

## **CASE NARRATIVE**

### **Chemtech Consulting Group**

**Project Name: NJ Drinking Water PT**

**Project # N/A**

**Chemtech Project # Q1172**

**Test Name: VOCMS Group1**

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

11 Water samples were received on 01/15/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Hardness, Calcium, Hardness, Total, Mercury, Metals Group3, Metals Group6, Metals Group7, Silica, Turbidity, VOCGC Group 1, VOCMS Group1, VOCMS Group2, VOCMS Group3, VOCMS Group4 and VOCMS Group5. This data package contains results for VOCMS Group1.

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

The analysis performed on instrument MSVOA\_U 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 524.2.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike for {VU0211WBS01} with File ID: VU063230.D met requirements for all samples except for tert-Butyl Alcohol[53%]failing but no positive hit in associated sample therefore no corrective action taken.

The Blank Spike Duplicate for {VU0211WBSD01} with File ID: VU063231.D met requirements for all samples except for tert-Butyl Alcohol[58%]failing but no positive hit in associated sample therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (524U021025DW.M) for Naphthalene, tert-Butyl Alcohol these compounds are passing on Linear Regression.

The Continuous Calibration met the requirements .



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The Tuning criteria met requirements.

Sample PT-RVOA-WS was diluted due to high concentration.

**E. Additional Comments:**

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\_\_\_\_\_