

SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC CASE: 51802 SDG: C0CB8 CONTRACT: 68HERH20D0011 LAB CODE: ACE LAB ORDER ID: P4689 MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pН
P4689-01	C0CB8	1.0
P4689-02	C0CC0	1.0
P4689-03	C0CC1	1.0
P4689-04	C0CC5	1.0
P4689-04DL	C0CC5DL	1.0
P4689-05	C0CC9	1.0
P4689-06	C0CD0	1.0
P4689-07	C0CD1	1.0
P4689-08	C0CD2	1.0
P4689-11	C0CD3	1.0
P4689-12	C0CD8	1.0
P4689-13	C0CD9	1.0
P4689-13DL	C0CD9DL	1.0
P4689-14	C0CE0	1.0
P4689-14DL	C0CE0DL	1.0
P4689-15	C0CE3	1.0
P4689-16	C0CE4	1.0
P4689-17	C0CE8	1.0
P4689-18	C0CE9	1.0
P4689-18DL	C0CE9DL	1.0
P4689-19	C0CF0	1.0
P4689-19DL	C0CF0DL	1.0
P4689-20	C0CF1	1.0
P4689-20DL	C0CF1DL	1.0
P4689-21	C0CF2	1.0
P4689-22	C0CF3	1.0
P4689-22DL	C0CF3DL	1.0

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20 Water samples were delivered to the laboratory intact on 11/02/2024.

Test requested on the Chain of Custody was Trace Volatile Organic by Method SFAM01.1.

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.5 degree Celsius for the samples received on 11/02/2024.

Trace Volatiles:

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 VOC-SFAM was based on method SFAM01.1_Trace.

The Surrogate recoveries met the acceptable criteria except for, C0CB8 [Chloroethane-d5 - 64%], C0CC0 [Chloroethane-d5 - 63%], C0CC1 [Chloroethane-d5 - 63%], C0CC5 [Chloroethane-d5 - 64%], C0CE9DL [1,2-Dichlorobenzene-d4 - 123% and Chloroethane-d5 - 151%], As per method, up to three surrogates are allowed to fail. No corrective action was taken.

The Internal Standards Areas met the acceptable requirements. Instrument Performance Check met requirements. The Retention Times met requirements. The Tuning criteria met requirements.

The initial Calibration criteria met requirements.

The Continuing Calibration (VSTD005127) file ID VU061515.D met the requirements except for Vinyl Chloride-d3 (-30.9%). 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 Continuing Calibration (VSTD005129) file ID VU061537.D met the requirements except for Vinyl Chloride-d3 (-31.7%). 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 Continuing Calibration (VSTD005130) file ID VU061562.D met the requirements except for Vinyl Chloride-d3 (-35.9%). 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 did not indicate the presence of lab contamination. The storage blank analysis did not indicate the presence of lab contamination.



3 of 4 Samples C0CC5, C0CD9, C0CE0, C0CE9, C0CF0, C0CF1 and C0CF3 were diluted due to high concentrations.

The sample C0CE0 was analyzed following the analysis of C0CD9. Both samples had common hit of compound with concentration above calibration levels for Tetrachloroethene, It was reanalyzed at a diluted. As per method, no instrument blank was required and not analyzed.

The samples C0CE9, C0CF0 and C0CF1 were analyzed back to back in a continuous analytical sequence and samples had common hit of compound with concentration above calibration levels for Tetrachloroethene. It was reanalyzed at a diluted. As per method, no instrument blank was required and not analyzed.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation:

Low/Med Water Level Calculation

Concentration in ug/L = (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. 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

Example calculation of **C0CC5** for **Acetone**:

Ax= 8784 Is = 125 RRF= 0.044 DF= 1 Ais= 155697 Vo. = 25 Concentration in ug/L = (8784)(125)(1)(155697)(0.044)(25)

Reported Result = 6.41 ug/L

Final Reported Result = 6.5 ug/L



Relative Response Factor = **Dichlorodifluoromethane**: RUN **VU102324** for **0.5** ppb

RRF= <u>Area of compound</u> X <u>Conc. of Internal Standard</u> Area of Internal Standard Conc. of Compound

 $RRF= \ \underline{5894} \ X \ \underline{5.0} \\ 198718 \ 0.5$

RRF= 0.297

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 _____ Name: Nimisha Pandya.

Date: _____ Title: Document Control Officer.