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CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 773A

Project # N/A

Chemtech Project # N1318

Test Name: VOC-TRACE-SFAM

A. Number of Samples and Date of Receipt:

8 Water samples were received on 01/27/2022.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB, SVOC-SIM-SFAM, SVOCMS Group1 and VOC-TRACE-SFAM. This data package contains results for VOC-TRACE-SFAM.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOC-TRACE-SFAM was based on method SFAM_Trace.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TB-220127-01 [1,1-Dichloroethene-d2 - 57% and Toluene-d8 - 69%]. As per method, up to three surrogates are allowed to fail. No corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The Tuning criteria met requirements.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Continuing Calibration (VSTD005301) file ID VV024488.D met the requirements except for Tetrachloroethene (23%). As per method, up to two target analyte in opening and closing CCV are allowed to exceed the %D values. Therefore no further corrective action was taken.

The Blank analysis indicated presence of Chloroform [0.20ug/L] FileID:VV024453.D (VBLK297) {VV0127WBL01} due to possible lab contamination.

The Blank analysis indicated presence of Chloroform [0.22 ug/L] FileID:VV024478.D (VBLK298) {VV0128WBL01} due to possible lab contamination. As per method, less than the respective CRQL is allowed to fail for Chloroform. Therefore no further corrective action was taken.

The Storage Blank analysis indicated presence of Chloroform [0.26 ug/L] FileID: VV024483.D (VHBLK001) due to possible lab contamination. As per method, less than the respective CRQL is allowed to fail for Chloroform. Therefore no further corrective action was taken.

E. Calculation:

$$\text{Concentration in ug/L} = \frac{(Ax) (Is) (DF)}{(Ais) (RRF) (Vo)}$$

Where,

Ax = Area of the characteristic ion (EICP) for the compound to be measured.

Ais = Area of the characteristic ion (EICP) for the internal standard.

Is = Amount of internal standard added in ng.

RRF = Mean Relative Response Factor from the initial calibration standard.

Vo = Total volume of water purged, in mL.

DF = Dilution Factor.

F. Manual Integration Comments:

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

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_____