



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51886 SDG: BH7S6

CONTRACT: 68HERH20D0011

LAB CODE: ACE Lab Order ID: P5149

MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pН
P5148-02	BH7S6	

01 Water samples were delivered to the laboratory intact on 12/05/2024.

Test requested on the Chain of Custody was Semivolatile Organic-SIM by Method SFAM01.1.

The temperature of the samples was measured using an I R Gun. The samples temperature was 1.9 degree Celsius for the samples received on 12/05/2024.

Semivolatiles SIM:

The samples were analyzed on instrument BNA_N using GC Column ZB-GR Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA.

Semis volatile Organic sample for Water sample was extracted by Method SFAM01.1 on 12/10/2024. The analysis of SVOCMS Group3 was based on method SFAM01.1_SVOC.

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 Blank Spike for {PB165514BS} recoveries met the requirements for all compounds.

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

The Tuning criteria met requirements.

The Initial Calibration met requirements.

The Continuous Calibration met requirements.

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



Concentration of Water Sample:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

Where,

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

Ais = Area of the characteristic ion for the internal standard.

Is = Amount of internal standard injected in ng.

Vo = Volume of water extracted in mL.

Vi = Volume of extract injected in uL.

Vt = Volume of the concentrated extract in uL

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

 $GPC = \underline{Vin} = GPC \text{ factor (If no GPC is performed, GPC=1)}$ Vout

Example calculation of BH7S6 for 1,4-Dioxane:

Ax = 1347

Ais = 1882

Is = 0.4

DF = 1

 $V_0 = 1000$

Vi = 1

Vt = 1000

RRF = 0.397

GPC = 1

Concentration ug/L =
$$(1347) (0.4) (1000) (1) (1)$$

(1882) (0.397) (1000) (1)

$$= 0.72 \text{ ug/L}$$

RRF Calculation of standard 0.4 ppb for **1,4-Dioxane** with N instrument for method 11/16/2024.

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

= 1077/2538 X 0.4/0.4

= 0.424 (Reported RRF)





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