL KNX    |
| PFAS Prep      | Preparation, Direct Inject PFAS            | TAL-SAC  | TAL KNX    |
| Split          | Source Air Split                           | None     | TAL KNX    |

#### Protocol References:

- EPA = US Environmental Protection Agency
- None = None
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure
- TAL-SAC = Eurofins Sacramento, Facility Standard Operating Procedure.

#### Laboratory References:

- TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Sample Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Inlet

Job ID: 140-27381-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|---|--------|----------------|----------------|
| 140-27381-1   | T-2080,2079 VEN CB INLET R1 OTM-45 FH                       | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-2   | T-2078,2077,2075 VEN CB INLET R1 OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-3   | T-2076 VEN CB INLET R1 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-4   | T-2074 VEN CB INLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-5   | T-2073,2072 VEN CB INLET R2 OTM-45 FH                       | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-6   | T-2071,2070,2068 VEN CB INLET R2 OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-7   | T-2069 VEN CB INLET R2 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-8   | T-2067 VEN CB INLET R2 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-9   | T-2066,2065 VEN CB INLET R3 OTM-45 FH                       | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-10  | T-2064,2063,2061 VEN CB INLET R3 OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-11  | T-2062 VEN CB INLET R3 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27381-12  | T-2060 VEN CB INLET R3 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |

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**Request for Analysis/Chain-of-Custody – RFA/COC #001**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed INLET Testing**



Environment Testing  
 TestAmerica

|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Project Identification:</b> | <b>Chemours Emissions Test</b>     |
| Client Name:                   | Chemours Company                   |
| Client Contact:                | Christel Compton<br>(910) 678-1213 |
| TestAmerica Contact:           | Courtney Adkins<br>(865) 291-3019  |
| TestAmerica Project Manager:   | Billy Anderson<br>(865) 291-3080   |

|  |                          |
|--|--------------------------|
| <b>Laboratory Deliverable Turnaround Requirements:</b>                         |                          |
| Analytical Due Date:<br>(Review-Released Data)                                 | 21 Days from Lab Receipt |
| Data Package Due Date:   | 28 Days from Lab Receipt |
| <b>Laboratory Destination:</b>   |                          |
| TestAmerica Laboratories, Inc.<br>5815 Middlebrook Pike<br>Knoxville, TN 37921 |                          |
| <b>Lab Phone Number:</b>   | 865.291.3000             |
| <b>Courier:</b>  | FedEx or Hand Deliver    |

**Analytical Testing QC Requirements:**  
 The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "BT" = Blank Train, "RB" = Reagent Blank, "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, "PB" = Proof Blank, "TB" = Trip Blank

**Project Deliverables:**

Report analytical results on TALS Reports and in data packages. Include "Field Sample" on all TALS Reports.



er" on all

|                              |  |
|------------------------------|--|
| <b>Analytical Parameter:</b> | <b>Holding Time Requirements:</b>          |
| HFPO-DA (CAS No. 13252-13-6) | 14 Days to Extraction; 40 Days to Analysis |

140-27381 Chain of Custody

| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis  | Analytical Specifications  |
|---|---------|------------------------|-------------------------|-------------------------------|---|--|
| T-2080 VEN CB INLET R1 OTM-45 Particulate Filter<br><br>(Combine with T-2079)                         | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Particulate Filter (82.6 mm Whatman Glass Microfiber)</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis                        | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample. Analyze for HFPO-DA using method 8321A-HFPO.                                       |
| T-2079 VEN CB INLET R1 OTM-45 FH of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2080) | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Front Half of Filter Holder &amp; Probe Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.  |
| T-2078 VEN CB INLET R1 OTM-45 XAD-2 Resin Tube  | 1       | 5/5/22                 |                         | XAD-2 Resin Tube              | <b>XAD-2 Resin Tube</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the BacT-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample. Analyze for HFPO-DA using method 8321A-HFPO. |

**Request for Analysis/Chain-of-Custody – RFA/COC #001**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed INLET Testing**



Environment Testing  
 TestAmerica

| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis  | Analytical Specifications  |
|--|---------|------------------------|-------------------------|-------------------------------|---|--|
| T-2077 VEN CB INLET R1 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2078) | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Back Half of Filter Holder &amp; Coil Condenser Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction.   |
| T-2076 VEN CB INLET R1 OTM-45 Impingers 1,2 & 3 Condensate   | 1       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | <b>Impinger #1, #2 &amp; #3 Condensate</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.  |
| T-2075 VEN CB INLET R1 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2078)                       | 1       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | <b>Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis                              | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.   |
| T-2074 VEN CB INLET R1 OTM-45 Breakthrough XAD-2 Resin Tube  | 1       | 5/5/22                 |                         | XAD-2 Resin Tube              | <b>Breakthrough XAD-2 Resin Tube</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction. Analyze for HFPO-DA using method 8321A-HFPO.  |
| T-2073 VEN CB INLET R2 OTM-45 Particulate Filter<br><br>(Combine with T-2072)                                  | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Particulate Filter (82.6 mm Whatman Glass Microfiber)</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis                                | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample. Analyze for HFPO-DA using method 8321A-HFPO. |
| T-2072 VEN CB INLET R2 OTM-45 Front Half of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2073)  | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Front Half of Filter Holder &amp; Probe Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis         | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.  |

Request for Analysis/Chain-of-Custody – RFA/COC #001  
 The Chemours Company – Fayetteville NC  
 VEN Carbon Bed INLET Testing



Environment Testing  
 TestAmerica

| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis   | Analytical Specifications   |
|--|---------|------------------------|-------------------------|-------------------------------|--|---|
| T-2071 VEN CB INLET R2 OTM-45 XAD-2 Resin Tube   | 2       | 5/5/22                 |                         | XAD-2 Resin Tube              | XAD-2 Resin Tube<br>OTM-45 Train<br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the BacT-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample. Analyze for HFPO-DA using method 8321A-HFPO. Analyze. |
| T-2070 VEN CB INLET R2 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2071) | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Back Half of Filter Holder & Coil Condenser Methanol/5% Ammonium Hydroxide Rinse<br>OTM-45 Train<br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction.  |
| T-2069 VEN CB INLET R2 OTM-45 Impingers 1,2 & 3 Condensate   | 2       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | Impinger #1, #2 & #3 Condensate<br>OTM-45 Train<br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.   |
| T-2068 VEN CB INLET R2 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2071)                       | 2       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse<br>OTM-45 Train<br>HFPO-DA Analysis                          | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.  |
| T-2067 VEN CB INLET R2 OTM-45 Breakthrough XAD-2 Resin Tube  | 2       | 5/5/22                 |                         | XAD-2 Resin Tube              | Breakthrough XAD-2 Resin Tube<br>OTM-45 Train<br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction. Analyze for HFPO-DA using method 8321A-HFPO.   |
| T-2066 VEN CB INLET R3 OTM-45 Particulate Filter<br><br>(Combine with T-2065)                                  | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Particulate Filter (82.6 mm Whatman Glass Microfiber)<br>OTM-45 Train<br>HFPO-DA Analysis                            | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample. Analyze for HFPO-DA using method 8321A-HFPO.  |



Request for Analysis/Chain-of-Custody – RFA/COC #001  
 The Chemours Company – Fayetteville NC  
 VEN Carbon Bed INLET Testing



Environment Testing  
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| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis   | Analytical Specifications  |
|--|---------|------------------------|-------------------------|-------------------------------|--|--|
| T-2065 VEN CB INLET R3 OTM-45 Front Half of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2066)  | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Front Half of Filter Holder & Probe Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis         | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.  |
| T-2064 VEN CB INLET R3 OTM-45 XAD-2 Resin Tube   | 3       | 5/5/22                 |                         | XAD-2 Resin Tube              | XAD-2 Resin Tube<br><br>OTM-45 Train<br><br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the BacT-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample. Analyze for HFPO-DA using method 8321A-HFPO. |
| T-2063 VEN CB INLET R3 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2064) | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Back Half of Filter Holder & Coil Condenser Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction. Analyze for HFPO-DA using method 8321A-HFPO.  |
| T-2062 VEN CB INLET R3 OTM-45 Impingers 1,2 & 3 Condensate   | 3       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | Impinger #1, #2 & #3 Condensate<br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.  |
| T-2061 VEN CB INLET R3 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2064)                       | 3       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis                          | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.   |
| T-2060 VEN CB INLET R3 OTM-45 Breakthrough XAD-2 Resin Tube  | 3       | 5/5/22                 |                         | XAD-2 Resin Tube              | Breakthrough XAD-2 Resin Tube<br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction. Analyze for HFPO-DA using method 8321A-HFPO.  |

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**Sample Receipt Log and Condition of the Samples Upon Receipt:**

Please fill in the following information:

**Comments**

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment. NONE
- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA: RT 1.5/ 17.20°C
- (3) Record any apparent sample loss/breakage. NONE
- (4) Record any unidentified samples transported with this shipment of samples: NONE
- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances): HAND DELIVERED, NO CUSTODY SEALS

**Custody Transfer:**

|                  |                                |                            |                                   |
|------------------|--------------------------------|----------------------------|-----------------------------------|
| Relinquished By: | <u>Patricia May</u><br>Name    | <u>Alliance</u><br>Company | <u>5/5/22 / 1730</u><br>Date/Time |
| Accepted By:     | <u>Dony Gill</u><br>Name       | <u>ETA KNOX</u><br>Company | <u>5/4/22 / 1730</u><br>Date/Time |
| Relinquished By: | <u>Dony Gill</u><br>Name       | <u>ETA KNOX</u><br>Company | <u>5/6/22 1855</u><br>Date/Time   |
| Accepted By:     | <u>Christine Adams</u><br>Name | <u>ETA KY</u><br>Company   | <u>5/6/22 18:55</u><br>Date/Time  |
| Relinquished By: | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time                |
| Accepted By:     | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time                |
| Relinquished By: | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time                |
| Accepted By:     | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time                |



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

| Review Items   | Yes | No | NA | If No, what was the problem?  | Comments/Actions Taken                                 |
|--|-----|----|----|---|--|
| 1. Are the shipping containers intact?   | /   |    |    | <input type="checkbox"/> Containers, Broken   |  |
| 2. Were ambient air containers received intact?  |     |    | /  | <input type="checkbox"/> Checked in lab   |  |
| 3. The coolers/containers custody seal if present, is it intact?   |     |    | /  | <input type="checkbox"/> Yes<br><input type="checkbox"/> NA   |  |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C)<br>Thermometer ID : <u>5C71</u><br>Correction factor: <u>+0.5°C</u> | /   |    |    | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel<br><input type="checkbox"/> Cooler Out of Temp, Same Day Receipt        |  |
| 5. Were all of the sample containers received intact?  | /   |    |    | <input type="checkbox"/> Containers, Broken   |  |
| 6. Were samples received in appropriate containers?  | /   |    |    | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel   |  |
| 7. Do sample container labels match COC? (IDs, Dates, Times)   | /   |    |    | <input type="checkbox"/> COC & Samples Do Not Match<br><input type="checkbox"/> COC Incorrect/Incomplete<br><input type="checkbox"/> COC Not Received |  |
| 8. Were all of the samples listed on the COC received?   | /   |    |    | <input type="checkbox"/> Sample Received, Not on COC<br><input type="checkbox"/> Sample on COC, Not Received  |  |
| 9. Is the date/time of sample collection noted?  | /   |    | /  | <input type="checkbox"/> COC; No Date/Time; Client Contacted  | Labeling Verified by: _____ Date: _____                |
| 10. Was the sampler identified on the COC?   | /   |    |    | <input type="checkbox"/> Sampler Not Listed on COC  | pH test strip lot number: _____                        |
| 11. Is the client and project name/# identified?   | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   |  |
| 12. Are tests/parameters listed for each sample?   | /   |    |    | <input type="checkbox"/> COC No tests on COC  |  |
| 13. Is the matrix of the samples noted?  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   |  |
| 14. Was COC relinquished? (Signed/Dated/Timed)   | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   | Box 16A: pH Preservation<br>Box 18A: Residual Chlorine |
| 15. Were samples received within holding time?   | /   |    |    | <input type="checkbox"/> Holding Time - Receipt   | Preservative: _____                                    |
| 16. Were samples received with correct chemical preservative (excluding Encore)?   | /   |    | /  | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A)   | Lot Number: _____                                      |
| 17. Were VOA samples received without headspace?   | /   |    | /  | <input type="checkbox"/> Incorrect Preservative   | Exp Date: _____  |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668)<br>Chlorine test strip lot number: _____   | /   |    | /  | <input type="checkbox"/> Headspace (VOA only)<br><input type="checkbox"/> Residual Chlorine   | Analyst: _____   |
| 19. For 1613B water samples is pH<9?   | /   |    | /  |   | Date: _____  |
| 20. For rad samples was sample activity info. Provided?  | /   |    | /  | <input type="checkbox"/> If no, notify lab to adjust<br><input type="checkbox"/> Project missing info   | Time: _____  |
| Project #: _____   |     |    |    |   |  |
| PM Instructions: _____   |     |    |    |   |  |

Sample Receiving Associate: Randy Johnson Date: 5-7-22 QA026R32.doc, 062719



## ANALYTICAL REPORT

Eurofins Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921  
Tel: (865)291-3000

Laboratory Job ID: 140-27382-1

Client Project/Site: Fayetteville Emissions Test - VEN CB Outlet

**For:**

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, Delaware 19713

Attn: Michael Aucoin



Authorized for release by:  
5/24/2022 2:09:15 PM

Courtney Adkins, Project Manager II  
(865)291-3019  
[Courtney.Adkins@et.eurofinsus.com](mailto:Courtney.Adkins@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Qualifiers

### LCMS

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Case Narrative

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Job ID: 140-27382-1**

**Laboratory: Eurofins Knoxville**

## Narrative

### Job Narrative 140-27382-1

#### Receipt

The samples were received on 5/6/2022 6:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

#### LCMS

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2059,2058 VEN CB OUTLET R1 OTM-45 FH (140-27382-1), T-2052,2051 VEN CB OUTLET R2 OTM-45 FH (140-27382-5) and T-2045,2044 VEN CB OUTLET R3 OTM-45 FH (140-27382-9). The sample was analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2059,2058 VEN CB OUTLET R1 OTM-45 FH (140-27382-1), T-2052,2051 VEN CB OUTLET R2 OTM-45 FH (140-27382-5) and T-2045,2044 VEN CB OUTLET R3 OTM-45 FH (140-27382-9). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 BH (140-27382-2) and T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 BH (140-27382-6). The samples were analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 BH (140-27382-2) and T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 BH (140-27382-6). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 BH (140-27382-10). These samples were analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 BH (140-27382-10). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

Method 537 (modified): The following samples were reported with elevated reporting limits for all analytes: T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 BH (140-27382-10). The samples were analyzed at a dilution based on screening results.

Method 537 (modified): The required dilution factor for the following samples were higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 BH (140-27382-10). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2059,2058 VEN CB OUTLET R1 OTM-45 FH**

**Lab Sample ID: 140-27382-1**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 99.3      |           | 5.00     | 4.70 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 20:21 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |           |   |                |                |         |
| 13C3 HFPO-DA     | 99        |           | 25 - 150 |      |           |   |                |                |         |
|                  |           |           |          |      |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |      |           |   | 05/09/22 08:48 | 05/18/22 20:21 | 1       |

**Client Sample ID: T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 BH**

**Lab Sample ID: 140-27382-2**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 44.8      |           | 40.0     | 22.0 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 21:18 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |           |   |                |                |         |
| 13C3 HFPO-DA     | 98        |           | 25 - 150 |      |           |   |                |                |         |
|                  |           |           |          |      |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |      |           |   | 05/07/22 12:47 | 05/19/22 21:18 | 1       |

**Client Sample ID: T-2055 VEN CB OUTLET R1 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE**

**Lab Sample ID: 140-27382-3**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 1.47      |           | 0.0800   | 0.0320 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 18:27 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   |                |                |         |
| 13C3 HFPO-DA     | 119       |           | 25 - 150 |        |           |   |                |                |         |
|                  |           |           |          |        |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |        |           |   | 05/20/22 05:00 | 05/20/22 18:27 | 1       |

**Client Sample ID: T-2053 VEN CB OUTLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE**

**Lab Sample ID: 140-27382-4**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 0.0370    |           | 0.0200   | 0.0110 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 21:27 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   |                |                |         |
| 13C3 HFPO-DA     | 121       |           | 25 - 150 |        |           |   |                |                |         |
|                  |           |           |          |        |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |        |           |   | 05/07/22 12:47 | 05/19/22 21:27 | 1       |

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2052,2051 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-5**

**FH**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 93.1      |           | 4.94     | 4.64 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 20:30 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |           |   |                |                |         |
| 13C3 HFPO-DA     | 96        |           | 25 - 150 |      |           |   |                |                |         |
|                  |           |           |          |      |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |      |           |   | 05/09/22 08:48 | 05/18/22 20:30 | 1       |

**Client Sample ID: T-2050,2049,2047 VEN CB OUTLET R2**

**Lab Sample ID: 140-27382-6**

**OTM-45 BH**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 54.4      |           | 50.0     | 27.5 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 21:36 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |      |           |   |                |                |         |
| 13C3 HFPO-DA     | 108       |           | 25 - 150 |      |           |   |                |                |         |
|                  |           |           |          |      |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |      |           |   | 05/07/22 12:47 | 05/19/22 21:36 | 1       |

**Client Sample ID: T-2048 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-7**

**IMPINGERS 1,2 & 3 CONDENSATE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 2.10      |           | 0.0787   | 0.0315 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 18:35 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   |                |                |         |
| 13C3 HFPO-DA     | 103       |           | 25 - 150 |        |           |   |                |                |         |
|                  |           |           |          |        |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |        |           |   | 05/20/22 05:00 | 05/20/22 18:35 | 1       |

**Client Sample ID: T-2046 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-8**

**BREAKTHROUGH XAD-2 RESIN TUBE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | 0.0593    |           | 0.0200   | 0.0110 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 21:45 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   |                |                |         |
| 13C3 HFPO-DA     | 102       |           | 25 - 150 |        |           |   |                |                |         |
|                  |           |           |          |        |           |   | Prepared       | Analyzed       | Dil Fac |
|                  |           |           |          |        |           |   | 05/07/22 12:47 | 05/19/22 21:45 | 1       |



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2045,2044 VEN CB OUTLET R3 OTM-45**

**Lab Sample ID: 140-27382-9**

**FH**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                 | Result           | Qualifier        | RL            | MDL  | Unit      | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------|------------------|------------------|---------------|------|-----------|---|-----------------|-----------------|----------------|
| HFPO-DA                 | 97.9             |                  | 4.93          | 4.64 | ug/Sample |   | 05/09/22 08:48  | 05/18/22 20:39  | 1              |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |      |           |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA            | 103              |                  | 25 - 150      |      |           |   | 05/09/22 08:48  | 05/18/22 20:39  | 1              |

**Client Sample ID: T-2043,2042,2040 VEN CB OUTLET R3**

**Lab Sample ID: 140-27382-10**

**OTM-45 BH**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                 | Result           | Qualifier        | RL            | MDL  | Unit      | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------|------------------|------------------|---------------|------|-----------|---|-----------------|-----------------|----------------|
| HFPO-DA                 | 45.4             |                  | 20.0          | 11.0 | ug/Sample |   | 05/07/22 12:47  | 05/23/22 12:14  | 1              |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |      |           |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA            | 90               |                  | 25 - 150      |      |           |   | 05/07/22 12:47  | 05/23/22 12:14  | 1              |

**Client Sample ID: T-2041 VEN CB OUTLET R3 OTM-45**

**Lab Sample ID: 140-27382-11**

**IMPINGERS 1,2 & 3 CONDENSATE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                 | Result           | Qualifier        | RL            | MDL    | Unit      | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------|------------------|------------------|---------------|--------|-----------|---|-----------------|-----------------|----------------|
| HFPO-DA                 | 0.940            |                  | 0.0762        | 0.0305 | ug/Sample |   | 05/20/22 05:00  | 05/20/22 18:44  | 1              |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |        |           |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA            | 103              |                  | 25 - 150      |        |           |   | 05/20/22 05:00  | 05/20/22 18:44  | 1              |

**Client Sample ID: T-2039 VEN CB OUTLET R3 OTM-45**

**Lab Sample ID: 140-27382-12**

**BREAKTHROUGH XAD-2 RESIN TUBE**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                 | Result           | Qualifier        | RL            | MDL    | Unit      | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------|------------------|------------------|---------------|--------|-----------|---|-----------------|-----------------|----------------|
| HFPO-DA                 | 0.0537           |                  | 0.0200        | 0.0110 | ug/Sample |   | 05/07/22 12:47  | 05/19/22 22:11  | 1              |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |        |           |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA            | 119              |                  | 25 - 150      |        |           |   | 05/07/22 12:47  | 05/19/22 22:11  | 1              |



# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: None

| Analyte | RL      | MDL     | Units     |
|---------|---------|---------|-----------|
| HFPO-DA | 0.00500 | 0.00470 | ug/Sample |
| HFPO-DA | 0.0200  | 0.0110  | ug/Sample |

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: PFAS Prep

| Analyte | RL       | MDL      | Units     |
|---------|----------|----------|-----------|
| HFPO-DA | 0.000500 | 0.000200 | ug/Sample |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

**Matrix: Air**

**Prep Type: Total/NA**

**Percent Isotope Dilution Recovery (Acceptance Limits)**

| Lab Sample ID      | Client Sample ID   | HFPODA<br>(25-150) |
|--------------------|--|--------------------|
| 140-27382-1        | T-2059,2058 VEN CB OUTLET  | 99                 |
| 140-27382-2        | T-2057,2056,2054 VEN CB<br>OUTLET R1 OTM-45 BH                     | 98                 |
| 140-27382-3        | T-2055 VEN CB OUTLET R1<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 119                |
| 140-27382-4        | T-2053 VEN CB OUTLET R1<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 121                |
| 140-27382-5        | T-2052,2051 VEN CB OUTLET<br>R2 OTM-45 FH                          | 96                 |
| 140-27382-6        | T-2050,2049,2047 VEN CB<br>OUTLET R2 OTM-45 BH                     | 108                |
| 140-27382-7        | T-2048 VEN CB OUTLET R2<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 103                |
| 140-27382-8        | T-2046 VEN CB OUTLET R2<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 102                |
| 140-27382-9        | T-2045,2044 VEN CB OUTLET<br>R3 OTM-45 FH                          | 103                |
| 140-27382-10       | T-2043,2042,2040 VEN CB<br>OUTLET R3 OTM-45 BH                     | 90                 |
| 140-27382-11       | T-2041 VEN CB OUTLET R3<br>OTM-45 IMPINGERS 1,2 & 3<br>CONDENSATE  | 103                |
| 140-27382-12       | T-2039 VEN CB OUTLET R3<br>OTM-45 BREAKTHROUGH<br>XAD-2 RESIN TUBE | 119                |
| LCS 140-61479/2-B  | Lab Control Sample   | 92                 |
| LCS 140-61492/2-B  | Lab Control Sample   | 90                 |
| LCS 140-61825/2-A  | Lab Control Sample   | 102                |
| LCSD 140-61479/3-B | Lab Control Sample Dup   | 81                 |
| LCSD 140-61492/3-B | Lab Control Sample Dup   | 90                 |
| LCSD 140-61825/3-A | Lab Control Sample Dup   | 110                |
| MB 140-61479/14-B  | Method Blank   | 102                |
| MB 140-61479/1-B   | Method Blank   | 91                 |
| MB 140-61492/1-B   | Method Blank   | 93                 |
| MB 140-61825/1-A   | Method Blank   | 107                |

**Surrogate Legend**

HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 140-61479/14-B**  
**Matrix: Air**  
**Analysis Batch: 61857**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61479**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.0200   | 0.0110 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 21:54 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 102          |              | 25 - 150 |        |           |   | 05/07/22 12:47 | 05/19/22 21:54 | 1       |

**Lab Sample ID: MB 140-61479/1-B**  
**Matrix: Air**  
**Analysis Batch: 61857**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61479**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.0200   | 0.0110 | ug/Sample |   | 05/07/22 12:47 | 05/19/22 19:41 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 91           |              | 25 - 150 |        |           |   | 05/07/22 12:47 | 05/19/22 19:41 | 1       |

**Lab Sample ID: LCS 140-61479/2-B**  
**Matrix: Air**  
**Analysis Batch: 61857**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61479**

| Analyte          | Spike Added   | LCS Result    | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|------------------|---------------|---------------|---------------|-----------|---|------|-------------|
| HFPO-DA          | 0.0100        | 0.01168       | J             | ug/Sample |   | 117  | 60 - 140    |
| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits        |           |   |      |             |
| 13C3 HFPO-DA     | 92            |               | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61479/3-B**  
**Matrix: Air**  
**Analysis Batch: 61857**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61479**

| Analyte          | Spike Added    | LCSD Result    | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | Limit |
|------------------|----------------|----------------|----------------|-----------|---|------|-------------|-----|-------|
| HFPO-DA          | 0.0100         | 0.01180        | J              | ug/Sample |   | 118  | 60 - 140    | 1   | 30    |
| Isotope Dilution | LCSD %Recovery | LCSD Qualifier | Limits         |           |   |      |             |     |       |
| 13C3 HFPO-DA     | 81             |                | 25 - 150       |           |   |      |             |     |       |

**Lab Sample ID: MB 140-61492/1-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.00500  | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |         |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 93           |              | 25 - 150 |         |           |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |

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# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 140-61492/2-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte                 | Spike Added      | LCS Result       | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|-------------------------|------------------|------------------|---------------|-----------|---|------|-------------|
| HFPO-DA                 | 0.0200           | 0.02261          |               | ug/Sample |   | 113  | 60 - 140    |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |           |   |      |             |
| 13C3 HFPO-DA            | 90               |                  | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61492/3-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte                 | Spike Added      | LCSD Result      | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                 | 0.0200           | 0.02418          |                | ug/Sample |   | 121  | 60 - 140    | 7   | 30        |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i>  |           |   |      |             |     |           |
| 13C3 HFPO-DA            | 90               |                  | 25 - 150       |           |   |      |             |     |           |

**Lab Sample ID: MB 140-61825/1-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | MB Result        | MB Qualifier     | RL            | MDL      | Unit      | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------|------------------|------------------|---------------|----------|-----------|---|-----------------|-----------------|----------------|
| HFPO-DA                 | ND               |                  | 0.000500      | 0.000200 | ug/Sample |   | 05/20/22 05:00  | 05/20/22 17:34  | 1              |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |          |           |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA            | 107              |                  | 25 - 150      |          |           |   | 05/20/22 05:00  | 05/20/22 17:34  | 1              |

**Lab Sample ID: LCS 140-61825/2-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCS Result       | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|-------------------------|------------------|------------------|---------------|-----------|---|------|-------------|
| HFPO-DA                 | 0.0100           | 0.009305         |               | ug/Sample |   | 93   | 60 - 140    |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |           |   |      |             |
| 13C3 HFPO-DA            | 102              |                  | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61825/3-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCSD Result      | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                 | 0.0100           | 0.009893         |                | ug/Sample |   | 99   | 60 - 140    | 6   | 30        |
| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i>  |           |   |      |             |     |           |
| 13C3 HFPO-DA            | 110              |                  | 25 - 150       |           |   |      |             |     |           |

# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## LCMS

### Prep Batch: 61479

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27382-2        | T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 | Total/NA  | Air    | None   |            |
| 140-27382-4        | T-2053 VEN CB OUTLET R1 OTM-45 BREAKTH   | Total/NA  | Air    | None   |            |
| 140-27382-6        | T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 | Total/NA  | Air    | None   |            |
| 140-27382-8        | T-2046 VEN CB OUTLET R2 OTM-45 BREAKTH   | Total/NA  | Air    | None   |            |
| 140-27382-10       | T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 | Total/NA  | Air    | None   |            |
| 140-27382-12       | T-2039 VEN CB OUTLET R3 OTM-45 BREAKTH   | Total/NA  | Air    | None   |            |
| MB 140-61479/14-B  | Method Blank                             | Total/NA  | Air    | None   |            |
| MB 140-61479/1-B   | Method Blank                             | Total/NA  | Air    | None   |            |
| LCS 140-61479/2-B  | Lab Control Sample                       | Total/NA  | Air    | None   |            |
| LCSD 140-61479/3-B | Lab Control Sample Dup                   | Total/NA  | Air    | None   |            |

### Prep Batch: 61492

| Lab Sample ID      | Client Sample ID                       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27382-1        | T-2059,2058 VEN CB OUTLET R1 OTM-45 FH | Total/NA  | Air    | None   |            |
| 140-27382-5        | T-2052,2051 VEN CB OUTLET R2 OTM-45 FH | Total/NA  | Air    | None   |            |
| 140-27382-9        | T-2045,2044 VEN CB OUTLET R3 OTM-45 FH | Total/NA  | Air    | None   |            |
| MB 140-61492/1-B   | Method Blank                           | Total/NA  | Air    | None   |            |
| LCS 140-61492/2-B  | Lab Control Sample                     | Total/NA  | Air    | None   |            |
| LCSD 140-61492/3-B | Lab Control Sample Dup                 | Total/NA  | Air    | None   |            |

### Cleanup Batch: 61530

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27382-2        | T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 | Total/NA  | Air    | Split  | 61479      |
| 140-27382-4        | T-2053 VEN CB OUTLET R1 OTM-45 BREAKTH   | Total/NA  | Air    | Split  | 61479      |
| 140-27382-6        | T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 | Total/NA  | Air    | Split  | 61479      |
| 140-27382-8        | T-2046 VEN CB OUTLET R2 OTM-45 BREAKTH   | Total/NA  | Air    | Split  | 61479      |
| 140-27382-10       | T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 | Total/NA  | Air    | Split  | 61479      |
| 140-27382-12       | T-2039 VEN CB OUTLET R3 OTM-45 BREAKTH   | Total/NA  | Air    | Split  | 61479      |
| MB 140-61479/14-B  | Method Blank                             | Total/NA  | Air    | Split  | 61479      |
| MB 140-61479/1-B   | Method Blank                             | Total/NA  | Air    | Split  | 61479      |
| LCS 140-61479/2-B  | Lab Control Sample                       | Total/NA  | Air    | Split  | 61479      |
| LCSD 140-61479/3-B | Lab Control Sample Dup                   | Total/NA  | Air    | Split  | 61479      |

### Cleanup Batch: 61620

| Lab Sample ID      | Client Sample ID                       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27382-1        | T-2059,2058 VEN CB OUTLET R1 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| 140-27382-5        | T-2052,2051 VEN CB OUTLET R2 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| 140-27382-9        | T-2045,2044 VEN CB OUTLET R3 OTM-45 FH | Total/NA  | Air    | Split  | 61492      |
| MB 140-61492/1-B   | Method Blank                           | Total/NA  | Air    | Split  | 61492      |
| LCS 140-61492/2-B  | Lab Control Sample                     | Total/NA  | Air    | Split  | 61492      |
| LCSD 140-61492/3-B | Lab Control Sample Dup                 | Total/NA  | Air    | Split  | 61492      |

### Analysis Batch: 61817

| Lab Sample ID      | Client Sample ID                       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--|-----------|--------|----------------|------------|
| 140-27382-1        | T-2059,2058 VEN CB OUTLET R1 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| 140-27382-5        | T-2052,2051 VEN CB OUTLET R2 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| 140-27382-9        | T-2045,2044 VEN CB OUTLET R3 OTM-45 FH | Total/NA  | Air    | 537 (modified) | 61818      |
| MB 140-61492/1-B   | Method Blank                           | Total/NA  | Air    | 537 (modified) | 61620      |
| LCS 140-61492/2-B  | Lab Control Sample                     | Total/NA  | Air    | 537 (modified) | 61620      |
| LCSD 140-61492/3-B | Lab Control Sample Dup                 | Total/NA  | Air    | 537 (modified) | 61620      |

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# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## LCMS

### Cleanup Batch: 61818

| Lab Sample ID | Client Sample ID                       | Prep Type | Matrix | Method   | Prep Batch |
|---------------|--|-----------|--------|----------|------------|
| 140-27382-1   | T-2059,2058 VEN CB OUTLET R1 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |
| 140-27382-5   | T-2052,2051 VEN CB OUTLET R2 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |
| 140-27382-9   | T-2045,2044 VEN CB OUTLET R3 OTM-45 FH | Total/NA  | Air    | Dilution | 61620      |

### Prep Batch: 61825

| Lab Sample ID      | Client Sample ID                        | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|---|-----------|--------|-----------|------------|
| 140-27382-3        | T-2055 VEN CB OUTLET R1 OTM-45 IMPINGEF | Total/NA  | Air    | PFAS Prep |            |
| 140-27382-7        | T-2048 VEN CB OUTLET R2 OTM-45 IMPINGEF | Total/NA  | Air    | PFAS Prep |            |
| 140-27382-11       | T-2041 VEN CB OUTLET R3 OTM-45 IMPINGEF | Total/NA  | Air    | PFAS Prep |            |
| MB 140-61825/1-A   | Method Blank                            | Total/NA  | Air    | PFAS Prep |            |
| LCS 140-61825/2-A  | Lab Control Sample                      | Total/NA  | Air    | PFAS Prep |            |
| LCSD 140-61825/3-A | Lab Control Sample Dup                  | Total/NA  | Air    | PFAS Prep |            |

### Analysis Batch: 61857

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--|-----------|--------|----------------|------------|
| 140-27382-2        | T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 | Total/NA  | Air    | 537 (modified) | 61858      |
| 140-27382-4        | T-2053 VEN CB OUTLET R1 OTM-45 BREAKTH   | Total/NA  | Air    | 537 (modified) | 61530      |
| 140-27382-6        | T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 | Total/NA  | Air    | 537 (modified) | 61858      |
| 140-27382-8        | T-2046 VEN CB OUTLET R2 OTM-45 BREAKTH   | Total/NA  | Air    | 537 (modified) | 61530      |
| 140-27382-12       | T-2039 VEN CB OUTLET R3 OTM-45 BREAKTH   | Total/NA  | Air    | 537 (modified) | 61530      |
| MB 140-61479/14-B  | Method Blank                             | Total/NA  | Air    | 537 (modified) | 61530      |
| MB 140-61479/1-B   | Method Blank                             | Total/NA  | Air    | 537 (modified) | 61530      |
| LCS 140-61479/2-B  | Lab Control Sample                       | Total/NA  | Air    | 537 (modified) | 61530      |
| LCSD 140-61479/3-B | Lab Control Sample Dup                   | Total/NA  | Air    | 537 (modified) | 61530      |

### Cleanup Batch: 61858

| Lab Sample ID | Client Sample ID                         | Prep Type | Matrix | Method   | Prep Batch |
|---------------|--|-----------|--------|----------|------------|
| 140-27382-2   | T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 | Total/NA  | Air    | Dilution | 61530      |
| 140-27382-6   | T-2050,2049,2047 VEN CB OUTLET R2 OTM-45 | Total/NA  | Air    | Dilution | 61530      |

### Analysis Batch: 61905

| Lab Sample ID      | Client Sample ID                        | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|---|-----------|--------|----------------|------------|
| 140-27382-3        | T-2055 VEN CB OUTLET R1 OTM-45 IMPINGEF | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27382-7        | T-2048 VEN CB OUTLET R2 OTM-45 IMPINGEF | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27382-11       | T-2041 VEN CB OUTLET R3 OTM-45 IMPINGEF | Total/NA  | Air    | 537 (modified) | 61825      |
| MB 140-61825/1-A   | Method Blank                            | Total/NA  | Air    | 537 (modified) | 61825      |
| LCS 140-61825/2-A  | Lab Control Sample                      | Total/NA  | Air    | 537 (modified) | 61825      |
| LCSD 140-61825/3-A | Lab Control Sample Dup                  | Total/NA  | Air    | 537 (modified) | 61825      |

### Analysis Batch: 61945

| Lab Sample ID | Client Sample ID                         | Prep Type | Matrix | Method         | Prep Batch |
|---------------|--|-----------|--------|----------------|------------|
| 140-27382-10  | T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 | Total/NA  | Air    | 537 (modified) | 61950      |

### Cleanup Batch: 61950

| Lab Sample ID | Client Sample ID                         | Prep Type | Matrix | Method   | Prep Batch |
|---------------|--|-----------|--------|----------|------------|
| 140-27382-10  | T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 | Total/NA  | Air    | Dilution | 61530      |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2059,2058 VEN CB OUTLET R1 OTM-45 FH**

**Lab Sample ID: 140-27382-1**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 68 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 34 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 10 uL          | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 20:21       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2057,2056,2054 VEN CB OUTLET R1 OTM-45 BH**

**Lab Sample ID: 140-27382-2**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 5 uL           | 10000 uL     | 61858        | 05/19/22 16:37       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 21:18       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2055 VEN CB OUTLET R1 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE**

**Lab Sample ID: 140-27382-3**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 0.00625 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 18:27       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2053 VEN CB OUTLET R1 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE**

**Lab Sample ID: 140-27382-4**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 21:27       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2052,2051 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-5**

**FH**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 83 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 42 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 10 uL          | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 20:30       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2050,2049,2047 VEN CB OUTLET R2**

**Lab Sample ID: 140-27382-6**

**OTM-45 BH**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 4 uL           | 10000 uL     | 61858        | 05/19/22 16:37       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 21:36       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2048 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-7**

**IMPINGERS 1,2 & 3 CONDENSATE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 0.00635 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 18:35       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2046 VEN CB OUTLET R2 OTM-45**

**Lab Sample ID: 140-27382-8**

**BREAKTHROUGH XAD-2 RESIN TUBE**

**Date Collected: 05/05/22 00:00**

**Matrix: Air**

**Date Received: 05/06/22 18:55**

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 21:45       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

**Client Sample ID: T-2045,2044 VEN CB OUTLET R3 OTM-45 FH**

**Lab Sample ID: 140-27382-9**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 75 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 38 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 10 uL          | 10000 uL     | 61818        | 05/18/22 18:38       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 20:39       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2043,2042,2040 VEN CB OUTLET R3 OTM-45 BH**

**Lab Sample ID: 140-27382-10**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Dilution       |     |            | 10 uL          | 10000 uL     | 61950        | 05/23/22 11:00       | JRC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61945        | 05/23/22 12:14       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2041 VEN CB OUTLET R3 OTM-45 IMPINGERS 1,2 & 3 CONDENSATE**

**Lab Sample ID: 140-27382-11**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 0.00656 Sample | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 18:44       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2039 VEN CB OUTLET R3 OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE**

**Lab Sample ID: 140-27382-12**

Date Collected: 05/05/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 22:11       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

Eurofins Knoxville

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61479/14-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 21:54       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61479/1-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 19:41       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61492/1-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:28       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61825/1-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:34       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61479/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 19:50       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

Eurofins Knoxville

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61492/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:37       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61825/2-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:43       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61479/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61479        | 05/07/22 12:47       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61530        | 05/10/22 08:58       | CAC     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61857        | 05/19/22 19:59       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61492/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:46       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61825/3-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:51       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Laboratory References:**

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program               | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
|                        | AFCEE                 | N/A                   |                 |
| ANAB                   | Dept. of Defense ELAP | L2311                 | 02-13-25        |
| ANAB                   | Dept. of Energy       | L2311.01              | 02-13-25        |
| ANAB                   | ISO/IEC 17025         | L2311                 | 02-13-25        |
| Arkansas DEQ           | State                 | 88-0688               | 06-17-22        |
| California             | State                 | 2423                  | 06-30-22        |
| Colorado               | State                 | TN00009               | 02-28-23        |
| Connecticut            | State                 | PH-0223               | 09-30-23        |
| Florida                | NELAP                 | E87177                | 06-30-22        |
| Georgia (DW)           | State                 | 906                   | 12-11-22        |
| Hawaii                 | State                 | NA                    | 12-11-22        |
| Kansas                 | NELAP                 | E-10349               | 10-31-22        |
| Kentucky (DW)          | State                 | 90101                 | 12-31-22        |
| Louisiana              | NELAP                 | 83979                 | 06-30-22        |
| Louisiana (DW)         | State                 | LA019                 | 12-31-22        |
| Maryland               | State                 | 277                   | 03-31-23        |
| Michigan               | State                 | 9933                  | 12-11-22        |
| Nevada                 | State                 | TN00009               | 07-31-22        |
| New Hampshire          | NELAP                 | 299919                | 01-17-23        |
| New Jersey             | NELAP                 | TN001                 | 06-30-22        |
| New York               | NELAP                 | 10781                 | 03-31-23        |
| North Carolina (DW)    | State                 | 21705                 | 07-31-22        |
| North Carolina (WW/SW) | State                 | 64                    | 12-31-22        |
| Ohio VAP               | State                 | CL0059                | 06-02-23        |
| Oklahoma               | State                 | 9415                  | 08-31-22        |
| Oregon                 | NELAP                 | TNI0189               | 12-31-22        |
| Pennsylvania           | NELAP                 | 68-00576              | 12-31-22        |
| Tennessee              | State                 | 02014                 | 12-11-22        |
| Texas                  | NELAP                 | T104704380-18-12      | 08-31-22        |
| US Fish & Wildlife     | US Federal Programs   | 058448                | 07-31-22        |
| USDA                   | US Federal Programs   | P330-19-00236         | 08-20-22        |
| Utah                   | NELAP                 | TN00009               | 07-31-22        |
| Virginia               | NELAP                 | 460176                | 09-14-22        |
| Washington             | State                 | C593                  | 01-19-23        |
| West Virginia (DW)     | State                 | 9955C                 | 12-31-22        |
| West Virginia DEP      | State                 | 345                   | 04-30-23        |
| Wisconsin              | State                 | 998044300             | 08-31-22        |

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

| Method         | Method Description                         | Protocol | Laboratory |
|----------------|--|----------|------------|
| 537 (modified) | Fluorinated Alkyl Substances               | EPA      | TAL KNX    |
| Dilution       | Dilution and Re-fortification of Standards | None     | TAL KNX    |
| None           | Leaching Procedure                         | TAL SOP  | TAL KNX    |
| None           | Leaching Procedure for Filter              | TAL SOP  | TAL KNX    |
| PFAS Prep      | Preparation, Direct Inject PFAS            | TAL-SAC  | TAL KNX    |
| Split          | Source Air Split                           | None     | TAL KNX    |

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

TAL-SAC = Eurofins Sacramento, Facility Standard Operating Procedure.

#### Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN CB Outlet

Job ID: 140-27382-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|---|--------|----------------|----------------|
| 140-27382-1   | T-2059,2058 VEN CB OUTLET R1 OTM-45 FH                          | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-2   | T-2057,2056,2054 VEN CB OUTLET R1<br>OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-3   | T-2055 VEN CB OUTLET R1 OTM-45<br>IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-4   | T-2053 VEN CB OUTLET R1 OTM-45<br>BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-5   | T-2052,2051 VEN CB OUTLET R2 OTM-45 FH                          | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-6   | T-2050,2049,2047 VEN CB OUTLET R2<br>OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-7   | T-2048 VEN CB OUTLET R2 OTM-45<br>IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-8   | T-2046 VEN CB OUTLET R2 OTM-45<br>BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-9   | T-2045,2044 VEN CB OUTLET R3 OTM-45 FH                          | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-10  | T-2043,2042,2040 VEN CB OUTLET R3<br>OTM-45 BH                  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-11  | T-2041 VEN CB OUTLET R3 OTM-45<br>IMPINGERS 1,2 & 3 CONDENSATE  | Air    | 05/05/22 00:00 | 05/06/22 18:55 |
| 140-27382-12  | T-2039 VEN CB OUTLET R3 OTM-45<br>BREAKTHROUGH XAD-2 RESIN TUBE | Air    | 05/05/22 00:00 | 05/06/22 18:55 |



**Request for Analysis/Chain-of-Custody – RFA/COC #002**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed OUTLET Testing**



Environment Testing  
 TestAmerica

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|                                |  |
|--------------------------------|--|
| <b>Project Identification:</b> | <b>Chemours Emissions Test</b>   |
| Client Name:                   | The Chemours Company FC, LLC   |
| Client Contact:                | Ms. Christel Compton<br>Office: (910) 678-1213<br>Cell: (910) 975-3386 |
| TestAmerica Project Manager:   | Ms. Courtney Adkins<br>Office: (865) 291-3019                          |
| TestAmerica Program Manager:   | Mr. Billy Anderson<br>Office: (865) 291-3080<br>Cell: (865) 206-9004   |

|  |                          |
|--|--------------------------|
| <b>Laboratory Deliverable Turnaround Requirements:</b>         |                          |
| Analytical Due Date:<br>(Review-Released Data)                 | 21 Days from Lab Receipt |
| Data Package Due Date:   | 28 Days from Lab Receipt |
| <b>Laboratory Destination:</b>                                 |                          |
| Eurofins TestAmerica<br>5815 Middlebrook Pike<br>Knoxville, TN |                          |
| <b>Lab Phone Number:</b>                                       | (865) 291-3000           |
| <b>Courier:</b>  | FedEx or Hand Delivery   |

**Analytical Testing QC Requirements:**  
 The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "BT" = Blank Train, "RB" = Reagent Blank, "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, "PB" = Proof Blank, "TB" = Trip Blank

**Project Deliverables:**  
 Report analytical results on TALS Report form Std\_Tal\_L4. Include "Field Sample Number" Reports.



ALS

|                              |  |
|------------------------------|--|
| <b>Analytical Parameter:</b> | <b>Holding Time Requirements:</b>          |
| HFPO-DA (CAS No. 13252-13-6) | 14 Days to Extraction; 40 Days to Analysis |

140-27382 Chain of Custody

| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis   | Analytical Specifications   |
|--|---------|------------------------|-------------------------|-------------------------------|--|---|
| T-2059 VEN CB OUTLET R1 OTM-45 Filter<br><br>(Combine with T-2058)                                     | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Particulate Filter (82.6 mm Whatman Glass Microfiber)<br><br>OTM-45 Train<br><br>HFPO-DA Analysis                    | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.                                       |
| T-2058 VEN CB OUTLET R1 OTM-45 FH of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2059) | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Front Half of Filter Holder & Probe Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.   |
| T-2057 VEN CB OUTLET R1 OTM-45 XAD-2 Resin Tube  | 1       | 5/5/22                 |                         | XAD-2 Resin Tube              | XAD-2 Resin Tube<br><br>OTM-45 Train<br><br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Back-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO. |



Request for Analysis/Chain-of-Custody – RFA/COC #002  
 The Chemours Company – Fayetteville NC  
 VEN Carbon Bed OUTLET Testing



| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis   | Analytical Specifications   |
|---|---------|------------------------|-------------------------|-------------------------------|--|---|
| T-2056 VEN CB OULTET R1 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2057) | 1       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Back Half of Filter Holder & Coil Condenser Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |
| T-2055 VEN CB OULTET R1 OTM-45 Impingers 1,2 & 3 Condensate   | 1       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | Impinger #1, #2 & #3 Condensate<br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.   |
| T-2054 VEN CB OULTET R1 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2057)                       | 1       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis                          | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.  |
| T-2053 VEN CB OULTET R1 OTM-45 Breakthrough XAD-2 Resin Tube  | 1       | 5/5/22                 |                         | XAD-2 Resin Tube              | Breakthrough XAD-2 Resin Tube<br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |
| T-2052 VEN CB OULTET R2 OTM-45 Filter<br><br>(Combine with T-2051)  | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Particulate Filter (82.6 mm Whatman Glass Microfiber)<br><br>OTM-45 Train<br><br>HFPO-DA Analysis                            | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO. |
| T-2051 VEN CB OULTET R2 OTM-45 Front Half of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2052)  | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Front Half of Filter Holder & Probe Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Train<br><br>HFPO-DA Analysis         | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.   |



**Request for Analysis/Chain-of-Custody – RFA/COC #002**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed OUTLET Testing**



Environment Testing  
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| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis   | Analytical Specifications   |
|---|---------|------------------------|-------------------------|-------------------------------|--|---|
| T-2050 VEN CB OULTET R2 OTM-45 XAD-2 Resin Tube   | 2       | 5/5/22                 |                         | XAD-2 Resin Tube              | XAD-2 Resin Tube<br>OTM-45 Train<br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Back-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO. |
| T-2049 VEN CB OULTET R2 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2050) | 2       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Back Half of Filter Holder & Coil Condenser Methanol/5% Ammonium Hydroxide Rinse<br>OTM-45 Train<br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |
| T-2048 VEN CB OULTET R2 OTM-45 Impingers 1,2 & 3 Condensate   | 2       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | Impinger #1, #2 & #3 Condensate<br>OTM-45 Train<br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.   |
| T-2047 VEN CB OULTET R2 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2050)                       | 2       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse<br>OTM-45 Train<br>HFPO-DA Analysis                          | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.  |
| T-2046 VEN CB OULTET R2 OTM-45 Breakthrough XAD-2 Resin Tube  | 2       | 5/5/22                 |                         | XAD-2 Resin Tube              | Breakthrough XAD-2 Resin Tube<br>OTM-45 Train<br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |
| T-2045 VEN CB OULTET R3 OTM-45 Filter<br><br>(Combine with T-2044)  | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | Particulate Filter (82.6 mm Whatman Glass Microfiber)<br>OTM-45 Train<br>HFPO-DA Analysis                            | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front-Half Probe Rinse to assist the solvent extraction of the Particulate Filter sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.                                       |

**Request for Analysis/Chain-of-Custody – RFA/COC #002**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed OUTLET Testing**



| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container      | Sample Type/Analysis  | Analytical Specifications   |
|---|---------|------------------------|-------------------------|-------------------------------|---|---|
| T-2044 VEN CB OULTET R3 OTM-45 Front Half of Filter Holder & Probe Methanol Rinse<br><br>(Combine with T-2045)  | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Front Half of Filter Holder &amp; Probe Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis         | <b>Knoxville:</b> Use this solvent sample in the Particulate Filter extraction.   |
| T-2043 VEN CB OULTET R3 OTM-45 XAD-2 Resin Tube   | 3       | 5/5/22                 |                         | XAD-2 Resin Tube              | <b>XAD-2 Resin Tube</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis   | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Back-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO. |
| T-2042 VEN CB OULTET R3 OTM-45 BH of Filter Holder & Coil Condenser Methanol Rinse<br><br>(Combine with T-2043) | 3       | 5/5/22                 |                         | 125 mL HDPE Wide-Mouth Bottle | <b>Back Half of Filter Holder &amp; Coil Condenser Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |
| T-2041 VEN CB OULTET R3 OTM-45 Impingers 1,2 & 3 Condensate   | 3       | 5/5/22                 |                         | 500 mL HDPE Wide-Mouth Bottle | <b>Impinger #1, #2 &amp; #3 Condensate</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze the sample for HFPO-DA.   |
| T-2040 VEN CB OULTET R3 OTM-45 Impinger Glassware MeOH Rinse<br><br>(Combine with T-2043)                       | 3       | 5/5/22                 |                         | 250 mL HDPE Wide-Mouth Bottle | <b>Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis                              | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.  |
| T-2039 VEN CB OULTET R3 OTM-45 Breakthrough XAD-2 Resin Tube  | 3       | 5/5/22                 |                         | XAD-2 Resin Tube              | <b>Breakthrough XAD-2 Resin Tube</b><br><br>OTM-45 Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction.<br><br>Analyze for HFPO-DA using Method 8321A-HFPO.  |

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**Sample Receipt Log and Condition of the Samples Upon Receipt:**

Please fill in the following information:

**Comments**

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment. NONE
- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA: RT 26/CT 3.1°C
- (3) Record any apparent sample loss/breakage. NONE
- (4) Record any unidentified samples transported with this shipment of samples: NONE
- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances): HAND DELIVERED, NO CUSTODY SEALS

**Custody Transfer:**

|                  |                                |                            |                                 |
|------------------|--------------------------------|----------------------------|---------------------------------|
| Relinquished By: | <u>Patricia Brady</u><br>Name  | <u>Alliance</u><br>Company | <u>5/5/22/1730</u><br>Date/Time |
| Accepted By:     | <u>Dorey Gill</u><br>Name      | <u>ETA KNOX</u><br>Company | <u>5/5/22 1730</u><br>Date/Time |
| Relinquished By: | <u>Dorey Gill</u><br>Name      | <u>ETA KNOX</u><br>Company | <u>5/6/22 1855</u><br>Date/Time |
| Accepted By:     | <u>Constance Adams</u><br>Name | <u>ETA KY</u><br>Company   | <u>5/6/22 1855</u><br>Date/Time |
| Relinquished By: | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time              |
| Accepted By:     | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time              |
| Relinquished By: | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time              |
| Accepted By:     | _____<br>Name                  | _____<br>Company           | _____<br>Date/Time              |

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

| Review Items   | Yes | No | NA | If No, what was the problem?  | Comments/Actions Taken |
|--|-----|----|----|---|------------------------|
| 1. Are the shipping containers intact?   | /   |    |    | <input type="checkbox"/> Containers, Broken   |                        |
| 2. Were ambient air containers received intact?  |     |    | /  | <input type="checkbox"/> Checked in lab   |                        |
| 3. The coolers/containers custody seal if present, is it intact?   |     |    | /  | <input type="checkbox"/> Yes<br><input type="checkbox"/> NA   |                        |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)<br>Thermometer ID: <u>SC71</u><br>Correction factor: <u>+0.5°C</u> | /   |    |    | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel<br><input type="checkbox"/> Cooler Out of Temp, Same Day Receipt        |                        |
| 5. Were all of the sample containers received intact?  | /   |    |    | <input type="checkbox"/> Containers, Broken   |                        |
| 6. Were samples received in appropriate containers?  | /   |    |    | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel   |                        |
| 7. Do sample container labels match COC? (IDs, Dates, Times)   | /   |    |    | <input type="checkbox"/> COC & Samples Do Not Match<br><input type="checkbox"/> COC Incorrect/Incomplete<br><input type="checkbox"/> COC Not Received |                        |
| 8. Were all of the samples listed on the COC received?   | /   |    |    | <input type="checkbox"/> Sample Received, Not on COC<br><input type="checkbox"/> Sample on COC, Not Received  |                        |
| 9. Is the date/time of sample collection noted?  | /   |    |    | <input type="checkbox"/> COC; No Date/Time; Client Contacted  |                        |
| 10. Was the sampler identified on the COC?   | /   |    | /  | <input type="checkbox"/> Sampler Not Listed on COC  |                        |
| 11. Is the client and project name/# identified?   | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   |                        |
| 12. Are tests/parameters listed for each sample?   | /   |    |    | <input type="checkbox"/> COC No tests on COC  |                        |
| 13. Is the matrix of the samples noted?  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   |                        |
| 14. Was COC relinquished? (Signed/Dated/Timed)   | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete   |                        |
| 15. Were samples received within holding time?   | /   |    |    | <input type="checkbox"/> Holding Time - Receipt   |                        |
| 16. Were samples received with correct chemical preservative (excluding Encore)?   |     |    | /  | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A)<br><input type="checkbox"/> Incorrect Preservative                                    |                        |
| 17. Were VOA samples received without headspace?   |     |    | /  | <input type="checkbox"/> Headspace (VOA only)<br><input type="checkbox"/> Residual Chlorine   |                        |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668)<br>Chlorine test strip lot number: _____   |     |    | /  |   |                        |
| 19. For 1613B water samples is pH<9?   |     |    | /  | <input type="checkbox"/> If no, notify lab to adjust  |                        |
| 20. For rad samples was sample activity info. Provided?  |     |    | /  | <input type="checkbox"/> Project missing info   |                        |
| Project #: _____   |     |    |    |   |                        |
| PM Instructions: _____   |     |    |    |   |                        |
| Sample Receiving Associate: <u><i>R. [Signature]</i></u>   |     |    |    | Date: <u>5-7-22</u>   |                        |

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## ANALYTICAL REPORT

Eurofins Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921  
Tel: (865)291-3000

Laboratory Job ID: 140-27386-1

Client Project/Site: Fayetteville Emissions Test - VEN+Semi  
Works CB QC

**For:**

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, Delaware 19713

Attn: Michael Aucoin



Authorized for release by:  
5/24/2022 2:14:47 PM

Courtney Adkins, Project Manager II  
(865)291-3019  
[Courtney.Adkins@et.eurofinsus.com](mailto:Courtney.Adkins@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
CB QC

Job ID: 140-27386-1

## Qualifiers

### LCMS

| Qualifier | Qualifier Description   |
|-----------|---|
| *5+       | Isotope dilution analyte is outside acceptance limits, high biased. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Case Narrative

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN+Semi Works CB QI

Job ID: 140-27386-1

**Job ID: 140-27386-1**

**Laboratory: Eurofins Knoxville**

## Narrative

### Job Narrative 140-27386-1

#### Receipt

The samples were received on 5/6/2022 6:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

#### LCMS

Methods 537 (modified), Dilution: LC/MS/MS Sampling Train Preparation and Analysis: The sampling train components are extracted and analyzed for Per- and Polyfluorinated Alkyl Substances (PFAS) using Eurofins TestAmerica Knoxville standard operating procedures KNOX-OP-0026 and KNOX-LC-0007.

The sampling trains are prepared as four analytical fractions: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses are combined for one analytical fraction. The XAD-2 resin trap and back half of the filter holder, coil condenser and connecting glassware solvent rinses are also combined as a separate analytical fraction. The condensate, impinger contents and their related glassware DI water rinses make up the third analytical fraction. The breakthrough XAD module makes up the fourth analytical fraction.

The filters and XAD components are spiked with isotope dilution internal standards and the components are extracted with methanol/ammonium hydroxide by shaking for at least 18 hours. The extracts are concentrated to 10 mL and analyzed by HPLC/MS/MS. The condensates are spiked with the isotope dilution internal standards and extracted using either Solid-Phase Extraction (SPE) or diluting the water sample for analysis. Each extract at its final volume is 80:20 methanol:water

Sample results were calculated using the following equation:

Result, ng/sample = (on-column concentration, ng/mL) × (nominal final volume of extract (10 mL) / 1 sample) × DF × SF

Where:

DF = Instrument dilution factor

SF = Extraction Split Factor = (final volume of extract in the initial extraction batch / initial volume of extract in the "Split" batch)

For condensate, if less than the entire sample is extracted, the fraction of sample used replaces "1 sample"

Method 537 (modified): The internal standard (IS) recovery for the following sample; T-1990 VEN CB QC OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE PBT (140-27386-4) was outside QC criteria (low). A low bias of the internal standard may cause the Isotope Dilution Analyte (IDA) analytes to have high recoveries. The IS recovery was confirmed by re-injecting the sample on a different analytical batch.

Method 537 (modified): One or more Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following sample: T-1990 VEN CB QC OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE PBT (140-27386-4). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Client Sample Results

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
CB QC

Job ID: 140-27386-1

**Client Sample ID: T-1996,1995 VEN CB QC OTM-45 FH PBT**

**Lab Sample ID: 140-27386-1**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |           | 0.00500  | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 22:07 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |         |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 89        |           | 25 - 150 |         |           |   | 05/09/22 08:48 | 05/18/22 22:07 | 1       |

**Client Sample ID: T-1994,1993,1991 VEN CB QC OTM-45 BH**

**Lab Sample ID: 140-27386-2**

**PBT**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |           | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/22/22 12:12 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 131       |           | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/22/22 12:12 | 1       |

**Client Sample ID: T-1992 VEN CB QC OTM-45 IMPINGERS 1,2**

**Lab Sample ID: 140-27386-3**

**& 3 CONDENSATE PBT**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL      | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |           | 0.000500 | 0.000200 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 20:12 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |          |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 101       |           | 25 - 150 |          |           |   | 05/20/22 05:00 | 05/20/22 20:12 | 1       |

**Client Sample ID: T-1990 VEN CB QC OTM-45**

**Lab Sample ID: 140-27386-4**

**BREAKTHROUGH XAD-2 RESIN TUBE PBT**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte          | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |           | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 23:01 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 157       | *5+       | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/21/22 23:01 | 1       |

**Client Sample ID: T-1989 VEN CB QC OTM-45 DI WATER RB**

**Lab Sample ID: 140-27386-5**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte | Result | Qualifier | RL       | MDL      | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|----------|----------|-----------|---|----------------|----------------|---------|
| HFPO-DA | ND     |           | 0.000500 | 0.000200 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 20:21 | 1       |

Eurofins Knoxville

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Client Sample ID: T-1989 VEN CB QC OTM-45 DI WATER RB

Lab Sample ID: 140-27386-5

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

| Isotope Dilution         | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <sup>13</sup> C3 HFPO-DA | 109       |           | 25 - 150 | 05/20/22 05:00 | 05/20/22 20:21 | 1       |

## Client Sample ID: T-1988 VEN CB QC OTM-45 MEOH WITH 5% NH4OH RB

Lab Sample ID: 140-27386-6

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

### Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                  | Result    | Qualifier | RL       | MDL            | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|----------------|----------------|---------|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.0200   | 0.0110         | ug/Sample      |         | 05/16/22 13:00 | 05/21/22 23:10 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |         |
| <sup>13</sup> C3 HFPO-DA | 103       |           | 25 - 150 | 05/16/22 13:00 | 05/21/22 23:10 | 1       |                |                |         |

## Client Sample ID: T-1987,1986 VEN CB QC OTM-45 FH BT

Lab Sample ID: 140-27386-7

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

### Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                  | Result    | Qualifier | RL       | MDL            | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|----------------|----------------|---------|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.00500  | 0.00470        | ug/Sample      |         | 05/09/22 08:48 | 05/18/22 22:16 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |         |
| <sup>13</sup> C3 HFPO-DA | 100       |           | 25 - 150 | 05/09/22 08:48 | 05/18/22 22:16 | 1       |                |                |         |

## Client Sample ID: T-1985,1984,1982 VEN CB QC OTM-45 BH BT

Lab Sample ID: 140-27386-8

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

### Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                  | Result    | Qualifier | RL       | MDL            | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|----------------|----------------|---------|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.0200   | 0.0110         | ug/Sample      |         | 05/16/22 13:00 | 05/22/22 12:40 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |         |
| <sup>13</sup> C3 HFPO-DA | 141       |           | 25 - 150 | 05/16/22 13:00 | 05/22/22 12:40 | 1       |                |                |         |

## Client Sample ID: T-1983 VEN CB QC OTM-45 IMPINGERS 1,2 & 3 CONDENSATE BT

Lab Sample ID: 140-27386-9

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

### Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                  | Result    | Qualifier | RL       | MDL            | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|----------------|----------------|---------|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.000500 | 0.000200       | ug/Sample      |         | 05/20/22 05:00 | 05/20/22 20:30 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |         |
| <sup>13</sup> C3 HFPO-DA | 115       |           | 25 - 150 | 05/20/22 05:00 | 05/20/22 20:30 | 1       |                |                |         |

Eurofins Knoxville

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

**Client Sample ID: T-1981 VEN CB QC OTM-45**

**Lab Sample ID: 140-27386-10**

**BREAKTHROUGH XAD-2 RESIN TUBE BT**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 23:27 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 137       |           | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/21/22 23:27 | 1       |

**Client Sample ID: T-2258 MEDIA CHECK FILTER**

**Lab Sample ID: 140-27386-11**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.00500  | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 22:24 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |         |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 110       |           | 25 - 150 |         |           |   | 05/09/22 08:48 | 05/18/22 22:24 | 1       |

**Client Sample ID: T-2259 MEDIA CHECK XAD**

**Lab Sample ID: 140-27386-12**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

Sample Container: Air Train

**Method: 537 (modified) - Fluorinated Alkyl Substances**

| Analyte                  | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA                  | ND        |           | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 23:36 | 1       |
| Isotope Dilution         | %Recovery | Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| <sup>13</sup> C3 HFPO-DA | 115       |           | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/21/22 23:36 | 1       |

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN+Semi Works C

Job ID: 140-27386-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: None

| Analyte | RL      | MDL     | Units     |
|---------|---------|---------|-----------|
| HFPO-DA | 0.00500 | 0.00470 | ug/Sample |
| HFPO-DA | 0.0200  | 0.0110  | ug/Sample |

## Method: 537 (modified) - Fluorinated Alkyl Substances

Prep: PFAS Prep

| Analyte | RL       | MDL      | Units     |
|---------|----------|----------|-----------|
| HFPO-DA | 0.000500 | 0.000200 | ug/Sample |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Air

Prep Type: Total/NA

|                    |  | Percent Isotope Dilution Recovery (Acceptance Limits) |  |  |  |
|--------------------|--|---|--|--|--|
| Lab Sample ID      | Client Sample ID   | HFPODA<br>(25-150)                                    |  |  |  |
| 140-27386-1        | T-1996,1995 VEN CB QC OTM-                                     | 89  |  |  |  |
| 140-27386-2        | T-1994,1993,1991 VEN CB QC<br>OTM-45 BH PBT                    | 131   |  |  |  |
| 140-27386-3        | T-1992 VEN CB QC OTM-45<br>IMPINGERS 1,2 & 3<br>CONDENSATE PBT | 101   |  |  |  |
| 140-27386-4        | T-1990 VEN CB QC OTM-45<br>BREAKTHROUGH XAD-2 RESI<br>TUBE PBT | 157 *5+   |  |  |  |
| 140-27386-5        | T-1989 VEN CB QC OTM-45 DI<br>WATER RB                         | 109   |  |  |  |
| 140-27386-6        | T-1988 VEN CB QC OTM-45<br>MEOH WITH 5% NH4OH RB               | 103   |  |  |  |
| 140-27386-7        | T-1987,1986 VEN CB QC<br>OTM-45 FH BT                          | 100   |  |  |  |
| 140-27386-8        | T-1985,1984,1982 VEN CB QC<br>OTM-45 BH BT                     | 141   |  |  |  |
| 140-27386-9        | T-1983 VEN CB QC OTM-45<br>IMPINGERS 1,2 & 3<br>CONDENSATE BT  | 115   |  |  |  |
| 140-27386-10       | T-1981 VEN CB QC OTM-45<br>BREAKTHROUGH XAD-2 RESI<br>TUBE BT  | 137   |  |  |  |
| 140-27386-11       | T-2258 MEDIA CHECK FILTER                                      | 110   |  |  |  |
| 140-27386-12       | T-2259 MEDIA CHECK XAD   | 115   |  |  |  |
| LCS 140-61492/2-B  | Lab Control Sample   | 90  |  |  |  |
| LCS 140-61728/2-B  | Lab Control Sample   | 90  |  |  |  |
| LCS 140-61825/2-A  | Lab Control Sample   | 102   |  |  |  |
| LCSD 140-61492/3-B | Lab Control Sample Dup   | 90  |  |  |  |
| LCSD 140-61728/3-B | Lab Control Sample Dup   | 101   |  |  |  |
| LCSD 140-61825/3-A | Lab Control Sample Dup   | 110   |  |  |  |
| MB 140-61492/14-B  | Method Blank   | 99  |  |  |  |
| MB 140-61492/1-B   | Method Blank   | 93  |  |  |  |
| MB 140-61728/14-B  | Method Blank   | 103   |  |  |  |
| MB 140-61728/1-B   | Method Blank   | 94  |  |  |  |
| MB 140-61825/14-A  | Method Blank   | 110   |  |  |  |
| MB 140-61825/1-A   | Method Blank   | 107   |  |  |  |

**Surrogate Legend**

HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 140-61492/14-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte          | MB Result | MB Qualifier | RL        | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|--------------|-----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |              | 0.00500   | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 21:40 | 1       |
| Isotope Dilution | %Recovery | MB Qualifier | MB Limits |         |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 99        |              | 25 - 150  |         |           |   | 05/09/22 08:48 | 05/18/22 21:40 | 1       |

**Lab Sample ID: MB 140-61492/1-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte          | MB Result | MB Qualifier | RL        | MDL     | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|--------------|-----------|---------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |              | 0.00500   | 0.00470 | ug/Sample |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |
| Isotope Dilution | %Recovery | MB Qualifier | MB Limits |         |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 93        |              | 25 - 150  |         |           |   | 05/09/22 08:48 | 05/18/22 19:28 | 1       |

**Lab Sample ID: LCS 140-61492/2-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte          | Spike Added | LCS Result    | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|------------------|-------------|---------------|---------------|-----------|---|------|-------------|
| HFPO-DA          | 0.0200      | 0.02261       |               | ug/Sample |   | 113  | 60 - 140    |
| Isotope Dilution | %Recovery   | LCS Qualifier | LCS Limits    |           |   |      |             |
| 13C3 HFPO-DA     | 90          |               | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61492/3-B**  
**Matrix: Air**  
**Analysis Batch: 61817**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61492**

| Analyte          | Spike Added | LCSD Result    | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------|-------------|----------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA          | 0.0200      | 0.02418        |                | ug/Sample |   | 121  | 60 - 140    | 7   | 30        |
| Isotope Dilution | %Recovery   | LCSD Qualifier | LCSD Limits    |           |   |      |             |     |           |
| 13C3 HFPO-DA     | 90          |                | 25 - 150       |           |   |      |             |     |           |

**Lab Sample ID: MB 140-61728/14-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte          | MB Result | MB Qualifier | RL        | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|--------------|-----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND        |              | 0.0200    | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 21:59 | 1       |
| Isotope Dilution | %Recovery | MB Qualifier | MB Limits |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 103       |              | 25 - 150  |        |           |   | 05/16/22 13:00 | 05/21/22 21:59 | 1       |

Eurofins Knoxville

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: MB 140-61728/1-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL    | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|--------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.0200   | 0.0110 | ug/Sample |   | 05/16/22 13:00 | 05/21/22 19:56 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |        |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 94           |              | 25 - 150 |        |           |   | 05/16/22 13:00 | 05/21/22 19:56 | 1       |

**Lab Sample ID: LCS 140-61728/2-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte          | Spike Added   | LCS Result    | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |  |  |
|------------------|---------------|---------------|---------------|-----------|---|------|-------------|--|--|
| HFPO-DA          | 0.0200        | 0.02358       |               | ug/Sample |   | 118  | 60 - 140    |  |  |
| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits        |           |   |      |             |  |  |
| 13C3 HFPO-DA     | 90            |               | 25 - 150      |           |   |      |             |  |  |

**Lab Sample ID: LCSD 140-61728/3-B**  
**Matrix: Air**  
**Analysis Batch: 61914**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61728**

| Analyte          | Spike Added    | LCSD Result    | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------|----------------|----------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA          | 0.0200         | 0.02177        |                | ug/Sample |   | 109  | 60 - 140    | 8   | 30        |
| Isotope Dilution | LCSD %Recovery | LCSD Qualifier | Limits         |           |   |      |             |     |           |
| 13C3 HFPO-DA     | 101            |                | 25 - 150       |           |   |      |             |     |           |

**Lab Sample ID: MB 140-61825/14-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL      | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.000500 | 0.000200 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 19:37 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |          |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 110          |              | 25 - 150 |          |           |   | 05/20/22 05:00 | 05/20/22 19:37 | 1       |

**Lab Sample ID: MB 140-61825/1-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte          | MB Result    | MB Qualifier | RL       | MDL      | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------|-----------|---|----------------|----------------|---------|
| HFPO-DA          | ND           |              | 0.000500 | 0.000200 | ug/Sample |   | 05/20/22 05:00 | 05/20/22 17:34 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |          |           |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA     | 107          |              | 25 - 150 |          |           |   | 05/20/22 05:00 | 05/20/22 17:34 | 1       |

Eurofins Knoxville

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 140-61825/2-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCS Result       | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|-------------------------|------------------|------------------|---------------|-----------|---|------|-------------|
| HFPO-DA                 | 0.0100           | 0.009305         |               | ug/Sample |   | 93   | 60 - 140    |
|                         |                  | <b>LCS</b>       | <b>LCS</b>    |           |   |      |             |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |   |      |             |
| <i>13C3 HFPO-DA</i>     | 102              |                  | 25 - 150      |           |   |      |             |

**Lab Sample ID: LCSD 140-61825/3-A**  
**Matrix: Air**  
**Analysis Batch: 61905**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 61825**

| Analyte                 | Spike Added      | LCSD Result      | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|----------------|-----------|---|------|-------------|-----|-----------|
| HFPO-DA                 | 0.0100           | 0.009893         |                | ug/Sample |   | 99   | 60 - 140    | 6   | 30        |
|                         |                  | <b>LCSD</b>      | <b>LCSD</b>    |           |   |      |             |     |           |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b>  |           |   |      |             |     |           |
| <i>13C3 HFPO-DA</i>     | 110              |                  | 25 - 150       |           |   |      |             |     |           |



# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## LCMS

### Prep Batch: 61492

| Lab Sample ID      | Client Sample ID                    | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-------------------------------------|-----------|--------|--------|------------|
| 140-27386-1        | T-1996,1995 VEN CB QC OTM-45 FH PBT | Total/NA  | Air    | None   |            |
| 140-27386-7        | T-1987,1986 VEN CB QC OTM-45 FH BT  | Total/NA  | Air    | None   |            |
| 140-27386-11       | T-2258 MEDIA CHECK FILTER           | Total/NA  | Air    | None   |            |
| MB 140-61492/14-B  | Method Blank                        | Total/NA  | Air    | None   |            |
| MB 140-61492/1-B   | Method Blank                        | Total/NA  | Air    | None   |            |
| LCS 140-61492/2-B  | Lab Control Sample                  | Total/NA  | Air    | None   |            |
| LCSD 140-61492/3-B | Lab Control Sample Dup              | Total/NA  | Air    | None   |            |

### Cleanup Batch: 61620

| Lab Sample ID      | Client Sample ID                    | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-------------------------------------|-----------|--------|--------|------------|
| 140-27386-1        | T-1996,1995 VEN CB QC OTM-45 FH PBT | Total/NA  | Air    | Split  | 61492      |
| 140-27386-7        | T-1987,1986 VEN CB QC OTM-45 FH BT  | Total/NA  | Air    | Split  | 61492      |
| 140-27386-11       | T-2258 MEDIA CHECK FILTER           | Total/NA  | Air    | Split  | 61492      |
| MB 140-61492/14-B  | Method Blank                        | Total/NA  | Air    | Split  | 61492      |
| MB 140-61492/1-B   | Method Blank                        | Total/NA  | Air    | Split  | 61492      |
| LCS 140-61492/2-B  | Lab Control Sample                  | Total/NA  | Air    | Split  | 61492      |
| LCSD 140-61492/3-B | Lab Control Sample Dup              | Total/NA  | Air    | Split  | 61492      |

### Prep Batch: 61728

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27386-2        | T-1994,1993,1991 VEN CB QC OTM-45 BH PBT | Total/NA  | Air    | None   |            |
| 140-27386-4        | T-1990 VEN CB QC OTM-45 BREAKTHROUGH     | Total/NA  | Air    | None   |            |
| 140-27386-6        | T-1988 VEN CB QC OTM-45 MEOH WITH 5% N   | Total/NA  | Air    | None   |            |
| 140-27386-8        | T-1985,1984,1982 VEN CB QC OTM-45 BH BT  | Total/NA  | Air    | None   |            |
| 140-27386-10       | T-1981 VEN CB QC OTM-45 BREAKTHROUGH     | Total/NA  | Air    | None   |            |
| 140-27386-12       | T-2259 MEDIA CHECK XAD                   | Total/NA  | Air    | None   |            |
| MB 140-61728/14-B  | Method Blank                             | Total/NA  | Air    | None   |            |
| MB 140-61728/1-B   | Method Blank                             | Total/NA  | Air    | None   |            |
| LCS 140-61728/2-B  | Lab Control Sample                       | Total/NA  | Air    | None   |            |
| LCSD 140-61728/3-B | Lab Control Sample Dup                   | Total/NA  | Air    | None   |            |

### Cleanup Batch: 61788

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--|-----------|--------|--------|------------|
| 140-27386-2        | T-1994,1993,1991 VEN CB QC OTM-45 BH PBT | Total/NA  | Air    | Split  | 61728      |
| 140-27386-4        | T-1990 VEN CB QC OTM-45 BREAKTHROUGH     | Total/NA  | Air    | Split  | 61728      |
| 140-27386-6        | T-1988 VEN CB QC OTM-45 MEOH WITH 5% N   | Total/NA  | Air    | Split  | 61728      |
| 140-27386-8        | T-1985,1984,1982 VEN CB QC OTM-45 BH BT  | Total/NA  | Air    | Split  | 61728      |
| 140-27386-10       | T-1981 VEN CB QC OTM-45 BREAKTHROUGH     | Total/NA  | Air    | Split  | 61728      |
| 140-27386-12       | T-2259 MEDIA CHECK XAD                   | Total/NA  | Air    | Split  | 61728      |
| MB 140-61728/14-B  | Method Blank                             | Total/NA  | Air    | Split  | 61728      |
| MB 140-61728/1-B   | Method Blank                             | Total/NA  | Air    | Split  | 61728      |
| LCS 140-61728/2-B  | Lab Control Sample                       | Total/NA  | Air    | Split  | 61728      |
| LCSD 140-61728/3-B | Lab Control Sample Dup                   | Total/NA  | Air    | Split  | 61728      |

### Analysis Batch: 61817

| Lab Sample ID     | Client Sample ID                    | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|-------------------------------------|-----------|--------|----------------|------------|
| 140-27386-1       | T-1996,1995 VEN CB QC OTM-45 FH PBT | Total/NA  | Air    | 537 (modified) | 61620      |
| 140-27386-7       | T-1987,1986 VEN CB QC OTM-45 FH BT  | Total/NA  | Air    | 537 (modified) | 61620      |
| 140-27386-11      | T-2258 MEDIA CHECK FILTER           | Total/NA  | Air    | 537 (modified) | 61620      |
| MB 140-61492/14-B | Method Blank                        | Total/NA  | Air    | 537 (modified) | 61620      |

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# QC Association Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## LCMS (Continued)

### Analysis Batch: 61817 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|------------------------|-----------|--------|----------------|------------|
| MB 140-61492/1-B   | Method Blank           | Total/NA  | Air    | 537 (modified) | 61620      |
| LCS 140-61492/2-B  | Lab Control Sample     | Total/NA  | Air    | 537 (modified) | 61620      |
| LCSD 140-61492/3-B | Lab Control Sample Dup | Total/NA  | Air    | 537 (modified) | 61620      |

### Prep Batch: 61825

| Lab Sample ID      | Client Sample ID                        | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|---|-----------|--------|-----------|------------|
| 140-27386-3        | T-1992 VEN CB QC OTM-45 IMPINGERS 1,2 & | Total/NA  | Air    | PFAS Prep |            |
| 140-27386-5        | T-1989 VEN CB QC OTM-45 DI WATER RB     | Total/NA  | Air    | PFAS Prep |            |
| 140-27386-9        | T-1983 VEN CB QC OTM-45 IMPINGERS 1,2 & | Total/NA  | Air    | PFAS Prep |            |
| MB 140-61825/14-A  | Method Blank                            | Total/NA  | Air    | PFAS Prep |            |
| MB 140-61825/1-A   | Method Blank                            | Total/NA  | Air    | PFAS Prep |            |
| LCS 140-61825/2-A  | Lab Control Sample                      | Total/NA  | Air    | PFAS Prep |            |
| LCSD 140-61825/3-A | Lab Control Sample Dup                  | Total/NA  | Air    | PFAS Prep |            |

### Analysis Batch: 61905

| Lab Sample ID      | Client Sample ID                        | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|---|-----------|--------|----------------|------------|
| 140-27386-3        | T-1992 VEN CB QC OTM-45 IMPINGERS 1,2 & | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27386-5        | T-1989 VEN CB QC OTM-45 DI WATER RB     | Total/NA  | Air    | 537 (modified) | 61825      |
| 140-27386-9        | T-1983 VEN CB QC OTM-45 IMPINGERS 1,2 & | Total/NA  | Air    | 537 (modified) | 61825      |
| MB 140-61825/14-A  | Method Blank                            | Total/NA  | Air    | 537 (modified) | 61825      |
| MB 140-61825/1-A   | Method Blank                            | Total/NA  | Air    | 537 (modified) | 61825      |
| LCS 140-61825/2-A  | Lab Control Sample                      | Total/NA  | Air    | 537 (modified) | 61825      |
| LCSD 140-61825/3-A | Lab Control Sample Dup                  | Total/NA  | Air    | 537 (modified) | 61825      |

### Analysis Batch: 61914

| Lab Sample ID      | Client Sample ID                       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--|-----------|--------|----------------|------------|
| 140-27386-4        | T-1990 VEN CB QC OTM-45 BREAKTHROUGH   | Total/NA  | Air    | 537 (modified) | 61788      |
| 140-27386-6        | T-1988 VEN CB QC OTM-45 MEOH WITH 5% N | Total/NA  | Air    | 537 (modified) | 61788      |
| 140-27386-10       | T-1981 VEN CB QC OTM-45 BREAKTHROUGH   | Total/NA  | Air    | 537 (modified) | 61788      |
| 140-27386-12       | T-2259 MEDIA CHECK XAD                 | Total/NA  | Air    | 537 (modified) | 61788      |
| MB 140-61728/14-B  | Method Blank                           | Total/NA  | Air    | 537 (modified) | 61788      |
| MB 140-61728/1-B   | Method Blank                           | Total/NA  | Air    | 537 (modified) | 61788      |
| LCS 140-61728/2-B  | Lab Control Sample                     | Total/NA  | Air    | 537 (modified) | 61788      |
| LCSD 140-61728/3-B | Lab Control Sample Dup                 | Total/NA  | Air    | 537 (modified) | 61788      |

### Analysis Batch: 61919

| Lab Sample ID | Client Sample ID                         | Prep Type | Matrix | Method         | Prep Batch |
|---------------|--|-----------|--------|----------------|------------|
| 140-27386-2   | T-1994,1993,1991 VEN CB QC OTM-45 BH PBT | Total/NA  | Air    | 537 (modified) | 61788      |
| 140-27386-8   | T-1985,1984,1982 VEN CB QC OTM-45 BH BT  | Total/NA  | Air    | 537 (modified) | 61788      |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

**Client Sample ID: T-1996,1995 VEN CB QC OTM-45 FH PBT**

**Lab Sample ID: 140-27386-1**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 66 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 33 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 22:07       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1994,1993,1991 VEN CB QC OTM-45 BH**

**Lab Sample ID: 140-27386-2**

**PBT**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61919        | 05/22/22 12:12       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1992 VEN CB QC OTM-45 IMPINGERS 1,2 & 3 CONDENSATE PBT**

**Lab Sample ID: 140-27386-3**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 20:12       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1990 VEN CB QC OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE PBT**

**Lab Sample ID: 140-27386-4**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 23:01       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1989 VEN CB QC OTM-45 DI WATER RB**

**Lab Sample ID: 140-27386-5**

Date Collected: 05/04/22 00:00

Matrix: Air

Date Received: 05/06/22 18:55

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 20:21       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

**Client Sample ID: T-1988 VEN CB QC OTM-45 MEOH WITH 5% NH4OH RB**

**Lab Sample ID: 140-27386-6**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 23:10       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1987,1986 VEN CB QC OTM-45 FH BT**

**Lab Sample ID: 140-27386-7**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 122 mL       | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 61 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 22:16       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1985,1984,1982 VEN CB QC OTM-45 BH BT**

**Lab Sample ID: 140-27386-8**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61919        | 05/22/22 12:40       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-1983 VEN CB QC OTM-45 IMPINGERS 1,2 & 3 CONDENSATE BT**

**Lab Sample ID: 140-27386-9**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 20:30       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

**Client Sample ID: T-1981 VEN CB QC OTM-45**  
**BREAKTHROUGH XAD-2 RESIN TUBE BT**

**Lab Sample ID: 140-27386-10**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 23:27       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2258 MEDIA CHECK FILTER**

**Lab Sample ID: 140-27386-11**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 22:24       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: T-2259 MEDIA CHECK XAD**

**Lab Sample ID: 140-27386-12**

Date Collected: 05/04/22 00:00  
 Date Received: 05/06/22 18:55

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 23:36       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 140-61492/14-B**

Date Collected: N/A  
 Date Received: N/A

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 21:40       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 140-61492/1-B**

Date Collected: N/A  
 Date Received: N/A

Matrix: Air

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:28       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

Eurofins Knoxville

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61728/14-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 21:59       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61728/1-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 19:56       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61825/14-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 19:37       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-61825/1-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:34       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61492/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:37       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

Eurofins Knoxville



# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61728/2-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:05       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-61825/2-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:43       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61492/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 50 mL        | 61492        | 05/09/22 08:48       | CAC     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 25 mL          | 10 mL        | 61620        | 05/12/22 13:53       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61817        | 05/18/22 19:46       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61728/3-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | None           |     |            | 1 Sample       | 360 mL       | 61728        | 05/16/22 13:00       | DWS     | TAL KNX |
| Total/NA           | Cleanup    | Split          |     |            | 180 mL         | 10 mL        | 61788        | 05/18/22 09:44       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61914        | 05/21/22 20:13       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-61825/3-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type          | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA           | Prep       | PFAS Prep      |     |            | 1 Sample       | 10 mL        | 61825        | 05/20/22 05:00       | DWS     | TAL KNX |
| Total/NA           | Analysis   | 537 (modified) |     | 1          |                |              | 61905        | 05/20/22 17:51       | JRC     | TAL KNX |
| Instrument ID: LCA |            |                |     |            |                |              |              |                      |         |         |

**Laboratory References:**

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Eurofins Knoxville

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program               | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
|                        | AFCEE                 | N/A                   |                 |
| ANAB                   | Dept. of Defense ELAP | L2311                 | 02-13-25        |
| ANAB                   | Dept. of Energy       | L2311.01              | 02-13-25        |
| ANAB                   | ISO/IEC 17025         | L2311                 | 02-13-25        |
| Arkansas DEQ           | State                 | 88-0688               | 06-17-22        |
| California             | State                 | 2423                  | 06-30-22        |
| Colorado               | State                 | TN00009               | 02-28-23        |
| Connecticut            | State                 | PH-0223               | 09-30-23        |
| Florida                | NELAP                 | E87177                | 06-30-22        |
| Georgia (DW)           | State                 | 906                   | 12-11-22        |
| Hawaii                 | State                 | NA                    | 12-11-22        |
| Kansas                 | NELAP                 | E-10349               | 10-31-22        |
| Kentucky (DW)          | State                 | 90101                 | 12-31-22        |
| Louisiana              | NELAP                 | 83979                 | 06-30-22        |
| Louisiana (DW)         | State                 | LA019                 | 12-31-22        |
| Maryland               | State                 | 277                   | 03-31-23        |
| Michigan               | State                 | 9933                  | 12-11-22        |
| Nevada                 | State                 | TN00009               | 07-31-22        |
| New Hampshire          | NELAP                 | 299919                | 01-17-23        |
| New Jersey             | NELAP                 | TN001                 | 06-30-22        |
| New York               | NELAP                 | 10781                 | 03-31-23        |
| North Carolina (DW)    | State                 | 21705                 | 07-31-22        |
| North Carolina (WW/SW) | State                 | 64                    | 12-31-22        |
| Ohio VAP               | State                 | CL0059                | 06-02-23        |
| Oklahoma               | State                 | 9415                  | 08-31-22        |
| Oregon                 | NELAP                 | TNI0189               | 12-31-22        |
| Pennsylvania           | NELAP                 | 68-00576              | 12-31-22        |
| Tennessee              | State                 | 02014                 | 12-11-22        |
| Texas                  | NELAP                 | T104704380-18-12      | 08-31-22        |
| US Fish & Wildlife     | US Federal Programs   | 058448                | 07-31-22        |
| USDA                   | US Federal Programs   | P330-19-00236         | 08-20-22        |
| Utah                   | NELAP                 | TN00009               | 07-31-22        |
| Virginia               | NELAP                 | 460176                | 09-14-22        |
| Washington             | State                 | C593                  | 01-19-23        |
| West Virginia (DW)     | State                 | 9955C                 | 12-31-22        |
| West Virginia DEP      | State                 | 345                   | 04-30-23        |
| Wisconsin              | State                 | 998044300             | 08-31-22        |



# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
CB QC

Job ID: 140-27386-1

| Method         | Method Description              | Protocol | Laboratory |
|----------------|---------------------------------|----------|------------|
| 537 (modified) | Fluorinated Alkyl Substances    | EPA      | TAL KNX    |
| None           | Leaching Procedure              | TAL SOP  | TAL KNX    |
| None           | Leaching Procedure for Filter   | TAL SOP  | TAL KNX    |
| PFAS Prep      | Preparation, Direct Inject PFAS | TAL-SAC  | TAL KNX    |
| Split          | Source Air Split                | None     | TAL KNX    |

#### Protocol References:

- EPA = US Environmental Protection Agency
- None = None
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure
- TAL-SAC = Eurofins Sacramento, Facility Standard Operating Procedure.

#### Laboratory References:

- TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Sample Summary

Client: The Chemours Company FC, LLC  
 Project/Site: Fayetteville Emissions Test - VEN+Semi Works  
 CB QC

Job ID: 140-27386-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|---|--------|----------------|----------------|
| 140-27386-1   | T-1996,1995 VEN CB QC OTM-45 FH PBT                       | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-2   | T-1994,1993,1991 VEN CB QC OTM-45 BH PBT                  | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-3   | T-1992 VEN CB QC OTM-45 IMPINGERS 1,2 & 3 CONDENSATE PBT  | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-4   | T-1990 VEN CB QC OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE PBT | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-5   | T-1989 VEN CB QC OTM-45 DI WATER RB                       | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-6   | T-1988 VEN CB QC OTM-45 MEOH WITH 5% NH4OH RB             | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-7   | T-1987,1986 VEN CB QC OTM-45 FH BT                        | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-8   | T-1985,1984,1982 VEN CB QC OTM-45 BH BT                   | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-9   | T-1983 VEN CB QC OTM-45 IMPINGERS 1,2 & 3 CONDENSATE BT   | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-10  | T-1981 VEN CB QC OTM-45 BREAKTHROUGH XAD-2 RESIN TUBE BT  | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-11  | T-2258 MEDIA CHECK FILTER                                 | Air    | 05/04/22 00:00 | 05/06/22 18:55 |
| 140-27386-12  | T-2259 MEDIA CHECK XAD                                    | Air    | 05/04/22 00:00 | 05/06/22 18:55 |



**Request for Analysis/Chain-of-Custody – RFA/COC #005**  
**The Chemours Company – Fayetteville NC**  
**VEN Carbon Bed Field QC Samples**



Environment Testing  
America

|                                |  |
|--------------------------------|--|
| <b>Project Identification:</b> | <b>Chemours Emissions Test</b>                                     |
| Client Name:                   | The Chemours Company FC, LLC                                       |
| Client Contact:                | Christel Compton<br>Office: (910) 678-1213<br>Cell: (910) 975-3386 |
| TestAmerica Project Manager:   | Courtney Adkins<br>Office: (865) 291-3019                          |
| TestAmerica Program Manager:   | Billy Anderson<br>Office: (865) 291-3080<br>Cell: (865) 206-9004   |

**Analytical Testing QC Requirements:**  
 The Legend for ProjecB- Specific Quality Control Testing is designated in the "QC" column as follows: "BT" = Blank Train, "RB" = Reagent Blank, "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, "PB" = Proof Blank, "TB" = Trip Blank

**Project Deliverables:**  
 Report analytical results on TALS Report form Std\_Tal\_L4. Include "Field Sample Number", "Sample Type", and "Run Number" on all TALS Reports.

|  |  |
|--|--|
| <b>Analytical Parameter:</b>                           | <b>Holding Time Requirements:</b>          |
| HFPO-DA (CAS No. 13252-13-6) & PFOA (CAS No. 335-67-1) | 14 Days to Extraction; 40 Days to Analysis |



140-27386 Chain of Custody

| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container             | Sample Type/Analysis  | Analytical Specifications   |
|--|---------|------------------------|-------------------------|--------------------------------------|---|---|
| T-1996 VEN CB<br>QC OTM-45<br>Particulate Filter<br>PBT<br><br>(Combine with<br>T-1995)                        | QC      | 5/4/22                 | Proof<br>Blank<br>Train | 250 mL<br>HDPE Wide-<br>Mouth Bottle | Particulate Filter<br>(82.6 mm Whatman<br>Glass Microfiber)<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis                          | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front- Half Probe Rinse to assist the solvent extraction of the Filter sample. Analyze for HFPO-DA. |
| T-1995 VEN CB<br>QC OTM-45 FH of<br>Filter Holder &<br>Probe MeOH Rinse<br>PBT<br><br>(Combine with<br>T-2308) | QC      | 5/4/22                 | Proof<br>Blank<br>Train | 250 mL<br>HDPE Wide-<br>Mouth Bottle | Front Half of Filter<br>Holder & Probe<br>Methanol/5%<br>Ammonium Hydroxide<br>Rinse<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample in the Filter extraction.   |

Rec @ 3.30c

| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container             | Sample Type/Analysis   | Analytical Specifications  |
|---|---------|------------------------|-------------------------|--------------------------------------|--|--|
| T-1994 VEN CB<br>QC OTM-45 XAD-2<br>Resin Tube PBT  | QC      | 5/4/22                 | Proof<br>Blank<br>Train | XAD-2 Resin<br>Tube                  | XAD-2 Resin Tube<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Back-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample. Analyze for HFPO-DA. |
| T-1993 VEN CB<br>QC OTM-45 BH of<br>Filter Holder & Coil<br>Condenser MeOH<br>Rinse PBT<br><br>(Combine with<br>T-1994) | QC      | 5/4/22                 | Proof<br>Blank<br>Train | 250 mL<br>HDPE Wide-<br>Mouth Bottle | Back Half of Filter<br>Holder & Coil<br>Condenser<br>Methanol/5%<br>Ammonium Hydroxide<br>Rinse<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction. Analyze for HFPO-DA.  |
| T-1992 VEN CB<br>QC OTM-45<br>Impingers 1,2 & 3<br>Condensate PBT   | QC      | 5/4/22                 | Proof<br>Blank<br>Train | 1 Liter HDPE<br>Wide-Mouth<br>Bottle | Impinger #1, #2 & #3<br>Condensate<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze for HFPO-DA.   |
| T-1991 VEN CB<br>QC OTM-45<br>Impinger Glassware<br>MeOH Rinse PBT<br><br>(Combine with<br>T-1994)                      | QC      | 5/4/22                 | Proof<br>Blank<br>Train | 250 mL<br>HDPE Wide-<br>Mouth Bottle | Impinger Glassware<br>Methanol/5%<br>Ammonium Hydroxide<br>Rinse<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis                                | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.   |
| T-1990 VEN CB<br>QC OTM-45<br>Breakthrough XAD-<br>2 Resin Tube PBT   | QC      | 5/4/22                 | Proof<br>Blank<br>Train | XAD-2 Resin<br>Tube                  | Breakthrough XAD-2<br>Resin Tube<br><br>OTM-45 Proof Blank<br>Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction. Analyze for HFPO-DA.  |

| Field Sample No./Sample Coding ID   | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container         | Sample Type/Analysis   | Analytical Specifications   |
|---|---------|------------------------|-------------------------|----------------------------------|--|---|
| T-1989 VEN CB<br>QC OTM-45 DI<br>Water RB   | QC      | 5/4/22                 | Reagent Blank           | 250 mL<br>HDPE Wide-Mouth Bottle | Deionized (DI) Water<br>Reagent Blank<br><br>OTM-45 Reagent Blank<br><br>HFPO-DA Analysis  | <u>Knoxville</u> : Analyze for HFPO-DA.   |
| T-1988 VEN CB<br>QC OTM-45 MeOH<br>with 5% NH <sub>4</sub> OH RB  | QC      | 5/4/22                 | Reagent Blank           | 250 mL<br>HDPE Wide-Mouth Bottle | Methanol with 5%<br>NH <sub>4</sub> OH Reagent Blank<br><br>OTM-45 Reagent Blank<br><br>HFPO-DA Analysis                                     | <u>Knoxville</u> : Analyze for HFPO-DA.   |
| T-1987 VEN CB<br>QC OTM-45<br>Particulate Filter BT<br><br>(Combine with<br>T-1986)                           | QC      | 5/4/22                 | Field Blank Train       | 250 mL<br>HDPE Wide-Mouth Bottle | Particulate Filter<br>(82.6 mm Whatman<br>Glass Microfiber)<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis                          | <u>Knoxville</u> : Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Front- Half Probe Rinse to assist the solvent extraction of the Filter sample. Analyze for HFPO-DA.  |
| T-1986 VEN CB<br>QC OTM-45 FH of<br>Filter Holder &<br>Probe MeOH Rinse<br>BT<br><br>(Combine with<br>T-1987) | QC      | 5/4/22                 | Field Blank Train       | 250 mL<br>HDPE Wide-Mouth Bottle | Front Half of Filter<br>Holder & Probe<br>Methanol/5%<br>Ammonium Hydroxide<br>Rinse<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis | <u>Knoxville</u> : Use this solvent sample in the Filter extraction.  |
| T-1985 VEN CB<br>QC OTM-45 XAD-2<br>Resin Tube BT   | QC      | 5/4/22                 | Field Blank Train       | XAD-2 Resin<br>Tube              | XAD-2 Resin Tube<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis   | <u>Knoxville</u> : Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level. Use the Back-Half Glassware Rinse and the Impinger Glassware Methanol Rinse to assist the solvent extraction of the XAD-2 resin sample. Analyze for HFPO-DA. |



| Field Sample No./Sample Coding ID  | Run No. | Sample Collection Date | Project QC Requirements | Sample Bottle/ Container       | Sample Type/Analysis   | Analytical Specifications   |
|--|---------|------------------------|-------------------------|--------------------------------|--|---|
| T-1984 VEN CB<br>QC OTM-45 BH of Filter Holder & Coil Condenser MeOH Rinse BT<br><br>(Combine with T-1985) | QC      | 5/4/22                 | Field Blank Train       | 250 mL HDPE Wide-Mouth Bottle  | Back Half of Filter Holder & Coil Condenser Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis | <b>Knoxville:</b> Use this solvent sample and the Impinger Glassware Methanol Rinse in the XAD-2 Resin extraction. Analyze for HFPO-DA.                                     |
| T-1983 VEN CB<br>QC OTM-45 Impingers 1,2 & 3 Condensate BT   | QC      | 5/4/22                 | Field Blank Train       | 1 Liter HDPE Wide-Mouth Bottle | Impinger #1, #2 & #3 Condensate<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Analyze for HFPO-DA.  |
| T-1982 VEN CB<br>QC OTM-45 Impinger Glassware MeOH Rinse BT<br><br>(Combine with T-1985)                   | QC      | 5/4/22                 | Field Blank Train       | 250 mL HDPE Wide-Mouth Bottle  | Impinger Glassware Methanol/5% Ammonium Hydroxide Rinse<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis                          | <b>Knoxville:</b> Use this solvent sample in the XAD-2 Resin Extraction.  |
| T-1981 VEN CB<br>QC OTM-45 Breakthrough XAD-2 Resin Tube BT  | QC      | 5/4/22                 | Field Blank Train       | XAD-2 Resin Tube               | Breakthrough XAD-2 Resin Tube<br><br>OTM-45 Field Blank Train<br><br>HFPO-DA Analysis  | <b>Knoxville:</b> Spike sample with the Isotope Dilution Internal Standard (IDIS) at the regular level and perform the regular XAD-2 Resin Extraction. Analyze for HFPO-DA. |

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### Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

NONE

(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

Rec @ 3.3°C 3.8°C

(3) Record any aQ2rent sample loss/breakage.

NONE

(4) Record any unidentified samples transported with this shipment of samples:

NONE

(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

HAND DELIVERED, NO CUSTODY SEALS

### Custody Transfer:

Relinquished By:

Ruben May  
Name

Alliance  
Company

5/5/22 1730  
Date/Time

Accepted By:

Doug Gill  
Name

ETA KNOX  
Company

5/5/22 1730  
Date/Time

Relinquished By:

Doug Gill  
Name

ETA KNOX  
Company

5/6/22 1855  
Date/Time

Accepted By:

Summer Alder  
Name

ETA Ky  
Company

5/6/22 18:55  
Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

| Review Items  | Yes | No | NA | If No, what was the problem?   | Comments/Actions Taken |
|---|-----|----|----|--|------------------------|
| 1. Are the shipping containers intact?  | /   |    |    | <input type="checkbox"/> Containers, Broken  |                        |
| 2. Were ambient air containers received intact?   |     | /  |    | <input type="checkbox"/> Checked in lab  |                        |
| 3. The coolers/containers custody seal if present, is it intact?  |     | /  |    | <input type="checkbox"/> Yes<br><input type="checkbox"/> NA  |                        |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)<br>Thermometer ID : <u>5671</u><br>Correction factor: <u>+0.5°C</u> | /   |    |    | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel<br><input type="checkbox"/> Cooler Out of Temp, Same Day Receipt                               |                        |
| 5. Were all of the sample containers received intact?   | /   |    |    | <input type="checkbox"/> Containers, Broken  |                        |
| 6. Were samples received in appropriate containers?   | /   |    |    | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel  |                        |
| 7. Do sample container labels match COC? (IDs, Dates, Times)  | /   |    |    | <input type="checkbox"/> COC & Samples Do Not Match<br><input type="checkbox"/> COC Incorrect/Incomplete<br><input type="checkbox"/> COC Not Received                        |                        |
| 8. Were all of the samples listed on the COC received?  | /   |    |    | <input type="checkbox"/> Sample Received, Not on COC<br><input type="checkbox"/> Sample on COC, Not Received<br><input type="checkbox"/> COC; No Date/Time; Client Contacted |                        |
| 9. Is the date/time of sample collection noted?   | /   |    |    | <input type="checkbox"/> Sampler Not Listed on COC   |                        |
| 10. Was the sampler identified on the COC?  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete  |                        |
| 11. Is the client and project name/# identified?  | /   |    |    | <input type="checkbox"/> COC No tests on COC   |                        |
| 12. Are tests/parameters listed for each sample?  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete  |                        |
| 13. Is the matrix of the samples noted?   | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete  |                        |
| 14. Was COC relinquished? (Signed/Dated/Timed)  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete  |                        |
| 15. Were samples received within holding time?  | /   |    |    | <input type="checkbox"/> Holding Time - Receipt  |                        |
| 16. Were samples received with correct chemical preservative (excluding Encore)?  | /   |    |    | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A)<br><input type="checkbox"/> Incorrect Preservative   |                        |
| 17. Were VOA samples received without headspace?  | /   |    |    | <input type="checkbox"/> Headspace (VOA only)<br><input type="checkbox"/> Residual Chlorine  |                        |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668)<br>Chlorine test strip lot number:  | /   |    |    |  |                        |
| 19. For 1613B water samples is pH<9?  | /   |    |    | <input type="checkbox"/> If no, notify lab to adjust   |                        |
| 20. For rad samples was sample activity info. Provided?   | /   |    |    | <input type="checkbox"/> Project missing info  |                        |
| Project #:  |     |    |    | PM Instructions:   |                        |

Labeling Verified by: \_\_\_\_\_ Date: \_\_\_\_\_

pH test strip lot number: \_\_\_\_\_

|                          |                            |
|--------------------------|----------------------------|
| Box 16A: pH Preservation | Box 18A: Residual Chlorine |
| Preservative:            |                            |
| Lot Number:              |                            |
| Exp Date:                |                            |
| Analyst:                 |                            |
| Date:                    |                            |
| Time:                    |                            |

Sample Receiving Associate: [Signature] Date: 5-7-22

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## Appendix D

**Location** Chemours Company - Fayetteville Works Facility, NC

**Source** VEN Carbon Bed Inlet

**Project No.** 2022-1651-001

| Analysis Type | Assumed Ambient |
|---------------|-----------------|
|---------------|-----------------|

*The remaining constituent is assumed to be nitrogen.*

**Location** Chemours Company - Fayetteville Works Facility, NC

**Source** VEN Carbon Bed Outlet

**Project No.** 2022-1651-001

| Analysis Type | Assumed Ambient |
|---------------|-----------------|
|---------------|-----------------|


*The remaining constituent is assumed to be nitrogen.*

Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Inlet  
 Project No. 2022-1651-001  
 Parameter HFPO-DA

| Date                   | Nozzle ID                | Nozzle Diameter (in.)        |                            |                                 | Dn (Average)             | Difference   | Criteria    | Material |
|------------------------|--------------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
|                        |                          | #1                           | #2                         | #3                              |                          |              |             |          |
| 5/5/22                 | G-2                      | 0.250                        | 0.251                      | 0.250                           | 0.250                    | 0.001        | ≤ 0.004 in. | glass    |
| Date                   | Pitot ID                 | Evidence of damage?          | Evidence of mis-alignment? | Calibration or Repair required? |                          |              |             |          |
| 5/5/22                 | P4-3                     | no                           | no                         | no                              |                          |              |             |          |
| Date                   | Probe or Thermocouple ID | Reference Temp. (°F)         | Indicated Temp. (°F)       | Difference                      | Criteria                 | Probe Length |             |          |
| 5/5/22                 | P4-3                     | 68.0                         | 68.0                       | 0.0%                            | ± 1.5 % (absolute)       | 5'           |             |          |
| Field Balance Check    |                          |                              |                            |                                 |                          |              |             |          |
| Date                   | 05/05/22                 |                              |                            |                                 |                          |              |             |          |
| Balance ID:            | Citizen                  |                              |                            |                                 |                          |              |             |          |
| Test Weight ID:        | Troemner                 |                              |                            |                                 |                          |              |             |          |
| Certified Weight (g):  | 200.0                    |                              |                            |                                 |                          |              |             |          |
| Measured Weight (g):   | 199.8                    |                              |                            |                                 |                          |              |             |          |
| Weight Difference (g): | 0.2                      | --                           | --                         | --                              | --                       | --           |             |          |
| Date                   | Barometric Pressure      | Evidence of damage?          | Reading Verified           | Calibration or Repair required? | Weather Station Location |              |             |          |
| 5/5/22                 | Weather Station          | NA                           | NA                         | NA                              | Fayetteville, NC         |              |             |          |
| Date                   | Meter Box ID             | Positive Pressure Leak Check |                            |                                 |                          |              |             |          |
| 5/5/22                 | 4                        | Pass                         |                            |                                 |                          |              |             |          |
| Reagent                | Lot#                     | Field Prep performed         | Field Lot                  | Date                            | By                       |              |             |          |
| DIH2O                  | TA/Eurofins              | No                           |                            |                                 |                          |              |             |          |
| Methanol/Ammonia Mix   | TA/Eurofins              | No                           |                            |                                 |                          |              |             |          |

Location Chemours Company - Fayetteville Works Facility, NC  
 Source VEN Carbon Bed Outlet  
 Project No. 2022-1651-001  
 Parameter HFPO-DA

| Date                   | Nozzle ID                | Nozzle Diameter (in.)        |                            |                                 | Dn (Average)             | Difference   | Criteria    | Material |
|------------------------|--------------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
|                        |                          | #1                           | #2                         | #3                              |                          |              |             |          |
| 5/5/22                 | G-3                      | 0.250                        | 0.250                      | 0.250                           | 0.250                    | 0.000        | ≤ 0.004 in. | glass    |
| Date                   | Pitot ID                 | Evidence of damage?          | Evidence of mis-alignment? | Calibration or Repair required? |                          |              |             |          |
| 5/5/22                 | P4-1                     | no                           | no                         | no                              |                          |              |             |          |
| Date                   | Probe or Thermocouple ID | Reference Temp. (°F)         | Indicated Temp. (°F)       | Difference                      | Criteria                 | Probe Length |             |          |
| 5/5/22                 | P4-1                     | 68.0                         | 69.0                       | 0.2%                            | ± 1.5 % (absolute)       | 5'           |             |          |
| Field Balance Check    |                          |                              |                            |                                 |                          |              |             |          |
| Date                   | 05/05/22                 |                              |                            |                                 |                          |              |             |          |
| Balance ID:            | Citizen                  |                              |                            |                                 |                          |              |             |          |
| Test Weight ID:        | Troemner                 |                              |                            |                                 |                          |              |             |          |
| Certified Weight (g):  | 200.0                    |                              |                            |                                 |                          |              |             |          |
| Measured Weight (g):   | 199.8                    |                              |                            |                                 |                          |              |             |          |
| Weight Difference (g): | 0.2                      | --                           | --                         | --                              | --                       | --           |             |          |
| Date                   | Barometric Pressure      | Evidence of damage?          | Reading Verified           | Calibration or Repair required? | Weather Station Location |              |             |          |
| 5/5/22                 | Weather Station          | NA                           | NA                         | NA                              | Fayetteville, NC         |              |             |          |
| Date                   | Meter Box ID             | Positive Pressure Leak Check |                            |                                 |                          |              |             |          |
| 5/5/22                 | 14                       | Pass                         |                            |                                 |                          |              |             |          |
| Reagent                | Lot#                     | Field Prep performed         | Field Lot                  | Date                            | By                       |              |             |          |
| DIH2O                  | TA/Eurofins              | No                           |                            |                                 |                          |              |             |          |
| Methanol/Ammonia Mix   | TA/Eurofins              | No                           |                            |                                 |                          |              |             |          |

|   |                                 |                |         |
|---|---------------------------------|----------------|---------|
|  | <b>DGM Calibration-Orifices</b> | Document ID    | 620.004 |
|   |                                 | Revision       | 20.1    |
| Issuing Department  | Tech Services                   | Effective Date | 10/5/20 |
|   |                                 | Page           | 1 of 1  |

**Equipment Detail - Dry Gas Meter**

Console ID: MB-4  
 Meter S/N: 3477777  
 Critical Orifice S/N: 1393

**Calibration Detail**

|  |         |              |         |         |         |         |  |
|--|---------|--------------|---------|---------|---------|---------|--|
| Initial Barometric Pressure, in. Hg (P <sub>b</sub> )                |         | 29.34        |         |         |         |         |  |
| Final Barometric Pressure, in. Hg (P <sub>bF</sub> )                 |         | 29.34        |         |         |         |         |  |
| Average Barometric Pressure, in. Hg (P <sub>b</sub> )                |         | 29.34        |         |         |         |         |  |
| Critical Orifice ID (Y)  | 11      | 11           | 18      | 18      | 31      | 31      |  |
| K' Factor, ft <sup>3</sup> ·R <sup>1/2</sup> / in. WC·min (K')       | 0.3060  | 0.306        | 0.4961  | 0.4961  | 0.8358  | 0.8358  |  |
| Vacuum Pressure, in. Hg (V <sub>P</sub> )                            | 22.5    | 22.5         | 21.0    | 21.0    | 16.0    | 16.0    |  |
| Initial DGM Volume, ft <sup>3</sup> (V <sub>m</sub> )                | 195.748 | 203.773      | 211.802 | 222.185 | 232.573 | 248.926 |  |
| Final DGM Volume, ft <sup>3</sup> (V <sub>mF</sub> )                 | 203.773 | 211.802      | 222.185 | 231.933 | 248.926 | 265.286 |  |
| Total DGM Volume, ft <sup>3</sup> (V <sub>m</sub> )                  | 8.025   | 8.029        | 10.383  | 9.748   | 16.353  | 16.360  |  |
| Ambient Temperature, °F (T <sub>a</sub> )                            | 62      | 61           | 61      | 62      | 62      | 62      |  |
| Initial DGM Temperature, °F (T <sub>m</sub> )                        | 62      | 63           | 64      | 66      | 63      | 64      |  |
| Final DGM Temperature, °F (T <sub>mF</sub> )                         | 63      | 64           | 65      | 66      | 64      | 66      |  |
| Average DGM Temperature, °F (T <sub>m</sub> )                        | 63      | 64           | 65      | 66      | 64      | 65      |  |
| Elapsed Time (Θ)   | 20.00   | 20.00        | 16.00   | 15.00   | 15.00   | 15.00   |  |
| Meter Orifice Pressure, in. WC (ΔH)                                  | 0.44    | 0.44         | 1.20    | 1.20    | 3.60    | 3.60    |  |
| Standard Meter volume, ft <sup>3</sup> (V <sub>mstd</sub> )          | 7.9626  | 7.9513       | 10.2825 | 9.6261  | 16.3229 | 16.2832 |  |
| Standard Critical Orifice Volume, ft <sup>3</sup> (V <sub>cr</sub> ) | 7.8615  | 7.8690       | 10.2061 | 9.5590  | 16.1045 | 16.1045 |  |
| Meter Correction Factor (Y)  | 0.987   | 0.990        | 0.993   | 0.993   | 0.987   | 0.989   |  |
| Tolerance  | --      | 0.002        | 0.003   | 0.003   | 0.003   | 0.001   |  |
| Orifice Calibration Value (ΔH @)                                     | 1.589   | 1.583        | 1.643   | 1.641   | 1.754   | 1.749   |  |
| Tolerance  | --      | 0.070        | 0.076   | 0.017   | 0.019   | 0.094   |  |
| Orifice Cal Check  | --      | 0.44         |         | 0.50    |         | 0.50    |  |
| <b>Meter Correction Factor (Y)</b>                                   |         | <b>0.990</b> |         |         |         |         |  |
| <b>Orifice Calibration Value (ΔH @)</b>                              |         | <b>1.660</b> |         |         |         |         |  |
| <b>Positive Pressure Leak Check</b>                                  |         | <b>Yes</b>   |         |         |         |         |  |

**Equipment Detail - Thermocouple Sensor**


Reference Calibrator Make: Altek  
 Reference Calibrator Model: Series 22  
 Reference Calibrator S/N: 8475031

**Calibration Detail**

| Reference Temp. |       | Display Temp. |       | Accuracy | Difference |
|-----------------|-------|---------------|-------|----------|------------|
| °F              | °R    | °F            | °R    | %        | °F         |
| 0               | 460   | 1             | 461   | -0.2     | 1          |
| 100             | 560   | 99            | 559   | 0.2      | 1          |
| 300             | 760   | 299           | 759   | 0.1      | 1          |
| 400             | 860   | 395           | 855   | 0.6      | 5          |
| 500             | 960   | 495           | 955   | 0.5      | 5          |
| 600             | 1,060 | 595           | 1,055 | 0.5      | 5          |
| 700             | 1,160 | 698           | 1,158 | 0.2      | 2          |
| 800             | 1,260 | 796           | 1,256 | 0.3      | 4          |
| 900             | 1,360 | 896           | 1,356 | 0.3      | 4          |
| 1,000           | 1,460 | 998           | 1,458 | 0.1      | 2          |
| 1,100           | 1,560 | 1,098         | 1,558 | 0.1      | 2          |
| 1,200           | 1,660 | 1,196         | 1,656 | 0.2      | 4          |

**Personnel**

Calibration By: Steven Milo  
 Calibration Date: 3/1/2022  
 Expiration Date: 9/1/2022

|   |                                 |                |         |
|---|---------------------------------|----------------|---------|
|  | <b>DGM Calibration-Orifices</b> | Document ID    | 620.004 |
|   |                                 | Revision       | 20.1    |
| Issuing Department  | Tech Services                   | Effective Date | 10/5/20 |
|   |                                 | Page           | 1 of 1  |

**Equipment Detail - Dry Gas Meter**

Console ID: 14  
 Meter S/N: 1522  
 Critical Orifice S/N: 1393

**Calibration Detail**

|  |              |         |         |         |         |         |  |
|--|--------------|---------|---------|---------|---------|---------|--|
| Initial Barometric Pressure, in. Hg (P <sub>b</sub> )                |              | 29.12   |         |         |         |         |  |
| Final Barometric Pressure, in. Hg (P <sub>b</sub> )                  |              | 29.12   |         |         |         |         |  |
| Average Barometric Pressure, in. Hg (P <sub>b</sub> )                |              | 29.12   |         |         |         |         |  |
| Critical Orifice ID (Y)  | 11           | 11      | 18      | 18      | 31      | 31      |  |
| K' Factor, ft <sup>3</sup> ·R <sup>1/2</sup> / in. WC·min (K')       | 0.3060       | 0.306   | 0.4961  | 0.4961  | 0.8358  | 0.8358  |  |
| Vacuum Pressure, in. Hg (V <sub>p</sub> )                            | 23.0         | 23.0    | 20.5    | 20.5    | 16.0    | 16.0    |  |
| Initial DGM Volume, ft <sup>3</sup> (V <sub>m</sub> )                | 233.968      | 240.045 | 246.142 | 256.046 | 265.900 | 282.474 |  |
| Final DGM Volume, ft <sup>3</sup> (V <sub>m</sub> )                  | 240.045      | 246.142 | 256.046 | 265.900 | 282.474 | 299.068 |  |
| Total DGM Volume, ft <sup>3</sup> (V <sub>m</sub> )                  | 6.077        | 6.097   | 9.904   | 9.854   | 16.574  | 16.594  |  |
| Ambient Temperature, °F (T <sub>a</sub> )                            | 66           | 66      | 66      | 66      | 66      | 66      |  |
| Initial DGM Temperature, °F (T <sub>m</sub> )                        | 68           | 68      | 68      | 68      | 68      | 68      |  |
| Final DGM Temperature, °F (T <sub>m</sub> )                          | 68           | 68      | 68      | 68      | 68      | 68      |  |
| Average DGM Temperature, °F (T <sub>m</sub> )                        | 68           | 68      | 68      | 68      | 68      | 68      |  |
| Elapsed Time (⊖)   | 15.00        | 15.00   | 15.00   | 15.00   | 15.00   | 15.00   |  |
| Meter Orifice Pressure, in. WC (ΔH)                                  | 0.45         | 0.45    | 1.20    | 1.20    | 3.60    | 3.60    |  |
| Standard Meter volume, ft <sup>3</sup> (V <sub>mstd</sub> )          | 5.9223       | 5.9418  | 9.6702  | 9.6214  | 16.2805 | 16.3002 |  |
| Standard Critical Orifice Volume, ft <sup>3</sup> (V <sub>cr</sub> ) | 5.8296       | 5.8296  | 9.4512  | 9.4512  | 15.9228 | 15.9228 |  |
| Meter Correction Factor (Y)  | 0.984        | 0.981   | 0.977   | 0.982   | 0.978   | 0.977   |  |
| Tolerance --   | 0.004        | 0.001   | 0.003   | 0.002   | 0.002   | 0.003   |  |
| Orifice Calibration Value (ΔH @)                                     | 1.633        | 1.633   | 1.660   | 1.660   | 1.765   | 1.765   |  |
| Tolerance --   | 0.053        | 0.053   | 0.026   | 0.026   | 0.079   | 0.079   |  |
| Orifice Cal Check --   | 0.54         |         | 0.29    |         | 0.54    |         |  |
| <b>Meter Correction Factor (Y)</b>                                   | <b>0.980</b> |         |         |         |         |         |  |
| <b>Orifice Calibration Value (ΔH @)</b>                              | <b>1.686</b> |         |         |         |         |         |  |
| <b>Positive Pressure Leak Check</b>                                  | <b>Yes</b>   |         |         |         |         |         |  |

**Equipment Detail - Thermocouple Sensor**

Reference Calibrator Make: Altek  
 Reference Calibrator Model: Series 22 TC Source  
 Reference Calibrator S/N: 8475031

**Calibration Detail**

| Reference Temp. |       | Display Temp. |       | Accuracy | Difference |
|-----------------|-------|---------------|-------|----------|------------|
| °F              | °R    | °F            | °R    | %        | °F         |
| 0               | 460   | 0             | 460   | 0.0      | 0          |
| 68              | 528   | 68            | 528   | 0.0      | 0          |
| 100             | 560   | 99            | 559   | 0.2      | 1          |
| 200             | 660   | 199           | 659   | 0.2      | 1          |
| 300             | 760   | 299           | 759   | 0.1      | 1          |
| 400             | 860   | 395           | 855   | 0.6      | 5          |
| 500             | 960   | 496           | 956   | 0.4      | 4          |
| 600             | 1,060 | 596           | 1,056 | 0.4      | 4          |
| 700             | 1,160 | 697           | 1,157 | 0.3      | 3          |
| 800             | 1,260 | 797           | 1,257 | 0.2      | 3          |
| 900             | 1,360 | 896           | 1,356 | 0.3      | 4          |
| 1,000           | 1,460 | 995           | 1,455 | 0.3      | 5          |
| 1,100           | 1,560 | 1,095         | 1,555 | 0.3      | 5          |
| 1,200           | 1,660 | 1,192         | 1,652 | 0.5      | 8          |

**Personnel**

Calibration By: Stephen Phipps  
 Calibration Date: 4/8/2022  
 Expiration Date: 10/8/2022

## Appendix E



Vinyl Ethers North Operating Data

Date 5/5/2022

| Time                    | 800     | 900 | 1000            | 1100 | 1200             | 1300 | 1400             | 1500 | 1600 | 1700 |
|-------------------------|---------|-----|-----------------|------|------------------|------|------------------|------|------|------|
| Stack Testing           |         |     | Run 1- 841-1045 |      | Run 2- 1112-1307 |      | Run 3- 1350-1542 |      |      |      |
| VEN Product             | PPVE    |     |                 |      |                  |      |                  |      |      |      |
| VEN Precursor           |         |     |                 |      |                  |      |                  |      |      |      |
| VEN Condensation (HFPO) |         |     |                 |      |                  |      |                  |      |      |      |
| VEN ABR                 | Burnout |     |                 |      |                  |      |                  |      |      |      |
| VEN Refining            |         |     |                 |      |                  |      |                  |      |      |      |
| Stripper Column Vent    |         |     |                 |      |                  |      |                  |      |      |      |

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