



284 Sheffield Street, Mountainside, NJ 07092  
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## **CASE NARRATIVE**

**AECOM Technical Services, Inc.**

**Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258**

**Project # N/A**

**Chemtech Project # Q1629**

**Test Name: VOCMS Group1**

### **A. Number of Samples and Date of Receipt:**

14 Water samples were received on 03/21/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260D.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TT188S1-20250320MSD [4-Bromofluorobenzene - 115%] and RW09-MW01S-20250320MSD [Toluene-d8 - 76%], Surrogate fail in only MSD but MS and Parent Sample is Passing For Surrogate Recoveries therefore no Corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1629-04MS} with File ID: VX045467.D recoveries met the requirements for all compounds except for Methyl Acetate[143%], due to matrix interference.

The MSD {Q1629-05MSD} with File ID: VX045468.D recoveries met the acceptable requirements except for 1,2-Dibromo-3-Chloropropane[129%], 1,2-Dichloroethane[130%], cis-1,3-Dichloropropene[126%] and t-1,3-Dichloropropene[129%], due to matrix interference.

The RPD for {Q1629-05MSD} with File ID: VX045468.D met criteria except for Bromomethane[26%], Carbon disulfide[42%], Chloroethane[23%], Chloromethane[30%], Cyclohexane[23%], Dichlorodifluoromethane[33%], Methyl

Acetate[33%], Methylcyclohexane[22%] and Vinyl chloride[25%], due to difference in results of MS and MSD.

The sample # TT188S1-20250320MS and TT188S1-20250320MSD are failing for Methyl Acetate, 1,2-Dichloroethane, t-1,3-Dichloropropene, cis-1,3-Dichloropropene, 1,2-Dibromo-3-Chloropropane and the original sample(TT188S1- 20250320) is reported with M flag for this compounds.

The Blank Spike for {VX0325WBS02} with File ID: VX045436.D met requirements for all samples except for Methyl Acetate[147%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VX0326WBS01} with File ID: VX045460.D met requirements for all samples except for Methyl Acetate[140%] failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration File ID VX045431.D met the requirements except for 1,1,2-Trichlorotrifluoroethane,2-Hexanone,cis-1,3-Dichloropropene,Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken.

The Continuous Calibration File ID VX045457.D met the requirements except for Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken.  
The Tuning criteria met requirements.

#### **E. Additional Comments:**

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_