

**CHEMTECH** 284 Sheffield Street, Mountainside New Jersey 07092

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

**GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY**

CHEMTECH PROJECT NUMBER: O3631

MATRIX: /Water

METHOD: 8260-Low,8260D

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB 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 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.  The %RSD is greater than 15% in the Initial Calibration method (82N071023S.M) for Bromomethane, Chloroethane, Methylene Chloride, 1,1,2,2-Tetrachloroethane, 1,2- Dibromo-3-Chloropropane, these compounds are passing on Linear Regression.  The % RSD is greater than 15% in the Initial Calibration method (82Y071323S.M) for Methylene Chloride, this compound is passing on Linear Regression.  The Continuous Calibration File ID VY014663.D met the requirements except for 2- Butanone,2-Hexanone and Methyl Acetate . But associated samples have not positive hit for these compounds therefore no corrective action was taken.		✓	
6. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7. Surrogate Recoveries Meet Criteria  If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

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**GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (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 {O3631-02MS} with File ID: VY014684.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[63%], 1,2-Dibromoethane[57%], 2-Butanone[34%], 2-Hexanone[38%], 4-Methyl-2-Pentanone[46%], Acetone[32%] and Bromoform[63%] due to matrix interference.  The MSD {O3631-03MSD} with File ID: VY014685.D recoveries met the acceptable requirements except for Methyl Acetate[178%] due to matrix interference .  The RPD for {O3631-03MSD} with File ID: VY014685.D met criteria except for 1,1,2,2-Tetrachloroethane[56%], 1,1,2-Trichloroethane[54%], 1,2,3-Trichlorobenzene[31%], 1,2-Dibromo-3-Chloropropane[79%], 1,2-Dibromoethane[60%], 1,2-Dichloroethane[43%], 1,2-Dichloropropane[24%], 2-Butanone[98%], 2-Hexanone[89%], 4-Methyl-2-Pentanone[81%], Acetone[95%], Bromochloromethane[41%], Bromodichloromethane[28%], Bromoform[57%], Chloroform[21%], cis-1,2-Dichloroethene[21%], cis-1,3-Dichloropropene[30%], Dibromochloromethane[46%], Methyl Acetate[84%], Methyl tert-butyl Ether[55%], Methylene Chloride[46%] and t-1,3-Dichloropropene[42%] . Due to difference in MS and MSD results.		✓	
9. Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for SB-02(2-4)MS. No internal standard failed in MSD therefore no corrective action was taken.		✓	
10. Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

**ADDITIONAL COMMENTS:**

This data package has been revised to report TICs as per client request.

This data package has been revised due to data package type changed as per client request.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

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 <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.

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QA REVIEW

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Date