



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Chemtech Project # P5261

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

21 Water samples were received on 12/11/2024.

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 SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

RE122D1-20241209 [Terphenyl-d14 - 163%],
RE122D2-20241209 [Terphenyl-d14 - 196%],
RE122D3-20241209 [Terphenyl-d14 - 152%],
RE103D1-20241209 [Terphenyl-d14 - 146%],
RE103D1-20241209DL [Terphenyl-d14 - 163%],
RE103D2-20241209 [Terphenyl-d14 - 146%],
RE134D1-20241209 [Terphenyl-d14 - 140%],
DUP-01-20241209 [Terphenyl-d14 - 186%],
RE134D3-20241210 [Terphenyl-d14 - 136%],
RE134D3-20241210DL [Terphenyl-d14 - 148%],
RE134D4-20241210 [Terphenyl-d14 - 139%],
GM3-RW3-MW1-20241210 [Terphenyl-d14 - 159%],
RE125D1-20241210 [Terphenyl-d14 - 142%],
RE125D1-20241210MS [Terphenyl-d14 - 146%],
RE125D1-20241210MSD [Terphenyl-d14 - 147%],
RE125D2-20241210 [Terphenyl-d14 - 148%],
RE125D2-20241210DL [Terphenyl-d14 - 155%],
RE125D3-20241210 [Terphenyl-d14 - 139%],
RE120D1-20241210 [Terphenyl-d14 - 134%],

RE120D3-20241210DL [2-Fluorobiphenyl - 113%, Nitrobenzene-d5 - 142%, Terphenyl-d14 - 175%],
DUP-02-20241210 [Terphenyl-d14 - 145%],
PB165596BS [Nitrobenzene-d5 - 115%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.

The MSD {P5261-14MSD} with File ID: BN035738.D recoveries met the acceptable requirements except for 1,4-Dioxane[50%], marginally low no corrective action is needed.

The RPD for {P5261-14MSD} with File ID: BN035738.D met criteria except for 1,4-Dioxane[40%], due to difference in results of MS and MSD .

The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6 and Terphenyl-d14 , The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035749.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.
The Tuning criteria met requirements.

Samples RE103D1-20241209, RE134D3-20241210, RE125D2-20241210 and RE120D3-20241210 were diluted due to high concentrations.



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E. Additional Comments:

The sample # RE125D1-20241210MS and RE125D1-20241210MSD is failing for 1,4-Dioxane, and the original sample(RE125D1-20241210) is reported with M flag for this compounds.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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 <15% 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 > 15% 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.

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_____