ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2820 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

(CONTINUED)

NA NO YES

The %RSD is greater than 20% for certain compounds in the Initial Calibration (Method 8270-BF081225.M) for 2-Nitrophenol, Hexachlorocyclopentadiene, 2-Nitroaniline, 2,6-Dinitrotoluene, 4-Nitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylephenol, Pentachlorophenol, Butylbenzylphthalate, Bis(2-ethylhexylephthalate), Di-n-octyl phthalate these Compounds are passing on Linear Regression while 2,4-Dinitrophenol is passing on Quadratic Regression.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF082025.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol these Compounds are passing on Linear regression.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BP0805.M) for 2-Nitrophenol , 2-Nitroaniline, 2,4-Dinitrotoluene these Compounds are passing on Linear regression, and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol these compounds are passing on Quadratic regression.

The Continuous Calibration File ID BF143365.D met the requirements except for Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octyl phthalate and Pentachlorophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF143539.D met the requirements except for Pentachlorophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025377.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low while 2,4-Dinitrophenol,2,6-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,Pentachlorophenol and 2,4,6-Tribromophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025422.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025470.D met the requirements except for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025485.D met the requirements except for 2,4-Dinitrophenol is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025487.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025528.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries were met for all analysis except for
82H-W [Terphenyl-d14 - 46%],
82H-N [Terphenyl-d14 - 46%],
SOIL-DUP-1 [Terphenyl-d14 - 52%],
518R-E [Terphenyl-d14 - 46%],
705R-S [Terphenyl-d14 - 47%],
10PC-W [Terphenyl-d14 - 50%],
10P-E [Terphenyl-d14 - 51%],
10P-N [Terphenyl-d14 - 45%],
88H-EMS [Terphenyl-d14 - 46%],
88H-EMSD [Terphenyl-d14 - 49%],
88H-N [Terphenyl-d14 - 48%],
22M-E [Terphenyl-d14 - 38%] and
22M-S [Terphenyl-d14 - 38%], as per method one acid and one base surrogate allow to fail therefore no corrective action taken, while for
518R-S [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 38%],
518R-SRE [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 36%],
82H-S [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 42%],
82H-SRE [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 42%],
88H-W [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 41%],
88H-WRE [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 42%],
88H-S [2,4,6-Tribromophenol - 37%, 2-Fluorobiphenyl - 31%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 30%],
88H-SRE [2,4,6-Tribromophenol - 38%, 2-Fluorobiphenyl - 30%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 30%],
22M-N [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 39%],
22M-NRE [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 41%],
22M-W [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 38%], and
22M-WRE [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 40%], samples were reanalyzed to confirm the failure and reported.

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(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {Q2830-05MS} with File ID: BF143367.D recoveries met the requirements for all compounds except for bis(2-Ethylhexyl)phthalate[140%], Butylbenzylphthalate[150%] and Di-n-butylphthalate[133%] due to matrix interference. The MSD {Q2830-05MSD} with File ID: BF143368.D recoveries met the requirements for all compounds except for 2,3,4,6-Tetrachlorophenol[133%], 2,6-Dinitrotoluene[125%], 4,6-Dinitro-2-methylphenol[133%], 4-Nitroaniline[125%], bis(2-Ethylhexyl)phthalate[157%], Butylbenzylphthalate[192%], Caprolactam[125%] and Di-n-butylphthalate[142%] due to matrix interference.

The Blank Spike for {PB169242BS} with File ID: BP025489.D met requirements for all compounds except for 1,4-Dioxane[65%] failing biased low therefore no corrective action taken.

The RPD for {Q2830-05MSD} with File ID: BF143368.D met criteria except for 4-Nitroaniline[22%], 4-Nitrophenol[23%], Butylbenzylphthalate[25%], Caprolactam[22%] and Pyrene[31%] due to difference in results of MS and MSD.

9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Samples 10P-S was diluted due to dirty matrix.

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.

The soil samples results are based on a dry weight basis.

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.

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QA REVIEW Date